



AGENDA

**CITY COUNCIL OF THE CITY OF MORENO VALLEY
MORENO VALLEY COMMUNITY SERVICES DISTRICT
CITY AS SUCCESSOR AGENCY FOR THE
COMMUNITY REDEVELOPMENT AGENCY OF
THE CITY OF MORENO VALLEY
MORENO VALLEY HOUSING AUTHORITY.
MORENO VALLEY PUBLIC FINANCING AUTHORITY
BOARD OF LIBRARY TRUSTEES**

June 4, 2019

REGULAR MEETING – 6:00 PM

City Council Study Sessions

Second Tuesday of each month – 6:00 p.m.

City Council Meetings

Special Presentations – 5:30 P.M.

First & Third Tuesday of each month – 6:00 p.m.

City Council Closed Session

Will be scheduled as needed at 4:30 p.m.

City Hall Council Chamber – 14177 Frederick Street

Upon request, this agenda will be made available in appropriate alternative formats to persons with disabilities, in compliance with the Americans with Disabilities Act of 1990. Any person with a disability who requires a modification or accommodation in order to participate in a meeting should direct such request to Guy Pegan, ADA Coordinator, at 951.413.3120 at least 72 hours before the meeting. The 72-hour notification will enable the City to make reasonable arrangements to ensure accessibility to this meeting.

Dr. Yxstian A. Gutierrez, Mayor

Victoria Baca, Mayor Pro Tem
Ulises Cabrera, Council Member

David Marquez, Council Member
Dr. Carla J. Thornton, Council Member

AGENDA
CITY COUNCIL OF THE CITY OF MORENO VALLEY
June 4, 2019

CALL TO ORDER - 5:30 PM

SPECIAL PRESENTATIONS

1. Business Spotlights
2. Classified Employee of the 1st Quarter

**AGENDA
JOINT MEETING OF THE
CITY COUNCIL OF THE CITY OF MORENO VALLEY
MORENO VALLEY COMMUNITY SERVICES DISTRICT
CITY AS SUCCESSOR AGENCY FOR THE
COMMUNITY REDEVELOPMENT AGENCY OF THE
CITY OF MORENO VALLEY
MORENO VALLEY HOUSING AUTHORITY
MORENO VALLEY PUBLIC FINANCING AUTHORITY
AND THE BOARD OF LIBRARY TRUSTEES**

***THE CITY COUNCIL RECEIVES A SEPARATE STIPEND FOR CSD
MEETINGS***

**REGULAR MEETING – 6:00 PM
JUNE 4, 2019**

CALL TO ORDER

Joint Meeting of the City Council, Community Services District, City as Successor Agency for the Community Redevelopment Agency, Housing Authority and the Board of Library Trustees - actions taken at the Joint Meeting are those of the Agency indicated on each Agenda item.

PLEDGE OF ALLEGIANCE

INVOCATION

Pastor Melvin Thomas, Praise and Worship Center

ROLL CALL

INTRODUCTIONS

PUBLIC COMMENTS ON MATTERS ON THE AGENDA WILL BE TAKEN UP AS THE ITEM IS CALLED FOR BUSINESS, BETWEEN STAFF'S REPORT AND CITY COUNCIL DELIBERATION (SPEAKER SLIPS MAY BE TURNED IN UNTIL THE ITEM IS CALLED FOR BUSINESS.)

PUBLIC COMMENTS ON ANY SUBJECT NOT ON THE AGENDA UNDER THE JURISDICTION OF THE CITY COUNCIL

Those wishing to speak should complete and submit a BLUE speaker slip to the Sergeant-at-Arms. There is a three-minute time limit per person. All remarks and questions shall be addressed to the presiding officer or to the City Council.

JOINT CONSENT CALENDARS (SECTIONS A-E)

All items listed under the Consent Calendars, Sections A, B, C, D, and E are considered to be routine and non-controversial, and may be enacted by one motion unless a member of the City Council, Community Services District, City as Successor Agency for the Community Redevelopment Agency, Housing Authority or the Board of Library Trustees requests that an item be removed for separate action. The motion to adopt the Consent Calendars is deemed to be a separate motion by each Agency and shall be so recorded by the City Clerk. Items withdrawn for report or discussion will be heard after public hearing items.

A. CONSENT CALENDAR-CITY COUNCIL

- A.1. ORDINANCES - READING BY TITLE ONLY - THE MOTION TO ADOPT AN ORDINANCE LISTED ON THE CONSENT CALENDAR INCLUDES WAIVER OF FULL READING OF THE ORDINANCE.

Recommendation: Waive reading of all Ordinances.

- A.2. MINUTES - CITY COUNCIL - REGULAR MEETING - MAY 21, 2019 6:00 PM

Recommendation: Approve as submitted.

- A.3. REQUEST FOR MAYOR'S ATTENDANCE TO THE NORTH AMERICAN MAYOR'S SUMMIT (Report of: City Clerk)

Recommendation: That the City Council:

Approval of Mayor's international attendance to the North American Mayor's Summit, on June 6 – 8, 2019 and the associated costs not to exceed \$4,000.

- A.4. REQUEST TO PURCHASE GUNSHOT DETECTION TECHNOLOGY WITH ASSET FORFEITURE FUNDS (Report of: Police Department)

Recommendations:

1. Authorize the police department to enter into a one-year service agreement with V5 Systems to test the usefulness of gunshot detection technology within the city of Moreno Valley at a location to be determined.
2. Authorize a budget adjustment of \$17,000 to the General Fund (1010) Asset Forfeiture revenue account and Police Department expenditure account.

A.5. APPROVE AMENDMENTS TO MULTIPLE CITY POLICIES (Report of: Financial & Management Services)

Recommendations:

1. Amend Policy No. 2.06, Park Naming Policy
2. Amend Policy No. 3.05, Donations
3. Amend Policy No. 4.02, City Council Vehicle Policy
4. Amend Policy No. 5.14, Management Contracts

A.6. Moreno Valley College Memorandum of Understanding - MoVal Learns - Mayor's Challenge (Report of: Economic Development)

Recommendation:

1. That the City Council approve the Memorandum of Understanding (MOU) between the City of Moreno Valley and Moreno Valley College to implement the MoVal Learns program.

A.7. THIRD AMENDMENT TO THE AGREEMENT FOR ON-CALL CONSTRUCTION INSPECTION SERVICES WITH INTERWEST CONSULTING GROUP (Report of: Public Works)

Recommendations:

1. Approve the Third Amendment to the On-Call Professional Consultant Services for Construction Inspection Services with Interwest Consulting Group;
2. Authorize the City Manager to execute the Third Amendment with Interwest Consulting Group, which includes executing subsequent Amendments or Extensions to the Agreement, and the authority to authorize associated purchase orders in accordance with the terms of the Agreement, subject to the approval of the City Attorney; and
3. Authorize the issuance of a change order to Purchase Order with Interwest Consulting Group from a not-to-exceed amount of \$215,000.00 to a not-to-exceed amount of \$315,000.00 (an increase of \$100,000.00 for additional inspection services).

- A.8. TR 24203 – REQUEST FOR TIME EXTENSION FOR FULL ROAD CLOSURE OF LAWLESS ROAD FROM PIGEON PASS ROAD TO SHADOW MOUNTAIN DRIVE WITH A REOPEN DATE ON AUGUST 6, 2019. DEVELOPER – KB HOME COASTAL, INC. (Report of: Public Works)

Recommendations:

1. Approve the request for time extension for the existing full road closure of Lawless Road from Pigeon Pass Road to Shadow Mountain Drive for the reconstruction of Lawless Road with a reopen date on August 6, 2019.
2. Authorize the Public Works Director/City Engineer to approve a one-time extension, if needed, of the road closure for a period not to exceed 14 calendar days.

- A.9. Ordinance Amending City Council Compensation (Report of: City Attorney)

Recommendation:

Introduce Ordinance amending City Council compensation by title only, conduct first reading and schedule the second reading and adoption for the next regularly scheduled Council meeting.

- A.10. APPROVAL TO USE ASSET FORFEITURE FUNDS TO PURCHASE AN UNMANNED AIRCRAFT SYSTEM IN FY 2019-20 (Report of: Police Department)

Recommendations:

1. Authorize the police department to purchase one new DJI Mavic 2 Enterprise unmanned aircraft system/vehicle (UAS/UAV) to utilize in the Moreno Valley Police Traffic Bureau for collision reconstruction and documentation. The total cost for the UAV is \$3,177.55. (UAV \$2,949.00 plus \$228.55 tax.)
2. Authorize the Police Department to purchase four Mavic 2 Enterprise Intelligent Flight Batteries for \$599.09 (\$556 for batteries, plus \$43.09 sales tax).
3. Authorize the Police Department to purchase one CrystalSky Ultra Bright UAV camera viewing tablet for \$1,049.63 (\$974.130 plus \$75.50 sales tax).

4. Authorize the Police Department to purchase UAV support equipment including a Lume Cube DJI Mavic 2 lighting kit, Mavic II Enterprise Fly More Kit, a DJI Battery Charging Hub, an Fstop Labs Parallel battery charger, a DJI Mavic protector case and four 256gb SanDisk micro SD storage cards for \$1,103.30 (\$1,023.94 plus \$73.36 tax.)
5. Authorize a budget adjustment of \$6,480 (\$5,503.07 equipment, \$426.50 tax and \$550.30 estimated shipping) to the General Fund (1010) Police Asset Forfeiture revenue and expenditure accounts.

A.11. AWARD A FOUR YEAR CONTRACT TO STENO SOLUTIONS TRANSCRIPTION SERVICES FOR \$40,000 PER FISCAL YEAR, FOR AN AMOUNT NOT TO EXCEED \$160,000 FOR LIFE OF CONTRACT (Report of: Police Department)

Recommendations:

1. Approve and award a four year contract for an amount not to exceed \$160,000 to Steno Solutions Transcription Services Inc. to provide transcription of dictation formatted as a MS Word document for the Moreno Valley Police Department from FY19/20 through FY22/23.
2. Authorize the Moreno Valley Police Department to execute a Purchase Order to Steno Solutions Transcription Services Inc. for \$40,000 per fiscal year, from General Fund Account No. 1010-60-65-40010-625099.

A.12. AWARD A FOUR YEAR CONTRACT TO AMERICAN FORENSIC NURSES FOR \$40,000 PER FISCAL YEAR, FOR AN AMOUNT NOT TO EXCEED \$160,000 FOR LIFE OF CONTRACT (Report of: Police Department)

Recommendations:

1. Approve and award a four year contract for an amount not to exceed \$160,000 to American Forensic Nurses for blood draw, biological evidence and urine collection services for the Moreno Valley Police Department from FY19/20 through FY22/23.
2. Authorize the Moreno Valley Police Department to execute a Purchase Order to American Forensic Nurses for \$40,000 per fiscal year, from General Fund Account No. 1010-60-65-40010-625099.

- A.13. AWARD A FOUR YEAR CONTRACT TO BIO-TOX LABORATORIES FOR \$100,000 PER FISCAL YEAR, FOR AN AMOUNT NOT TO EXCEED \$400,000 FOR LIFE OF CONTRACT (Report of: Police Department)

Recommendations:

1. Approve and award a four year contract for an amount not to exceed \$400,000 to Bio-Tox Laboratories to conduct toxicology testing for the Moreno Valley Police Department from FY19/20 through FY22/23.
2. Authorize the Moreno Valley Police Department to execute a Purchase Order to Bio-Tox Laboratories for \$100,000 per fiscal year, from General Fund Account No. 1010-60-65-40010-625099.

- A.14. APPROVE A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY TO AMEND THE ELECTRIC RATES AND RULES FOR MORENO VALLEY UTILITY (MVU) (Report of: Financial & Management Services)

Recommendation:

1. Approve Resolution No. 2019-XX. A Resolution of the City Council of the City of Moreno Valley, California, to Amend the Electric Rates and Rules for Moreno Valley Utility (MVU).

- A.15. AUTHORIZATION TO AWARD CONSTRUCTION CONTRACT TO AMERICAN ASPHALT SOUTH, INC. FOR PAVEMENT REHABILITATION FOR VARIOUS LOCAL STREETS (CDBG FISCAL YEAR 2018-19)-PROJECT NO. 801 0082 (Report of: Public Works)

Recommendations:

1. Award a construction contract to American Asphalt South, Inc., 14436 Santa Ana Avenue, Fontana, CA 92337, for the Pavement Rehabilitation for Various Local Streets (CDBG Fiscal Year 2018-19) Project and authorize the City Manager to execute a contract with American Asphalt South, Inc. in substantial conformance with the attached contract in the amount of \$475,663.50;
2. Authorizes the issuance of a Purchase Order for American Asphalt South, Inc. in the amount of \$547,013.00 (\$475,663.50 bid amount plus 15% contingency) when the contract has been signed by all parties; and
3. Authorize the Public Works Director/City Engineer to execute any subsequent related change orders to the contract, but not exceeding the total contingency of \$71,349.50 subject to the approval of the City Attorney.

- A.16. APPROVE A PROFESSIONAL SERVICES AGREEMENT WITH ROBERT E. CENDEJAS AND ASSOCIATES, INC. FOR ECONOMIC DEVELOPMENT AND SALES TAX CONSULTING SERVICES. (Report of: Financial & Management Services)

Recommendation:

1. Approve the Professional Services Agreement with Robert E. Cendejas and Associates, Inc. for economic development and sales tax consulting services.
2. Authorize the City Manager to execute the Agreement.

- A.17. AUTHORIZATION TO AWARD CONTRACT FOR ARMORED CAR SERVICES (Report of: Financial & Management Services)

Recommendations:

1. That the City Council authorize the awarding of the contract for armored car services to Garda CL West Inc.
2. That the City Council authorize the City Manager to sign the contract and any future amendments pending the final review and approval by the City Attorney's Office.

- A.18. WASTE MANAGEMENT FY 2019/20 RATE ADJUSTMENT (Report of: Public Works)

Recommendation:

1. Approve the request by Waste Management, Inc. ("Waste Management") to increase solid waste rates in FY2019/20 to include a new fee for Recycling Material Offset (RMO) Costs in the amount of \$0.31 per month, per residential account.

- A.19. AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER FIRE APPARATUS (Report of: Fire Department)

Recommendations:

1. Authorize the purchase of a 101' Aerial Ladder Fire Apparatus and related emergency equipment for a not to exceed amount of \$1,307,912 from General Fund Account No. 1010-40-45-30110-660322.
2. Authorize the Moreno Valley Fire Department to execute a Purchase Order for a 101' Aerial Ladder Fire Apparatus from Kovatch Mobile Equipment, dba KME Fire Apparatus, the vendor awarded through a competitive bid process conducted by Riverside County Central Purchasing Department.

A.20. LIST OF PERSONNEL CHANGES (Report of: Human Resources)

Recommendation:

1. Ratify the list of personnel changes as described.

A.21. AWARD OF AN ON-SITE AND/OR PROFESSIONAL SERVICES AGREEMENT FOR IRRIGATION PUMP MAINTENANCE (AGREEMENT NO. 2019-__) (CITY COUNCIL AND CSD BOARD) (Report of: Public Works)

Recommendations:

1. Approve the Agreement for On-Site and/or Professional Services for Irrigation Pump Maintenance ("Agreement") with Eagle Pump Services, Inc., 12403 Central Ave. #428, Chino, CA 91710, and waive any and all minor irregularities, to provide irrigation pump maintenance services within landscape maintenance districts for a total contract amount not-to-exceed \$213,500.
2. Authorize the City Manager to execute the Agreement with Eagle Pump Services, Inc. and authorize the Public Works Director/City Engineer to execute subsequent amendments to the Agreement, in accordance with its terms, subject to the approval of the City Attorney and provided sufficient funding appropriations and program approvals have been granted by the City Council.

A.22. ORDINANCE ESTABLISHING A MAYORAL STIPEND (Report of: City Attorney)

Recommendation:

1. Introduce and conduct the first reading by title only of an Ordinance amending Municipal Code Chapter 2.04, to provide for a Mayoral Stipend.
2. Authorize a budget adjustment of \$7,200 as shown in the Financial Impact section of this report.

B. CONSENT CALENDAR-COMMUNITY SERVICES DISTRICT

B.1. ORDINANCES - READING BY TITLE ONLY - THE MOTION TO ADOPT AN ORDINANCE LISTED ON THE CONSENT CALENDAR INCLUDES WAIVER OF FULL READING OF THE ORDINANCE.

Recommendation: Waive reading of all Ordinances.

B.2. MINUTES - REGULAR MEETING OF MAY 21, 2019 6:00 PM (See A.2)

Recommendation: Approve as submitted.

B.3. APPROVAL OF THE MAXIMUM AND APPLIED SPECIAL TAXES FOR COMMUNITY FACILITIES DISTRICT NO. 1 FOR FISCAL YEAR 2019/20 (Report of: Public Works)

Recommendations:

1. Acting in its capacity as the Board of Directors for the CSD and as the legislative body of Community Facilities District No. 1, adopt Resolution No. CSD 2019-____, a Resolution of the Moreno Valley Community Services District of the City of Moreno Valley, California, Approving the Community Facilities District No. 1 Maximum and Applied Special Tax Rates for Fiscal Year 2019/20, and Calculation Thereof.
2. Authorize the Chief Financial Officer to adjust the proposed special tax rates in the event there are any parcel changes, clerical errors, or other adjustments as may be necessary between the date the special taxes were calculated and the date the fixed charges are submitted to the County of Riverside, provided the applied special tax does not exceed the maximum special tax and is in compliance with the Rate and Method of Apportionment of Special Tax for the district.

C. CONSENT CALENDAR - HOUSING AUTHORITY

C.1. ORDINANCES - READING BY TITLE ONLY - THE MOTION TO ADOPT AN ORDINANCE LISTED ON THE CONSENT CALENDAR INCLUDES WAIVER OF FULL READING OF THE ORDINANCE.

Recommendation: Waive reading of all Ordinances.

C.2. MINUTES - REGULAR MEETING OF MAY 21, 2019 6:00 PM (See A.2)

Recommendation: Approve as submitted.

D. CONSENT CALENDAR - BOARD OF LIBRARY TRUSTEES

D.1. ORDINANCES - READING BY TITLE ONLY - THE MOTION TO ADOPT AN ORDINANCE LISTED ON THE CONSENT CALENDAR INCLUDES WAIVER OF FULL READING OF THE ORDINANCE.

Recommendation: Waive reading of all Ordinances.

D.2. MINUTES - REGULAR MEETING OF MAY 21, 2019 6:00 PM (See A.2)

Recommendation: Approve as submitted.

E. CONSENT CALENDAR - PUBLIC FINANCING AUTHORITY

- E.1. ORDINANCES - READING BY TITLE ONLY - THE MOTION TO ADOPT AN ORDINANCE LISTED ON THE CONSENT CALENDAR INCLUDES WAIVER OF FULL READING OF THE ORDINANCE.
- E.2. MINUTES - REGULAR MEETING OF MAY 21, 2019 6:00 PM (See A.2)

Recommendation: Approve as submitted.

F. PUBLIC HEARINGS

Questions or comments from the public on a Public Hearing matter are limited to five minutes per individual and must pertain to the subject under consideration.

Those wishing to speak should complete and submit a GOLDENROD speaker slip to the Sergeant-at-Arms.

- F.1. PUBLIC HEARING ESTABLISHING APPROPRIATIONS (“GANN”) LIMIT FOR FISCAL YEAR 2019/20 (Report of: Financial & Management Services)

Recommendations: That the City Council and CSD:

- 1. Conduct a Public Hearing to receive public comments on the City of Moreno Valley General Fund appropriations limit for Fiscal Year 2019/20.
- 2. Adopt Resolution No. 2019-XX, a resolution of the City Council of the City of Moreno Valley, California, establishing the appropriations limit for Fiscal Year 2019/20.
- 3. Conduct a Public Hearing to receive public comments on the Moreno Valley Community Services District’s appropriations limit for Fiscal Year 2019/20.
- 4. Adopt Resolution No. CSD 2019-XX, a resolution of the Moreno Valley Community Services District establishing the appropriations limit for Fiscal Year 2019/20

- F.2. PUBLIC HEARING FOR DELINQUENT SOLID WASTE ACCOUNTS (Report of: Public Works)

Recommendations: That the City Council:

- 1. Conduct the Public Hearing and accept public testimony regarding Calendar Year (CY) 2018 delinquent solid waste accounts to be applied to the Fiscal Year (FY) 2019/20 County of Riverside property tax roll for collection;

2. Approve the Solid Waste Delinquency Report from Waste Management, Inc. (Waste Management) listing the CY 2018 delinquent solid waste accounts for placement on the FY 2019/20 County of Riverside property tax roll for collection; and
3. Direct the City Clerk to file the Solid Waste Delinquency Report with the County of Riverside Auditor-Controller.

F.3. PUBLIC HEARING AND ADOPTION OF THE CAPITAL IMPROVEMENT PLAN FOR FISCAL YEARS 2019/20 & 2020/21 (Report of: Public Works)

Recommend that the City Council:

1. Conduct a Public Hearing to Approve and Adopt Resolution No. 2019-XX. approving the Capital Improvement Plan for FYs 2019/20 & 2020/21;
2. Following the adoption of the Capital Improvement Plan (CIP), authorize the Public Works Director to make any minor adjustments in order to finalize the adopted CIP for public distribution;
3. Authorize the Chief Financial Officer to consolidate the approved CIP Budget with the approved and adopted City Operating Budget for FY 2019/20 and FY 2020/21;

Recommend that the Housing Authority Board of Directors:

1. Acting in its capacity as the Board of Directors of the Moreno Valley Housing Authority of the City of Moreno Valley, conduct a Public Hearing to Approve and Adopt Resolution No. HA 2019-XX, a Resolution of the Moreno Valley Housing Authority of the City of Moreno Valley, California, adopting the Capital Improvement Plan for FYs 2019/20 & 2020/21.

Recommend that the Community Services District Board of Directors:

1. Acting in its capacity as the Board of Directors of the Community Services District of the City of Moreno Valley, conduct a Public Hearing to Approve and Adopt Resolution No. CSD 2019-XX, a Resolution of the Community Services District of the City of Moreno Valley, California, adopting the Capital Improvement Plan for FYs 2019/20 & 2020/21; and

F.4. PUBLIC HEARING FOR DELINQUENT NUISANCE ABATEMENT (Report of: Fire Department)

Recommendations:

1. Conduct a public hearing and accept public testimony on delinquent nuisance abatement account.
2. Adopt Resolution No. 2019-XX. A Resolution of the City Council of the City of Moreno Valley, California, Confirming Statements of Costs against Real Property located in the City of Moreno Valley, for Abatements of Public Nuisances and Direction that Said Statement of Costs Constitute a Lien upon Said Properties.
3. Approve placing the submitted Property Assessment List of delinquent nuisance abatement accounts on the Fiscal Year (FY) 2019/2020 Riverside County property tax roll for collection.
4. Direct the City Clerk to file with the Riverside County Tax Assessor's office a certified copy of Resolution No. 2019-XX and the Property Assessment List as required by Section 6.04.120 of the City of Moreno Valley Municipal Code.

F.5. PUBLIC HEARING TO CONFIRM DIAGRAMS AND ASSESSMENTS FOR LANDSCAPE MAINTENANCE DISTRICT NO. 2014-02 FOR FISCAL YEAR 2019/20 (RESO NO. CSD 2019-__) (Report of: Public Works)

Recommendations: That the CSD:

1. Conduct the Public Hearing on the proposed levy of real property assessments for Moreno Valley Community Services District Landscape Maintenance District No. 2014-02.
2. Adopt Resolution No. CSD 2019-___, a Resolution of the Board for the Moreno Valley Community Services District of the City of Moreno Valley, California, Ordering that Costs for Certain Improvements Shall Be Raised Through Installments Over a Period of Years and Confirming Diagrams and Assessments for Fiscal Year 2019/20 in Connection with Moreno Valley Community Services District Landscape Maintenance District No. 2014-02.
3. Authorize the Chief Financial Officer to adjust the proposed assessments in the event there are any parcel changes, clerical errors, or other adjustments as may be necessary between the date the assessments were calculated and the date the fixed charges are submitted to the County of Riverside, provided the applied assessments do not exceed the maximum assessments and are in compliance with the formation documents for the district.

G. GENERAL BUSINESS

G.1. FISCAL YEAR 2018/19 THIRD QUARTER BUDGET REVIEW AND APPROVAL OF THE FISCAL YEAR 2018/19 THIRD QUARTER BUDGET AMENDMENTS (Report of: Financial & Management Services)

Recommendations: That the City Council:

1. Receive and file the Fiscal Year 2018/19 Third Quarter Budget Review. (Attachment 1)
2. Adopt Resolution No. 2019-XX. A resolution of the City Council of the City of Moreno Valley, California, adopting the revised operating and capital budgets for Fiscal Year (FY) 2018/19.

Recommendation: That the CSD:

1. Adopt Resolution No. CSD 2019-XX. A resolution of the Moreno Valley Community Services District of the City of Moreno Valley, California, adopting the revised operating and capital budget for FY 2018/19.

G.2. PARTICIPATION IN A PEER REVIEW STUDY REGARDING POTENTIAL CREATION OF A POLICE SERVICES JOINT POWERS AUTHORITY (Report of: City Manager)

Recommendations: That the City Council:

1. Approve the City's participation in a Peer Review study to verify the feasibility of the Matrix study regarding potential creation of a Police Services Joint Powers Authority to serve several cities that currently contract with the Riverside County Sheriff's Department.
2. Authorize the City Manager to enter into a participation/cost sharing agreement with other participating cities.
3. Authorize a General Fund expenditure not to exceed \$15,000.

H. ITEMS REMOVED FROM CONSENT CALENDARS FOR DISCUSSION OR SEPARATE ACTION

I. REPORTS

I.1. CITY COUNCIL REPORTS

(Informational Oral Presentation - not for Council action)

March Joint Powers Commission (JPC)

Riverside County Habitat Conservation Agency (RCHCA)

Riverside County Transportation Commission (RCTC)

Riverside Transit Agency (RTA)

Western Riverside Council of Governments (WRCOG)

Western Riverside County Regional Conservation Authority (RCA)

School District/City Joint Task Force

I.2. CITY MANAGER'S REPORT

(Informational Oral Presentation - not for Council action)

I.3. CITY ATTORNEY'S REPORT

(Informational Oral Presentation - not for Council action)

CLOSING COMMENTS AND/OR REPORTS OF THE CITY COUNCIL, COMMUNITY SERVICES DISTRICT, CITY AS SUCCESSOR AGENCY FOR THE COMMUNITY REDEVELOPMENT AGENCY, HOUSING AUTHORITY AND THE BOARD OF LIBRARY TRUSTEES.

ADJOURNMENT

PUBLIC INSPECTION

The contents of the agenda packet are available for public inspection on the City's website at www.moval.org and in the City Clerk's office at 14177 Frederick Street during normal business hours.

Any written information related to an open session agenda item that is known by the City to have been distributed to all or a majority of the City Council less than 72 hours prior to this meeting will be made available for public inspection on the City's website at www.moval.org and in the City Clerk's office at 14177 Frederick Street during normal business hours.

CERTIFICATION

I, Pat Jacquez-Nares, City Clerk of the City of Moreno Valley, California, certify that 72 hours prior to this Regular Meeting, the City Council Agenda was posted on the City's website at: www.moval.org and in the following three public places pursuant to City of Moreno Valley Resolution No. 2007-40:

City Hall, City of Moreno Valley
14177 Frederick Street

Moreno Valley Senior/Community Center
25075 Fir Avenue

Pat Jacquez-Nares, CMC & CERA
City Clerk

Moreno Valley Library
25480 Alessandro Boulevard

Date Posted: May 30, 2019

TO:

FROM: Pat Jacquez-Nares, City Clerk

AGENDA DATE: June 4, 2019

TITLE: BUSINESS SPOTLIGHTS

RECOMMENDED ACTION

CITY COUNCIL GOALS

None

CITY COUNCIL STRATEGIC PRIORITIES

1. Economic Development
2. Public Safety
3. Library
4. Infrastructure
5. Beautification, Community Engagement, and Quality of Life
6. Youth Programs

ATTACHMENTS

None

APPROVALS

TO:

FROM: Pat Jacquez-Nares, City Clerk

AGENDA DATE: June 4, 2019

TITLE: CLASSIFIED EMPLOYEE OF THE 1ST QUARTER

RECOMMENDED ACTION

CITY COUNCIL GOALS

None

CITY COUNCIL STRATEGIC PRIORITIES

1. Economic Development
2. Public Safety
3. Library
4. Infrastructure
5. Beautification, Community Engagement, and Quality of Life
6. Youth Programs

ATTACHMENTS

None

APPROVALS

**MINUTES
CITY COUNCIL REGULAR MEETING OF THE CITY OF MORENO VALLEY
May 21, 2019**

CALL TO ORDER - 5:30 PM

SPECIAL PRESENTATIONS

1. 2019 Employee of the Quarter
2. Public Works Week Proclamation
3. 2018 MVPD Officer of the 4th Quarter
4. 2018 Firefighter of the Year

**MINUTES
JOINT MEETING OF THE
CITY COUNCIL OF THE CITY OF MORENO VALLEY
MORENO VALLEY COMMUNITY SERVICES DISTRICT
CITY AS SUCCESSOR AGENCY FOR THE
COMMUNITY REDEVELOPMENT AGENCY OF THE
CITY OF MORENO VALLEY
MORENO VALLEY HOUSING AUTHORITY
BOARD OF LIBRARY TRUSTEES**

**REGULAR MEETING – 6:00 PM
May 21, 2019**

CALL TO ORDER

The Joint Meeting of the City Council, Community Services District, City as Successor Agency for the Community Redevelopment Agency of the City of Moreno Valley, Moreno Valley Housing Authority, Moreno Valley Public Financing Authority and the Board of Library Trustees was called to order at 6:08 p.m. by Mayor Gutierrez in the Council Chamber located at 14177 Frederick Street.

Mayor Gutierrez announced that the City Council receives a separate stipend for CSD meetings.

PLEDGE OF ALLEGIANCE

The Pledge of Allegiance was led by Mayor Pro Tem Baca.

INVOCATION

Pastor Lupe Gonzalez, Templo De Milagros

ROLL CALL

Council:	Dr. Yxstian A. Gutierrez	Mayor
	Victoria Baca	Mayor Pro Tem
	David Marquez	Council Member
	Ulises Cabrera	Council Member
	Dr. Carla J. Thornton	Council Member

INTRODUCTIONS

Staff:	Pat Jacquez-Nares	City Clerk
	Regina Flores	Senior Deputy City Clerk
	Martin Koczanowicz	City Attorney
	Tom DeSantis	City Manager

Minutes Acceptance: Minutes of May 21, 2019 6:00 PM (CONSENT CALENDAR-CITY COUNCIL)

Allen Brock	Assistant City Manager
Jackie Melendez	Business and Workforce Development Program Manager
Rick Sandzimier	Community Development Director
Dave Lelevier	Acting Police Chief
Abdul Ahmad	Fire Chief
Kathleen Sanchez	Human Resources Director
Erica Green	Parks and Community Services Deputy Director
Michael Wolfe	Public Works Director/City Engineer

F.5. STATE ROUTE 60/WORLD LOGISTICS CENTER PARKWAY INTERCHANGE - PROJECT NO. 801 0052 (RESO. NO. 2019-28) (Report of: Public Works)

Public Works Director/City Engineer Wolfe provided the report.

Mayor Gutierrez requested confirmation that alternative number six would result in no cost to the City.

Public Works Director/City Engineer Wolfe replied in the affirmative.

Council Member Marquez inquired as to the cost of the revised street signs, alternative six, why he wasn't supplied with information regarding the extension, and expressed his concerns over its funding and uncertainty of the warehouse's completion. He suggested that the item be tabled for continued discussion at a Study Session.

Public Works Director/City Engineer Wolfe furnished the information.

Council Member Thornton asked for clarification on the Public Hearings mentioned in the staff report.

Public Works Director/City Engineer Wolfe explained that the current Public Hearing constituted the Hearing mentioned in his report.

Mayor Gutierrez opened the Public Hearing at 6:21 p.m.

Brandon Carn opposes Item No. F.5.

Angel Lopez opposes Item No. F.5.

Roy Bleckert supports Item No. F.5.

Louise Palomarez supports Item No. F.5.

Mayor Gutierrez stated that the item was discussed earlier in the year and praised its preservation of the general fund. He mentioned tactics adopted by

other Cities to promote local businesses and recommended alternative number six.

Mayor Pro Tem Baca mentioned that the staff report was accessible five days before the meeting and staff was available to answer questions regarding the proposal.

Council Member Thornton remarked that precedent has already been established for the renaming of streets on behalf of a business. She explained that if the item passes a portion of Theodore Street would remain. In appreciation of the importance of Theodore Street to residents, she suggested the installation of a history center where the City's founders are highlighted.

Council Member Cabrera commented that his concerns were allayed when he read the staff report and learned that Caltrans would cover the cost of the new freeway sign. He also mentioned that the City is positioning itself strategically in preparation of upcoming grant funding opportunities. He concurred with Council Member Thornton's suggestion regarding a facility showcasing the City's pioneers. Finally, he suggested moving the Redlands Interchange forward to capitalize on State subsidies.

There being no further comments in support or opposition, Mayor Gutierrez closed the Public Hearing at 6:33 p.m.

Recommendations: That the City Council:

1. Authorize the identification of Alternative 6 as the locally-preferred alternative in the Draft Initial Study/Environmental Assessment for the project;
2. Authorize the location change of the "gateway interchange" designation to SR-60/World Logistics Center Parkway and authorize the Public Works Director/City Engineer to amend the *Route 60 Corridor Master Plan for Aesthetics and Landscaping*;

RESULT:	APPROVED [4 TO 1]
MOVER:	Victoria Baca, Mayor Pro Tem
SECONDER:	Ulises Cabrera, Council Member
AYES:	Dr. Yxstian A. Gutierrez, Victoria Baca, Ulises Cabrera, Dr. Carla J. Thornton
NAYS:	David Marquez

3. Certify that the proposed declassification of landmark status and renaming of Theodore Street from State Highway Route 60 north to Hemlock Avenue has been determined to be exempt as defined under State California Environmental Quality Act (CEQA) Guidelines Section 15061(b)(3), the

Minutes Acceptance: Minutes of May 21, 2019 6:00 PM (CONSENT CALENDAR-CITY COUNCIL)

General Rule “Common Sense” Exemption, in that the activity is covered by the general rule that CEQA applies only to projects which have the potential for causing a significant effect on the environment;

RESULT: APPROVED [3 TO 2]
MOVER: Victoria Baca, Mayor Pro Tem
SECONDER: Ulises Cabrera, Council Member
AYES: Dr. Yxstian A. Gutierrez, Victoria Baca, Ulises Cabrera
NAYS: David Marquez, Dr. Carla J. Thornton

- 4. Approve Resolution No. 2019-28: A Resolution of the City Council of the City of Moreno Valley, California, approving the extension of the declassification of landmark status for the name Theodore Street for that portion of the arterial from State Highway Route 60, north to Hemlock Avenue and approving the name change to World Logistics Center Parkway (WLC Parkway);
- 5. Authorize the Mayor to sign a letter to Caltrans requesting incorporation of the name change on the freeway signs; and
- 6. Direct staff to implement the name change in a cost effective manner.

RESULT: APPROVED [3 TO 2]
MOVER: Victoria Baca, Mayor Pro Tem
SECONDER: Ulises Cabrera, Council Member
AYES: Dr. Yxstian A. Gutierrez, Victoria Baca, Ulises Cabrera
NAYS: David Marquez, Dr. Carla J. Thornton

JOINT CONSENT CALENDARS (SECTIONS A-E)

Mayor Gutierrez opened the Consent Agenda items for public comments, which was received from Roy Bleckert (Supports Item No. A.13).

RESULT: APPROVED [4 TO 1]
MOVER: Ulises Cabrera, Council Member
SECONDER: Victoria Baca, Mayor Pro Tem
AYES: Dr. Yxstian A. Gutierrez, Victoria Baca, Ulises Cabrera, Dr. Carla J. Thornton
NAYS: David Marquez

A. CONSENT CALENDAR-CITY COUNCIL

- A.1. ORDINANCES - READING BY TITLE ONLY - THE MOTION TO ADOPT AN ORDINANCE LISTED ON THE CONSENT CALENDAR INCLUDES WAIVER OF FULL READING OF THE ORDINANCE.

Recommendation: Waive reading of all Ordinances.

Minutes Acceptance: Minutes of May 21, 2019 6:00 PM (CONSENT CALENDAR-CITY COUNCIL)

A.2. City Council - Study Session - Apr 9, 2019 6:00 PM

Recommendation: Approve as submitted.

A.3. City Council - Regular Meeting - Apr 16, 2019 6:00 PM

Recommendation: Approve as submitted.

A.4. City Council - Closed Session - May 7, 2019 4:30 PM

Recommendation: Approve as submitted.

A.5. City Council - Regular Meeting - May 7, 2019 6:00 PM

Recommendation: Approve as submitted.

A.6. APPROVE AN INCREASE TO BMW MOTORCYCLES OF RIVERSIDE ANNUAL PURCHASE ORDER FOR FY 2018-19 AND AUTHORIZE A PURCHASE ORDER FOR FY 2019-20 AND FY 2020-21 (Report of: Police Department)

Recommendations:

1. Authorize a change order to increase Blanket Purchase Order #2019-550 to BMW Motorcycles of Riverside from \$50,000 to \$70,000 for FY 2018/19 year-end expenses.
2. Authorize a purchase order to BMW Motorcycles of Riverside for \$70,000 per year, for FY 2019/20 and FY 2020/21. This purchase order will cover the cost associated with maintenance and repairs of the Traffic Divisions motorcycle fleet.

A.7. MAYORAL APPOINTMENTS TO THE PARKS, COMMUNITY SERVICES AND TRAILS COMMITTEE AND SENIOR CITIZENS' ADVISORY BOARD (Report of: City Clerk)

Recommendation:

1. Receive and confirm the slate of Mayoral appointments as follows:

PARKS, COMMUNITY SERVICES AND TRAILS COMMITTEE

<u>Name</u>	<u>Position</u>	<u>Term</u>
Christopher Melendrez	Member	Ending 06/30/21

SENIOR CITIZENS' ADVISORY BOARD

<u>Name</u>	<u>Position</u>	<u>Term</u>
Felipe Delao	Member	Ending 06/30/22

- A.8. SECOND READING AND ADOPTION OF ORDINANCE NO. 954 APPROVING A CHANGE OF ZONE FROM RA-2 to R5 FOR PROPERTY LOCATED ON THE SOUTH SIDE OF COTTONWOOD AVENUE APPROXIMATELY 700 FEET EAST OF LASSELLE STREET (Report of: Community Development)

Council Member Marquez questioned the thoroughness of the developer regarding the public notice process. He proposed increasing the notification radius to a thousand feet.

City Manager DeSantis responded that a Study Session item to discuss changing the notification distance has been scheduled.

Recommendation:

1. That the City Council conduct the second reading by title only and adopt Ordinance No. 954.

- A.9. APPROVE THE THIRD AMENDMENT TO AGREEMENT WITH DATA TICKET, INC. FOR ADMINISTRATIVE CITATION PROCESSING SERVICES (AGMT. NO. 2019-83-03) (Report of: Community Development)

Recommendations:

1. Approve the Third Amendment to Agreement with Data Ticket, Inc. for Administrative Citation processing services.
2. Authorize the City Manager, or his designee, to execute the third amendment with Data Ticket, Inc. subject to the approval of the City Attorney.
3. Authorize an increase of \$211,400 to the not-to-exceed amount of the Agreement with Data Ticket, Inc. for Administrative Citation processing services to \$517,800 (\$225,000 for the original agreement plus \$81,400 for the second amendment plus \$211,400 [\$105,700 for FY19/20 and \$105,700 for FY20/21] for this third amendment).
4. Authorize the Purchasing Division Manager to approve a Purchase Order to Data Ticket, Inc. for Administrative Citation processing services for \$55,000 for FY2019/20, and approve a Purchase Order to Data Ticket, Inc. for Administrative Citation processing services for \$55,000 for FY2020/2021.

- A.10. APPROVE THE THIRD AMENDMENT TO AGREEMENT WITH DATA TICKET, INC. FOR PARKING CONTROL PROGRAM SERVICES (AGMT. NO. 2018-102-03) (Report of: Community Development)

Recommendations:

1. Approve the Third Amendment to Agreement with Data Ticket, Inc. for Parking Control program services.
2. Authorize the City Manager, or his designee, to execute the third amendment with Data Ticket, Inc. subject to the approval of the City Attorney.
3. Authorize an increase of \$330,000 to the not-to-exceed amount of the Agreement with Data Ticket, Inc. for Parking Control program services to \$825,000 (\$495,000 for the original agreement plus \$330,000 [\$165,000 for FY19/20 and \$165,000 for FY20/21] for this third amendment)
4. Authorize the Purchasing Division Manager to approve a Purchase Order to Data Ticket, Inc. for Parking Control program services for \$165,000 for FY2019/20, and approve a Purchase Order to Data Ticket, Inc. for Parking Control program services for \$165,000 for FY2020/2021.

- A.11. TR 24203 – APPROVE TRACT MAP 24203 LOCATED AT THE EAST SIDE OF PIGEON PASS ROAD AT LAWLESS ROAD. DEVELOPER: KB HOME COASTAL, INC. (Report of: Public Works)

Recommendations:

1. Approve Tract Map 24203.
2. Authorize the City Clerk to sign the map and transmit said map to the County Recorder's Office for recordation.

- A.12. AUTHORIZATION TO AWARD AGREEMENTS FOR PROFESSIONAL CONSULTANT SERVICES TO MULTIPLE CONSULTANTS FOR ON-CALL ENGINEERING PLAN CHECK SERVICES (AGMT. NOS. 2019-273 - 2019-278) (Report of: Public Works)

Recommendations:

1. Approve separate Agreements for Professional Consultant Services with Charles Abbott Associates, Inc., Gong Enterprises, Inc., HR Green Pacific, Inc., Hunsaker & Associates Irvine, Inc., Interwest Consulting Group, Inc., and TKE Engineering, Inc. to provide on-call engineering plan check services to the Land Development Division,

with each Agreement having a total not-to-exceed amount of \$500,000.00 for the life of the Agreement.

2. Authorize the City Manager to execute each Agreement.
3. Authorize the Chief Financial Officer to approve any related purchase orders, including those over \$100,000.00 for each consultant and subsequent related purchase orders, including those over \$100,000.00, for annual extensions up to a maximum of four annual extensions with each consultant, in accordance with the approved terms of the Agreements.
4. Authorize the Chief Financial Officer to make any necessary budget adjustment appropriations related to expenditures and the equal and offsetting revenues.
5. Authorize the Public Works Director/City Engineer to execute subsequent extensions and/or amendments to the Agreements, including the authority to authorize subsequent associated purchase orders in accordance with the terms of the Agreements, subject to the approval of the City Attorney, with a total contract length not-to-exceed five years.

A.13. APPROVAL OF CONTRACT AMENDMENT WITH LIBRARY SYSTEMS AND SERVICES FOR LIBRARY SERVICES (AGMT. NO. 2017-52-02) (Report of: City Manager)

Recommendation:

1. Approve and authorize the City Manager to execute an amendment to the agreement with Library Systems and Services (LS&S) for additional hours of Library Services for an amount not to exceed \$176,000 (\$44,000 per year for four years).

A.14. APPROVE THE FOURTH AMENDMENT TO THE AGREEMENT FOR DETENTION BASIN MAINTENANCE SERVICES FOR CENTERPOINTE BUSINESS PARK WITH HABITAT RESTORATION SCIENCES, INC. (AGMT. NO. 2018-66-04) (Report of: Public Works)

Recommendations:

1. Approve the Fourth Amendment to the Agreement with Habitat Restoration Sciences, Inc. to continue to provide detention basin maintenance services;
2. Authorize the City Manager to execute Extension Agreement No. 4 with Habitat Restoration Sciences, Inc., subject to the approval of the City Attorney; and

3. Authorize the issuance of a purchase order to Habitat Restoration Sciences, Inc. in the amount of \$22,488.00 for Fiscal Year (FY) 2019/2020, in accordance with the approved terms of the Agreement.

A.15. APPROVE THE COOPERATIVE AGREEMENT WITH THE RIVERSIDE COUNTY FIRE DEPARTMENT FOR FIRE PROTECTION, FIRE PREVENTION, EMERGENCY MANAGEMENT, RESCUE, AND MEDICAL EMERGENCY SERVICES (AGMT. NO. 2019-279) (Report of: Fire Department)

Recommendations:

1. Approve the Cooperative Agreement with the Riverside County Fire Department for Fire Protection, Fire Prevention, Emergency Management, Rescue and Medical Emergency Services.
2. Authorize the Mayor or designee to execute the Cooperative Agreement.

A.16. AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO FERREIRA COASTAL CONSTRUCTION CO. FOR ITS DEPLOYMENT PHASE 1B (PROJECT 808 0015) AND DYNAMIC TRAVELER ALERT MESSAGE BOARDS (PROJECT 808 0016) PROJECTS (AGMT. NO. 2019-280) (Report of: Public Works)

Recommendations:

1. Reject the bid from Elecnor Belco Electric, Inc., for being non-responsive, waive any and all minor irregularities, and declare the bid by Ferreira Coastal Construction Co., 10370 Commerce Center Drive, Suite B-200, Rancho Cucamonga, CA 91730, to be the lowest responsible and responsive bid for the construction of the ITS Deployment Phase 1B and Dynamic Traveler Alert Message Boards projects, and reject all other bids;
2. Award a construction contract to Ferreira Coastal Construction Co. for the aforementioned projects in the amount of \$1,983,558.00 and authorize the City Manager to execute the contract;
3. Authorize the issuance of a Purchase Order to Ferreira Coastal Construction Co. in the amount of \$2,181,913.80 (\$1,983,558 bid amount plus a 10% contingency) when the contract has been signed by all parties; and
4. Authorize the Public Works Director/City Engineer to execute any subsequent related change orders to the contract, not to exceed the contingency amount.

A.17. APPROVAL OF THE MAXIMUM AND APPLIED SPECIAL TAXES FOR CERTAIN COMMUNITY FACILITIES DISTRICTS FOR FISCAL YEAR 2019/20 (RESO NOS. 2019-29 - 34) (Report of: Public Works)

Recommendations:

1. As the legislative body of the City of Moreno Valley Community Facilities District No. 2014-01 (Maintenance Services), adopt Resolution No. 2019-29, a Resolution of the City Council of the City of Moreno Valley, California, Approving the City of Moreno Valley Community Facilities District No. 2014-01 (Maintenance Services) Maximum and Applied Special Tax Rates for Fiscal Year 2019/20, and Calculation Thereof.
2. As the legislative body of Moreno Valley Community Facilities District No. 4-Maintenance, adopt Resolution No. 2019-30, a Resolution of the City Council of the City of Moreno Valley, California, Approving the Community Facilities District No. 4-Maintenance of the City of Moreno Valley Maximum and Applied Special Tax Rates For Fiscal Year 2019/20, and Calculation Thereof.
3. As the legislative body of Community Facilities District No. 5, adopt Resolution No. 2019-31, a Resolution of the City Council of the City of Moreno Valley, California, Approving the Community Facilities District No. 5 of the City of Moreno Valley Maximum and Applied Special Tax Rates for Fiscal Year 2019/20, and Calculation Thereof.
4. As the legislative body of Improvement Area No. 1 of Community Facilities District No. 7 of the City of Moreno Valley, adopt Resolution No. 2019-32, a Resolution of the City Council of the City of Moreno Valley, California, Approving the Improvement Area No. 1 of Community Facilities District No. 7 of the City of Moreno Valley Maximum and Applied Special Tax Rates For Fiscal Year 2019/20, and Calculation Thereof.
5. As the legislative body of Community Facilities District No. 87-1 (Towngate), adopt Resolution No. 2019-33, a Resolution of the City Council of the City of Moreno Valley, California, Approving the Community Facilities District No. 87-1 Maximum and Applied Special Tax Rates for Fiscal Year 2019/20, and Calculation Thereof.
6. As the legislative body of Improvement Area No. 1 of Community Facilities District No. 87-1, adopt Resolution No. 2019-34, a Resolution of the City Council of the City of Moreno Valley, California, Approving the Improvement Area No. 1 of Community Facilities District No. 87-1 of the City of Moreno Valley Maximum and Applied Special Tax Rates for Fiscal Year 2019/20, and Calculation Thereof.

7. Authorize the Chief Financial Officer to adjust the proposed special tax rates in the event there are any parcel changes, clerical errors, or other adjustments as may be necessary between the date the special taxes were calculated and the date the fixed charges are submitted to the County of Riverside, provided the applied special tax does not exceed the maximum special tax and is in compliance with the Rate and Method of Apportionment of Special Tax for the district.

A.18. LIST OF PERSONNEL CHANGES (Report of: Human Resources)

Recommendation:

1. Ratify the list of personnel changes as described.

A.19. PAYMENT REGISTER - MARCH 2019 (Report of: Financial & Management Services)

Recommendation:

1. Receive and file the Payment Register.

B. CONSENT CALENDAR-COMMUNITY SERVICES DISTRICT

- B.1. ORDINANCES - READING BY TITLE ONLY - THE MOTION TO ADOPT AN ORDINANCE LISTED ON THE CONSENT CALENDAR INCLUDES WAIVER OF FULL READING OF THE ORDINANCE.

Recommendation: Waive reading of all Ordinances.

- B.2. MINUTES - STUDY SESSION OF APRIL 9, 2019 6:00 PM (See A.2)

Recommendation: Approve as submitted.

- B.3. MINUTES - REGULAR MEETING OF APRIL 16, 2019 6:00 PM (See A.3)

Recommendation: Approve as submitted.

- B.4. MINUTES - CLOSED SESSION OF MAY 7, 2019 4:30 PM (See A.4)

Recommendation: Approve as submitted.

- B.5. MINUTES - REGULAR MEETING OF MAY 7, 2019 5:30 PM (See A.5)

Recommendation: Approve as submitted.

C. CONSENT CALENDAR - HOUSING AUTHORITY

- C.1. ORDINANCES - READING BY TITLE ONLY - THE MOTION TO ADOPT AN ORDINANCE LISTED ON THE CONSENT CALENDAR INCLUDES WAIVER OF FULL READING OF THE ORDINANCE.

Recommendation: Waive reading of all Ordinances.

- C.2. MINUTES - STUDY SESSION OF APRIL 9, 2019 6:00 PM (See A.2)

Recommendation: Approve as submitted.

- C.3. MINUTES - REGULAR MEETING OF APRIL 16, 2019 6:00 PM (See A.3)

Recommendation: Approve as submitted.

- C.4. MINUTES - CLOSED SESSION OF MAY 7, 2019 4:30 PM (See A.4)

Recommendation: Approve as submitted.

- C.5. MINUTES - REGULAR MEETING OF MAY 7, 2019 5:30 PM (See A.5)

Recommendation: Approve as submitted.

D. CONSENT CALENDAR - BOARD OF LIBRARY TRUSTEES

- D.1. ORDINANCES - READING BY TITLE ONLY - THE MOTION TO ADOPT AN ORDINANCE LISTED ON THE CONSENT CALENDAR INCLUDES WAIVER OF FULL READING OF THE ORDINANCE.

Recommendation: Waive reading of all Ordinances.

- D.2. MINUTES - STUDY SESSION OF APRIL 9, 2019 6:00 PM (See A.2)

Recommendation: Approve as submitted.

- D.3. MINUTES - REGULAR MEETING OF APRIL 16, 2019 6:00 PM (See A.3)

Recommendation: Approve as submitted.

- D.4. MINUTES - CLOSED SESSION OF MAY 7, 2019 4:30 PM (See A.4)

Recommendation: Approve as submitted.

- D.5. MINUTES - REGULAR MEETING OF MAY 7, 2019 5:30 PM (See A.5)

Recommendation: Approve as submitted.

E. CONSENT CALENDAR - PUBLIC FINANCING AUTHORITY

- E.1. ORDINANCES - READING BY TITLE ONLY - THE MOTION TO ADOPT AN ORDINANCE LISTED ON THE CONSENT CALENDAR INCLUDES WAIVER OF FULL READING OF THE ORDINANCE.

Recommendation: Waive reading of all Ordinances.

- E.2. MINUTES - STUDY SESSION OF APRIL 9, 2019 6:00 PM (See A.2)

Recommendation: Approve as submitted.

- E.3. MINUTES - REGULAR MEETING OF APRIL 16, 2019 6:00 PM (See A.3)

Recommendation: Approve as submitted.

- E.4. MINUTES - CLOSED SESSION OF MAY 7, 2019 4:30 PM (See A.4)

Recommendation: Approve as submitted.

- E.5. MINUTES - REGULAR MEETING OF MAY 7, 2019 5:30 PM (See A.5)

Recommendation: Approve as submitted.

F. PUBLIC HEARINGS

- F.1. PUBLIC HEARING TO CONTINUE MORENO VALLEY COMMUNITY SERVICES DISTRICT ANNUAL PARCEL TAXES AND CHARGES FOR FISCAL YEAR 2019/20 (ZONES A, C, M, AND E) (RESO. NOS. CSD 2019-11 - 14) (Report of: Public Works)

Special Districts Division Manager Cassel provided the report.

Mayor Gutierrez opened the Public Hearing at 6:53 p.m.

There being no comments in support or opposition, Mayor Gutierrez closed the Public Hearing at 6:53 p.m.

Recommendations: That the CSD:

1. Conduct a Public Hearing to consider continuing the current Zones A, C, M, and E Moreno Valley Community Services District annual parcel taxes and charges as proposed for Fiscal Year 2019/20.
2. Adopt Resolution No. CSD 2019-11, a Resolution of the Board for the Moreno Valley Community Services District of the City of Moreno Valley, California, Approving the Maximum and Applied Parcel Tax for Providing Zone A (Parks and Community Services) Services During Fiscal Year 2019/20, and Calculation Thereof.

3. Adopt Resolution No. CSD 2019-12, a Resolution of the Board for the Moreno Valley Community Services District of the City of Moreno Valley, California, Approving the Maximum and Applied Parcel Tax for Providing Zone C (Arterial Street and Intersection Lighting) Services During Fiscal Year 2019/20, and Calculation Thereof.
4. Adopt Resolution No. CSD 2019-13, a Resolution of the Board for the Moreno Valley Community Services District of the City of Moreno Valley, California, Approving the Maximum and Applied Parcel Charges for Providing Zone M (Commercial/Industrial/Multifamily Improved Median Maintenance) Services During Fiscal Year 2019/20, and Calculation Thereof.
5. Adopt Resolution No. CSD 2019-14, a Resolution of the Board for the Moreno Valley Community Services District of the City of Moreno Valley, California, Approving the Maximum and Applied Parcel Charges for Providing Zone E (Extensive Landscape Maintenance) Services During Fiscal Year 2019/20, and Calculation Thereof.
6. Authorize the Chief Financial Officer to adjust the proposed charges in the event there are any parcel changes, clerical errors, or other adjustments as may be necessary between the date the parcel charges were calculated and the date the fixed charges are submitted to the County of Riverside, provided the applied charges do not exceed the maximum charges and are in compliance with the formation documents for each zone.

RESULT:	APPROVED [UNANIMOUS]
MOVER:	David Marquez, Council Member
SECONDER:	Ulises Cabrera, Council Member
AYES:	Dr. Yxstian A. Gutierrez, Victoria Baca, David Marquez, Ulises Cabrera, Dr. Carla J. Thornton

F.2. PUBLIC HEARING TO CONTINUE MORENO VALLEY COMMUNITY SERVICES DISTRICT ANNUAL PARCEL CHARGES FOR FISCAL YEAR 2019/20 (ZONE D) (RESO. NO. CSD 2019-15) (Report of: Public Works)

Mayor Gutierrez and Council Member Marquez left the Council Chamber at 6:54 p.m. due to conflicts of interest.

Special Districts Division Manager Cassel provided the report.

Mayor Pro Tem Baca opened the Public Hearing at 6:55 p.m.

There being no comments in support or opposition, Mayor Pro Tem Baca closed the Public Hearing at 6:55 p.m.

Recommendations: That the CSD:

1. Conduct a Public Hearing to consider continuing the current Zone D Moreno Valley Community Services District annual parcel charges as proposed for Fiscal Year 2019/20.
2. Adopt Resolution No. CSD 2019-15, a Resolution of the Board for the Moreno Valley Community Services District of the City of Moreno Valley, California, Approving the Maximum and Applied Parcel Charges for Providing Zone D (Parkway Landscape Maintenance) Services During Fiscal Year 2019/20, and Calculation Thereof.
3. Authorize the Chief Financial Officer to adjust the proposed charges in the event there are any parcel changes, clerical errors, or other adjustments as may be necessary between the date the parcel charges were calculated and the date the fixed charges are submitted to the County of Riverside, provided the applied charges do not exceed the maximum charges and are in compliance with the formation documents for Zone D.

Mayor Gutierrez and Council Member Marquez returned to the Council Chamber at 6:56 p.m.

RESULT:	APPROVED [3 TO 0]
MOVER:	Dr. Carla J. Thornton, Council Member
SECONDER:	Ulises Cabrera, Council Member
AYES:	Victoria Baca, Ulises Cabrera, Dr. Carla J. Thornton
RECUSED:	Dr. Yxstian A. Gutierrez, David Marquez

- F.3. PUBLIC HEARING TO CONTINUE MORENO VALLEY COMMUNITY SERVICES DISTRICT ANNUAL PARCEL CHARGES FOR FISCAL YEAR 2019/20 (ZONE S) (RESO. NO. CSD 2019-16) (Report of: Public Works)

Mayor Pro Tem Baca left the Council Chamber at 6:56 p.m. due to a conflict of interest.

Special Districts Division Manager Cassel provided the report.

Mayor Gutierrez opened the Public Hearing at 6:57 p.m.

There being no comments in support or opposition, Mayor Gutierrez closed the Public Hearing at 6:57 p.m.

Recommendations: That the CSD:

1. Conduct a Public Hearing to consider continuing the current Zone S Moreno Valley Community Services District annual parcel charges as

proposed for Fiscal Year 2019/20.

2. Adopt Resolution No. CSD 2019-16, a Resolution of the Board for the Moreno Valley Community Services District of the City of Moreno Valley, California, Approving the Maximum and Applied Rate for Providing Zone S (Sunnymead Boulevard Maintenance) Services During Fiscal Year 2019/20, and Calculation Thereof.
3. Authorize the Chief Financial Officer to adjust the proposed charges in the event there are any parcel changes, clerical errors, or other adjustments as may be necessary between the date the parcel charges were calculated and the date the fixed charges are submitted to the County of Riverside, provided the applied rate does not exceed the maximum rate, and is in compliance with the formation documents for Zone S.

Mayor Pro Tem Baca returned to the Council Chamber at 6:59 p.m.

RESULT:	APPROVED [4 TO 0]
MOVER:	David Marquez, Council Member
SECONDER:	Dr. Carla J. Thornton, Council Member
AYES:	Dr. Yxstian A. Gutierrez, David Marquez, Ulises Cabrera, Dr. Carla J. Thornton
RECUSED:	Victoria Baca

F.4. PUBLIC HEARING FOR DELINQUENT NUISANCE ABATEMENTS CODE AND NEIGHBORHOOD SERVICES (RESO. NO. 2019-35) (Report of: Community Development)

Code & Neighborhood Services Division Manager Alvarado provided the report.

Mayor Gutierrez opened the Public Hearing at 7:00 p.m.

There being no comments in support or opposition, Mayor Gutierrez closed the Public Hearing at 7:00 p.m.

Recommendations:

1. Conduct a public hearing and accept public testimony on delinquent nuisance abatement accounts.
2. Adopt Resolution No. 2019-35. A Resolution of the City Council of the City of Moreno Valley, California, confirming Statements of Costs against real properties located in the City of Moreno Valley for the abatements of public nuisances, and directing that said Statements of Costs constitute a lien upon said properties.

3. Approve placing the submitted Property Assessment List of delinquent nuisance abatement accounts on the Fiscal Year (FY) 2018/2019 Riverside County property tax roll for collection. A publication of the aforementioned has been posted for public review.
4. Direct the City Clerk to file with the Riverside County Assessor's office a certified copy of Resolution No. 2019-35 and the Property Assessment List as required by Section 6.04.120 of the City of Moreno Valley Municipal Code.

RESULT:	APPROVED [UNANIMOUS]
MOVER:	Dr. Carla J. Thornton, Council Member
SECONDER:	Victoria Baca, Mayor Pro Tem
AYES:	Dr. Yxstian A. Gutierrez, Victoria Baca, David Marquez, Ulises Cabrera, Dr. Carla J. Thornton

F.5. Item No. F.5 was heard Prior to the Consent Calendar

F.6. PUBLIC HEARING TO CONFIRM A DIAGRAM AND ASSESSMENTS FOR LIGHTING MAINTENANCE DISTRICT NO. 2014-01 FOR FISCAL YEAR 2019/20 (RESO NO. CSD 2019-17) (Report of: Public Works)

Public Works Director/City Engineer Wolfe provided the report.

Mayor Gutierrez opened the Public Hearing at 7:02 p.m.

There being no comments in support or opposition, Mayor Gutierrez closed the Public Hearing at 7:02 p.m.

Recommendations: That the CSD:

1. Conduct the Public Hearing on the proposed levy of real property assessments for Moreno Valley Community Services District Lighting Maintenance District No. 2014-01.
2. Adopt Resolution No. CSD 2019-17, a Resolution of the Board for the Moreno Valley Community Services District of the City of Moreno Valley, California, Confirming a Diagram and Assessments for Fiscal Year 2019/20 in Connection with Moreno Valley Community Services District Lighting Maintenance District No. 2014-01.
3. Authorize the Chief Financial Officer to adjust the proposed assessments in the event there are any parcel changes, clerical errors, or other adjustments as may be necessary between the date the assessments were calculated and the date the fixed charges are submitted to the County of Riverside, provided the applied assessments do not exceed the maximum assessments and are in compliance with the formation documents for the district.

RESULT:	APPROVED [UNANIMOUS]
MOVER:	David Marquez, Council Member
SECONDER:	Dr. Carla J. Thornton, Council Member
AYES:	Dr. Yxstian A. Gutierrez, Victoria Baca, David Marquez, Ulises Cabrera, Dr, Carla J. Thornton

F.7. PUBLIC HEARING REGARDING NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) REGULATORY RATE SCHEDULE FOR NEW AND EXISTING RESIDENTIAL, COMMON INTEREST, COMMERCIAL, INDUSTRIAL, AND QUASI-PUBLIC USE DEVELOPMENT PROPOSED FISCAL YEAR (FY) 2019-2020 ANNUAL RATES (RESO. NO. 2019-36) (Report of: Public Works)

Mayor Pro Tem Baca and Council Member Marquez left the Council Chamber at 7:03 p.m. due to conflicts of interest.

Public Works Director/City Engineer Wolfe provided the report.

Mayor Gutierrez opened the Public Hearing at 7:04 p.m.

There being no comments in support or opposition, Mayor Gutierrez closed the Public Hearing at 7:04 p.m.

Recommendations: That the City Council:

1. Conduct a Public Hearing to review and confirm annual regulatory rate schedule for the National Pollutant Discharge Elimination System Program for New Residential, Common Interest, Commercial, Industrial and Quasi-Public Land Uses.
2. Adopt Resolution No. 2019-36. A Resolution of the City Council of the City of Moreno Valley, California, Approving the Maximum and Applied National Pollutant Discharge Elimination System (NPDES) Regulatory Rates for New and Existing Residential, Common Interest, Commercial, Industrial, and Quasi-Public Use Development of the County of Riverside Property Tax Roll, and the calculation thereof.
3. Authorize the Chief Financial Officer to adjust the rates levied on the property tax bills in the event there are any parcel changes between the City Council meeting date and the date the fixed charges are submitted to the County of Riverside or other adjustments, provided the applied rate does not exceed the maximum rate, is in compliance with the ballot for each parcel, and is consistent with the adopted budget.

RESULT: APPROVED [3 TO 0]
MOVER: Dr. Carla J. Thornton, Council Member
SECONDER: Ulises Cabrera, Council Member
AYES: Dr. Yxstian A. Gutierrez, Ulises Cabrera, Dr. Carla J. Thornton
AWAY: Victoria Baca, David Marquez

Mayor Pro Tem Baca and Council Member Marquez returned to the Council Chamber at 7:05 p.m.

G. GENERAL BUSINESS

G.1. APPROVE CIVIC CENTER PARK COMMUNITY DEMONSTRATION GARDEN PROJECT AND FUNDING PLAN (Report of: Parks & Community Services)

Parks & Community Services Deputy Director Green provided the report.

Council Member Cabrera thanked staff and his colleagues for the item.

Recommendations:

1. Approve the Civic Center Park Community Demonstration Garden project and add the project to the City's current Capital Improvement Plan.
2. Approve the proposed funding plan as contained in the Fiscal Impact section of this report.

RESULT: APPROVED [UNANIMOUS]
MOVER: Ulises Cabrera, Council Member
SECONDER: Dr. Carla J. Thornton, Council Member
AYES: Dr. Yxstian A. Gutierrez, Victoria Baca, David Marquez, Ulises Cabrera, Dr. Carla J. Thornton

PUBLIC COMMENTS ON ANY SUBJECT NOT ON THE AGENDA UNDER THE JURISDICTION OF THE CITY COUNCIL

Bob Palomarez

1. Critical of Council Member Marquez.

Roy Bleckert

1. Supports efforts to curtail regulations that derail infrastructure development.

Louise Palomarez

1. Agreed with comments made by Bob Palomarez.
2. Excited about the Skate Park.
3. Praised Mayor Gutierrez and Council Member Cabrera.
4. Amazed by the numerous City projects and programs underway.

5. Thanked Council Member Thornton.

Jeneatte Burton

1. Expressed her concerns with the increasing number of homeless individuals loitering at her place of business.

H. ITEMS REMOVED FROM CONSENT CALENDARS FOR DISCUSSION OR SEPARATE ACTION - NONE

I.REPORTS

I.1.CITY COUNCIL REPORTS

(Informational Oral Presentation - not for Council action)

March Joint Powers Commission (JPC) - Mayor Pro Tem Baca

Mayor Pro Tem Baca reported the following:

Tonight, I'm providing an update from the March Joint Powers Commission meeting held on May 8th.

At that meeting, the Commission Approved

- The annual report for the Foreign Trade Zone,
- A Ground Lease with Heacock Partners for the Heacock Truck Terminal, and
- The end-of-year budget amendments.

Riverside County Habitat Conservation Agency (RCHCA) - Council Member Marquez

Council Member Marquez reported the following:

- In celebration of Earth Day this year, the agency hosted 100 kindergarten students from Sunny Meadows Elementary School in Moreno Valley for a visit to the Lake Mathews Reserve. The event provided the opportunity for students to participate in hands-on-learning through demonstrations about the importance of conserving natural resources. The event was sponsored by RCHCA and WRCOG staff along with the Riverside County Department of Waste Resources, and the Energy Coalition.
- The City collected a total of \$ 61,025 in RCHCA fees from January 1 through April 2019. These funds are provided to the Riverside County Habitat Conservation Agency for conservation purposes.

Riverside County Transportation Commission (RCTC) - None

Riverside Transit Agency (RTA) - Council Member Marquez

Council Member Marquez reported the following:

I want to remind everyone about RTA's Youth Summer Fare promotion from June 1 through September 2. Certain fares are 25 cents for students in grades 1-12. Please visit the RTA website for more information.

Western Riverside Council of Governments (WRCOG) - None

Western Riverside County Regional Conservation Authority (RCA) - None

School District/City Joint Task Force - None

I.2. CITY MANAGER'S REPORT

(Informational Oral Presentation - not for Council action)

City Manager DeSantis reminded the community to attend a Community Workshop on May 22, 2018. Thanked first responders for safeguarding the community following the F16 incident. He also commended Fire Chief Ahmad for his service as the incident commander.

I.3. CITY ATTORNEY'S REPORT

(Informational Oral Presentation - not for Council action)

City Attorney Koczanowicz reported the five dispensaries have been closed and seven additional closures are under way.

CLOSING COMMENTS AND/OR REPORTS OF THE CITY COUNCIL, COMMUNITY SERVICES DISTRICT, CITY AS SUCCESSOR AGENCY FOR THE COMMUNITY REDEVELOPMENT AGENCY, HOUSING AUTHORITY AND THE BOARD OF LIBRARY TRUSTEES.

Council Member Thornton

1. Encouraged everyone to utilize the pothole application.
2. Thanked Fire Chief Ahmad for the Ride Along.
3. Reminded residents of the upcoming Memorial Day Ceremony.

Council Member Marquez

1. Refuted comments made by a previous speaker and encouraged residents to review his 460 forms.
2. Commended staff, Acting Police Chief Lelevier, and Fire Chief Ahmad.
3. Informed the public that he is in fact a veteran, have served 2 years in Vietnam.

Council Member Cabrera

1. Reminded everyone of the upcoming hike to Terri Peak.
2. Attended the Youth Conference.
3. Praised Business and Workforce Development Program Manager Melendez.
4. Remarked on the City Council's problem solving approach, which relies on proven methods and innovative solutions.

Mayor Pro Tem Baca

1. Encouraged the public to attend the skate park grand opening on Wednesday, May 29th.
2. Attended the Youth Conference.

Mayor Gutierrez

1. Attended the Youth Conference and thanked City Clerk Jacquez-Nares and her staff for a successful event.
2. Applauded the Officer of the Quarter and Employee of the Quarter.
3. Attended the Employment Resource Center and mentioned various amenities that are offered.
4. Mentioned the Skate Park opening on Wednesday, May 29th.
5. Invited residents to attend the Memorial Day event on Monday, May 27th.

ADJOURNMENT

There being no further business to come before the City Council, Mayor Gutierrez adjourned the meeting at 7:39 p.m.

Submitted by:

Pat Jacquez-Nares, CMC & CERA
 City Clerk
 Secretary, Moreno Valley Community Services District
 Secretary, City as Successor Agency for the Community
 Redevelopment Agency of the City of Moreno Valley
 Secretary, Moreno Valley Housing Authority
 Secretary, Board of Library Trustees
 Secretary, Public Finance Authority

Approved by:

Dr. Yxstian A. Gutierrez
 Mayor
 City of Moreno Valley
 President, Moreno Valley Community Services District
 Chairperson, City as Successor Agency for the Community
 Redevelopment Agency of the City of Moreno Valley
 Chairperson, Moreno Valley Housing Authority
 Chairperson, Board of Library Trustees
 Chairperson, Public Financing Authority



Report to City Council

TO: Mayor and City Council

FROM: Pat Jacquez-Nares, City Clerk

AGENDA DATE: June 4, 2019

TITLE: REQUEST FOR MAYOR'S ATTENDANCE TO THE NORTH AMERICAN MAYOR'S SUMMIT

RECOMMENDED ACTION

Recommendation: That the City Council:

Approval of Mayor's international attendance to the North American Mayor's Summit, on June 6 – 8, 2019 and the associated costs not to exceed \$4,000.

SUMMARY/DISCUSSION

Mayor Gutierrez received a formal invitation from Hugo Rene Oliva Romero, Consul in Charge of the Mexican Consulate, requesting his attendance to the first meeting of the North American Mayor's Summit. The invitees include United States Mayors, Mexican Mayors, Canadian Mayors, Secretaries of State, Local Officials; Academic Experts, and private sector representatives. The purpose of the meeting is to create an exchange between the Mayors of the three countries, where local leaders can identify joint solutions for various diverse issues. The Government of Mexico in Los Cabos, Baja California Sur will host the summit from June 6 to June 8, 2019.

The hotel for this event will cost approximately \$1,160 to \$1,770 dependent on the availability and peso exchange rate. The airfare will cost approximately \$1,500, dependent on the availability and price at time of the flight purchase.

Pursuant to the City Council Travel Policy, prior City Council approval is required for International travel and for any additional expenses that exceed the annual limits established for each office holder. Therefore, Mayor Gutierrez is requesting approval of this international trip along with the additional funds needed to pay for this trip. The amount should not exceed \$4,000.

FISCAL IMPACT

Additional \$4,000 will need to be allocated to the Mayor's Travel Account. These funds will be appropriated from the General Fund.

Description	Fund	GL Account No.	Type (Rev/Exp)	FY 18/19 Budget	Proposed Adjustments	FY 18/19 Amended Budget
Travel	Gen. Fund	1010-10-01-10015-620510	Exp	\$4,000	\$4,000	\$8,000

NOTIFICATION

Publication of Agenda.

PREPARATION OF STAFF REPORT

Prepared By:
Name: Pat Jacquez-Nares
Title: City Clerk

CITY COUNCIL GOALS

Advocacy. Develop cooperative intergovernmental relationships and be a forceful advocate of City policies, objectives, and goals to appropriate external governments, agencies and corporations.

Revenue Diversification and Preservation. Develop a variety of City revenue sources and policies to create a stable revenue base and fiscal policies to support essential City services, regardless of economic climate.

Positive Environment. Create a positive environment for the development of Moreno Valley's future.

CITY COUNCIL STRATEGIC PRIORITIES

1. Economic Development
2. Public Safety
3. Library
4. Infrastructure
5. Beautification, Community Engagement, and Quality of Life
6. Youth Programs

ATTACHMENTS

1. Mayor's Summit Invitation

- 2. Mayor's Summit Context & Objectives
- 3. Mayor's Summit Draft Agenda

APPROVALS

Budget Officer Approval	<u>✓ Approved</u>	5/28/19 11:35 AM
City Attorney Approval	<u>✓ Approved</u>	5/28/19 4:14 PM
City Manager Approval	<u>✓ Approved</u>	5/30/19 1:52 PM

SRESECRETARÍA DE RELACIONES
EXTERIORES

Mexico City, May 15, 2019

The Honorable Yxstian Gutierrez
Mayor
City of Moreno Valley

Dear Mayor Gutierrez:

It is my pleasure to extend a cordial invitation to the first Meeting of North American Mayors, which will be hosted by the Government of Mexico in Los Cabos, Baja California Sur, from June 6th to 8th, 2019.

The purpose of this Meeting will be to further intensify the vibrant exchange between mayors of our three countries, increasing city-to-city cooperation throughout the North American region.

Mexico recognizes the City as the basic building block of governance, from which innovative solutions to global problems can be built. Our country hopes to create a space where local leaders can identify joint solutions, best practices, and trilateral cooperation formulas that make sense from a local perspective, on issues as diverse as the environment, innovation, academic mobility, economic integration and complementarity, tourism, and quality of life.

We are working with the United States Conference of Mayors to ensure mayoral input and that the Summit is a mayor-led event.

We would be honored to have you join us in this important occasion, which will have a participation by President of Mexico, Andrés Manuel López Obrador.

I look forward to your confirmation, and take this opportunity to send my best regards.

Yours Respectfully



Hugo René Oliva Romero
Consul in charge

Attachment: Mayor's Summit Invitation (3629 : North American Mayor's Summit)

NORTH AMERICAN MAYORS SUMMIT
Los Cabos, Baja California Sur, Mexico
June 6 – 8, 2019

Context

- At the initiative of Foreign Minister Marcelo Ebrard, an unprecedented **First North American Mayor Summit** will be held, with the aim of promoting city-to-city dialogue while sending a positive message of local collaboration in North America.

Objectives and main messages

- **To consolidate the First Cooperation Network of North American Cities, strengthening and strengthening the cooperation and twinning relationships between the cities of the region.**
- **To contribute, from a city's perspective, to positioning North America as the most competitive and dynamic region in the world.**
- **To together find solutions, best practices, and regional cooperation formulas, with a community scope on issues such as: border cooperation, mobility, tourism, urban sustainability, digital governance, citizen security and trade.**
- **To identify USMCA benefits at the local level.**
- **Integration, economic complementarity, mutual respect, shared responsibility, and the development of their respective communities are fundamental values on which cooperation between the cities of Mexico, the United States and Canada are based.**
- **To consolidate the First Cooperation Network of North American Cities, strengthening cooperation and sisterhood relations among the cities of the region.**

Numbers to consider

- At present, and for the first time, **Mexico is the most important trade partner to the United States.** There is no other market to which the United States exports more than Mexico, and conversely, the American marketplace is the main destination of Mexican goods and services. **Mexico and the United States trade over a million dollars every minute, and over 600 billion each year.** This means Mexico's exports to the United States are 3.1 times larger than those of Brazil, Russia, India, and South Africa put together.
- The 3,000+ kilometer long border is crossed each day by **over 1 million people**, and 437 thousand vehicles through 58 border crossings.
- Our 2-thousand-mile-long border zone is home to a **binational community of more than 14 million people in 10 states.**
- **The North American region has consolidated a paradigm of joint production that is expressed in the integration of global value chains.** Thanks to free trade, **interregional trade increased 258%**, between 1994 and 2018. For example: Mexico, Canada and the US are leaders in automotive supply chains: The three countries together provide approximately 22% of global automotive exports .
- **To 31 US states, Mexico is their first, second or third trade partner.** Mexico is the main destination for exports from California, Arizona y Texas.
- **From a local scope, Mexico and the United States are already presenting themselves as a single region against international markets.** For instance, the Sonora-Arizona Megaregion offers companies the leverage of its shared resources, with a 5.5 million workforce in 1,860 companies building 1,488 vehicles every.
- **Out of around 1,000 sisterhood agreements** signed by Mexico's local governments in the last two decades **US cities account for 40%, with cooperation on education, culture and the environment.**

Attachment: Mayor's Summit Context & Objectives (3629 : North American Mayor's Summit)

- In Mexico, cities have more than 150 cooperation projects involving 736 local, national and international institutions, highlighting that 78% are technical cooperation projects, **with a 35% focus on cooperation with the United States** on urban development, energy, public safety, and the environment.
- **Cooperation between Mexico and Canada has an important local component.** For example, both countries maintain since 1974 a very successful labor mobility formula through the Seasonal Agricultural Worker Program. The number of Mexican laborers traveling to Canada each year has increased steadily to more than 25 thousand in 2017 and 2018, involving the bulk of the Canadian provinces.

Expected attendance 200-250 people

- Mexican Mayors
- US Mayors
- Canada Mayors
- Secretaries of State
- Local Officials
- Academic Experts
- Private Sector Representatives

Mexico's President, Andrés Manuel López Obrador, will participate in the Summit, on June 7, from 13:00 to 15:00 hours

Venue Grand Velas Los Cabos Hotel

- **June 6** Welcoming Cocktail 19:30 hrs.
- **June 7** Working sessions 9:30 a 17:30 hrs.
- **June 8** Working sessions 9:00 a 13:00 hrs.

NORTH AMERICAN MAYORS SUMMIT

June 6 – 8, 2019; Los Cabos, Baja California Sur, Mexico

DRAFT AGENDA

DAY ONE, JUNE 6

Registration

19:00 Welcoming Cocktail

DAY TWO, JUNE 7

9:00 AM **Opening Ceremony**

*This agenda is subject to change, depending on President of Mexico's arrival schedule.

WORK SESSIONS

***NOTE. Work sessions will have an open dialogue format where Mayors' conversation will be guided by a moderator and participation of specialists in the different subjects to be addressed throughout the Summit.**

Mayors should manifest, in advance, their intention to partake in a particular panel of their choice.

10.00 PANEL I. CROSS-BORDER COOPERATION (MIGRATORY MOBILITY, BORDER XXI CENTURY). CHALLENGES AND PERSPECTIVES.

Objective: Share best practices, lessons learned and challenges in cross-border cooperation.

Possible panelists:

Special Guests

- Olga Sánchez Cordero, Mexico's Secretary of the Interior

11.30 PANEL II. COMMERCE. THE BENEFITS OF USMCA IN THE LOCAL ARENA. (INVESTMENT, VALUE CHAINS)

Objective: Analyze the progress of economic integration in North America from the local perspective and investment opportunities in the region.

Panelists to be defined

Special Guests

- Thomas J. Donohue, President and CEO United States Chamber of Commerce
- Perrin Beatty, PC, OC, President & Chief Executive Officer Canadian Chamber of Commerce
- Carlos Salazar Lomelín, President of Mexico's Consejo Coordinador Empresarial/Business Coordinator Council

12:30 LUNCH

13:00 WORK SESSION

- **President Andrés Manuel López Obrador, President of Mexico, will engage in dialogue with the Mayors in a panel to be defined.**
- **SIGNING OF THE FIRST MANIFEST OF JOINT COLLABORATION BETWEEN MAYORS OF NORTH AMERICA FOR THE SUSTAINABLE DEVELOPMENT OF CITIES.**
- *A North American Cities Network is to be announced, along with an Innovation and Urban Sustainability in North America Award.

14:30 PANEL III. DIGITAL GOVERNMENT

Objective: Share experiences and best practices in the digitization of public services as tools for citizen proximity.

16:30 PANEL IV. MOBILITY AND URBAN SUSTAINABILITY

Objective. Analyzing the value of city-to-city cooperation and the challenges in the implementation of public policies to promote resilience, urban mobility and governance in cities.

Special Guest. Román Meyer Falcón, Mexico's Secretary of Urban, Land, and Agricultural Development

17.30 End of DAY TWO

19:00 DINNER (OPPORTUNITIES IN TOURISM)

Special Guest. Miguel Torruco Márquez, Mexico's Secretary of Tourism

NETWORKING

DAY THREE, JUNE 8

9.30 PANEL V. RETHINKING GLOBAL CITIES, INNOVATIVE AND INCLUSIVE CITIES.

Objective: Sharing best practices that include innovation and inclusion as management tools for XXI Century cities.

11:00 PANEL VI. PUBLIC SAFETY AND CITIZEN SECURITY

Objective: Analyze the challenges and possible joint actions by cities in matters of public safety and citizen security.

12:30 Closing Ceremony

***NOTE:** During the Summit, parallel working meetings between Mayors can be setup.

At the end of the Summit, technical and sightseeing visits to Los Cabos are open to all invited guests.



Report to City Council

TO: Mayor and City Council

FROM: David Lelevier,

AGENDA DATE: June 4, 2019

TITLE: REQUEST TO PURCHASE GUNSHOT DETECTION TECHNOLOGY WITH ASSET FORFEITURE FUNDS

RECOMMENDED ACTION

Recommendations:

1. Authorize the police department to enter into a one-year service agreement with V5 Systems to test the usefulness of gunshot detection technology within the city of Moreno Valley at a location to be determined.
2. Authorize a budget adjustment of \$17,000 to the General Fund (1010) Asset Forfeiture revenue account and Police Department expenditure account.

SUMMARY

This report recommends the City Council authorize the Moreno Valley Police Department to enter into a one-year agreement with V5 Systems to test Acoustic Gunshot Detection Technology, for a cost not to exceed \$17,000. This cost includes the following:

- Proprietary V5 Systems Software used to detect and identify gunshots
- Access to smartphone companion application, which will receive gunshot alerts
- (5) Acoustic Sensor Arrays positioned based on site-survey
- All related installation and logistical support costs

Gunshot detection technology offered by V5 Systems and other commercial entities has the potential to provide near real-time notification to law enforcement indicating gunfire. This technology has the potential to be a force multiplier for MVPD, enabling faster, more accurate response and a higher level of service to our community.

DISCUSSION

Gunshot Detection Technology

Gunshot detection technology as offered by V5 Systems utilizes sophisticated microphone arrays positioned strategically in a given geographic area, considering topography, buildings and other potential obstacles.

The arrays are positioned in such a way to maximize “listening” in a given area, while also providing the ability to triangulate on specified sound frequencies (i.e.: the unique signature of a gunshot). Triangulation allows for a specific location to be determined, potentially narrowing the location to within several feet.

The Moreno Valley Police Department does not currently deploy any equipment or resources utilizing gunshot detection technology. This proposal is in response to the Mayor’s suggestion that we explore this technology for use in our community, which was also supported by the Public Safety Sub-Committee on May 21, 2019.

An appropriate test location will be determined to maximize the potential benefits of gunshot detection technology using an evidence-based approach.

The benefits of gunshot detection technology are significantly aided by the ability to capture video evidence of criminal conduct, supplementing the information provided by V5 Systems. This capability will be evaluated as well.

Gun violence, reported gunshots and fireworks related calls for service were all analyzed for a one-year period (from July 2017 through August 2018), within the city of Moreno Valley. Specific efforts were made to eliminate confirmed instances of firework related calls for service. The results are listed below by the frequency of such calls (from highest to lowest):

- **Zone 2:** Central Sunnymead portion of the city, bound by I-215, SR-60, Lasselle Street and Alessandro Boulevard.
- **Zone 3:** Portion of city south of Alessandro Boulevard, east of March Air Reserve Base, and west of Lasselle Street.
- **Zone 1:** Entirety of the city limits north of SR-60 Freeway.
- **Zone 4:** Entirety of the city east of Lasselle Street.

Fireworks related calls for service totaled more than 900, though in this case, duplicate reports are very likely given the ongoing problem of our residents launching aerial fireworks; which can be seen and heard from great distances, while also being very difficult for law enforcement to pinpoint the exact location they were fired from.

The Mayor asked City Staff to identify potential law enforcement tools; after a review of the use of this technology in other jurisdictions, MVPD proposes a one-year pilot program using the V5 Systems Acoustic Gunshot Technology.

The measurement of success will be based on a multitude of factors, including the accuracy of the V5 System itself, availability of specialized resources (deputy comprised teams) to respond quickly and benefit of alerts in comparison to traditional 911 calls reporting emergencies.

ALTERNATIVES

Council has the following alternatives:

1. Authorize the police department to enter into a one-year service agreement, in a format approved by the City Attorney, with V5 Systems to test the usefulness of gunshot detection technology not to exceed \$17,000 of Asset Forfeiture Funds, and includes all related equipment, installation, servicing and support costs. *Staff recommends this alternative.*
2. Do not authorize the police department to enter into a one-year service agreement with V5 Systems to test the usefulness of gunshot detection technology not to exceed \$17,000 of Asset Forfeiture Funds, and includes all related equipment, installation, servicing and support costs. *Staff does not recommend this alternative.*

FISCAL IMPACT

The Moreno Valley Police Department is requesting City Council to approve the use of asset forfeiture funding held by the County of Riverside to enter into an agreement with V5 Systems for equipment, installation and support related to gunshot detection technology. Funding for this purchase will, if approved, not have an impact on the City's General Fund in FY 2019/20. The requested FY 2019/20 budget appropriation will be as follows:

Description	Fund	GL Account No.	Type (Rev/Exp)	FY 19/20 Budget	FY 19/20 Proposed Amendment	FY 19/20 Amended Budget
Asset Forfeiture Revenue (from County)	Gen. Fund	1010-60-65-40010-480150	Rev	\$0	\$17,000	\$17,000
V5 Systems 1 yr. Test	Gen. Fund	1010-60-65-40010-625010	Exp	\$5,000	\$17,000	\$22,000

PREPARATION OF STAFF REPORT

Prepared By:
Michael Koehler
Administration Lieutenant

Department Head Approval:
Dave Lelevier
Acting Police Chief

Concurred By:
Felicia London
Public Safety Contracts Administrator

(Optional field) Reports requiring inter-departmental coordination must include names of all affected department heads.

CITY COUNCIL GOALS

Public Safety. Provide a safe and secure environment for people and property in the community, control the number and severity of fire and hazardous material incidents, and provide protection for citizens who live, work and visit the City of Moreno Valley.

CITY COUNCIL STRATEGIC PRIORITIES

1. Economic Development
2. Public Safety
3. Library
4. Infrastructure
5. Beautification, Community Engagement, and Quality of Life
6. Youth Programs

ATTACHMENTS

1. V5 Gunshot Detection Pilot - Quote

APPROVALS

CITY COUNCIL GOALS

Public Safety. Provide a safe and secure environment for people and property in the community, control the number and severity of fire and hazardous material incidents, and provide protection for citizens who live, work and visit the City of Moreno Valley.

CITY COUNCIL STRATEGIC PRIORITIES

1. Economic Development
2. Public Safety
3. Library
4. Infrastructure
5. Beautification, Community Engagement, and Quality of Life
6. Youth Programs

ATTACHMENTS

2. V5 Gunshot Detection Pilot - Quote

APPROVALS

Budget Officer Approval	<u>✓ Approved</u>	5/29/19 11:27 AM
City Attorney Approval	<u>✓ Approved</u>	5/29/19 11:44 AM
City Manager Approval	<u>✓ Approved</u>	5/30/19 11:54 AM



3191 Laurelview Ct.
Fremont, CA 94538
PH: 510.573.3346

Prepared By Daniel Hartman
Email daniel.hartman@v5systems.us

Created Date 5/23/2019
Expiration Date 6/30/2019
Quote Number 00000084

Customer Information

Bill To Name Moreno Valley
Bill To US
Ship To Name Moreno Valley
Ship To 14177 Frederick Street
Moreno Valley, California 92553
US

Product

Product Code	Product Description	Line Item Description	Sales Price	UoM	Quantity	Term Cost	Total
403-SG0003	The OnSound Acoustic Gunshot Detection includes all hardware and software needed to cover a quarter square mile. The OnSound units detect gunfire in real-time and send immediate notifications to first responders with up to 90% accuracy. Minimum 2 year subscription.		\$13,750.00	Each	1.00	\$0.00	\$13,750.00
352-MS0001	Misc.	Install, training, and updates	\$3,250.00	Each	1.00	\$0.00	\$3,250.00

Term & Condition

Term Cost \$0.00
Total Up Front Cost \$17,000.00

- [V5 Systems End User Terms And Conditions](#)
- [V5 Systems Warranty And Support Services](#)
- [V5 Systems Services Agreement](#)
- [V5 Systems Cloud Agreement](#)
- [V5 Short Term Rental Agreement](#)
- [V5 Subscription Agreement](#)
- [V5 Reseller Agreement](#)

Signature

V5 Systems Multi-Sensor Operating Center will notify designated Moreno Valley personnel whenever a verified gunshot alert event occurs. Notifications can be made via text message, email, phone, or any combination of the above. Notifications protocols to be determined by Moreno Valley PD.

V5 Systems is waiving the 2 year minimum requirement for this Gunshot Detection Pilot.

By signing below, you acknowledge that you have read and agree to the terms and conditions set forth below.

Signature _____ Printed Name _____ Date _____

Attachment: V5 Gunshot Detection Pilot - Quote (3628 : REQUEST TO PURCHASE GUNSHOT DETECTION TECHNOLOGY WITH ASSET



3191 Laurelview Ct.
Fremont, CA 94538
PH: 510.573.3346

Company _____

Attachment: V5 Gunshot Detection Pilot - Quote (3628 : REQUEST TO PURCHASE GUNSHOT DETECTION TECHNOLOGY WITH ASSET



Report to City Council

TO: Mayor and City Council

FROM: Marshall Eyerman, Chief Financial Officer

AGENDA DATE: June 4, 2019

TITLE: APPROVE AMENDMENTS TO MULTIPLE CITY POLICIES

RECOMMENDED ACTION

Recommendations:

1. Amend Policy No. 2.06, Park Naming Policy
2. Amend Policy No. 3.05, Donations
3. Amend Policy No. 4.02, City Council Vehicle Policy
4. Amend Policy No. 5.14, Management Contracts

SUMMARY

Certain policy amendments may be presented to the City Council throughout the fiscal year due to timing requirements, substantial changes, minor adjustments, or grammatical corrections. As part of the City's continuing efforts toward transparency and to maintain updated policies, the City Council may be presented with a comprehensive list of multiple policy updates. By requiring the annual management review of policies with City Council approvals as appropriate allows the City to further strengthen its management practices and policies for greater operational efficiencies, transparency, and protection of the City's assets.

DISCUSSION

The following sets forth a summary of the proposed policy updates and key changes. Redlined versions of the policies are also included as exhibits to this staff report.

Policy No. 2.06, Park Naming Policy

This policy was developed to facilitate the park naming process. The policy has been

updated to reflect current department and committee names.

Policy No. 3.05 Donations

This policy establishes procedures for the solicitation and/or acceptance of donations of supplies, materials, vehicles and equipment made to the City or from the City. The policy has been updated to reflect current department names and current practices.

Policy No. 4.02 City Council Vehicle Policy

This policy is established for vehicle use and reimbursement for City elected officials. The revisions to this policy attached in “redline” format to this staff report, update the policy to provide for the current Car Allowance amounts and to remove references to employees, as the policy is for Council Members only.

Policy No. 5.14 Management Contracts

The purpose of this policy is to define the at-will employment relationship of executive and division managers and to establish guidelines for executive and division management contracts. Subsection III C to Policy 5.14, sets out the authority and discretion vested in the City Manager in dealing with Executive and Division Management Contracts. The proposed attached “redline” changes would update the City Manager’s level of authority under that section to reflect current practice.

ALTERNATIVES

1. Approve the Recommended Actions as set forth in this staff report. This alternative is recommended so that the City’s policies are formally updated to reflect current operational practices and to provide guidance.
2. Do not approve the Recommended Actions as set forth in this staff report. This alternative is not recommended since it will limit guidance for the future policies.

FISCAL IMPACT

No current fiscal impact.

NOTIFICATION

Public Notice

PREPARATION OF STAFF REPORT

Prepared By:
Marshall Eyerman
Chief Financial Officer

Department Head Approval:
Marshall Eyerman
Chief Financial Officer

CITY COUNCIL GOALS

None

CITY COUNCIL STRATEGIC PRIORITIES

- 1. Economic Development
- 2. Public Safety
- 3. Library
- 4. Infrastructure
- 5. Beautification, Community Engagement, and Quality of Life
- 6. Youth Programs

ATTACHMENTS

- 1. Park Naming No 206 Revised 2019
- 2. Donations Policy No 305 Revised 2019
- 3. Council Vehicle Policy No 402 Revised 2019
- 4. Management Contracts No 514 revised 2019

APPROVALS

Budget Officer Approval	<u>✓ Approved</u>	5/28/19 11:48 AM
City Attorney Approval	<u>✓ Approved</u>	5/28/19 4:21 PM
City Manager Approval	<u>✓ Approved</u>	5/30/19 1:51 PM

PARK NAMING POLICY

PURPOSE: The rapid development of the City of Moreno Valley's park system will afford an exciting opportunity to appropriately name each new park/facility that is constructed within our City. To facilitate this process, the following guidelines have been adopted.

POLICY:

I. Approval of Name:

- A. Public participation in the name selection process will be encouraged.
- B. Proposed names for ~~parks and recreation~~ Parks and Community Services Department facilities will be solicited by staff and submitted to the ~~Parks and Recreation Commission~~ Parks, Community Services and Trails Committee for review and approval.
- C. After approval of the ~~Parks and Recreation Commission~~ Parks, Community Services and Trails Committee, the proposed name(s) will be forwarded to the City Council for final review and approval.

II. Criteria for Selection of Names:

- A. The park/facility may be named after a dedicated City street, avenue, or boulevard.
- B. The park/facility may be named after a housing tract that the project is located within.
- C. If the park/facility is located adjacent to a school site, the park may bear the same name as the school.
- D. A park/facility may be named after various significant or historical features that are unique to Moreno Valley, i.e. geographical features, historical events, native birds and/or wildlife, etc.
- E. Although there are many fine individuals both living and deceased who have made significant contributions to the development of the City of Moreno Valley, it shall be the policy of the ~~Parks and Recreation Commission~~ Parks, Community Services and Trails Committee to not consider naming parks in honor of individual persons. Consideration may be given to naming buildings and/or other facilities in honor of individual persons.

Approved by: City Council

September 3, 1991

Revised 6/04/2019

DONATIONS

PURPOSE: To establish policy and procedures for the solicitation and/or acceptance of or donations of supplies, materials, vehicles and equipment (collectively referred to as "property") made to the City or ~~for from~~ the City. A uniform set of procedures shall be followed in the acceptance of all-or donation of propertys. Proper approval shall be obtained prior to acceptance. All cash and ~~capital goods~~ property donated to the City shall be accounted for in accordance with the procedures set forth within this policy.

POLICY: (Ref. Government Code, Section 37354, Gifts and Bequests.) The City Council, or its designated representative, may accept or reject any gift made to or by the City for any public purpose. The City may utilize the gift as prescribed by the donor or, providing use of the gift or the income from it is not restricted, the gift may be used for any purpose that furthers City goals and objectives as stated at the time of acceptance.

(Ref. California Code of Regulations, Section 18944.2) A gift will be deemed a gift to a public agency, and not a gift to a public official, if all of the following requirements are met: (a) the agency receives and controls the payment; (b) the payment is used for official agency business; (c) the agency determines the specific official or officials who shall use the payment; and (d) the agency memorializes the payment in a written public record and the filing is done within 30 days of receipt of the payment by the agency.

I. Definitions

- A. Gifts: For purposes of this policy, the terms gift and donation shall be synonymous. Gifts may be a monetary contribution or a personal and real property item which the City has accepted, and for which the donor has not received anything of value in return from the City other than a tax benefit. Included within the scope of this policy are donations whereby a private business sponsors or co-sponsors an event on behalf of or in partnership with the City.

II. Donations to the City

- A. Responsibility: Responsibility for management of donations shall be decentralized. Each Department Head, with consent of the City Manager, shall have authority on behalf of the City to accept and authorize acceptance of donations in which the total value does not exceed \$3,000. All donations with value exceeding \$3,000 must be approved by City Council. The Finance ~~Director~~ Department shall be responsible for managing all donations of cash and for the accounting and inventory of all donated items.
- B. Solicitation of Gifts: The City Manager may authorize City staff to approach companies or organizations to request donation of goods, services, or funds to facilitate the achievement of identified City goals. Such solicitation shall be made only with the approval of the City Manager.
- C. Unsolicited Gifts: Unsolicited donations shall be accepted only if they have a valid use to the City.
1. Donors who wish to make a gift shall be referred to the appropriate department head. Those gifts not specific to a given department shall be referred to the ~~Finance Director~~ Chief Financial Officer.
 2. In the event that the offered item does not have any practical use for the department to which it has been presented, the donor shall be referred to the ~~Chief Financial Officer~~ Finance Director. If the gift may be of potential value, notice will be circulated to each Department Head to determine if it can be utilized elsewhere. The Donor will be notified ~~within two weeks~~ whether the City will accept the offered gift.

Approved By: City Council
May 14, 1991
Revised 10/16/02

DONATIONS

3. If the item obviously has no use to the City or would be more effectively used elsewhere, the donor will be informed immediately and referred to an appropriate agency by the Chief Financial Officer~~Finance Director~~.
 4. Proof of Ownership: If there is a material question as to the legal ownership of the offered item, proof of ownership shall be requested. Such proof of ownership may include but not be limited to copy of purchase order, receipt for purchase, or signed affidavit verifying ownership.
 5. Donors shall be encouraged to place minimal restrictions on the use of a donated item, allowing the City as much flexibility as possible in determining its use and liquidation.
- D. Conditions for accepting/rejecting donations: Staff shall work with the donor to assure that restrictions are reasonable and do not leave the donor with unrealistic expectations regarding use or life of the donation (e.g., if a tree is donated it could die or be moved). The following are criteria which may be applied in determining if a donation is appropriate for acceptance:
1. Would use of the item be consistent with existing City policy?
 2. Would the maintenance or operating costs associated with the gift be excessive?
 3. Do proposed or imposed conditions or restrictions upon use of the item make it impractical to accept?
 4. Do proposed or imposed conditions or restrictions on disposition of the item make it impractical to accept?
 5. Is required accounting of acceptance or use of the item excessively burdensome?
 6. Would the item require extensive repair or maintenance, and if so, are City means readily available to do so?
 7. Does use of the item require the purchase of additional material or equipment to serve the purpose of the gift?
 8. Would acceptance of the item present a conflict of interest for the City or any of its employees? Regardless of the value of the donation, if the donor is a contractor, potential contractor or there is reason to believe there may be a conflict of interest, then the offer shall be referred to the City Manager who will determine if the gift will be accepted, rejected or submitted to Council for approval.

III. Procedures

- A. Non-monetary gifts valued at \$3,000 or less: Any single donation whose total value, as determined by the donor, is \$3,000 or less.
 1. A Donation Receipt Form will be completed when donations are received, with the form completed by City staff (Attachment I). A copy of the form will be provided to the donor, Department Head and the Finance Department~~The donor shall retain the white copy, the yellow copy shall be forwarded to the Department Head for filing, and the pink copy shall be transmitted to the Finance Department.~~ If the item is a capital asset (valued in excess of

Approved By: City Council
May 14, 1991
Revised 10/16/02

DONATIONS

\$2,000 with at least a one year life), appropriate inventory and records shall be retained.

2. The City will not place any value on the gift for the donor. The donor shall provide proof of current market value. If real property is donated, a current appraisal report will be required.
3. The Department Head will promptly acknowledge each gift by letter, thanking the donor for the gift. Sample form letter (Attachment II) is included.
4. The ~~Chief Financial Officer~~ ~~Finance Director~~ shall be notified of the acceptance of any capital asset. Finance shall make the necessary entries on the respective accounts and property records to insure that the property is recorded to the account of the proper City program. This reporting must take place no later than 30 days after the receipt of the donated item.
5. If the gift is a capital asset of the type that is ordinarily handled by an asset manager, the recipient Department staff must collaborate with the appropriate asset manager before accepting the gift. Once received, for inventory purposes, the asset manager must also be notified that the gift is received.

B. Non-monetary gifts valued at more than \$3,000:

1. Any gift valued at more than \$3,000, as determined by the donor, cannot be accepted without City Council approval. Subsequent to Council's acceptance, procedures for acceptance of gifts in excess of \$3,000 shall be the same as those in Section A above.

C. Cash Gifts:

1. Depositing Cash Gifts: All cash gifts shall be deposited immediately with the Finance Department in accordance with the City's cash collection policy and procedure and shall be accompanied by the pink copy of the Donation Receipt. Cash donations shall be deposited in the appropriate restricted or unrestricted revenue account within the appropriate fund.
2. Restricted Cash Donations:
 - a. Donation Receipt: Restricted cash donations must be supported in Finance Department files by the Donation Receipt signed by the donor, which identifies the name of the donor, the amount and date of the donation, and the nature of the restriction.
 - b. Deposit of Restricted Cash Donations: Donations shall be deposited in a revenue account, which will be managed by the ~~Chief Financial Officer~~ ~~Finance Director~~. This fund shall be utilized by all depositing departments. Upon receipt of donated cash, the department shall submit a copy of the donation receipt form to the ~~Chief Financial Officer~~ ~~Finance Director~~ at which time an account number will be assigned to the donation.
 - c. Council Authorization: A request for authorization must be sent to City Council in the form of a budget adjustment and approved by the Council before a restricted cash donation is spent for its intended use ~~(Attachment III)~~. The Report to Council must state the name of the donor, the amount of the donation, the date the donation was received and the nature of the restriction. A copy of this report must be submitted to the ~~Chief Financial Officer~~ ~~Finance Director~~ to confirm expenditure

Approved By: City Council
May 14, 1991
Revised 10/16/02

DONATIONS

authority.

- d. Procedures for Expending Donated Cash: The donation may be liquidated by the expending department when an approved purchase is made. Any over-expenditures will be charged to the department's operating budget. Funds shall remain in this account until they are entirely expended in accordance with the terms of the gift. If the funds are not expended as intended, they must be returned to the donor, or the donor must provide written authorization to expend the gift differently than the original purpose. A minimum of 90% of the donated funds must be utilized for the stated purpose. The remaining balance may be deposited into the General Fund for administration costs, once the purpose of the donation has been achieved.

~~e. Monitoring of Cash Donations: The City Council will receive periodic reports, not less than annually, from the Finance Director accounting for receipts and expenditures of donated funds.~~

3. Unrestricted Cash Donations: Unrestricted cash donations shall be deposited in an unrestricted revenue account in the General Fund.

~~D. Reporting of Donations: Within 30 days of the end of each quarter, the Finance Director shall submit a report to City Council that summarizes all donations received by each department during the prior fiscal year, with an estimate of the monetary value of the donations.~~

IV City Donations

- A. Donations made by the City shall be processed per City Policy 3.9, Surplus Supplies, Materials, Vehicles and Equipment.

DONATIONS

CITY OF MORENO VALLEY
P.O. BOX 88005
MORENO VALLEY, CA 92552-0805
(909) 413-3000

Attachment I

DONATION RECEIPT FORM

Date _____

Donor _____ Telephone (____) _____

Address _____

City _____ State _____ Zip _____

DONATION DESCRIPTION:

CASH _____ (amount) CHECK _____ (amount) COMMODITY _____

Description (be specific) _____

____ UNRESTRICTED
____ RESTRICTED (identify restrictions) _____

Total estimated value (estimated by Donor) _____

Received by: _____ Date: _____
Signature of City Employee/Department

Donor: _____ Date: _____
Signature

The contribution was classed and handled in the following manner:

____ Item was issued a City I.D. number and is located at _____

____ Item has short life span. Not classed as a fixed asset.

____ Unrestricted cash or check deposited in General Fund, account number _____

____ Restricted cash or check placed in General Fund, account number _____ for use in _____

____ Other (explain) _____

Finance Director signature _____ Date _____

Thank you for your generous donation!

Approved By: City Council
May 14, 1991
Revised 10/16/02

City of Moreno Valley

Fiscal
Policy #3.05
Page 6 of 7

DONATIONS

~~White - Donor~~ ~~Yellow - Director~~ ~~Pink - Finance (when value exceeds \$300.00)~~

Attachment II

Date

Name of Donor
Address
City/State/Zip

Dear (Donor name):

On behalf of the City of Moreno Valley and the (Department), we wish to thank you for your recent donation of (item).

We appreciate your generosity and thoughtfulness. Your donation will enable the City to continue its tradition of quality service to the community.

Sincerely,

(Department Head Name)
(Department Head Title)

Attachment: Donations Policy No 305 Revised 2019 [Revision 1] (3622 : APPROVE AMENDMENTS TO MULTIPLE CITY POLICIES)

Approved By: City Council
May 14, 1991
Revised 10/16/02

DONATIONS

Attachment III

CITY OF MORENO VALLEY

Report to City Council

TO: _____ Mayor and City Council

FROM: _____

DATE: _____

SUBJECT: _____ Acceptance of Donation of (_____) from (_____)

RECOMMENDED ACTION

Staff recommends City Council (approve/reject) the donation described above.

BACKGROUND

The City's policy on acceptance of donation requires that the Council formally accept all donations whose estimated value is more than \$3,000. The _____ Department has received (\$ _____) or (name of item) from (individual or company). The express purpose of this donation is to _____. In addition, the donor has indicated the following restrictions on the disposition of the designated item: (if applicable)

FISCAL IMPACT

1. _____ (List the advantages, long term maintenance costs, etc.)

ALTERNATIVES

1. _____ (Council approve, reject, or request an alternative course of action.)

Prepared By _____

Department Head Approval _____

Council Action	
Approved as requested:	Referred to:
Approved as amended:	For:
Denied:	Continued until:
Other:	Hearing set for:

Attachment: Donations Policy No 305 Revised 2019 [Revision 1] (3622 : APPROVE AMENDMENTS TO MULTIPLE CITY POLICIES)

CITY COUNCIL VEHICLE POLICY

PURPOSE: To establish a policy for vehicle use and reimbursement for City elected officials.

POLICY:

- I. Car Allowance:** This allowance is an option for reimbursing ~~City employees~~ City Councilmembers who extensively use their personal vehicles on City business.
- A. Councilmembers constantly use their personal vehicles to attend various committee, board and commission meetings; visit building/project sites; meet with constituents; and respond to emergency situations.
 - B. Their vehicles must be available twenty-four hours a day, seven days a week.
 - ~~C. The allowance replaces mileage reimbursement and is available in the amount of \$50, \$100, \$200, or \$300.~~
 - ~~D. City directors receive a \$200/month allowance.~~
 - ~~E. The City Manager does not receive a car allowance since his vehicle is provided for him under the terms of his contract.~~
 - ~~F.C.~~ Each Councilmember ~~should~~ is eligible to receive a ~~\$200~~ \$500/month car allowance, if they use their personal car for City related business.
- II. City Vehicle Policy:** Equitable guidelines should be established regarding Councilmember's use of the City automobile in lieu of a car allowance set forth in Section I above.
- A. City cars should be available for any Councilmember attending any function in their capacity as a City Councilmember.
 - B. Reasonable, short side trips in the course of this commute to attend a City related function are permissible.
 - C. The City car shall not be used in place of a Councilmember's personal vehicle unless such use is within the scope of these guidelines.

MANAGEMENT CONTRACTS

PURPOSE: The purpose of this policy is to define the at-will employment relationship of the City Manager, City Attorney, City Clerk, executive managers, division managers, Assistant City Attorney and Deputy City Attorney I/II/III; to establish guidelines for executive and division management contracts.

DEFINITIONS:

At-Will Employment. At-will employees serve at the pleasure of the employer. Those who serve at-will may be terminated from service at any time, without notice, cause or rights of appeal, as outlined in the Employment Agreement.

Executive Managers. As the term is used in this policy, "executive management" refers to certain appointed officials who are appointed by the City Manager. Excluded from this definition are the City Manager, City Attorney, and City Clerk, as these officials are appointed by the City Council.

Division Managers. As the term is used in this policy, "division management" refers to individuals appointed to positions so designated by Classification Specification and described in the City's Personnel Rules and Regulations. Also included in this definition are the Assistant City Attorney and those employed as Deputy City Attorney I/II/III. Division Managers appointed prior to City Council approval of this Policy (designating such positions at-will), retain civil service status unless/until such status is voluntarily waived by said employees or upon entry into a new position which carries at-will status.

POLICY:**I. At-Will Employment**

It shall be the policy of the City that individuals serving in the following positions shall be employed as at-will employees, serving at the will of their respective employer:

- City Manager
- City Attorney
- City Clerk
- Assistant City Manager
- Deputy City Manager
- Department Heads (also referred to as executive managers)
- Division Managers
- Assistant City Attorney
- Deputy City Attorney I, II and III

II. Employment Contracts

It shall be the policy of the City that all executive and division managers, as well as those serving in attorney classifications shall be employed under contract. Such contract shall stipulate the employment relationship and significant conditions of employment between the two parties. Contracts with the City Manager, City Attorney, and City Clerk will be negotiated with City Council. Contracts with the Assistant City Attorney and Deputy City Attorney I, II and III will be negotiated with the City Attorney. Contracts with Executive and Division Managers shall be negotiated with the City Manager.

MANAGEMENT CONTRACTS

III. Executive and Division Management Contracts

- A. Effective with the adoption of this policy, all Executive and Division managers (to include Assistant and Deputy City Attorneys) shall be employed with a Management Contract. Standard contracts are attached hereto and incorporated into this policy by reference.
- B. The City Manager shall have the authority to approve the standard Executive and Division Management Contract. The City Attorney shall have the authority to approve the standard Division Management Contract for Assistant/Deputy City Attorneys.
- C. Consistent with the Personnel Rules and Regulations, within the general parameters of the standard Contract and consistent with City Policies, the City Manager shall have the authority to approve certain added incentives to aid in the recruitment/retention of At Will employees. Such inducements would generally include placement/movement among higher steps within the Council approved Salary Range, authorization of moving expenses (in rare circumstances), additional vacation or sick leave, vehicle use, cafeteria benefit tier placement to recognize prior service with the City or comparable public agencies, and educational expenses.
- D. The City Council approval shall be required for contracts wherein the conditions of employment differ substantially from the standard Executive Management Contract attached hereto.

Attachment: Management Contracts No 514 revised 2019 (3622 : APPROVE AMENDMENTS TO MULTIPLE CITY POLICIES)

MANAGEMENT CONTRACTS

Attachment to Executive Management Contract Policy

This Employment Agreement (hereafter referred to herein as "Agreement") is made and entered into this [redacted] day of [redacted], 20[redacted], by and between the City of Moreno Valley, California (hereafter referred to herein as "CITY"), a California municipal corporation and general law city, and [redacted] (hereafter referred to herein as "EMPLOYEE"), an individual, on the following terms and conditions:

RECITALS

A. CITY, by and through the City Manager, desires to employ the services of Employee as [redacted] of CITY; and

B. EMPLOYEE desires to accept employment as [redacted] in consideration of and subject to the terms and conditions set forth in this Agreement.

OPERATIVE PROVISIONS

In consideration of the promises and covenants contained herein, the parties agree as follows:

1. Position and Duties.

1.1 Position. EMPLOYEE accepts employment with CITY as its [redacted] and shall perform all functions, duties and services as set forth in this Agreement. EMPLOYEE shall provide services at the direction and under the supervision of the City Manager of CITY.

1.2 Duties. The duties of EMPLOYEE shall be as determined by the City Manager, generally in conformance with the job description attached hereto and incorporated herein as though set forth in full as Attachment A to this Agreement. EMPLOYEE shall devote his/her best efforts and full-time attention to the performance of these duties.

1.3 Hours of Work. EMPLOYEE shall devote the time necessary to adequately perform his/her assigned duties. The work schedule shall be the same as the schedule in place for all other Executive Managers of CITY, provided the schedule of such hours provides adequate availability during normal business hours and for the performance of his/her duties in conducting CITY business. The position of [redacted] shall be deemed an exempt position under applicable wage and hour law. EMPLOYEE hereby acknowledges that he/she shall not be entitled to any compensation for overtime.

1.4 Professional Activity. The City Manager desires EMPLOYEE to be reasonably active in national, statewide, regional and professional organizations that will contribute to his/her professional development and standing and that will contribute to the advancement

Approved by: City Council
October 10, 2000
Revised 6/25/13

Attachment: Management Contracts No 514 revised 2019 (3622 : APPROVE AMENDMENTS TO MULTIPLE CITY POLICIES)

MANAGEMENT CONTRACTS

of the CITY's interests and standing. Toward that end, EMPLOYEE may, upon advance notice to the City Manager, undertake such activities as are directly related to his/her professional development and that advance the interests and standing of the CITY, provided that such activities do not in any way interfere with or adversely affect his/her employment as [REDACTED] or the performance of his/her duties as provided herein. CITY agrees to reimburse EMPLOYEE'S reasonable and necessary travel, business and subsistence expenses for his/her activities as provided for in the City's Administrative Policies.

1.5 Other Activity. In accordance with Government Code Section 1126, during the period of his/her employment, EMPLOYEE shall not accept, without the express prior written consent of the City Manager, any other employment or engage, directly or indirectly, in any other business, commercial, or professional activity (except as permitted under Section 1.4 [Professional Activity], regardless of whether for pecuniary advantage, that is or may be competitive with the CITY, that might cause a conflict-of-interest with the CITY, or that otherwise might interfere with the business or operation of the CITY or the satisfactory performance of EMPLOYEE'S duties.

2. Term.

2.1 Term. The term of this Agreement shall commence on [REDACTED] (Commencement Date), upon being executed by EMPLOYEE and approved by the City Manager. This Agreement shall remain in effect until such time as this Agreement is terminated pursuant to Section 4, below.

2.2 At-Will Employment. EMPLOYEE acknowledges that he/she is an at-will employee of CITY who shall serve at the pleasure of the City Manager at all times during the period of his/her service under this Agreement. The terms and provisions of CITY's personnel rules, policies, procedures, ordinances and resolutions applicable to at-will employees shall also apply to EMPLOYEE, and he/she shall be entitled to all benefits and rights afforded to other Executive Management (as defined in the City's Personnel Rules) of CITY, except to the extent provided by this Agreement, and, in the case of any conflict between this Agreement, and the Personnel Rules, policies, procedures, ordinances and resolution, the terms of this Agreement shall prevail. Notwithstanding the application of the City's Personnel Rules to this Agreement, and without limitation, EMPLOYEE shall have no rights under sections 9, 10, 11 and 12 of the Personnel Rules. Nothing in this Agreement is intended to, or does, confer upon EMPLOYEE any right to any property interest in continued employment, or any due process right to a hearing before or after a decision by the City Manager to terminate his/her employment, except as is expressly provided in Section 4 [Termination] of this Agreement. Nothing contained in this Agreement shall in any way prevent, limit or otherwise interfere with the right of CITY to terminate the services of EMPLOYEE as provided in Section 4 [Termination]. Nothing in this Agreement shall prevent, limit or otherwise interfere with the right of EMPLOYEE to resign at any time from this position with CITY, subject only to the provisions set forth in Section 4 [Termination] of

Approved by: City Council
October 10, 2000
Revised 6/25/13

MANAGEMENT CONTRACTS

this Agreement. This at-will employment Agreement shall be expressly subject to the rights and obligations of CITY and EMPLOYEE, as set forth in Section 4 [Termination] herein.

3. Compensation.

3.1 Salary. For all services performed by EMPLOYEE as the [REDACTED] under this Agreement, CITY shall pay EMPLOYEE compensation in accordance with the adopted salary schedule for the position, plus all other compensation benefits afforded by CITY to other full time Executive Management employees. EMPLOYEE shall be entitled to all cost of living and other salary and benefit adjustments implemented by the CITY as applicable to other full time Executive Management employees, to include City's employee furlough program and eligibility for Merit Increases. The starting salary shall be [REDACTED] dollars (\$ [REDACTED] per month), paid bi-weekly according to the payroll schedule in place for CITY employees. All compensation and leave policies applicable to Executive Management employees as contained in CITY'S Personnel Rules and Regulations shall apply.

3.2 Annual Leave. All compensation and leave policies applicable to Executive Management as contained in the City's Personnel Rules and Regulations, Sections 7 and 14, shall apply. EMPLOYEE shall annually accrue [REDACTED] hours of Annual Leave, allocated at a rate of [REDACTED] hours per pay period. Annual Leave shall be subject to CITY's Personnel Rules and Regulations as they apply to other Executive Management employees.

3.3 Automobile Allowance. EMPLOYEE shall be entitled to an automobile allowance as compensation for the use of personal automobile(s) for CITY business as provided for in CITY policies. This monthly allowance shall equal the amount provided to other Executive Management employees, and is currently five hundred dollars (\$500) per month. In addition, EMPLOYEE shall be entitled to excess mileage reimbursement according to adopted CITY policies for any qualifying trip in the course and scope of employment.

4. Termination.

4.1 The City Manager may terminate EMPLOYEE'S employment, and this Agreement "for cause" at any time upon written notice. "For cause" is defined as any of the following:

(i) an act in bad faith and to the detriment of the City; (ii) refusal or failure to act in accordance with any specific lawful direction or order of the City Manager; (iii) unfitness or unavailability for service that exceeds thirty (30) consecutive calendar days and is not the result of any excused illness or medical condition; (iv) commission of an act involving moral turpitude or other acts which harm the reputation of or interests of the City; (v) habitual neglect of responsibilities, or incompetence; (vi) a conviction of a felony or other crime punishable by jail or imprisonment in the jurisdiction involved (or entry of a plea of guilty or *nolo contendere* with respect to any such crime); (vii) possession of, use of, or working

MANAGEMENT CONTRACTS

while under the influence of alcoholic beverages or other non-prescribed controlled substances or abuse/misuse of lawfully prescribed controlled substances during working hours; (viii) engaging in an actual conflict of interest; (ix) commission of acts of theft, embezzlement, or fraud; (x) acceptance of bribes or extortion; (xi) material breach of this Agreement by EMPLOYEE. If this Agreement is terminated by the City Manager "for cause," EMPLOYEE'S employment shall be deemed immediately terminated and EMPLOYEE shall surrender all CITY keys, computer passwords, and other CITY property entrusted to EMPLOYEE for the purposes of the discharge of his/her duties. Upon termination for cause, EMPLOYEE shall have no recourse under this AGREEMENT or any administrative procedure for purposes of challenging the termination action.

4.2 In the event EMPLOYEE is terminated "without cause" or asked to resign during such time that EMPLOYEE is willing and able to perform the Duties under this Agreement, then CITY agrees, upon receipt of a Comprehensive General Release and Settlement Agreement in the standard form signed by EMPLOYEE, to pay EMPLOYEE a lump sum cash payment equal to 12 months of Salary and benefits [Section 3] as severance pay.

4.3 EMPLOYEE shall receive a lump sum payout of any unpaid accruals of Annual Leave and Sick Leave upon termination of employment for any reason pursuant to CITY policies.

4.4 EMPLOYEE shall not be entitled to any increases in Salary or benefits afforded by CITY to other Executive Management employees following the date of termination.

4.5 This Agreement may be terminated by EMPLOYEE at any time upon 45 days written notice to the City Manager. If such written notice is given, the City has the option to ask EMPLOYEE to leave his/her position sooner than the expiration of 45 days, but, if it does so, the City will continue to honor its obligations under this Agreement until expiration of the 45-day period.

4.6 EMPLOYEE'S employment and this Agreement shall terminate automatically upon EMPLOYEE'S death. In this event, the City shall pay the beneficiary designated by EMPLOYEE in writing, or in the absence of such designation, EMPLOYEE'S estate, his/her accrued and unpaid compensation, and all accrued but unused benefits, if any, through the date of EMPLOYEE'S death.

4.7 If EMPLOYEE becomes disabled and requires accommodation to permit him/her to perform the essential functions of the position, the City shall provide reasonable accommodation if possible and unless doing so creates undue hardship for the City.

5. Proprietary Information.

"Proprietary Information" is all information and any idea pertaining to any economic development engaged in or contemplated by the City (or any CITY affiliate), including

MANAGEMENT CONTRACTS

marketing plans and development projects. Proprietary Information shall include, without limitation, trade secrets (as further defined in Uniform Trade Secrets Act, Civil Code §3426 et seq.), ideas, inventions, processes, formulae, data, know-how, software and other computer programs, copyrightable material, marketing plans, strategies, sales, financial reports, and forecasts. During his/her employment by CITY, EMPLOYEE shall only use Proprietary Information for the benefit of CITY and as is or may be necessary to perform his/her job responsibilities under this Agreement. Following termination, EMPLOYEE shall not use or disclose any Proprietary Information for the benefit of himself/herself or any third party, except with the express written consent of CITY. EMPLOYEE'S obligations under this Section shall survive the termination of his/her employment and the termination of this Agreement.

6. Conflict Of Interest.

EMPLOYEE represents and warrants to CITY that he/she presently has no interest, and represents that he/she will not acquire any interest, direct or indirect, financial or otherwise, which would conflict in any manner or interfere in any way with performance of his/her services under this Agreement.

7. General Provisions.

7.1 Vehicle Operation. EMPLOYEE shall operate any vehicle used in connection with the performance of his/her duties in a safe manner and otherwise in observance of all established traffic safety laws and ordinances and shall maintain a valid California automobile's driver's license during the period of employment. In addition, EMPLOYEE shall maintain in full force and effect during the Term of this Agreement, valid automobile liability insurance providing coverage for collision, personal injury and medical reimbursement, in accordance with the City's Administrative Policy.

7.2 Notices. All notices, requests, demands and other communications under this Agreement shall be in writing and shall be effective upon delivery by hand or three (3) business days after deposit in the United States mail, postage prepaid, certified or registered, and addressed to CITY at the address below, and at the last known address maintained in EMPLOYEE'S personnel file. EMPLOYEE agrees to notify CITY in writing of any change in his/her address during his/her employment with CITY. Notice of change of address shall be effective only when accomplished in accordance with this Section.

City's Notice Address: City of Moreno Valley c/o City Manager
P.O. Box 88005 14177 Frederick Street Moreno Valley, California 92552-0805

EMPLOYEE'S Address: [Deliver to last updated address in personnel file]

7.3 Indemnification. Subject to, in accordance with, and to the extent provided by the California Tort Claims Act [Government Code Section 810 et seq.] the CITY will indemnify, defend, and hold EMPLOYEE harmless from and against any action, demand, suit, monetary judgment or other legal or administrative proceeding, and any liability, injury, loss or other

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damages, arising out of any act or omission associated with EMPLOYEE'S performance of functions, duties and services set forth in this Agreement.

7.4 Bonding. The CITY shall bear the full cost of any fidelity or other bonds required of EMPLOYEE under any law or ordinance.

7.5 Integration. This Agreement is intended to be the final, complete, and exclusive statement of the terms of EMPLOYEE'S employment by CITY. This Agreement supersedes all other prior and contemporaneous agreements and statements, whether written or oral, express or implied, pertaining in any manner to the employment of EMPLOYEE, and it may not be contradicted by evidence of any prior or contemporaneous statements or agreements. To the extent that the practices, policies, or procedures of CITY, now or in the future, apply to EMPLOYEE and are inconsistent with the terms of this Agreement, the provisions of this Agreement shall control.

7.6 Amendments. This Agreement may not be amended, altered or modified, except in a written document signed by EMPLOYEE, and signed by the City Manager.

7.7 Waiver. Failure to exercise any right under this Agreement shall not constitute a waiver of such right.

7.8 Assignment. EMPLOYEE shall not assign any rights or obligations under this Agreement. CITY may, upon prior written notice to EMPLOYEE, assign its rights and obligations hereunder.

7.9 Severability. If a court holds any provision of this Agreement to be invalid, unenforceable, or void, the remainder of this Agreement shall remain in full force and effect.

7.10 Governing Law. This Agreement shall be governed by and construed in accordance with the laws of the State of California, with venue proper only in Riverside County, State of California.

7.11 Interpretation. This Agreement shall be construed as a whole, according to its fair meaning, and not in favor of or against any party. By way of example and not in limitation, this Agreement shall not be construed in favor of the party receiving a benefit or against the party responsible for any particular language in this Agreement. Captions are used for reference purposes only and should be ignored in the interpretation of the Agreement.

7.12 Acknowledgment. EMPLOYEE acknowledges that he/she has had the opportunity to consult legal counsel in regard to this Agreement, that he/she has read and understands this Agreement, that he/she is fully aware of its legal effect, and that he/she has entered into it freely and voluntarily and based on his/her own judgment and not on any representations or promises other than those contained in this Agreement.

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October 10, 2000
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IN WITNESS WHEREOF, the CITY has caused this Agreement to be signed and executed on its behalf by its City Manager, and EMPLOYEE has signed and executed this Agreement, as of the date first indicated above.

Date: _____

Employee

CITY OF MORENO VALLEY

Date: _____

By: _____
City Manager

Attachment: Management Contracts No 514 revised 2019 (3622 : APPROVE AMENDMENTS TO MULTIPLE CITY POLICIES)

Approved by: City Council
October 10, 2000
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MANAGEMENT CONTRACTS

**EMPLOYMENT AGREEMENT
(Division Management and
Assistant/Deputy City Attorney Employees)
(SAMPLE)**

Note: When used for the positions of Assistant/Deputy City Attorney, the standard Agreement will reflect at-will service under supervision of the City Attorney.

This Employment Agreement (hereafter referred to herein as "Agreement") is made and entered into this [redacted] day of [redacted], 20[redacted], by and between the City of Moreno Valley, California (hereafter referred to herein as "CITY"), a California municipal corporation and general law city, and [redacted] (hereafter referred to herein as "EMPLOYEE"), an individual, on the following terms and conditions:

RECITALS

A. CITY, by and through the City Manager, desires to employ the services of Employee as [redacted] of CITY; and

B. EMPLOYEE desires to accept employment as [redacted] in consideration of and subject to the terms and conditions set forth in this Agreement.

OPERATIVE PROVISIONS

In consideration of the promises and covenants contained herein, the parties agree as follows:

1. Position and Duties.

1.1 Position. EMPLOYEE accepts employment with CITY as its [redacted] and shall perform all functions, duties and services set forth in this Agreement. EMPLOYEE shall provide services at the direction and under the supervision of the City Manager of CITY.

1.2 Duties. The duties of EMPLOYEE shall be as determined by the City Manager, generally in conformance with the job description attached hereto and incorporated herein as though set forth in full as Attachment A to this Agreement. EMPLOYEE shall devote his/her best efforts and full-time attention to the performance of these duties.

1.3 Hours of Work. EMPLOYEE shall devote the time necessary to adequately perform his/her assigned duties. The work schedule shall be the same as the schedule in place for all other Division Managers of CITY, provided the schedule of such hours provides adequate availability during normal business hours and for the performance of his/her duties in conducting CITY business. The position of [redacted] shall be deemed an

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exempt position under applicable wage and hour law. EMPLOYEE hereby acknowledges that he/she shall not be entitled to any compensation for overtime.

1.4 Professional Activity. The City Manager desires EMPLOYEE to be reasonably active in national, statewide, regional and professional organizations that will contribute to his/her professional development and standing and that will contribute to the advancement of the CITY's interests and standing. Toward that end, EMPLOYEE may, upon advance notice to the City Manager, undertake such activities as are directly related to his/her professional development and that advance the interests and standing of the CITY, provided that such activities do not in any way interfere with or adversely affect his/her employment as [REDACTED] or the performance of his/her duties as provided herein. CITY agrees to reimburse EMPLOYEE'S reasonable and necessary travel, business and subsistence expenses for his/her activities as provided for in the City's Administrative Policies.

1.5 Other Activity. In accordance with Government Code Section 1126, during the period of his/her employment, EMPLOYEE shall not accept, without the express prior written consent of the City Manager, any other employment or engage, directly or indirectly, in any other business, commercial, or professional activity (except as permitted under Section 1.4 [Professional Activity], regardless of whether for pecuniary advantage, that is or may be competitive with the CITY, that might cause a conflict-of-interest with the CITY, or that otherwise might interfere with the business or operation of the CITY or the satisfactory performance of EMPLOYEE'S duties.

2. Term.

2.1 Term. The term of this Agreement shall commence on [REDACTED] (Commencement Date), upon being executed by EMPLOYEE and approved by the City Manager. This Agreement shall remain in effect until such time as this Agreement is terminated pursuant to Section 4, below.

2.2 At-Will Employment. EMPLOYEE acknowledges that he/she is an at-will employee of CITY who shall serve at the pleasure of the City Manager at all times during the period of his/her service under this Agreement. The terms and provisions of CITY's personnel rules, policies, procedures, ordinances and resolutions applicable to at-will employees shall also apply to EMPLOYEE, and he/she shall be entitled to all benefits and rights afforded to other Division Management (as defined in the City's Personnel Rules) of CITY, except to the extent provided by this Agreement, and, in the case of any conflict between this Agreement, and the Personnel Rules, policies, procedures, ordinances and resolution, the terms of this Agreement shall prevail. Notwithstanding the application of the City's Personnel Rules to this Agreement, and without limitation, EMPLOYEE shall have no rights under sections 9, 10, 11 and 12 of the Personnel Rules. Nothing in this Agreement is intended to, or does, confer upon EMPLOYEE any right to any property interest in continued employment, or any due process right to a hearing before or after a decision by

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the City Manager to terminate his/her employment, except as is expressly provided in Section 4 [Termination] of this Agreement. Nothing contained in this Agreement shall in any way prevent, limit or otherwise interfere with the right of CITY to terminate the services of EMPLOYEE as provided in Section 4 [Termination]. Nothing in this Agreement shall prevent, limit or otherwise interfere with the right of EMPLOYEE to resign at any time from this position with CITY, subject only to the provisions set forth in Section 4 [Termination] of this Agreement. This at-will employment Agreement shall be expressly subject to the rights and obligations of CITY and EMPLOYEE, as set forth in Section 4 [Termination] herein.

3. Compensation.

3.1 Salary. For all services performed by EMPLOYEE as the [REDACTED] under this Agreement, CITY shall pay EMPLOYEE compensation in accordance with the adopted salary schedule for the position, plus all other compensation benefits afforded by CITY to other full time Division Management employees. EMPLOYEE shall be entitled to all cost of living and other salary and benefit adjustments implemented by the CITY as applicable to other full time Division Management employees, to include City's employee furlough program and eligibility for Merit Increases. The starting salary shall be [REDACTED] dollars (\$ [REDACTED] per month), paid bi-weekly according to the payroll schedule in place for CITY employees. All compensation and leave policies applicable to Division Management employees as contained in CITY'S Personnel Rules and Regulations shall apply.

3.2 Annual Leave. All compensation and leave policies applicable to Division Management as contained in the City's Personnel Rules and Regulations, Sections 7 and 14, shall apply. EMPLOYEE shall annually accrue [REDACTED] hours of Annual Leave, allocated at a rate of [REDACTED] hours per pay period. Annual Leave shall be subject to CITY'S Personnel Rules and Regulations as they apply to other Division Management employees.

3.3 Automobile Allowance. EMPLOYEE shall be entitled to an automobile allowance as compensation for the use of personal automobile(s) for CITY business as provided for in CITY policies. This monthly allowance shall equal the amount provided to other Division Management employees, and is currently three-hundred-fifty dollars (\$350) per month. In addition, EMPLOYEE shall be entitled to excess mileage reimbursement according to adopted CITY policies for any qualifying trip in the course and scope of employment.

4. Termination.

4.1 The City Manager may terminate EMPLOYEE'S employment, and this Agreement "for cause" at any time upon written notice. "For cause" is defined as any of the following:

(i) an act in bad faith and to the detriment of the City; (ii) refusal or failure to act in accordance with any specific lawful direction or order of the City Attorney that is not in conflict with the Rules of Professional Conduct and/or the Legal Canon of Ethics for attorneys in the State of California (as applicable); (iii) unfitness or unavailability for service

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that exceeds thirty (30) consecutive calendar days and is not the result of any excused illness or medical condition; (iv) commission of an act involving moral turpitude or other acts which harm the reputation of or interests of the City; (v) habitual neglect of responsibilities, or incompetence; (vi) a conviction of a felony or other crime punishable by jail or imprisonment in the jurisdiction involved (or entry of a plea of guilty or *nolo contendere* with respect to any such crime); (vii) possession of, use of, or working while under the influence of alcoholic beverages or other non-prescribed controlled substances or abuse/misuse of lawfully prescribed controlled substances during working hours; (viii) engaging in an actual conflict of interest; (ix) commission of acts of theft, embezzlement, or fraud; (x) acceptance of bribes or extortion; (xi) imposition of professional discipline by the State Bar of California resulting in suspension or disbarment; or (xii) material breach of this Agreement by EMPLOYEE. If this Agreement is terminated by the City Manager "for cause," EMPLOYEE'S employment shall be deemed immediately terminated and EMPLOYEE shall surrender all CITY keys, computer passwords, and other CITY property entrusted to EMPLOYEE for the purposes of the discharge of his/her duties. Upon termination for cause, EMPLOYEE shall have no recourse under this AGREEMENT or any administrative procedure for purposes of challenging the termination action.

4.2 In the event EMPLOYEE is terminated "without cause" or asked to resign during such time that EMPLOYEE is willing and able to perform the Duties under this Agreement, then CITY agrees, upon receipt of a Comprehensive General Release and Settlement Agreement in the standard form signed by EMPLOYEE, to pay EMPLOYEE a lump sum cash payment equal to 6 months of Salary and benefits [Section 3] as severance pay.

4.3 EMPLOYEE shall receive a lump sum payout of any unpaid accruals of Annual Leave and Sick Leave upon termination of employment for any reason pursuant to CITY policies.

4.4 EMPLOYEE shall not be entitled to any increases in Salary or benefits afforded by CITY to other Division Management employees following the date of termination.

4.5 This Agreement may be terminated by EMPLOYEE at any time upon 45 days written notice to the City Manager. If such written notice is given, the City has the option to ask EMPLOYEE to leave his/her position sooner than the expiration of 45 days, but, if it does so, the City will continue to honor its obligations under this Agreement until expiration of the 45-day period.

4.6 EMPLOYEE'S employment and this Agreement shall terminate automatically upon EMPLOYEE'S death. In this event, the City shall pay the beneficiary designated by EMPLOYEE in writing, or in the absence of such designation, EMPLOYEE'S estate, his/her accrued and unpaid compensation, and all accrued but unused benefits, if any, through the date of EMPLOYEE'S death.

4.7 If EMPLOYEE becomes disabled and requires accommodation to permit his/her

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to perform the essential functions of the position, the City shall provide reasonable accommodation if possible and unless doing so creates undue hardship for the City.

5. Proprietary Information.

"Proprietary Information" is all information and any idea pertaining to any economic development engaged in or contemplated by the City (or any CITY affiliate), including marketing plans and development projects. Proprietary Information shall include, without limitation, trade secrets (as further defined in Uniform Trade Secrets Act, Civil Code §3426 et seq.), ideas, inventions, processes, formulae, data, know-how, software and other computer programs, copyrightable material, marketing plans, strategies, sales, financial reports, and forecasts. During his/her employment by CITY, EMPLOYEE shall only use Proprietary Information for the benefit of CITY and as is or may be necessary to perform his/her job responsibilities under this Agreement. Following termination, EMPLOYEE shall not use or disclose any Proprietary Information for the benefit of himself/herself or any third party, except with the express written consent of CITY. EMPLOYEE'S obligations under this Section shall survive the termination of his/her employment and the termination of this Agreement.

6. Conflict Of Interest.

EMPLOYEE represents and warrants to CITY that he/she presently has no interest, and represents that he/she will not acquire any interest, direct or indirect, financial or otherwise, which would conflict in any manner or interfere in any way with performance of his/her services under this Agreement.

7. General Provisions.

7.1 Vehicle Operation. EMPLOYEE shall operate any vehicle used in connection with the performance of his/her duties in a safe manner and otherwise in observance of all established traffic safety laws and ordinances and shall maintain a valid California automobile's driver's license during the period of employment. In addition, EMPLOYEE shall maintain in full force and effect during the Term of this Agreement, valid automobile liability insurance providing coverage for collision, personal injury and medical reimbursement, in accordance with the City's Administrative Policy.

7.2 Notices. All notices, requests, demands and other communications under this Agreement shall be in writing and shall be effective upon delivery by hand or three (3) business days after deposit in the United States mail, postage prepaid, certified or registered, and addressed to CITY at the address below, and at the last known address maintained in EMPLOYEE'S personnel file. EMPLOYEE agrees to notify CITY in writing of any change in his/her address during his/her employment with CITY. Notice of change of address shall be effective only when accomplished in accordance with this Section.

City's Notice Address: City of Moreno Valley c/o City Manager
P.O. Box 88005 14177 Frederick Street Moreno Valley, California 92552-0805

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EMPLOYEE'S Address: [Deliver to last updated address in personnel file]

7.3 Indemnification. Subject to, in accordance with, and to the extent provided by the California Tort Claims Act [Government Code Section 810 *et seq.*] the CITY will indemnify, defend, and hold EMPLOYEE harmless from and against any action, demand, suit, monetary judgment or other legal or administrative proceeding, and any liability, injury, loss or other damages, arising out of any act or omission associated with EMPLOYEE'S performance of functions, duties and services set forth in this Agreement.

7.4 Bonding. The CITY shall bear the full cost of any fidelity or other bonds required of EMPLOYEE under any law or ordinance.

7.5 Integration. This Agreement is intended to be the final, complete, and exclusive statement of the terms of EMPLOYEE'S employment by CITY. This Agreement supersedes all other prior and contemporaneous agreements and statements, whether written or oral, express or implied, pertaining in any manner to the employment of EMPLOYEE, and it may not be contradicted by evidence of any prior or contemporaneous statements or agreements. To the extent that the practices, policies, or procedures of CITY, now or in the future, apply to EMPLOYEE and are inconsistent with the terms of this Agreement, the provisions of this Agreement shall control.

7.6 Amendments. This Agreement may not be amended, altered or modified, except in a written document signed by EMPLOYEE, and signed by the City Manager.

7.7 Waiver. Failure to exercise any right under this Agreement shall not constitute a waiver of such right.

7.8 Assignment. EMPLOYEE shall not assign any rights or obligations under this Agreement. CITY may, upon prior written notice to EMPLOYEE, assign its rights and obligations hereunder.

7.9 Severability. If a court holds any provision of this Agreement to be invalid, unenforceable, or void, the remainder of this Agreement shall remain in full force and effect.

7.10 Governing Law. This Agreement shall be governed by and construed in accordance with the laws of the State of California, with venue proper only in Riverside County, State of California.

7.11 Interpretation. This Agreement shall be construed as a whole, according to its fair meaning, and not in favor of or against any party. By way of example and not in limitation, this Agreement shall not be construed in favor of the party receiving a benefit or against the party responsible for any particular language in this Agreement. Captions are used for reference purposes only and should be ignored in the interpretation of the Agreement.

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7.12 Acknowledgment. EMPLOYEE acknowledges that he/she has had the opportunity to consult legal counsel in regard to this Agreement, that he/she has read and understands this Agreement, that he/she is fully aware of its legal effect, and that he/she has entered into it freely and voluntarily and based on his/her own judgment and not on any representations or promises other than those contained in this Agreement.

IN WITNESS WHEREOF, the CITY has caused this Agreement to be signed and executed on its behalf by its City Manager, and EMPLOYEE has signed and executed this Agreement, as of the date first indicated above.

Date: _____

Employee

CITY OF MORENO VALLEY

Date: _____

By: _____
City Manager

Attachment: Management Contracts No 514 revised 2019 (3622 : APPROVE AMENDMENTS TO MULTIPLE CITY POLICIES)

Approved by: City Council
October 10, 2000
Revised 6/25/13



Report to City Council

TO: Mayor and City Council

FROM: Mike Lee, Economic Development Director

AGENDA DATE: June 4, 2019

TITLE: MORENO VALLEY COLLEGE MEMORANDUM OF UNDERSTANDING - MOVAL LEARNS - MAYOR'S CHALLENGE

RECOMMENDED ACTION

Recommendation:

1. That the City Council approve the Memorandum of Understanding (MOU) between the City of Moreno Valley and Moreno Valley College to implement the MoVal Learns program.

SUMMARY

This report recommends approval of a MOU between the City of Moreno Valley and Moreno Valley College for the operation of the MoVal Learns – Mayor’s Challenge, a first-of-its-kind Universal Basic Student Income program. Developed in partnership with Moreno Valley College (MVC), the program proposes to pay students a \$250 monthly stipend to go to school, creating positive impacts for students, their families and the local economy.

DISCUSSION

In February of 2018, Bloomberg Philanthropies awarded the City of Moreno Valley \$100,000 and designated it one of 35 Champion Cities in the Mayors Challenge, a national competition designed to encourage mayors across the United States to develop innovative approaches to solve major urban problems. As part of the Champion Cities phase, the City collaborated with Moreno Valley College to test and fine tune a bold new program: MoVal Learns.

City staff has been in discussion with the Moreno Valley College Career Technical Education (CTE) staff to craft a program that can be administered at the local level and

be ready for implementation for the fall 2019 semester which begins August 26, 2019. The result of these planning sessions has yielded a program with the following student eligibility parameters:

1. Residency: Must be a Moreno Valley resident (to be verified via MVC student records).
2. Age: Must be 18 years or older (must show government identification).
3. Enrollment: Must be a student at Moreno Valley College enrolled in a minimum of six (6) units and no more than 50 units completed (to be verified via MVC student records).
4. Units: Must be a second year student with a minimum of 12 units completed.
5. Career Track: Must be a Career and Technical Education (CTE) student.
6. Good Standing: Must have 2.0 GPA or higher and may not be on Academic Probation.
7. College Promise: Students who have previously completed the College Promise program will be given preference.
8. Enrollment: Must complete and sign all program registration documents.

For eligible students, the MoVal Learns — Mayor's Challenge program offers the following basic components:

1. Monthly Stipend: Given in disbursements of \$250 per month, the stipend will provide a Universal Basic Student Income to program participants for a maximum of one (1) academic year starting in the fall of 2019 (does not include summer or winter sessions).
2. Civic Interaction and Volunteerism: The MoVal Learns program includes a volunteer component which will allow students to connect to the volunteer opportunities at City Hall through the MyMoVal initiative for a minimum of 20 hours per academic year. Students will be connected to opportunities to give back at City Hall and in the community, with the aim of increasing personal and civic pride and engagement.

To govern the successful joint operation of this program, the City and the College agree to uphold the following obligations as outlined in the attached MOU:

A. COLLEGE Obligations:

- a. Manage the enrollment and verification of Moreno Valley residents that are CTE students;
- b. Promote the program to potential CTE students and coordinate with faculty and staff to ensure student access to the program;
- c. Maintain a database of all student participants and track student outcomes;
- d. Provide an annual report describing outcomes and key data for students enrolled in the program;

- e. Provide a minimum of one in-person update to the City Council per year regarding the program; and
 - f. Support and actively seek grant and funding opportunities from state, local, federal and private sources.
- B. CITY Obligations:
- a. Provide funding of \$100,000 per year to fund the program for two (2) years;
 - b. Provide direct stipend disbursements to qualified CTE students as approved by the College;
 - c. Develop marketing materials such as flyers, press releases and digital assets;
 - d. Coordinate events related to the program such as kick-offs, trainings or workshops;
 - e. Coordinate City-related events such as the State of the City;
 - f. Coordinate volunteer activities for students;
 - g. Serve as a liaison between MoVal Learns, Moreno Valley College and the Moreno Valley business community;
 - h. Support and actively seek grant and funding opportunities from state, local, federal and private sources; and
 - i. Utilize CITY marketing and promotion avenues to promote the program.

The attached MOU was presented to the Economic Development Subcommittee on May 14, 2019 and signed by Moreno Valley College on May 21, 2019.

ALTERNATIVES

1. Approve implementation of the MoVal Learns – Mayor’s Challenge program, to provide a \$250 monthly stipend to eligible Moreno Valley College students who are enrolled in Career and Technical Education programs. Approval of this program will incentivize up to 100 students to complete eligible courses and certificates. Staff recommends approval of this alternative.
2. Do not approve implementation of the MoVal Learns – Mayor’s Challenge program. This alternative would not create a monthly stipend program for Moreno Valley College CTE students. Staff does not recommend this alternative.
3. Provide alternative direction as the City Council deems appropriate.

FISCAL IMPACT

The proposed program calls for a two-year pilot with \$100,000 disbursed in year one and two commencing with the start of the 2019-2020 fiscal year on July 1, 2019. The program breakdown includes the following:

Monthly Stipend Amount	Fall and Spring Semester Total Months	Stipend Breakdown	Annual Stipend Amount	Annual Students Served
\$250	8 months	$\$250/\text{month} \times 8 \text{ months/year} = \$2,000/\text{year}/\text{student}$ $\$2,000 \times 50 \text{ students/year} = \$100,000$	\$100,000	50

Funding for the program has been approved as part of the Fiscal Year 2019/2020 and 2020/2021 two-year budget. Students shall be responsible for any income tax liabilities, if any.

NOTIFICATION

N/A.

PREPARATION OF STAFF REPORT

Prepared By:
 Jackie Melendez
 Business and Workforce Development Program Manager

Department Head Approval:
 Mike Lee
 Economic Development Director

CITY COUNCIL GOALS

Advocacy. Develop cooperative intergovernmental relationships and be a forceful advocate of City policies, objectives, and goals to appropriate external governments, agencies and corporations.

Positive Environment. Create a positive environment for the development of Moreno Valley's future.

CITY COUNCIL STRATEGIC PRIORITIES

1. Economic Development
2. Public Safety
3. Library
4. Infrastructure
5. Beautification, Community Engagement, and Quality of Life
6. Youth Programs

Objective 1.3: Promote local hiring through the expansion of local, quality, high paying jobs, and workforce development efforts.

ATTACHMENTS

1. MoVaLearns_MOU_Final_5-6-19

APPROVALS

Budget Officer Approval	<u>✓ Approved</u>	5/28/19 7:37 AM
City Attorney Approval	<u>✓ Approved</u>	5/29/19 8:52 AM
City Manager Approval	<u>✓ Approved</u>	5/30/19 1:48 PM



MEMORANDUM OF UNDERSTANDING

BETWEEN

**CITY OF MORENO VALLEY
ECONOMIC DEVELOPMENT DEPARTMENT**

AND

**MORENO VALLEY COLLEGE
CAREER AND TECHNICAL EDUCATION**

FOR

**THE MOVAL LEARNS - MAYOR'S CHALLENGE PROGRAM
("MOVAL LEARNS")**



Attachment: MoValLearns_MOU_Final_5-6-19 (3621 : MoVal Learns MOU)

1. INTRODUCTION

This Memorandum of Understanding ("MOU") is made and entered into the _____ 2019, by and between the City of Moreno Valley, a local government agency located in Riverside County, (collectively "CITY") and Moreno Valley College, a community college located in the State of California, by and through its Career and Technical Education program (collectively "COLLEGE"). The CITY and COLLEGE are collectively referred to herein as the "PARTIES."

2. PURPOSE

This MOU outlines the agreement between the PARTIES to work in partnership to develop the MoVal Learns - Mayor's Challenge program to assist with the completion rate for Moreno Valley residents that are enrolled in Moreno Valley College.

3. BACKGROUND

On January 12, 2017, the City of Moreno Valley and Moreno Valley College signed an interest letter agreeing to create a strategic partnership to further mutually beneficial Career and Technical Education (CTE), training, business outreach and student and workforce development opportunities.

Since that time, the PARTIES have worked together to attract higher paying jobs, increase the quality of life for residents, encourage local retention of home grown talent, encourage student achievement, increase college graduation rates and to incentivize businesses to promote the hiring of local graduates and work collaboratively in the following ways to achieve these ends:

1. Meet regularly to discuss program development, outreach opportunities and new initiatives;
2. Jointly conduct business outreach through the CITY's Momentum MoVal Business Visit and Business Roundtable programs;
3. Promote job opportunities and student services at the CITY's Moreno Valley Employment Resource Center (ERC);
4. Participate in and mutually support the COLLEGE's regional efforts to implement the California Community Colleges' Strong Workforce program;
5. Support the COLLEGE's CTE outreach efforts by participating in job fairs and the CTE Advisory Board;
6. Support the COLLEGE's College Promise program to help fund school costs for participants;
7. Support the CITY's Hire MoVal program by assisting to promote the Hire A Grad program, a local hire initiative that incentivizes local businesses to hire Moreno Valley graduates;
8. Collaborate together to identify and pursue grant opportunities;

9. Partner to promote the iMake Innovation Center (also known as the makerspace); and
10. In 2018, the CITY and COLLEGE received a \$100,000 grant from Bloomberg Philanthropies to develop the MoVal Learns program.

The CITY and COLLEGE enter into this MOU to build on the partnership and to further develop the MoVal Learns program by providing a stipend to Moreno Valley residents that are enrolled in Moreno Valley College in order to increase the graduation rate and completion of CTE programs.

4. PARTIES OBLIGATIONS

A. COLLEGE Obligations:

- a. Manage the enrollment and verification of Moreno Valley residents that are CTE students and meet the criteria as outline in Exhibit "A";
- b. Promote the program to potential CTE students and coordinate with faculty and staff to ensure student access to the program;
- c. Maintain a database of all student participants and track student outcomes;
- d. Provide an annual report describing outcomes and key data for students enrolled in the program;
- e. Provide a minimum of one update to the City per year on the program; and
- f. Support and actively seek grant and funding opportunities from state, local, federal and private sources.

B. CITY Obligations:

- a. Provide funding of \$100,000 per year to fund the program (two years of funding);
- b. Provide direct stipend disbursements to qualified CTE students as approved by the College;
- c. Develop marketing materials such as flyers, press releases and digital assets;
- d. Coordinate events related to the program such as kick-offs, trainings or workshops;
- e. Coordinate City-related events such as the State of the City;
- f. Coordinate any volunteer activities for students;
- g. Serve as a liaison between MoVal Learns, Moreno Valley College and the Moreno Valley business community;
- h. Support and actively seek grant and funding opportunities from state, local, federal and private sources; and
- i. Utilize CITY marketing and promotion avenues to promote the program.

5. COSTS

A. COLLEGE Not Obligated for Any Costs

The CITY acknowledges and agrees that the COLLEGE shall not be liable for any costs incurred by the CITY, including any of its affiliates in connection with the administration and/or implementation of this MOU or any related partnership or program activities.

The CITY further acknowledges and agrees that the COLLEGE shall not be liable in any way for payment of any costs, fees, wages or any other amounts to be paid to any party arising out of or related to this MOU.

B. CITY Not Obligated for Any Costs

The COLLEGE acknowledges and agrees that the CITY shall not be liable for any costs incurred by the COLLEGE, including any of its affiliates in connection with the administration and/or implementation of this MOU or any related partnership or program activities.

The COLLEGE further acknowledges and agrees that the CITY shall not be liable in any way for payment of any costs, fees, wages or any other amounts to be paid to any party arising out of or related to this MOU.

6. GENERAL TERMS

It is further mutually agreed by the PARTIES as follows:

A. Insurance

The PARTIES shall meet the insurance requirements attached hereto as Exhibit "A" or provide a certificate of self-insurance acceptable to the other party.

B. Indemnity; Hold Harmless

The PARTIES shall indemnify and hold harmless each other, their Agencies, Districts, Special Districts and Departments, their respective directors, officers, elected and appointed officials, employees, agents and representatives (individually and collectively hereinafter referred to as Indemnitees) from any liability whatsoever, based or asserted upon any acts, services, misconduct or obligations of the indemnifying party, including their respective officers, employees, subcontractors, agents or representatives arising out of or in any way relating to this MOU, including but not limited to property damage, bodily injury, or death or any other element of any kind or nature whatsoever arising

from the performance of that party, including their respective officers, employees, subcontractors, agents or representatives. The indemnifying party shall defend, at their sole expense, all costs and fees including, but not limited, to attorney fees, cost of investigation, defense and settlements or awards, the Indemnitees in any claim or action based upon such alleged acts or omissions.

With respect to any action or claim subject to indemnification herein, the indemnitor shall, at their sole cost, have the right to use counsel of their own choice and shall have the right to adjust, settle, or compromise any such action or claim without the prior consent of indemnitee; provided, however, that any such adjustment, settlement or compromise in no manner whatsoever limits or circumscribes the indemnitor's indemnification to Indemnitees as set forth herein.

The indemnitor's obligation hereunder shall be satisfied when the indemnitor has provided to indemnitee the appropriate form of dismissal relieving the indemnitee from any liability for the action or claim involved.

The specified insurance limits required in this MOU shall in no way limit or circumscribe the indemnitor's obligations to indemnify and hold harmless the Indemnitees herein from third party claims.

C. Alternative Dispute

The PARTIES agree that before either party commences any legal or equitable action, action for declaratory relief, suit, proceeding, or arbitration that the PARTIES shall first submit the dispute to mediation through a mutually acceptable professional mediator in Riverside County. Each party shall bear its own expenses and costs associated with the mediation. The cost of mediator shall be shared equally by the PARTIES.

D. Notices

Any and all notices sent or required to be sent under this MOU shall be mailed to the following addresses, or any other address provided by the PARTIES in writing; and are deemed delivered one (1) day after their deposit in the United States Mail, postage prepaid:

County: Moreno Valley College
16130 Lasselle Street
Moreno Valley, CA 92551
Attn: Dr. Melody Graveen, Dean of Instruction,
Career Technical Education

City: City of Moreno Valley

Attachment: MoVaLearns_MOU_Final_5-6-19 (3621 : MoVal Learns MOU)

Economic Development Department
14177 Frederick Street
Moreno Valley, CA, 92552
Attn: Mike Lee, Economic Development Director

E. Termination

Either party may terminate this MOU for any reason by giving written notice to the designated representative of the other party ninety (90) days prior to the expiration of this MOU. Except as otherwise provided herein, upon termination of this MOU, neither party shall have any obligation to other.

F. Legal Authority

Nothing in this MOU binds the CITY or COLLEGE to perform any action that is beyond its legal authority.

G. Conflict of Interest

No member, official or employee of the CITY or COLLEGE shall have any personal interest, direct or indirect, in this MOU nor shall any such member, official or employee participate in any decision relating to this MOU which affects his or her personal interest or the interests of any corporation, partnership or association in which he or she is directly or indirectly interested.

H. Confidentiality

- a. The CITY and COLLEGE shall not use for personal gain or make other improper use of privileged or confidential information which is acquired in connection with this MOU. The term "privileged or confidential information" includes but is not limited to: unpublished or sensitive technological or scientific information; medical, personnel, or security records; anticipated material requirements or pricing/purchasing actions; CITY or COLLEGE information or data which is not subject to public disclosure; CITY or COLLEGE operational procedures; and knowledge of selection of contractors, subcontractors or suppliers in advance of official announcement.
- b. The CITY and COLLEGE shall protect from unauthorized disclosure names and other identifying information concerning persons receiving services pursuant to this MOU, except for general statistical information not identifying any person. The CITY or COLLEGE shall not use such information for any purpose other than carrying out the obligations under this MOU. Both PARTIES shall promptly transmit in writing all third party requests for disclosure of such information.

Neither Party City shall disclose, except as otherwise specifically permitted by this MOU or by law, any such information to anyone. For purposes of this paragraph, identity shall include, but not be limited to, name, identifying number, symbol, or other identifying particular assigned to the individual, such as finger or voice print or a photograph.

I. Interpretation and Governing Law; Severability

This MOU and any dispute arising hereunder shall be governed and interpreted in accordance with the laws of the State of California. This MOU shall be construed as a whole according to its fair language and common meaning to achieve the objectives and purposes of the PARTIES hereto, and the rule of construction to the effect that ambiguities are to be resolved against the drafting party shall not be employed in interpreting this MOU, all PARTIES having been represented by counsel in the negotiation and preparation hereof.

Any legal action related to the performance or interpretation of this MOU shall be filed only in the Superior Court of the State of California located in Riverside, California, and the PARTIES waive any provision of law providing for a change of venue to another location. In the event any provision in this MOU is held by a court of competent jurisdiction to be invalid, void, or unenforceable, the remaining provisions will nevertheless continue in full force without being impaired or invalidated in any way.

J. No Third-Party Beneficiaries

This MOU is made and entered into for the sole protection and benefit of the PARTIES hereto and shall not create any rights in any third PARTIES, including, but not limited to any businesses or individuals participating in the MOU programs, or any affiliates. No other person or entity shall have any right of action based upon the provisions of this MOU.

K. Section Headings

The Section headings herein are for the convenience of the PARTIES only and shall not be deemed to govern, limit, modify or in any manner affect the scope, meaning or intent of the provisions or language of this MOU.

L. Compliance with Laws and Regulations

By executing this MOU, the PARTIES agree to comply with all applicable federal, state and local laws, regulations and ordinances.

M. Waiver

Any waiver by the PARTIES of any breach of any one or more of the terms of this MOU shall not be construed to be a waiver of any subsequent or other breach of the same or of any other term of this MOU. Failure on the part of the COLLEGE to require exact, full and complete compliance with any terms of this MOU shall not be construed as in any manner changing the terms or preventing the CITY from enforcement of the terms of this MOU.

N. Authority to Execute

The persons executing this MOU or exhibits attached hereto on behalf of the PARTIES to this MOU hereby warrant and represent that they have the authority to execute this MOU and warrant and represent that they have the authority to bind the respective PARTIES to this MOU to the performance of its obligations hereunder.

O. Amendments and Modifications

It is agreed that the rights, interests, understandings, agreements and obligations of the respective PARTIES pertaining to the subject matter of this MOU may not be amended, modified or supplemented in any respect except by a subsequent written instrument evidencing the express written consent of each of the PARTIES hereto and duly executed by the PARTIES.

P. Effective Date; Term

The term of this MOU shall commence on the date of the last signature below ("Effective Date") and shall continue for 24 months ("Term"), unless extended by written mutual agreement of the PARTIES or terminated earlier.

Q. Entire MOU

This MOU is intended by the PARTIES hereto as a final expression of their understanding with respect to the subject matter hereof and as a complete and exclusive statement of the terms and conditions thereof and supersedes any and all prior and contemporaneous agreements and understandings, oral or written, in connection therewith. Any amounts to or clarification necessary to this MOU shall be in writing and acknowledged by all PARTIES to the MOU.

[Signatures on Following Page]

[Remainder of Page Intentionally Blank]

Attachment: MoVaLearns_MOU_Final_5-6-19 (3621 : MoVal Learns MOU)

IN WITNESS WHEREOF, the PARTIES hereto have caused their duly authorized representatives to execute this MOU as of the dates written below.

“COLLEGE”

MORENO VALLEY COLLEGE, a community college in the State of California, by and through its Career and Technical Education Program

By: _____
Dr. Robin Steinback
President

Date: _____

“CITY”

CITY OF MORENO VALLEY, a local government agency located in Riverside County

By: _____
Dr. Yxstian A. Gutierrez
Mayor

Date: _____

APPROVED AS TO FORM

APPROVED AS TO FORM

Attachment: MoVaLearns_MOU_Final_5-6-19 (3621 : MoVal Learns MOU)

Exhibit A

MoVal Learns – Mayor’s Challenge Program						
Pilot Amount	\$100,000 per year for two years, starting in Fall 2019.					
Start Date	Fall Semester 2019 (Start date - August 26).					
Eligibility	<ol style="list-style-type: none"> 1. Residency: Must be a Moreno Valley resident (to be verified via MVC student records). 2. Age: Must be 18 years or older (must show government identification). 3. Student: Must be a student at Moreno Valley College enrolled in a minimum of 6 units and no more than 50 units completed (to be verified via MVC student records). 4. Career Track: Must be a Career and Technical Education (CTE) student. 5. Units: Must be a second year student with a minimum of 12 units completed. 6. Good Standing: Must have 2.0 GPA or higher. Must not be on Academic probation. 7. College Promise: Students who have previously completed the College Promise program will be given preference. 8. Enrollment: Must complete and sign all program registration documents. 9. Termination: City or College reserve the right to terminate any student at any time. 					
Parameters	<p>To assist 50 students per year at a minimum of \$250 per month.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Stipend Only \$250</td> <td style="text-align: center;">Fall and Spring Semester Only (8 months)</td> <td style="text-align: center;"> $\\$250/\text{month} \times 8 \text{ months/year} = \\$2,000/\text{year/student}$ $\\$2,000 \times 50 \text{ students/year} = \\$100,000$ </td> <td style="text-align: center;">\$100,000</td> <td style="text-align: center;">50</td> </tr> </table>	Stipend Only \$250	Fall and Spring Semester Only (8 months)	$\$250/\text{month} \times 8 \text{ months/year} = \$2,000/\text{year/student}$ $\$2,000 \times 50 \text{ students/year} = \$100,000$	\$100,000	50
Stipend Only \$250	Fall and Spring Semester Only (8 months)	$\$250/\text{month} \times 8 \text{ months/year} = \$2,000/\text{year/student}$ $\$2,000 \times 50 \text{ students/year} = \$100,000$	\$100,000	50		
Enrollment Process/Recruitment	College to approve and provide list of qualified CTE students. City to disburse funds directly to students.					
Payment Distribution	Monthly: September thru December and February thru May.					
Volunteer/Service Learning	Students must complete 20 hours of volunteer and community service at the college or City sponsored activity.					

Attachment: MoValLearns_MOU_Final_5-6-19 (3621 : MoVal Learns MOU)



Report to City Council

TO: Mayor and City Council

FROM: Michael L. Wolfe, P.E., Public Works Director/City Engineer

AGENDA DATE: June 4, 2019

TITLE: THIRD AMENDMENT TO THE AGREEMENT FOR ON-CALL CONSTRUCTION INSPECTION SERVICES WITH INTERWEST CONSULTING GROUP

RECOMMENDED ACTION

Recommendations:

1. Approve the Third Amendment to the On-Call Professional Consultant Services for Construction Inspection Services with Interwest Consulting Group;
2. Authorize the City Manager to execute the Third Amendment with Interwest Consulting Group, which includes executing subsequent Amendments or Extensions to the Agreement, and the authority to authorize associated purchase orders in accordance with the terms of the Agreement, subject to the approval of the City Attorney; and
3. Authorize the issuance of a change order to Purchase Order with Interwest Consulting Group from a not-to-exceed amount of \$215,000.00 to a not-to-exceed amount of \$315,000.00 (an increase of \$100,000.00 for additional inspection services).

SUMMARY

This report recommends approval of the Third Amendment to the Project Specific Agreement for On-Call Professional Consultant Services for Construction Inspection Services with Interwest Consulting Group to provide additional development related inspection services.

The proposed Third Amendment increases the contract amount to provide adequate coverage for inspection services. Development in residential, commercial, industrial and utility projects has continued to be busy. Due to the high demand for inspection

services, it is necessary to retain a consultant inspector in the Land Development Division for Fiscal Year (FY) 2019/20.

DISCUSSION

The City has contracted for professional services to meet increased demands during high construction periods in order to provide inspection services to utility companies, developers, and contractors in a timely manner. On March 20, 2018, the Public Works Department, Land Development Division entered into an agreement with Interwest Consulting Group for consultant inspection services and subsequently amended that agreement on July 10, 2018 and April 2, 2019. Due to the sustained development occurring in Moreno Valley, the demand for construction inspection requests has resulted in the need to retain a consultant inspector for FY 2019/20.

Currently, the City has five fulltime construction inspectors and one consultant inspector overseeing all public projects, private development projects, and utility company projects. With the continued activity in private development and utility projects, it is necessary to retain a consultant inspector to meet the inspection requests within the contractor's aggressive schedules.

Attached is a proposed Third Amendment to the Agreement, which increases the compensation amount by \$100,000.00. The agreement compensation amount currently is not to exceed \$215,000.00. The new not-to-exceed amount will be \$315,000.00. Increasing the inspection services contract amount will allow the City to respond to developer and utility inspection requests in a timely manner and meet their schedules.

ALTERNATIVES

1. Approve the recommended actions as presented in this staff report. *Staff recommends this alternative in order to accommodate all inspection requests by developers and utilities.*
2. Do not approve the recommended actions as presented in this staff report. *Staff does not recommend this alternative, as it would result in prioritizing inspections and possible development project delays.*

FISCAL IMPACT

The proposed Third Amendment includes a \$100,000 increase in compensation for inspection services. The demand for construction inspection services was anticipated as part of the FY 2019/20 budget. On May 7, 2019, City Council adopted the FY 2019/20 Operating Budget that included an increase in the Land Development Division's Professional Services expenditures (GL Account Number 1010-70-29-20410-620299) that accounted for this proposed increase. These costs have an offsetting revenue as inspection fees (GL Account Number 1010-70-29-20410-523010) collected from developers and utility companies that will fund the professional services account.

NOTIFICATION

N/A

PREPARATION OF STAFF REPORT

Prepared By:
Michael D. Lloyd, P.E.
Engineering Division Manager/Assistant City Engineer

Department Head Approval:
Michael L. Wolfe, P.E.
Public Works Director/City Engineer

CITY COUNCIL GOALS

Public Facilities and Capital Projects. Ensure that needed public facilities, roadway improvements, and other infrastructure improvements are constructed and maintained.

CITY COUNCIL STRATEGIC PRIORITIES

- 1. Economic Development
- 2. Public Safety
- 3. Library
- 4. Infrastructure
- 5. Beautification, Community Engagement, and Quality of Life
- 6. Youth Programs

Objective 4.2: Develop and maintain a comprehensive Infrastructure Plan to invest in and deliver City infrastructure.

ATTACHMENTS

- 1. Interwest Third Amendment to Agreement

APPROVALS

Budget Officer Approval	<u>✓ Approved</u>	5/23/19 8:51 AM
City Attorney Approval	<u>✓ Approved</u>	5/28/19 4:53 PM
City Manager Approval	<u>✓ Approved</u>	5/30/19 1:40 PM

**THIRD AMENDMENT TO AGREEMENT
FOR ON-CALL PROFESSIONAL CONSULTANT SERVICES
CONSTRUCTION INSPECTION SERVICES**

The Third Amendment to Agreement is by and between the CITY OF MORENO VALLEY, a municipal corporation, hereinafter referred to as “City,” and Interwest Consulting Group, a California corporation, hereinafter referred to as “Consultant.” This Third Amendment to Agreement is made and entered into effective on the date the City signs this Amendment.

RECITALS:

Whereas, the City and Consultant entered into an Agreement entitled “PROJECT SPECIFIC AGREEMENT FOR ON-CALL PROFESSIONAL CONSULTANT SERVICES CONSTRUCTION INSPECTION SERVICES,” hereinafter referred to as “Agreement,” dated March 20, 2018.

Whereas, the Consultant is providing temporary construction inspection services.

Whereas, the Agreement was amended on July 10, 2018 to increase the compensation amount for continued inspection services.

Whereas, the Agreement was further amended on April 2, 2019 to increase the compensation amount and extend the time for continued professional inspection services.

Whereas, it is desirable to further amend the Agreement to increase the compensation amount for professional consultant inspection services as is more particularly described in Section 1 of this Third Amendment.

THIRD AMENDMENT TO AGREEMENT FOR ON-CALL PROFESSIONAL CONSULTANT
SERVICES
CONSTRUCTION INSPECTION SERVICES

Whereas, it is desirable to enter into the Third Amendment to the Agreement to increase the compensation amount for additional inspection services by **\$100,000.00** (from \$215,000.00 to \$315,000.00) for the term of the Agreement.

SECTION 1 AMENDMENT TO ORIGINAL AGREEMENT:

1.1 The Agreement termination date of **June 30, 2020** is not extended by this Amendment, unless the termination date is further extended by an Amendment to the Agreement.

1.2 Exhibit "D" to the Agreement is hereby further amended by increasing the compensation amount for additional inspection services by \$100,000.00.

1.3 The total "Not-to-Exceed" fee for this contract is \$315,000.00 (\$50,000.00 for the original Agreement plus \$100,000.00 for the First Amendment to Agreement plus \$65,000.00 for the Second Amendment to Agreement plus \$100,000.00 for the Third Amendment to Agreement).

SECTION 2

2.1 Except as otherwise specifically provided in this Amendment, all other terms and conditions of the Agreement shall remain in full force and effect.

SIGNATURE PAGE TO FOLLOW

THIRD AMENDMENT TO AGREEMENT FOR ON-CALL PROFESSIONAL CONSULTANT SERVICES
CONSTRUCTION INSPECTION SERVICES

IN WITNESS HEREOF, the parties have each caused their authorized representative to execute this Agreement.

City of Moreno Valley

Interwest Consulting Group

By: _____

By: _____

Thomas M. DeSantis, City Manager

Title: _____

(President or Vice President)

Date: _____

Date: _____

INTERNAL USE ONLY

APPROVED AS TO FORM:

City Attorney

Date

By: _____

Title: _____

(Corporate Secretary)

Date: _____

RECOMMENDED FOR APPROVAL:

Department Head

Date

Attachment: Interwest Third Amendment to Agreement (3619 : THIRD AMENDMENT TO THE AGREEMENT FOR ON-CALL CONSTRUCTION)



Report to City Council

TO: Mayor and City Council

FROM: Michael L. Wolfe, P.E., Public Works Director/City Engineer

AGENDA DATE: June 4, 2019

TITLE: TR 24203 – REQUEST FOR TIME EXTENSION FOR FULL ROAD CLOSURE OF LAWLESS ROAD FROM PIGEON PASS ROAD TO SHADOW MOUNTAIN DRIVE WITH A REOPEN DATE ON AUGUST 6, 2019. DEVELOPER – KB HOME COASTAL, INC.

RECOMMENDED ACTION

Recommendations:

1. Approve the request for time extension for the existing full road closure of Lawless Road from Pigeon Pass Road to Shadow Mountain Drive for the reconstruction of Lawless Road with a reopen date on August 6, 2019.
2. Authorize the Public Works Director/City Engineer to approve a one-time extension, if needed, of the road closure for a period not to exceed 14 calendar days.

SUMMARY

On February 19, 2019, the City Council approved a road closure for Lawless Road between Pigeon Pass Road and Shadow Mountain Drive. The purpose of the road closure is for the reconstruction of Lawless Road as part of the development of 97 single-family residential lots on the north and south sides of Lawless Road between Pigeon Pass Road and Shadow Mountain Drive. The developer, KB Home Coastal, Inc., has requested an extension of time for the existing road closure due to inclement weather delays and unforeseen geotechnical conditions.

DISCUSSION

The City Council approved an 84-day road closure of Lawless Road from February 27, 2019 through May 21, 2019. In addition, the City Council authorized the City Engineer

for a one-time extension of the road closure not to exceed 14 calendar days (June 4, 2019). The purpose of the road closure is for major improvement work including, but not limited to, roadway excavation and raising the street grade by approximately four (4) feet, removal of existing asphalt concrete, the installation of storm drain lines, laterals, catch basins, sewer line, water line, street lights, asphalt base, asphalt concrete, sidewalk, curb & gutter, and striping.

The roadwork cannot be completed prior to June 4 due to inclement weather and unforeseen geotechnical conditions. Therefore, KB Home Coastal, Inc. is requesting an extension of the existing full road closure of Lawless Road between Pigeon Pass Road and Shadow Mountain Drive in order to complete the construction. During the existing road closure local and emergency vehicle access will be maintained. It is anticipated that the road will be open to traffic on or before August 6, 2019. The road closure time extension will not adversely affect the ingress or egress of any of the neighboring properties and the approved detour will be maintained as shown in Attachment 2. If approved, the developer will be required to contact/notify all potentially affected property owners of the change in dates.

In case the developer encounters any additional unforeseen issues during the construction of the improvements, staff is requesting the City Council authorize the City Engineer approval authority for an extension of the road closure dates, up to 14 calendar days.

Approval of the recommended actions will support Objective 4.2 of the Momentum MoVal Strategic Plan, "Develop and maintain a comprehensive infrastructure plan to invest and deliver City infrastructure."

ALTERNATIVES

1. Approve the recommended actions as presented in this staff report. *Staff recommends this alternative as it allows the reconstruction of Lawless Road to be completed in a safe and timely manner.*
2. Do not approve the recommended actions as presented in this staff report. *Staff does not recommend this alternative as it would result in the reopening of an incomplete street, would prolong the construction schedule, and may result in an ineffective and uncertain work environment.*

FISCAL IMPACT

The contractor will be responsible for all costs associated with this proposal.

NOTIFICATION

The approved traffic control/detour plan requires the contractor to notify the Post Office, Police, Fire Department, Ambulance Services, Riverside Transit Agency, Waste

Management, and affected businesses and residents. The public is notified by special roadside signage showing the dates of closure and detour signs.

PREPARATION OF STAFF REPORT

Prepared By:
Vince Girón
Associate Engineer

Department Head Approval:
Michael L. Wolfe, P.E.
Public Works Director/City Engineer

Concurred By:
Michael D. Lloyd, P.E.
Engineering Division Manager/Assistant City Engineer

Concurred By:
Eric Lewis
Transportation Division Manager/
City Traffic Engineer

CITY COUNCIL GOALS

Public Safety. Provide a safe and secure environment for people and property in the community, control the number and severity of fire and hazardous material incidents, and provide protection for citizens who live, work and visit the City of Moreno Valley.

CITY COUNCIL STRATEGIC PRIORITIES

- 1. Economic Development
- 2. Public Safety
- 3. Library
- 4. Infrastructure
- 5. Beautification, Community Engagement, and Quality of Life
- 6. Youth Programs

Objective 4.2: Develop and maintain a comprehensive Infrastructure Plan to invest in and deliver City infrastructure.

ATTACHMENTS

- 1. Vicinity Map - TR 24203 Road Closure Extension
- 2. Detour Map - TR 24203 Road Closure Time Extension
- 3. GIS Ortho Map - TR 24203 - Lawless Road Closure

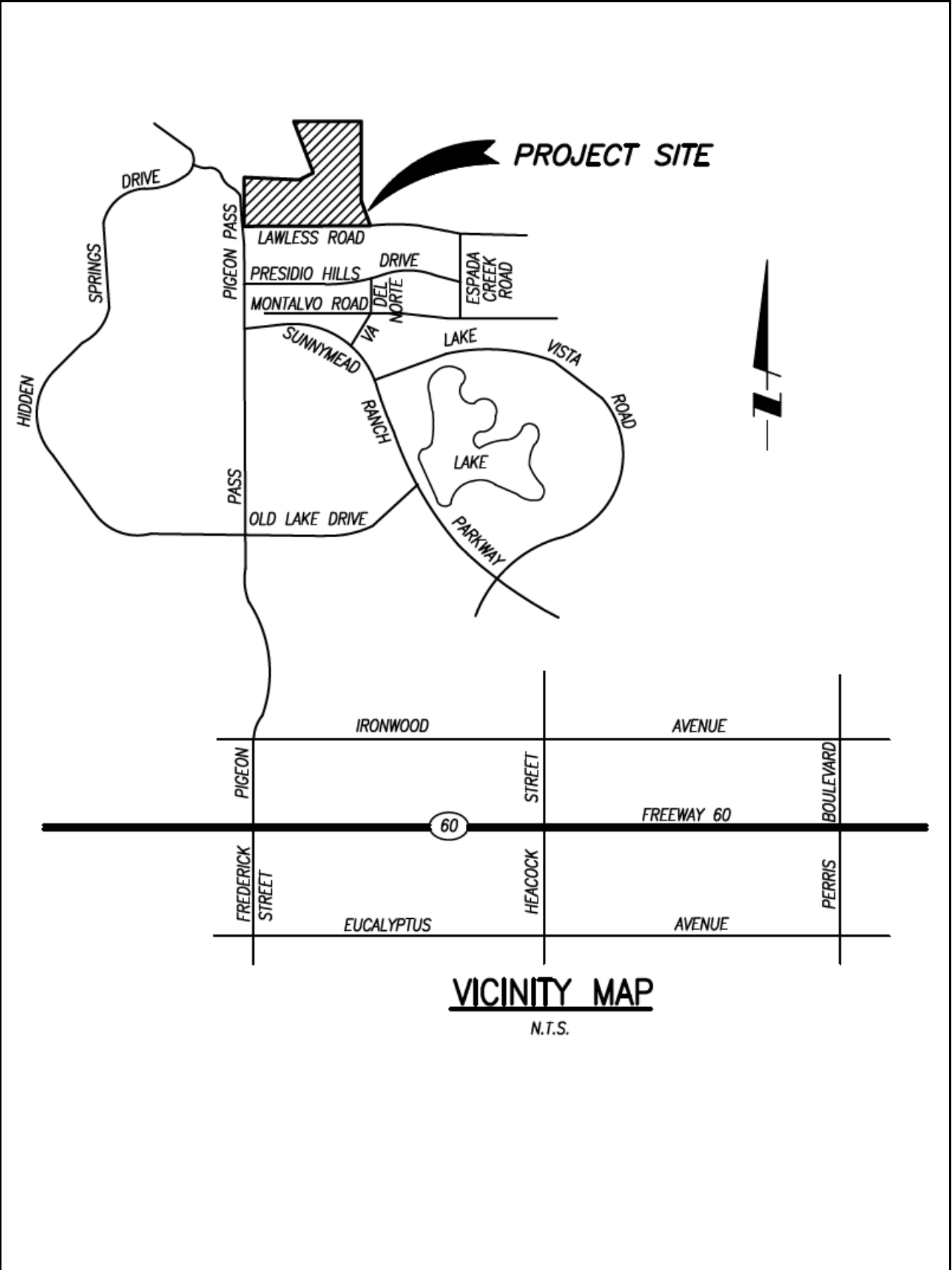
APPROVALS

Budget Officer Approval	<u>✓ Approved</u>	5/28/19 11:21 AM
City Attorney Approval	<u>✓ Approved</u>	5/28/19 4:50 PM

City Manager Approval

✓ Approved

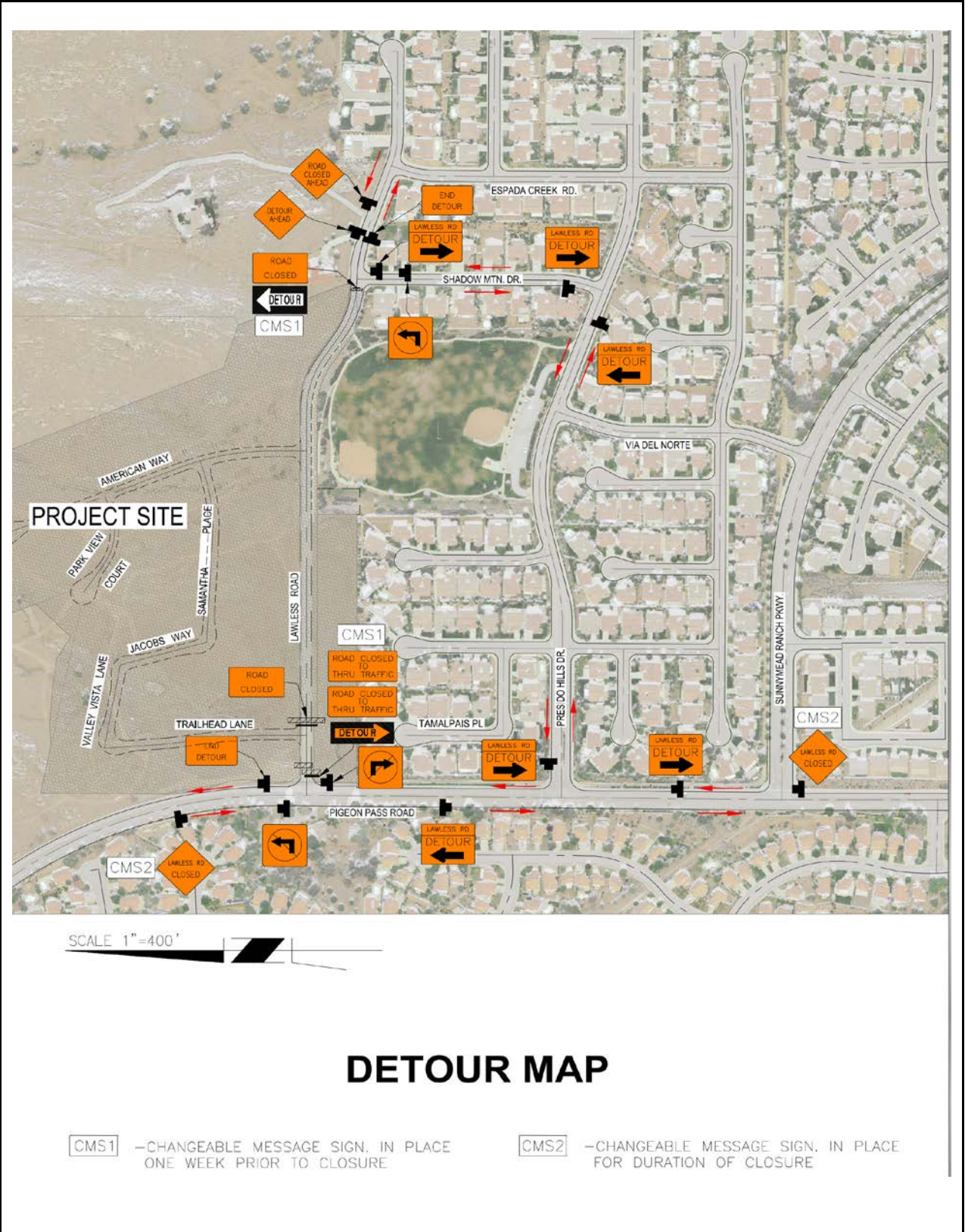
5/30/19 1:39 PM



CITY OF MORENO VALLEY
 PUBLIC WORKS DEPARTMENT - LAND DEVELOPMENT

TR 24203
 Road Closure Extension

Attachment: Vicinity Map - TR 24203 Road Closure Extension (3618 : TR 24203 - REQUEST TO EXTEND FULL ROAD CLOSURE OF L)

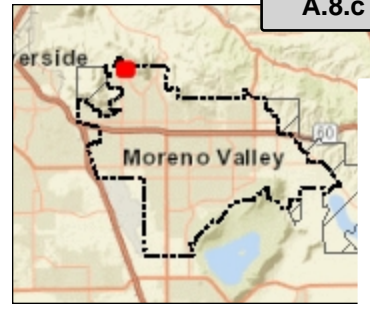


CITY OF MORENO VALLEY
PUBLIC WORKS DEPARTMENT - LAND DEVELOPMENT

TR 24203
Road Closure Extension

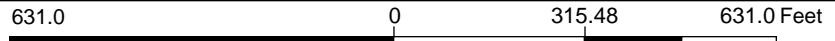
Attachment: Detour Map - TR 24203 Road Closure Time Extension (3618 : TR 24203 - REQUEST TO EXTEND FULL ROAD CLOSURE OF L)

TR 24203 - LAWLESS ROAD CLOSURE EXTENSION



Legend

- Public Facilities
 - Public Facilities
 - ★ Fire Stations
- Road Labels
- Parcels
- ⊞ City Boundary
- ⊞ Sphere of Influence



WGS_1984_Web_Mercator_Auxiliary_Sphere

Print Date: 2/6/2019

DISCLAIMER: The information shown on this map was compiled from the City of Moreno Valley GIS and Riverside County GIS. The land base and facility information on this map is for display purposes only and should not be relied upon without independent verification as to its accuracy. Riverside County and City of Moreno Valley will not be held responsible for any claims, losses or damages resulting from the use of this map.

Notes

Attachment: GIS Ortho Map - TR 24203 - Lawless Road Closure (3618 : TR 24203 - REQUEST TO EXTEND



Report to City Council

TO: Mayor and City Council

FROM: Martin Koczanowicz, City Attorney

AGENDA DATE: June 4, 2019

TITLE: ORDINANCE AMENDING CITY COUNCIL
COMPENSATION

RECOMMENDED ACTION

Recommendation:

Introduce Ordinance amending City Council compensation by title only, conduct first reading and schedule the second reading and adoption for the next regularly scheduled Council meeting.

SUMMARY

City Council has not adjusted its compensation in 12 years. This report recommends consideration of an Ordinance which, if adopted, would adjust the City Council compensation in accordance with applicable laws.

DISCUSSION

Under Government Code Section 36516, the City Council's compensation is based on the population of the city they serve. City Council's initial compensation was lawfully established based upon that formula. The last adjustment to City Council's compensation was adopted in 2006 and became effective January 1st, 2007. State law provides for a 5% per year adjustment that can be adopted by an Ordinance of the City Council. State law also provides that, if adopted, any adjustment does not become effective until a re-election of the existing Council Member or election of a new one. In short, absent an unexpected vacancy filled by special election, the adjustment would become effective in January of 2021.

Attached Ordinance provides for an amendment to the Municipal Code Section 2.04.050 which would change the City Council compensation in accordance with the State law provisions.

ALTERNATIVES

1. Introduce and conduct first reading of Ordinance --- by title only and schedule the second reading and adoption for the next regular meeting of the Council.
2. Take no action on the proposed Ordinance.

FISCAL IMPACT

If adopted, the additional compensation would be included in the amended budget for FY2020-21.

NOTIFICATION

Agenda was posted in accordance with the Brown Act.

PREPARATION OF STAFF REPORT

Prepared by:
Martin D. Koczanowicz
City Attorney

CITY COUNCIL GOALS

None

CITY COUNCIL STRATEGIC PRIORITIES

1. Economic Development
2. Public Safety
3. Library
4. Infrastructure
5. Beautification, Community Engagement, and Quality of Life
6. Youth Programs

ATTACHMENTS

1. Ordinance Council comp2019final

APPROVALS

Budget Officer Approval	<u> ✓ Approved </u>	5/30/19 2:09 PM
City Attorney Approval	<u> ✓ Approved </u>	5/30/19 12:58 PM
City Manager Approval	<u> ✓ Approved </u>	5/30/19 2:30 PM

ORDINANCE NO.

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, AMENDING CHAPTER 2.04 OF TITLE 2 OF THE CITY OF MORENO VALLEY MUNICIPAL CODE, RELATING TO COMPENSATION AND REIMBURSEMENT FOR COUNCIL MEMBERS

WHEREAS, the City Council has not adjusted its compensation since it was established at \$1,101.00 per month, twelve years ago; and

WHEREAS, pursuant to Government Code Section 36516 the City Council may adjust its compensation by an amount not to exceed 5 percent for each calendar year from the operative date of the last adjustment.

The City Council of the City of Moreno Valley does therefore ordain as follows:

SECTION 1. PRIOR ENACTMENTS REPEALED:

All prior enactments of the City Council, which are in conflict with this Ordinance, are hereby repealed, the repeal to be effective only upon the effective date of this Ordinance.

SECTION 2. MUNICIPAL CODE CHAPTER 2.04 AMENDMENTS:

Section 2.04.050 of Chapter 2.04 of the City of Moreno Valley Municipal Code is hereby repealed in its entirety and replaced as follows:

"2.04.050 Compensation and reimbursement.

Pursuant to §36516 of the California Government Code, as amended, compensation shall be paid to each member of the city council in the amount set forth in the schedule of such section. More particularly, the amount of compensation to be paid monthly to each member of the city council shall be in the sum of one thousand seven hundred sixty two dollars (\$1,762.00). The compensation prescribed herein is and shall be exclusive of any amounts payable to each member of the council as reimbursement for actual and necessary expenses incurred by him or her in the performance of official duties for the city; and, accordingly, each member of the council shall receive reimbursement for such actual and necessary expenses incurred in the performance of official duties for the city, pursuant to the provisions of §36514.5 of the Government Code, as amended from time to time. Such reimbursement shall be as established by a policy resolution adopted by the city council."

SECTION 3. EFFECT OF ENACTMENT:

Except as specifically provided herein, nothing contained in this ordinance shall be deemed to modify or supersede any prior enactment of the City Council which addresses the same subject addressed herein.

SECTION 4. NOTICE OF ADOPTION:

Within fifteen days after the date of adoption hereof, the City Clerk shall certify to the adoption of this ordinance and cause it to be posted in three public places within the city.

SECTION 5. SEVERANCE CLAUSE

If any section, subsection, subdivision, paragraph, sentence, clause, or phrase of this Ordinance or any part thereof is for any reason held to be in violation of the law, such decision shall not affect the validity of the remaining portion of this Ordinance or any part thereof. The City Council hereby declares that it would have passed each section, subsection, subdivision, paragraph, sentence, clause, or phrase thereof, irrespective of the fact that any one or more sections, subsections, subdivisions, paragraphs, sentences, clauses or phrases be declared in violation of the law.

SECTION 6. EFFECTIVE DATE:

Pursuant to state law, this ordinance shall take effect January 1, 2021.

INTRODUCED at a regular meeting of the City Council on _____ and PASSED, APPROVED, and ADOPTED by the City Council on _____ by the following roll call vote, to wit:

AYES:

NOES:

ABSENT:

ABSTAIN:

Dr. Yxstian Gutierrez, Mayor

ATTEST:

Pat Jacquez-Nares, City Clerk

APPROVED AS TO FORM:

Martin D. Koczanowicz, City Attorney

Attachment: Ordinance Council comp2019final [Revision 1] (3637 : ORDINANCE AMENDING CITY COUNCIL COMPENSATION)

3

Ordinance
Date adopted:

APPROVED AND ADOPTED this 18th day of June, 2019.

Attachment: Ordinance Council comp2019final [Revision 1] (3637 : ORDINANCE AMENDING CITY COUNCIL COMPENSATION)

4

Ordinance
Date adopted:



Report to City Council

TO: Mayor and City Council

FROM: David Lelevier,

AGENDA DATE: June 4, 2019

TITLE: APPROVAL TO USE ASSET FORFEITURE FUNDS TO PURCHASE AN UNMANNED AIRCRAFT SYSTEM IN FY 2019-20

RECOMMENDED ACTION

Recommendations:

1. Authorize the police department to purchase one new DJI Mavic 2 Enterprise unmanned aircraft system/vehicle (UAS/UAV) to utilize in the Moreno Valley Police Traffic Bureau for collision reconstruction and documentation. The total cost for the UAV is \$3,177.55. (UAV \$2,949.00 plus \$228.55 tax.)
2. Authorize the Police Department to purchase four Mavic 2 Enterprise Intelligent Flight Batteries for \$599.09 (\$556 for batteries, plus \$43.09 sales tax).
3. Authorize the Police Department to purchase one CrystalSky Ultra Bright UAV camera viewing tablet for \$1,049.63 (\$974.130 plus \$75.50 sales tax).
4. Authorize the Police Department to purchase UAV support equipment including a Lume Cube DJI Mavic 2 lighting kit, Mavic II Enterprise Fly More Kit, a DJI Battery Charging Hub, an Fstop Labs Parallel battery charger, a DJI Mavic protector case and four 256gb SanDisk micro SD storage cards for \$1,103.30 (\$1,023.94 plus \$73.36 tax.)
5. Authorize a budget adjustment of \$6,480 (\$5,503.07 equipment, \$426.50 tax and \$550.30 estimated shipping) to the General Fund (1010) Police Asset Forfeiture revenue and expenditure accounts.

SUMMARY

This report recommends the City Council authorize the Moreno Valley Police

Department to purchase the following equipment for \$6,480:

- (1) DJI Mavic 2 Enterprise Dual Drone
- (4) DJI Mavic 2 Enterprise Intelligent Flight Batteries
- (1) CrystalSky Ultra Bright UAV camera viewing tablet
- (1) Lume Cube DJI Mavic 2 lighting kit
- (1) DJI Mavic Enterprise Fly More Kit
- (1) DJI Battery Charging Hub
- (1) Fstop Labs Parallel battery charger
- (1) DJI Mavic protector case
- (4) SanDisk digital storage cards

UAS technology allows for high resolution photographs and orthomosaics which can be incorporated into the Traffic Bureau's Faro scanner for a three-dimensional, high resolution traffic reconstruction which is accepted by criminal and civil courts of law.

DISCUSSION

Unmanned Aircraft System Technology

The Moreno Valley Police Department currently does not operate an unmanned aircraft system.

In 2018, the Police Department investigated 696 injury traffic collisions, of which 7 were fatal traffic collisions, 28 were severe injury traffic collisions, 158 were collisions causing visible injury and the remaining collisions resulted in complaint of pain or non-visible injuries. In the first five months of 2019, the Police Department investigated six fatal traffic collisions. Currently the Moreno Valley Traffic Reconstruction Team is utilizing the Faro 3D Laser scanner and photographs from the Riverside County Sheriff's Department Forensic Bureau. The UAV would supplement both of these evidence and photograph data collection methods by providing digital 4K resolution aerial photography currently only possible by use of a helicopter.

By meshing the data collected by the Faro 3D scanner and the data collected by the UAV, enhanced 3D models of collision reconstructions can be generated. The data collected by the UAV when integrated with reconstruction software is as accurate as commercial survey total stations. These 3D models have been successfully introduced and accepted in both civil and criminal trials to give juries a visual representation of the scene.

Using a UAV to collect data is extremely cost efficient and can save time when compared to traditional methods. In minutes, it can capture hundreds of aerial photographs that can be stitched together to provide a bird's eye view (Orthomosaic) of the scene in high resolution.

The Riverside County Sheriff's Department has operated a pilot UAS program since June 2016. The Federal Aviation Administration has issued the Riverside County

Sheriff’s Department two Certificate of Waiver or Authorization to fly UAVs in restricted airspace, including airspace designated for March Air Reserve Base.

Moreno Valley Motor Sergeant Brian De Marco is licensed by the FAA as a commercial Part 107 remote UAV pilot. He is also authorized by the FAA to certify Department members to fly UAVs in a commercial capacity for public safety.

This topic was presented to the Public Safety Sub-Committee on May 21, 2019.

ALTERNATIVES

Council has the following alternatives:

1. Authorize the Police Department to purchase an unmanned aircraft system and supporting equipment utilizing \$6,480 of Asset Forfeiture funds to acquire this equipment and approve budget adjustments as set forth in the Fiscal Impact section of this report. *Staff recommends this alternative.*

2. Do not authorize the Police Department to purchase an unmanned aircraft system and supporting equipment utilizing \$6,480 of Asset Forfeiture funds to acquire this equipment and approve budget adjustments as set forth in the Fiscal Impact section of this report. *Staff does not recommend this alternative.*

FISCAL IMPACT

The Moreno Valley Police Department is requesting City Council to approve the use of asset forfeiture funding held by the County of Riverside to purchase a unmanned aircraft system and supporting equipment. Funding for this purchase will, if approved, not have an impact on the City’s General Fund in FY 2019/20. The requested FY 2019/20 budget appropriation will be as follows:

Description	Fund	GL Account No.	Type (Rev/Exp)	FY 19/20 Budget	FY 19/20 Proposed Amendment	FY 19/20 Amended Budget
Asset Forfeiture Revenue (from County)	Gen. Fund	1010-60-65-40010-480150	Rev	\$0	\$6,480	\$6,480
Oper Mtrls – Furn & Equip	Gen. Fund	1010-60-67-40210-630330	Exp	\$0	\$6,480	\$6,480

PREPARATION OF STAFF REPORT

Prepared By:
Brian DeMarco
Sergeant

Department Head Approval:
Dave Lelevier
Acting Police Chief

Concurred By:
Felicia London
Public Safety Contracts Administrator

CITY COUNCIL GOALS

None

CITY COUNCIL STRATEGIC PRIORITIES

- 1. Economic Development
- 2. Public Safety
- 3. Library
- 4. Infrastructure
- 5. Beautification, Community Engagement, and Quality of Life
- 6. Youth Programs

ATTACHMENTS

- 1. Drone Quote Summary

APPROVALS

Budget Officer Approval	<u>✓ Approved</u>	5/23/19 8:39 AM
City Attorney Approval	<u>✓ Approved</u>	5/28/19 10:12 AM
City Manager Approval	<u>✓ Approved</u>	5/30/19 1:34 PM

PRODUCT COST SUMMARY

Vendor	Description	Cost
Adorama.com	Mavic II Enterprise Dual Drone	\$2,949.00
DJI.com	Mavic II Fly More Kit - This kit includes two Intelligent Flight Batteries, a Mavic 2 Car Charger, Battery Charging Hub, Battery to Power Bank Adapter, Low-Noise Propellers, and a Mavic 2 Shoulder Bag, providing you with comprehensive support during shooting.	\$379.00
DJI.com	Mavic 2 Intelligent Flight Battery - This battery has a capacity of up to 59.29 Wh and provides a maximum flight time of 31 minutes. With a built-in DJI Intelligent Battery Management System, battery status is monitored. \$139.00 x 4 =	\$556.00
lumecube.com	DJI Mavic 2 Lighting Kit – This lighting kit allows for the drone to capture images visible from 3 miles away. It has 7 different strobe speeds at 3,000 lumens. Allows anti-collision sensors to work in low light.	\$189.99
DJI.com	Mavic 2 Battery Charging Hub - This enhances efficiency by charging batteries in sequence according to their remaining power level, with more fully-charged batteries receiving power first.	\$89.00
Fstop-labs.com	Mavic II Parallel Battery Charger – Will charge 3 batteries at the same time as well as 2 USB devices. It will take approximately 60 minutes to charge all 3 batteries at the same time. Compatible use whenever you travel with 120v or 220v compatible.	\$44.99
bhphotovideo.com	CrystalSky Tablet	\$974.13
bhphotovideo.com	UAV Transport Case	\$149.00
bhphotovideo.com	256GB SanDisk Memory Card - With the 256GB Premium Edition, your content moves fast. Now you can transfer up to 1,200 photos in just one minute with data transfer rates up to 95 MB/s. \$42.99 x 4 = \$171.96	\$171.96
Sub-Total		\$5,503.07
Shipping	10% Shipping Contingency	\$550.30
Sales Tax (7.75%)		\$426.50
Grand Total		\$6,479.87

PRODUCT COST DETAIL

Vendor	Description	Cost
Adorama.com	Mavic II Enterprise Dual Drone	\$2,949.00
	Sales Tax (7.75%)	\$228.55
Grand Total		\$3,177.55



DJI Mavic 2 Enterprise DUAL Universal Edition with Enterprise Shield Basic Protection

SKU: DJIM2ENTDUAL MFR: CP.EN.00000107.01
 ★★★★★ (3) reviews 4 Questions Answered [ASK a Question](#)

Includes Free Value



Our Price
\$2,949.00

Get 2,949 Reward Points
 As low as \$246.00/mo for 12 months**

1 **ADD TO CART** [Add to wish list](#)
[Sale alert](#)

On Backorder
 Expected to arrive by 06/15/2019

Free Shipping [See all shipping options](#)



Vendor	Description	Cost
DJI.com	Mavic II Fly More Kit - This kit includes two Intelligent Flight Batteries, a Mavic 2 Car Charger, a Battery Charging Hub, a Battery to Power Bank Adapter, Low-Noise Propellers, and a Mavic 2 Shoulder Bag, providing you with comprehensive support during shooting.	\$379.00
	Sales Tax (7.75%)	\$29.37
Grand Total		\$408.37

Mavic II Enterprise Fly More Kit



Mavic 2 Fly More Kit

USD \$379 ~~USD \$584~~

You Save: USD \$205 Shipping: Free

- Multiple Intelligent Flight Batteries for a longer flight
- Charge batteries while driving
- Turn your batteries into power banks
- Low-noise propellers for quieter flight
- A versatile shoulder bag to carry everything

1 **ADD TO CART**

Estimated to ship 3-5 business days after payment confirmation.

Attachment: Drone Quote Summary (3611 : APPROVAL TO USE ASSET FORFEITURE FUNDS TO PURCHASE AN UNMANNED AIRCRAFT

Vendor	Description	Cost
DJI.com	Mavic 2 Intelligent Flight Battery - This battery has a capacity of up to 59.29 Wh and provides a maximum flight time of 31 minutes. With a built-in DJI Intelligent Battery Management System, battery status is monitored. \$139.00 ea. x 4 = \$556.00	\$556.00
Sales Tax (7.75%)		\$43.09
Grand Total		\$599.09

Mavic 2 Intelligent Flight Battery
USD \$139



- High-capacity LiPo cells
- 31 Minutes of flight time
- Multiple intelligent battery protection features

Related Products



Mavic 2 Fly More Kit
USD \$379
The perfect sidekick for your journey.

[ADD TO CART](#)



Vendor	Description	Cost
lumecube.com	DJI Mavic 2 Lighting Kit – This lighting kit allows for the drone to capture images visible from 3 miles away. It has 7 different strobe speeds at 3,000 lumens. Allows anti-collision sensors to work in low light.	\$189.99
Sales Tax (7.75%)		\$14.72
Grand Total		\$204.71

DJI MAVIC 2 LIGHTING KIT FOR PRO & ZOOM

\$ 189.99

QTY

[ADD TO CART](#)

IN STOCK



Attach Lighting to your DJI Mavic 2 Pro or Mavic 2 Zoom for either creative or commercial purposes.

- [VIDEO](#)
- [SPECS](#)
- [WHAT'S IN THE BOX](#)
- [INSTALLATION GUIDE](#)

Attachment: Drone Quote Summary (3611) : APPROVAL TO USE ASSET FORFEITURE FUNDS TO PURCHASE AN UNMANNED AIRCRAFT

Vendor	Description	Cost
DJI.com	Mavic 2 Battery Charging Hub - This enhances efficiency by charging batteries in sequence according to their remaining power level, with more fully-charged batteries receiving power first.	\$89.00
Sales Tax (7.75%)		\$6.90
Grand Total		\$95.90

Store / Mavic Series / Mavic 2 Series / Mavic 2 Battery Charging Hub




Mavic 2 Battery Charging Hub

USD \$89

Shipping: Free

- Charge up to four batteries in sequence
- Foldable and portable design

Related Products



Mavic 2 Car Charger
USD \$79
A must-have on a road trip.

[ADD TO CART](#)

Vendor	Description	Cost
Fstop-labs.com	Mavic II Parallel Battery Charger – Will charge 3 batteries at the same time as well as 2 USB devices. It will take approximately 60 minutes to charge all 3 batteries at the same time. Compatible use whenever you travel with 120v or 220v compatible.	\$44.99
Sales Tax (7.75%)		\$3.49
Grand Total		\$48.48



MAVIC 2 BATTERY CHARGER, FSTOP LABS ACCESSORIES FOR DJI MAVIC 2 PRO ZOOM, 5 IN 1 RAPID PARALLEL BATTERY CHARGING HUB STATION, 3 BATTERIES, 2 USB PORTS

SALE \$ 44.99 ~~\$ 49.99~~

QUANTITY

- 1 + [ADD TO CART](#)

MAVIC 2 BATTERY CHARGER, ACCESSORIES FOR DJI MAVIC 2 PRO ZOOM, 5 IN 1 RAPID PARALLEL BATTERY CHARGING HUB STATION, 3 BATTERIES, 2 USB PORTS

Attachment: Drone Quote Summary (3611) : APPROVAL TO USE ASSET FORFEITURE FUNDS TO PURCHASE AN UNMANNED AIRCRAFT

Vendor	Description	Cost
bhphotovideo.com	CrystalSky Tablet	\$974.13
Sales Tax (7.75%)		\$75.50
Grand Total		\$1,049.63

DJI CrystalSky 7.85" Ultra-Bright Monitor B&H # DJCS785U • MFR # CP.BX.000224



In Stock
Order **now** to ship **tomorrow**
Free Expedited Shipping

Product Highlights

- Bright 2000 cd/m² LCD Screen
- 2048 x 1536 Screen Resolution
- 4K HDMI Output
- Video Recording to Dual microSD Cards

Show more

★★★★☆ 3.5 (30) | 13 Questions, 37 Answers

Version: 7.85

5.5" High-Brightness | 7.85" High-Brightness

7.85" Ultra-Bright

1 QTY **\$974.13**

See financing options >

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Used from \$800.00

True Know-How
Ask Our Experts
Live Chat | 800.606.6969
Request Callback | Email

Vendor	Description	Cost
bhphotovideo.com	UAV Transport Case	\$149.00
Sales Tax (7.75%)		\$11.55
Grand Total		\$160.55

DJI Protector Hard Case for Mavic 2 Enterprise B&H # DJMAV2ENTP6 • MFR # CP.EN.0000124.01



In Stock
Order **now** to ship **tomorrow**
Free Expedited Shipping

Product Highlights

- For DJI Mavic 2 Enterprise
- Holds Everything in the Fly More Kit
- Rugged and Impact-Resistant Exterior
- IP67 Dustproof and Water-Resistant

Show more

★★★★★ 5.0 (1) | Q&A

1 QTY **\$149.00**

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True Know-How
Ask Our Experts
Live Chat | 800.606.6969
Request Callback | Email



+ Show More

Attachment: Drone Quote Summary (3611 : APPROVAL TO USE ASSET FORFEITURE FUNDS TO PURCHASE AN UNMANNED AIRCRAFT

Vendor	Description	Cost
bhphotovideo.com	256GB SanDisk Memory Card - With the 256GB Premium Edition, your content moves fast. Now you can transfer up to 1,200 photos in just one minute with data transfer rates up to 95 MB/s. \$42.99 x 4 = \$171.96	\$171.96
Sales Tax (7.75%)		\$13.33
Grand Total		\$185.29

SanDisk 256GB Ultra UHS-I microSDXC Memory Card (Class 10)

B&H # SAUMSD256GB • MFR # SDSQUNI-256G-AN6MA

SanDisk
Authorized Dealer



In Stock
Order now to ship tomorrow
Free Shipping for this Item

Eligible for Free Expedited Shipping on orders over \$49

Product Highlights

- 256GB Storage Capacity
- Class 10 / UHS-I
- Max. Read Speed: 95 MB/s
- Water / Temperature / Shock Proof

Show more

★★★★★ 5.0 (57) | 18 Questions, 42 Answers

Capacity: 256GB

200GB | 256GB

Price: \$55.99
Instant Savings: \$13.00

1 QTY **\$42.99**

Add to Cart

Send with SmartGift

Add to Wish List

True Know-How
Ask Our Experts
Live Chat: 800.606.6969
Request Callback: Email

Attachment: Drone Quote Summary (3611 : APPROVAL TO USE ASSET FORFEITURE FUNDS TO PURCHASE AN UNMANNED AIRCRAFT



Report to City Council

TO: Mayor and City Council

FROM: David Lelevier,

AGENDA DATE: June 4, 2019

TITLE: AWARD A FOUR YEAR CONTRACT TO STENO SOLUTIONS TRANSCRIPTION SERVICES FOR \$40,000 PER FISCAL YEAR, FOR AN AMOUNT NOT TO EXCEED \$160,000 FOR LIFE OF CONTRACT

RECOMMENDED ACTION

Recommendations:

1. Approve and award a four year contract for an amount not to exceed \$160,000 to Steno Solutions Transcription Services Inc. to provide transcription of dictation formatted as a MS Word document for the Moreno Valley Police Department from FY19/20 through FY22/23.
2. Authorize the Moreno Valley Police Department to execute a Purchase Order to Steno Solutions Transcription Services Inc. for \$40,000 per fiscal year, from General Fund Account No. 1010-60-65-40010-625099.

SUMMARY

This report recommends award of a four year contract for an amount not to exceed \$160,000 to Steno Solutions Transcription Services Inc. to provide transcription of dictation formatted as a MS Word document. The Moreno Valley Police Department will execute an annual purchase order in the amount of \$40,000 per fiscal year.

The County of Riverside contracts with Steno Solutions Transcription Services, Inc. to provide transcription of dictation services. The City of Moreno Valley participates in this contract. Pursuant to 3.12.260, Materials, supplies and equipment—Cooperative purchasing. Where advantageous for the City and to the extent consistent with state law, the City Manager may authorize the Financial & Administrative Services Director or the Purchasing Manager to purchase supplies, materials, equipment or contractual

services through legal, competitively awarded contracts with or of other governmental jurisdictions or public agencies, including California Multiple Award Schedules (CMAS) commonly referred to as “piggybacking,” without further contracting, solicitation or formal bidding as described in this chapter”. (Ord. 624 § 1.7, 2003: Ord. 587 § 2.1 (part), 2001).

DISCUSSION

The Moreno Valley Police Department utilizes Steno Solutions Transcription Services Inc. to provide dictation of a variety of Law Enforcement related reports. The transcribed documents are returned to the Moreno Valley Police Department in the standardized formats specified. Crime reports, interview transcripts, search warrant affidavits, arrest warrant declarations, and a wide variety of internal reports and documents will each employ unique formatting requirements.

Pricing per line for English, is \$0.09, pricing per line for Spanish, is \$0.14. We anticipate that the charges for Steno Solutions Transcription Services, Inc., to be approximately \$40,000 per fiscal year.

ALTERNATIVES

- 1) Authorize the Moreno Valley Police Department to execute a purchase order to Steno Solutions Transcription Services Inc., for \$40,000 per fiscal year for four years, for an amount not to exceed \$160,000 for the life of the contract. **Staff recommends this alternative as it will improve the quality of reports and save officers time with writing reports, which could be used to fight crime, patrol proactively and provide better customer service to the residents of the City of Moreno Valley.**
- 2) Not authorize the Moreno Valley Police Department to execute a purchase order to Steno Solutions Transcription Services Inc., for \$40,000 per fiscal year for four years, for an amount not to exceed \$160,000 for the life of the contract. **Staff does not recommend this alternative as it could negatively impact the quality of service for the residents of Moreno Valley and the quality of reports.**

FISCAL IMPACT

Funds are approved and available in the Moreno Valley Police Departments FY19/20 and FY20/21 General Fund Account No. 1010-60-65-40010-625099 in the amount of \$40,000 per fiscal year to Steno Solutions Transcription Services Inc., as this is a routine and anticipated expenditure. Budget for FY21/22 and FY22/23 will be included in the department’s budget request submission for those fiscal years.

PREPARATION OF STAFF REPORT

Prepared By:
Michael Koehler
Administrative Lieutenant

Department Head Approval:
David Lelevier
Acting Police Chief

Concurred By:
Felicia London
Public Safety Contracts Administrator

CITY COUNCIL GOALS

None

CITY COUNCIL STRATEGIC PRIORITIES

- 1. Economic Development
- 2. Public Safety
- 3. Library
- 4. Infrastructure
- 5. Beautification, Community Engagement, and Quality of Life
- 6. Youth Programs

ATTACHMENTS

- 1. FY19-20 through FY22-23_Steno Solutions Contract

APPROVALS

Budget Officer Approval	<u>✓ Approved</u>	5/23/19 8:50 AM
City Attorney Approval	<u>✓ Approved</u>	5/29/19 8:53 AM
City Manager Approval	<u>✓ Approved</u>	5/30/19 1:29 PM

City of Moreno Valley

AGREEMENT FOR ON-SITE AND/OR PROFESSIONAL SERVICES

This Agreement is made by and between the City of Moreno Valley [or **Moreno Valley Housing Authority or Moreno Valley Community Services District**], California, a municipal corporation, with its principal place of business at 14177 Frederick Street, Moreno Valley, CA 92552, hereinafter referred to as the “City”, and **Steno Solutions Transcription Service, Inc.**, a **professional transcription service**, with its principal place of business at **1360 Combs Way, Corona, CA 92882**, hereinafter referred to as the “Contractor,” based upon City policies and the following legal citations:

RECITALS

- A. Government Code Section 53060 authorizes the engagement of persons to perform special services as independent contractors;
- B. Contractor desires to perform and assume responsibility for the provision of professional **transcription service** contracting services required by the City on the terms and conditions set forth in this Agreement. Contractor represents that it is experienced in providing professional **transcription service** contracting services, is licensed in the State of California, if applicable;
- C. City desires to engage Contractor to render such services for the **transcription service** as set forth in this Agreement;
- D. The public interest, convenience, necessity and general welfare will be served by this Agreement; and
- E. This Agreement is made and entered into effective the date the City signs this Agreement.

TERMS

1. CONTRACTOR INFORMATION:

Contractor’s Name: Steno Solutions Transcription Services, Inc.
 Address: 1360 Combs Way
 City: Corona State: CA Zip: 92882
 Business Phone: 951-340-1074 Fax No. 951-340-0955
 Other Contact Number: _____
 Business License Number: 067663 (Corona)
 Federal Tax I.D. Number: 34-1975628

2. CONTRACTOR SERVICES, FEES, AND RELEVANT DATES:

- A. The Contractor’s scope of service is described in Exhibit “A” attached hereto and incorporated herein by this reference.
- B. The City’s responsibilities, other than payment, are described in Exhibit “B” attached hereto and incorporated herein by this reference.

Attachment: FY19-20 through FY22-23_Steno Solutions Contract (3602 : AWARD A FOUR YEAR CONTRACT TO STENO SOLUTIONS

- C. Payment terms are provided in Exhibit “C” attached hereto and incorporated herein by this reference.
- D. The term of this Agreement shall be from July 1, 2019 to June 30, 2023 unless terminated earlier as provided herein. The City acknowledges that it will not unreasonably withhold approval of the Contractor’s requests for extensions of time in which to complete the work required. The Contractor shall not be responsible for performance delays caused by others or delays beyond the Contractor’s reasonable control (excluding delays caused by non-performance or unjustified delay by Contractor, his/her/its employees, or subcontractors), and such delays shall extend the time for performance of the work by the Contractor.

3. **STANDARD TERMS AND CONDITIONS:**

- A. Control of Work. Contractor is solely responsible for the content and sequence of the work and will not be subject to control and direction as to the details and means for accomplishing the anticipated results of services. The City will not provide any training to Contractor or his/her/its employees.
- B. Intent of Parties. Contractor is, and at all times shall be, an independent contractor and nothing contained herein shall be construed as making the Contractor or any individual whose compensation for services is paid by the Contractor, an agent or employee of the City, or authorizing the Contractor to create or assume any obligation or liability for or on behalf of the City, or entitling the Contractor to any right, benefit, or privilege applicable to any officer or employee of the City.
- C. Subcontracting. Contractor may retain or subcontract for the services of other necessary contractors with the prior written approval of the City. Payment for such services shall be the responsibility of the Contractor. Any and all subcontractors shall be subject to the terms and conditions of this Agreement, with the exception that the City shall have no obligation to pay for any subcontractor services rendered. Contractor shall be responsible for paying prevailing wages where required by law [See California Labor Code Sections 1770 through 1777.7].
- D. Conformance to Applicable Requirements. All work prepared by Contractor shall be subject to the approval of City.
- E. Substitution of Key Personnel. Contractor has represented to City that certain key personnel will perform and coordinate the services under this Agreement. Should one or more of such personnel become unavailable, Contractor may substitute other personnel of at least equal competence upon written approval of City. In the event that City and Contractor cannot agree as to the substitution of key personnel, City shall be entitled to terminate this Agreement for cause. As discussed below, any personnel who fail or refuse to perform the services in a manner acceptable to the City, or who are determined by the City to be uncooperative, incompetent, a threat to the adequate or timely completion of the project or a threat to the safety of persons or property, shall be promptly

removed from the project by the Contractor at the request of the City. The key personnel for performance of this Agreement are as follows: **KO Fitzgerald**.

- F. City's Representative. The City hereby designates the City Manager, or his or her designee, to act as its representative for the performance of this Agreement ("City's Representative"). Contractor shall not accept direction or orders from any person other than the City's Representative or his or her designee.
- G. Contractor's Representative. Contractor hereby designates **KO Fitzgerald**, or his or her designee, to act as its representative for the performance of this Agreement ("Contractor's Representative"). Contractor's Representative shall have full authority to represent and act on behalf of the Contractor for all purposes under this Agreement. The Contractor's Representative shall supervise and direct the services, using his or her best skill and attention, and shall be responsible for all means, methods, techniques, sequences and procedures and for the satisfactory coordination of all portions of the services under this Agreement.
- H. Legal Considerations. The Contractor shall comply with applicable federal, state, and local laws in the performance of this Agreement. Contractor shall be liable for all violations of such laws and regulations in connection with services. If the Contractor performs any work knowing it to be contrary to such laws, rules and regulations and without giving written notice to the City, Contractor shall be solely responsible for all costs arising therefrom. Contractor shall defend, indemnify and hold City, its officials, directors, officers, employees and agents free and harmless, pursuant to the indemnification provisions of this Agreement, from any claim or liability arising out of any failure or alleged failure to comply with such laws, rules or regulations.
- I. Standard of Care; Performance of Employees. Contractor shall perform all services under this Agreement in a skillful and competent manner, consistent with the standards generally recognized as being employed by professionals in the same discipline in the State of California. Contractor represents and maintains that it is skilled in the profession necessary to perform the services. Contractor warrants that all employees and subcontractor shall have sufficient skill and experience to perform the services assigned to them. Finally, Contractor represents that it, its employees and subcontractors have all licenses, permits, qualifications and approvals of whatever nature that are legally required to perform the services and that such licenses and approvals shall be maintained throughout the term of this Agreement. Any employee of the Contractor or its subcontractors who is determined by the City to be uncooperative, incompetent, a threat to the adequate or timely completion of the project, a threat to the safety of persons or property, or any employee who fails or refuses to perform the services in a manner acceptable to the City, shall be promptly removed from the project by the Contractor and shall not be re-employed to perform any of the services or to work on the project.
- J. Contractor Indemnification. Contractor shall indemnify, defend and hold the City, the Moreno Valley Housing Authority, and the Moreno Valley Community Services District (CSD), their officers, agents and employees harmless from any and all claims, damages, losses, causes of action and

demands, including, without limitation, the payment of all consequential damages, expert witness fees, reasonable attorney's fees and other related costs and expenses, incurred in connection with or in any manner arising out of Contractor's performance of the work contemplated by this Agreement and this Agreement. Acceptance of this Agreement signifies that the Contractor is not covered under the City's general liability insurance, employee benefits, or worker's compensation. It further establishes that the Contractor shall be fully responsible for such coverage. Contractor's obligation to indemnify shall survive expiration or termination of this Agreement, and shall not be restricted to insurance proceeds, if any, received by the City, the Moreno Valley Housing Authority, and the CSD, and their officers, agents and employees.

- K. Additional Indemnity Obligations. Contractor shall defend, with counsel of City's choosing and at Contractor's own cost, expense and risk, any and all claims, suits, actions or other proceedings of every kind covered by Section "J" that may be brought or instituted against City, the Moreno Valley Housing Authority, and the CSD, and their officers, agents and employees. Contractor shall pay and satisfy any judgment, award or decree that may be rendered against City, the Moreno Valley Housing Authority, and the CSD, and their officers, agents and employees as part of any such claim, suit, action or other proceeding. Contractor shall also reimburse City for the cost of any settlement paid by City, the Moreno Valley Housing Authority, and the CSD, and their officers, agents and employees as part of any such claim, suit, action or other proceeding. Such reimbursement shall include payment for City's attorney's fees and costs, including expert witness fees. Contractor shall reimburse City, the Moreno Valley Housing Authority, and the CSD, and their officers, agents and employees for any and all legal expenses and costs incurred by each of them in connection therewith or in enforcing the indemnity herein provided.
- L. Insurance Requirements. The Contractor will comply with the following insurance requirements at its sole expense. Insurance companies shall be rated (A Minus: VII—Admitted) or better in Best's Insurance Rating Guide and shall be legally licensed and qualified to conduct business in the State of California:

The Contractor shall procure and maintain, at its sole expense, Workers' Compensation Insurance in such amounts as will fully comply with the laws of the State of California and which shall indemnify, insure and provide legal defense for the Contractor and the City, the Housing Authority and CSD against any loss, claim, or damage arising from any injuries or occupational diseases happening to any worker employed by the Contractor in the course of carrying out the Agreement. This coverage may be waived if the Contractor is determined to be functioning as a sole proprietor and the city provided form "Exception to Worker's Compensation Coverage" is signed, notarized and attached to this Agreement

- General Liability Insurance—to protect against loss from liability imposed by law for damages on account of bodily injury, including death, and/or property damage suffered or alleged to be suffered by any person or persons

whomever, resulting directly or indirectly from any act or activities of the Contractor, sub-Contractor, or any person acting for the Contractor or under its control or direction. Such insurance shall be maintained in full force and effect throughout the terms of the Agreement and any extension thereof in the minimum amounts provided below:

- Bodily Injury \$1,000,000 per occurrence/ \$2,000,000 aggregate
- Property Damage \$500,000 per occurrence/ \$500,000 aggregate

Professional Errors and Omission Insurance—such coverage shall not be less than \$1,000,000 per claim and aggregate.

Liability and Property Damage Insurance coverage for owned and non-owned automotive equipment operated on City/CSD/Housing Authority premises. Such coverage limits shall not be less than \$1,000,000 combined single limit.

A Certificate of Insurance and appropriate additional insured endorsement evidencing the above applicable insurance coverage shall be submitted to the City prior to the execution of this Agreement. The Certificate of Insurance or an appropriate binder shall bear an endorsement containing the following provisions:

Solely as respect to services done by or on behalf of the named insured for the City of Moreno Valley, it is agreed that the City of Moreno Valley, the Moreno Valley Housing Authority, and the Moreno Valley Community Services District, their officers, employees and agents are included as additional insured under this policy and the coverage(s) provided shall be primary insurance and not contributing with any other insurance available to the City of Moreno Valley, the Moreno Valley Housing Authority, and the Moreno Valley Community Services District, its officers, employees and agents, under any third party liability policy

The terms of the insurance policy or policies issued to provide the above coverage shall neither be amended to reduce the required insurance limits and coverages, nor shall such policies be canceled by the carrier without thirty (30) days prior written notice by certified or registered mail of amendment or cancellation to the City, except that cancellation for non-payment of premium shall require ten (10) days prior written notice by certified or registered mail. In the event the insurance is canceled, the Contractor shall, prior to the cancellation date, submit new evidence of insurance in the amounts established.

M. Intellectual Property. Any system or documents developed, produced or provided under this Agreement, including any intellectual property discovered or developed by Contractor in the course of performing or otherwise as a result of its work, shall become the sole property of the City unless explicitly stated otherwise in this Agreement. The Contractor may retain copies of any and all

material, including drawings, documents, and specifications, produced by the Contractor in performance of this Agreement. The City and the Contractor agree that to the extent permitted by law, until final approval by the City, all data shall be treated as confidential and will not be released to third parties without the prior written consent of both parties.

- N. Entire Agreement. This Agreement constitutes the entire agreement between the parties. There are no understandings, agreements, or representations of warranties, expressed or implied, not specified in this Agreement. This Agreement applies only to the current proposal as attached. This Agreement may be modified or amended only by a subsequent written Agreement signed by both parties. Assignment of this Agreement is prohibited without prior written consent.
- O. (a) The City may terminate the whole or any part of this Agreement at any time without cause by giving at least ten (10) days written notice to the Contractor. The written notice shall specify the date of termination. Upon receipt of such notice, the Contractor may continue work through the date of termination, provided that no work or service(s) shall be commenced or continued after receipt of the notice which is not intended to protect the interest of the City. The City shall pay the Contractor within thirty (30) days after receiving any invoice after the date of termination for all non-objected to services performed by the Contractor in accordance herewith through the date of termination.
- (b) Either party may terminate this Agreement for cause. In the event the City terminates this Agreement for cause, the Contractor shall perform no further work or service(s) under the Agreement unless the notice of termination authorizes such further work.
- (c) If this Agreement is terminated as provided herein, City may require Contractor to provide all finished or unfinished documents and data and other information of any kind prepared by Contractor in connection with the performance of services under this Agreement. Contractor shall be required to provide such documents and other information within fifteen (15) days of the request.
- (d) In the event this Agreement is terminated in whole or in part as provided herein, City may procure, upon such terms and in such manner as it may determine appropriate, similar to those terminated.
- P. Payment. Payments to the Contractor pursuant to this Agreement will be reported to Federal and State taxing authorities as required. The City will not withhold any sums from compensation payable to Contractor. Contractor is independently responsible for the payment of all applicable taxes. Where the payment terms provide for compensation on a time and materials basis, the Contractor shall maintain adequate records to permit inspection and audit of the Contractor's time and materials charges under the Agreement. Such records shall be retained by the Contractor for three (3) years following completion of the services under the Agreement.
- Q. Restrictions on City Employees. The Contractor shall not employ any City employee or official in the work performed pursuant to this Agreement. No

officer or employee of the City shall have any financial interest in this Agreement in violation of federal, state, or local law.

- R. Choice of Law and Venue. The laws of the State of California shall govern the rights, obligations, duties, and liabilities of the parties to this Agreement, and shall govern the interpretation of this Agreement. Any legal proceeding arising from this Agreement shall be brought in the appropriate court located in Riverside County, State of California.
- S. Delivery of Notices. All notices permitted or required under this Agreement shall be given to the respective parties at the following address, or at such other address as the respective parties may provide in writing for this purpose:

Contractor:

Steno Solutions Transcription Services, Inc.
 1360 Combs Way
 Corona, CA 92882
 Attn: KO Fitzgerald

City:

City of Moreno Valley
 14177 Frederick Street
 P.O. Box 88005
 Moreno Valley, CA 92552
 Attn: Acting Chief of Police David Lelevier

Such notice shall be deemed made when personally delivered or when mailed, forty-eight (48) hours after deposit in the U.S. Mail, first class postage prepaid and addressed to the party at its applicable address. Actual notice shall be deemed adequate notice on the date actual notice occurred, regardless of the method of service.

- T. Time of Essence. Time is of the essence for each and every provision of this Agreement.
- U. City’s Right to Employ Other Contractors. City reserves right to employ other contractors in connection with this project.
- V. Amendment; Modification. No supplement, modification, or amendment of this Agreement shall be binding unless executed in writing and signed by both parties.
- W. Waiver. No waiver of any default shall constitute a waiver of any other default or breach, whether of the same or other covenant or condition. No waiver, benefit, privilege, or service voluntarily given or performed by a party shall give the other party any contractual rights by custom, estoppel, or otherwise.
- X. No Third-Party Beneficiaries. There are no intended third-party beneficiaries of any right or obligation assumed by the parties.

Attachment: FY19-20 through FY22-23_Steno Solutions Contract (3602 : AWARD A FOUR YEAR CONTRACT TO STENO SOLUTIONS

- Y. Counterparts. This Agreement may be signed in counterparts, each of which shall constitute an original.
- Z. Invalidity; Severability. If any portion of this Agreement is declared invalid, illegal, or otherwise unenforceable by a court of competent jurisdiction, the remaining provisions shall continue in full force and effect.
- AA. Assignment or Transfer. Contractor shall not assign, hypothecate, or transfer, either directly or by operation of law, this Agreement or any interest herein without the prior written consent of the City. Any attempt to do so shall be null and void, and any assignees, hypothecates or transferees shall acquire no right or interest by reason of such attempted assignment, hypothecation or transfer.
- BB Supplementary General Conditions (for projects that are funded by Federal programs). The following provisions, pursuant to 44 Code of Federal Regulations, Part 13, Subpart C, Section 13.36, as it may be amended from time to time, are included in the Agreement and are required to be included in all subcontracts entered into by CONTRACTOR for work pursuant to the Agreement, unless otherwise expressly provided herein. These provisions supersede any conflicting provisions in the General Conditions and shall take precedence over the General Conditions for purposes of interpretation of the General Conditions. These provisions do not otherwise modify or replace General Conditions not in direct conflict with these provisions. Definitions used in these provisions are as contained in the General Conditions.
1. CONTRACTOR shall be subject to the administrative, contractual, and legal remedies provided in the General Conditions in the event CONTRACTOR violates or breaches terms of the Agreement.
 2. CITY may terminate the Agreement for cause or for convenience, and CONTRACTOR may terminate the Agreement, as provided the General Conditions.
 3. CONTRACTOR shall comply with Executive Order 11246 of September 24, 1965, entitled Equal Employment Opportunity, as amended by Executive Order 11375 of October 13, 1967, and as supplemented in Department of Labor regulations (41 CFR chapter 60). (All construction contracts awarded in excess of \$10,000 by CITY and/or subcontracts in excess of \$10,000 entered into by CONTRACTOR.)
 4. CONTRACTOR shall comply with the Copeland Anti-Kickback Act (18 U.S.C. 874) as supplemented in Department of Labor regulations (29 CFR Part 3) (All contracts and subcontracts for construction or repair.)
 5. CONTRACTOR shall comply with the Davis-Bacon Act (40 U.S.C. 276a to 276a7) as supplemented by Department of Labor regulations (29 CFR Part 5).
 6. CONTRACTOR shall comply with Sections 103 and 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 327330) as supplemented by Department of Labor regulations (29 CFR Part 5).
 7. CONTRACTOR shall observe CITY requirements and regulations pertaining to reporting included in the General Conditions.

- 8. Patent rights with respect to any discovery or invention which arises or is developed in the course of or under the Agreement shall be retained by the CITY.
- 9. Copyrights and rights in data developed in the course of or under the Agreement shall be the property of the CITY. FEMA/CalOES reserve a royalty-free, nonexclusive, irrevocable license to reproduce, publish or otherwise use or authorize to others to use for federal purposes a copyright in any work developed under the Agreement and/or subcontracts for work pursuant to the Agreement.
- 10. CONTRACTOR shall provide access by the City, the Federal grantor agency, the Comptroller General of the United States, or any of their duly authorized representatives to any books, documents, papers, and records of the contractor which are directly pertinent to that specific contract for the purpose of making audit, examination, excerpts, and transcriptions.
- 11. CONTRACTOR shall retain all required records for three years after CITY makes final payments and all other pending matters relating to the Agreement are closed.
- 12. CONTRACTOR shall comply with all applicable standards, orders, or requirements issued under section 306 of the Clean Air Act (42 U.S.C. 1857(h)), section 508 of the Clean Water Act (33 U.S.C. 1368), Executive Order 11738, and Environmental Protection Agency regulations (40 CFR part 15). (This provision applies to contracts exceeding \$100,000 and to subcontracts entered into pursuant to such contracts.)
- 13. CONTRACTOR shall comply with mandatory standards and policies relating to energy efficiency which are contained in the State energy conservation plan issued in compliance with the Energy Policy and Conservation Act (Pub. L. 94163, 89 Stat. 871).

SIGNATURE PAGE TO FOLLOW

Attachment: FY19-20 through FY22-23_Steno Solutions Contract (3602 : AWARD A FOUR YEAR CONTRACT TO STENO SOLUTIONS

IN WITNESS HEREOF, the parties have each caused their authorized representative to execute this Agreement.

City of Moreno Valley

Steno Solutions Transcription Services

BY: _____
Thomas M. DeSantis, City Manager

BY: _____
K.O. Fitzgerald

TITLE _____
CFO/VP

Date

Date

BY: _____
Gina Osbourne

TITLE: _____
COO Secretary

Date

<p><u>INTERNAL USE ONLY</u></p> <p>APPROVED AS TO LEGAL FORM:</p> <p>_____ Martin Koczanowicz, City Attorney</p> <p>_____ Date</p> <p>RECOMMENDED FOR APPROVAL:</p> <p>_____ David Lelevier, Acting Chief of Police</p> <p>_____ Date</p>
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Attachment: FY19-20 through FY22-23_Steno Solutions Contract (3602 : AWARD A FOUR YEAR CONTRACT TO STENO SOLUTIONS

EXHIBIT A

SCOPE OF SERVICES

- A. Contractor will provide transcription services of any report, recorded interview with victims, suspects, or other individuals who are deemed important to the successful prosecution of criminal matters. Contractor is in possession of current required forms, with which to complete each type of transcription service.
- B. Contractor will provide appropriate contact ID cards for Police Department employees, to obtain access to transcription services.
- C. Transcriptions shall be done for both English and Spanish languages, as deemed necessary by Department/ Employee.
- D. Price per line is as follows:

Price Per Line
\$0.09 English
\$0.14 Spanish

EXHIBIT B

CITY'S RESPONSIBILITIES

City shall have no responsibilities other than those provided in the Agreement.

EXHIBIT C

TERMS OF PAYMENT

1. The Contractor's compensation shall not exceed \$40,000 per fiscal year, for fiscal years 19/20, 20/21, 21/22 and 22/23, not to exceed \$160,000 over the total time-period of the Agreement unless modified by an Amendment signed by all parties.

2. The Contractor will obtain, and keep current during the term of this Agreement, the required City of Moreno Valley business license. Proof of a current City of Moreno Valley business license will be required prior to any payments by the City. Any invoice not paid because the proof of a current City of Moreno Valley business license has not been provided will not incur any fees, late charges, or other penalties. Complete instructions for obtaining a City of Moreno Valley business license are located at: http://www.moval.org/do_biz/biz-license.shtml

3. The Contractor will electronically submit an invoice to the City on a monthly basis for progress payments along with documentation evidencing services completed to date. The progress payment is based on actual time and materials expended in furnishing authorized professional services since the last invoice. At no time will the City pay for more services than have been satisfactorily completed and the City's determination of the amount due for any progress payment shall be final. The Contractor will submit all original invoices to Accounts Payable staff at AccountsPayable@moval.org

Accounts Payable questions can be directed to (951) 413-3073.

Copies of invoices may be submitted to the Police Department at

22850 Calle San Juan De Los Lagos
PO Box 88005
Moreno Valley, Ca 92552-0805

Questions can be directed to:

Dana Leggett 951-486-6840 or Maggi Bollinger 951-486-6712

3. The Contractor agrees that City payments will be received via Automated Clearing House (ACH) Direct Deposit and that the required ACH Authorization form will be completed prior to any payments by the City. Any invoice not paid because the completed ACH Authorization Form has not been provided will not incur any fees, late charges, or other penalties. The ACH Authorization Form is located at:

Attachment: FY19-20 through FY22-23_Steno Solutions Contract (3602 : AWARD A FOUR YEAR CONTRACT TO STENO SOLUTIONS

http://www.moval.org/city_hall/forms.shtml#bf

4. The minimum information required on all invoices is:
 - A. Vendor Name, Mailing Address, and Phone Number
 - B. Invoice Date
 - C. Vendor Invoice Number
 - D. City-provided Reference Number (e.g. Project, Activity)
 - E. Detailed work hours by class title (e.g. Manager, Technician, or Specialist), services performed and rates, explicit portion of a contract amount, or detailed billing information that is sufficient to justify the invoice amount; single, lump amounts without detail are not acceptable.

6. The City shall pay the Contractor for all invoiced, authorized professional services within thirty (30) days of receipt of the invoice for same.

7. Reimbursement for Expenses. Contractor shall not be reimbursed for any expenses unless authorized in writing by City.

8. Maintenance and Inspection. Contractor shall maintain complete and accurate records with respect to all costs and expenses incurred under this Agreement. All such records shall be clearly identifiable. Contractor shall allow a representative of City during normal business hours to examine, audit, and make transcripts or copies of such records and any other documents created pursuant to this Agreement. Contractor shall allow inspection of all work, data, documents, proceedings, and activities related to the Agreement for a period of three (3) years from the date of final payment under this Agreement.



Report to City Council

TO: Mayor and City Council

FROM: David Lelevier,

AGENDA DATE: June 4, 2019

TITLE: AWARD A FOUR YEAR CONTRACT TO AMERICAN FORENSIC NURSES FOR \$40,000 PER FISCAL YEAR, FOR AN AMOUNT NOT TO EXCEED \$160,000 FOR LIFE OF CONTRACT

RECOMMENDED ACTION

Recommendations:

1. Approve and award a four year contract for an amount not to exceed \$160,000 to American Forensic Nurses for blood draw, biological evidence and urine collection services for the Moreno Valley Police Department from FY19/20 through FY22/23.
2. Authorize the Moreno Valley Police Department to execute a Purchase Order to American Forensic Nurses for \$40,000 per fiscal year, from General Fund Account No. 1010-60-65-40010-625099.

SUMMARY

This report recommends award of a four year contract for an amount not to exceed \$160,000 to American Forensic Nurse for blood draws, biological evidence and urine collection services. The Moreno Valley Police Department will execute an annual purchase order in the amount of \$40,000 per fiscal year.

The County of Riverside contracts with American Forensic Nurses, Inc. for blood draw, biological evidence and urine collection services. The City of Moreno Valley participates in this contract. Pursuant to 3.12.260, Materials, supplies and equipment—Cooperative purchasing. Where advantageous for the City and to the extent consistent with state law, the City Manager may authorize the Financial & Administrative Services Director or the Purchasing Manager to purchase supplies, materials, equipment or contractual

services through legal, competitively awarded contracts with or of other governmental jurisdictions or public agencies, including California Multiple Award Schedules (CMAS) commonly referred to as “piggybacking,” without further contracting, solicitation or formal bidding as described in this chapter”. (Ord. 624 § 1.7, 2003: Ord. 587 § 2.1 (part), 2001).

DISCUSSION

The Moreno Valley Police Department utilizes American Forensic Nurses for the collection of biological evidentiary material during investigations of DUI arrests, fatal traffic collisions, child endangerment, sexual assaults, suspicious deaths, substance abuse and employee exposure to blood-borne pathogens.

The general authority of law enforcement to obtain evidence is covered under Article I, Section 13 of the California State Constitution. Law enforcement is also obligated, by state law to offer blood draws in the investigation of driving under the influence cases, per Section 23158 of the California Vehicle Code. Blood draws are also a part of sex offender and arson registrant DNA collection under Section 296 of the California Penal Code. The obtaining of blood or urine samples is also an integral part of many non-driving-under-the-influence criminal investigations. Blood or urine samples may be requested for a variety of reasons and the process of collecting such samples must meet all applicable laws and regulations for the collection of:

- a. Blood alcohol content analysis.
- b. Controlled substance content analysis.
- c. DNA analysis.
- d. For storage, later analysis, or to be a control sample.

Pricing varies from \$30-\$100. We anticipate that the charges for American Forensic Nurses to be approximately \$40,000 per fiscal year.

ALTERNATIVES

- 1) Authorize the Moreno Valley Police Department to execute a purchase order to American Forensic Nurses for \$40,000 per fiscal year for four years, for an amount not to exceed \$160,000 for the life of the contract. **Staff recommends this alternative as it will continue to allow for the collection of biological evidentiary material used in criminal prosecutions.**
- 2) Not authorize the Moreno Valley Police Department to execute a purchase order to American Forensic Nurses for \$40,000 per fiscal year for four years, for an amount not to exceed \$160,000 for the life of the contract. **Staff does not recommend this alternative as it could negatively impact investigation services provided by the Police Department.**

FISCAL IMPACT

Funds are approved and available in the Moreno Valley Police Departments FY19/20 and FY20/21 General Fund Account No. 1010-60-65-40010-625099 in the amount of \$40,000 per fiscal year to American Forensic Nurses, as this is a routine and anticipated expenditure. Budget for FY21/22 and FY22/23 will be included in the department's budget request submission for those fiscal years.

PREPARATION OF STAFF REPORT

Prepared By:
Michael Koehler
Administrative Lieutenant

Department Head Approval:
David Lelevier
Acting Police Chief

Concurred By:
Felicia London
Public Safety Contracts Administrator

CITY COUNCIL GOALS

None

CITY COUNCIL STRATEGIC PRIORITIES

- 1. Economic Development
- 2. Public Safety
- 3. Library
- 4. Infrastructure
- 5. Beautification, Community Engagement, and Quality of Life
- 6. Youth Programs

ATTACHMENTS

- 1. FY19-20 to FY22-23_American Forensic Nurses Contract

APPROVALS

Budget Officer Approval	<u>✓ Approved</u>	5/23/19 8:49 AM
City Attorney Approval	<u>✓ Approved</u>	5/28/19 4:29 PM
City Manager Approval	<u>✓ Approved</u>	5/30/19 1:28 PM

City of Moreno Valley

AGREEMENT FOR ON-SITE AND/OR PROFESSIONAL SERVICES

This Agreement is made by and between the City of Moreno Valley, California, a municipal corporation, with its principal place of business at 14177 Frederick Street, Moreno Valley, CA 92552, hereinafter referred to as the “City”, and **American Forensic Nurses**, a **CORPORATION**, with its principal place of business at **78060 Calle Estado, Suite # 1, La Quinta, CA 92253**, hereinafter referred to as the “Contractor,” based upon City policies and the following legal citations:

RECITALS

- A. Government Code Section 53060 authorizes the engagement of persons to perform special services as independent contractors;
- B. Contractor desires to perform and assume responsibility for the provision of professional **blood draw, biological evidence, and urine collection** contracting services required by the City on the terms and conditions set forth in this Agreement. Contractor represents that it is experienced in providing professional **blood draw, biological evidence, and urine collection** contracting services, is licensed in the State of California, if applicable;
- C. City desires to engage Contractor to render such services for the **blood draw, biological evidence, and urine collection** as set forth in this Agreement;
- D. The public interest, convenience, necessity and general welfare will be served by this Agreement; and
- E. This Agreement is made and entered into effective the date the City signs this Agreement.

TERMS

1. CONTRACTOR INFORMATION:

Contractor’s Name: American Forensic Nurses
 Address: PO Box 1625
 City: La Quinta State: CA Zip: 92247
 Business Phone: 760-322-9925 Fax No. 760-323-7555
 Other Contact Number: 213-952-1579
 Business License Number: 763917
 Federal Tax I.D. Number: 33-0926934

2. CONTRACTOR SERVICES, FEES, AND RELEVANT DATES:

- A. The Contractor’s scope of service is described in Exhibit “A” attached hereto and incorporated herein by this reference.
- B. The City’s responsibilities, other than payment, are described in Exhibit “B” attached hereto and incorporated herein by this reference.

Attachment: FY19-20 to FY22-23_American Forensic Nurses Contract (3601 : AWARD A FOUR YEAR CONTRACT TO AMERICAN FORENSIC

- C. Payment terms are provided in Exhibit “C” attached hereto and incorporated herein by this reference.
- D. The term of this Agreement shall be from June 30, 2019 to June 30, 2023. This Agreement may be terminated by City with or without cause upon thirty (30) days written notice to Contractor/Vendor. City shall be responsible for payment of all services rendered and costs incurred by Contractor/Vendor prior to the termination date. Contractor/Vendor may terminate this Agreement with or without cause upon thirty (30) days written notice to City and only if City will suffer no actual or perceived harm or prejudice in any pending matter by Contractor/Vendor’s termination. The City acknowledges that it will not unreasonably withhold approval of the Contractor’s requests for extensions of time in which to complete the work required. The Contractor shall not be responsible for performance delays caused by others or delays beyond the Contractor’s reasonable control (excluding delays caused by non-performance or unjustified delay by Contractor, his/her/its employees, or subcontractors), and such delays shall extend the time for performance of the work by the Contractor.

3. **STANDARD TERMS AND CONDITIONS:**

- A. Control of Work. Contractor is solely responsible for the content and sequence of the work and will not be subject to control and direction as to the details and means for accomplishing the anticipated results of services. The City will not provide any training to Contractor or his/her/its employees.
- B. Intent of Parties. Contractor is, and at all times shall be, an independent contractor and nothing contained herein shall be construed as making the Contractor or any individual whose compensation for services is paid by the Contractor, an agent or employee of the City, or authorizing the Contractor to create or assume any obligation or liability for or on behalf of the City, or entitling the Contractor to any right, benefit, or privilege applicable to any officer or employee of the City.
- C. Subcontracting. Contractor may retain or subcontract for the services of other necessary contractors with the prior written approval of the City. Payment for such services shall be the responsibility of the Contractor. Any and all subcontractors shall be subject to the terms and conditions of this Agreement, with the exception that the City shall have no obligation to pay for any subcontractor services rendered. Contractor shall be responsible for paying prevailing wages where required by law [See California Labor Code Sections 1770 through 1777.7].
- D. Conformance to Applicable Requirements. All work prepared by Contractor shall be subject to the approval of City.
- E. Substitution of Key Personnel. Contractor has represented to City that certain key personnel will perform and coordinate the services under this Agreement. Should one or more of such personnel become unavailable, Contractor may substitute other personnel of at least equal competence upon written approval of City. In the event that City and Contractor cannot agree as to the

substitution of key personnel, City shall be entitled to terminate this Agreement for cause. As discussed below, any personnel who fail or refuse to perform the services in a manner acceptable to the City, or who are determined by the City to be uncooperative, incompetent, a threat to the adequate or timely completion of the project or a threat to the safety of persons or property, shall be promptly removed from the project by the Contractor at the request of the City. The key personnel for performance of this Agreement are as follows: **Faye Battiste-Otto & Alvaro Carlos Martinez.**

- F. City's Representative. The City hereby designates the City Manager, or his or her designee, to act as its representative for the performance of this Agreement ("City's Representative"). Contractor shall not accept direction or orders from any person other than the City's Representative or his or her designee.
- G. Contractor's Representative. Contractor hereby designates **Alvaro Carlos Martinez, COO**, or his or her designee, to act as its representative for the performance of this Agreement ("Contractor's Representative"). Contractor's Representative shall have full authority to represent and act on behalf of the Contractor for all purposes under this Agreement. The Contractor's Representative shall supervise and direct the services, using his or her best skill and attention, and shall be responsible for all means, methods, techniques, sequences and procedures and for the satisfactory coordination of all portions of the services under this Agreement.
- H. Legal Considerations. The Contractor shall comply with applicable federal, state, and local laws in the performance of this Agreement. Contractor shall be liable for all violations of such laws and regulations in connection with services. If the Contractor performs any work knowing it to be contrary to such laws, rules and regulations and without giving written notice to the City, Contractor shall be solely responsible for all costs arising therefrom. Contractor shall defend, indemnify and hold City, its officials, directors, officers, employees and agents free and harmless, pursuant to the indemnification provisions of this Agreement, from any claim or liability arising out of any failure or alleged failure to comply with such laws, rules or regulations.
- I. Standard of Care; Performance of Employees. Contractor shall perform all services under this Agreement in a skillful and competent manner, consistent with the standards generally recognized as being employed by professionals in the same discipline in the State of California. Contractor represents and maintains that it is skilled in the profession necessary to perform the services. Contractor warrants that all employees and subcontractor shall have sufficient skill and experience to perform the services assigned to them. Finally, Contractor represents that it, its employees and subcontractors have all licenses, permits, qualifications and approvals of whatever nature that are legally required to perform the services and that such licenses and approvals shall be maintained throughout the term of this Agreement. Any employee of the Contractor or its subcontractors who is determined by the City to be

uncooperative, incompetent, a threat to the adequate or timely completion of the project, a threat to the safety of persons or property, or any employee who fails or refuses to perform the services in a manner acceptable to the City, shall be promptly removed from the project by the Contractor and shall not be re-employed to perform any of the services or to work on the project.

- J. Contractor Indemnification. Contractor shall indemnify, defend and hold the City, the Moreno Valley Housing Authority, and the Moreno Valley Community Services District (CSD), their officers, agents and employees harmless from any and all claims, damages, losses, causes of action and demands, including, without limitation, the payment of all consequential damages, expert witness fees, reasonable attorney's fees and other related costs and expenses, incurred in connection with or in any manner arising out of Contractor's performance of the work contemplated by this Agreement and this Agreement. Acceptance of this Agreement signifies that the Contractor is not covered under the City's general liability insurance, employee benefits, or worker's compensation. It further establishes that the Contractor shall be fully responsible for such coverage. Contractor's obligation to indemnify shall survive expiration or termination of this Agreement, and shall not be restricted to insurance proceeds, if any, received by the City, the Moreno Valley Housing Authority, and the CSD, and their officers, agents and employees.
- K. Additional Indemnity Obligations. Contractor shall defend, with counsel of City's choosing and at Contractor's own cost, expense and risk, any and all claims, suits, actions or other proceedings of every kind covered by Section "J" that may be brought or instituted against City, the Moreno Valley Housing Authority, and the CSD, and their officers, agents and employees. Contractor shall pay and satisfy any judgment, award or decree that may be rendered against City, the Moreno Valley Housing Authority, and the CSD, and their officers, agents and employees as part of any such claim, suit, action or other proceeding. Contractor shall also reimburse City for the cost of any settlement paid by City, the Moreno Valley Housing Authority, and the CSD, and their officers, agents and employees as part of any such claim, suit, action or other proceeding. Such reimbursement shall include payment for City's attorney's fees and costs, including expert witness fees. Contractor shall reimburse City, the Moreno Valley Housing Authority, and the CSD, and their officers, agents and employees for any and all legal expenses and costs incurred by each of them in connection therewith or in enforcing the indemnity herein provided.
- L. Insurance Requirements. The Contractor will comply with the following insurance requirements at its sole expense. Insurance companies shall be rated (A Minus: VII—Admitted) or better in Best's Insurance Rating Guide and shall be legally licensed and qualified to conduct business in the State of California:

The Contractor shall procure and maintain, at its sole expense, Workers' Compensation Insurance in such amounts as will fully comply with the laws of the State of California and which shall indemnify, insure and provide legal

defense for the Contractor and the City, the Housing Authority and CSD against any loss, claim, or damage arising from any injuries or occupational diseases happening to any worker employed by the Contractor in the course of carrying out the Agreement. This coverage may be waived if the Contractor is determined to be functioning as a sole proprietor and the city provided form “Exception to Worker’s Compensation Coverage” is signed, notarized and attached to this Agreement

General Liability Insurance—to protect against loss from liability imposed by law for damages on account of bodily injury, including death, and/or property damage suffered or alleged to be suffered by any person or persons whomever, resulting directly or indirectly from any act or activities of the Contractor, sub-Contractor, or any person acting for the Contractor or under its control or direction. Such insurance shall be maintained in full force and effect throughout the terms of the Agreement and any extension thereof in the minimum amounts provided below:

Bodily Injury	\$1,000,000 per occurrence/ \$2,000,000 aggregate
Property Damage	\$500,000 per occurrence/ \$500,000 aggregate

Professional Errors and Omission Insurance—such coverage shall not be less than \$1,000,000 per claim and aggregate.

Liability and Property Damage Insurance coverage for owned and non-owned automotive equipment operated on City/CSD/Housing Authority premises. Such coverage limits shall not be less than \$1,000,000 combined single limit.

A Certificate of Insurance and appropriate additional insured endorsement evidencing the above applicable insurance coverage shall be submitted to the City prior to the execution of this Agreement. The Certificate of Insurance or an appropriate binder shall bear an endorsement containing the following provisions:

Solely as respect to services done by or on behalf of the named insured for the City of Moreno Valley, it is agreed that the City of Moreno Valley, the Moreno Valley Housing Authority, and the Moreno Valley Community Services District, their officers, employees and agents are included as additional insured under this policy and the coverage(s) provided shall be primary insurance and not contributing with any other insurance available to the City of Moreno Valley, the Moreno Valley Housing Authority, and the Moreno Valley Community Services District, its officers, employees and agents, under any third party liability policy

The terms of the insurance policy or policies issued to provide the above coverage shall neither be amended to reduce the required insurance limits and

coverages nor shall such policies be canceled by the carrier without thirty (30) days prior written notice by certified or registered mail of amendment or cancellation to the City, except that cancellation for non-payment of premium shall require ten (10) days prior written notice by certified or registered mail. In the event the insurance is canceled, the Contractor shall, prior to the cancellation date, submit new evidence of insurance in the amounts established.

- M. Intellectual Property. Any system or documents developed, produced or provided under this Agreement, including any intellectual property discovered or developed by Contractor in the course of performing or otherwise as a result of its work, shall become the sole property of the City unless explicitly stated otherwise in this Agreement. The Contractor may retain copies of any and all material, including drawings, documents, and specifications, produced by the Contractor in performance of this Agreement. The City and the Contractor agree that to the extent permitted by law, until final approval by the City, all data shall be treated as confidential and will not be released to third parties without the prior written consent of both parties.
- N. Entire Agreement. This Agreement constitutes the entire agreement between the parties. There are no understandings, agreements, or representations of warranties, expressed or implied, not specified in this Agreement. This Agreement applies only to the current proposal as attached. This Agreement may be modified or amended only by a subsequent written Agreement signed by both parties. Assignment of this Agreement is prohibited without prior written consent.
- O. (a) The City may terminate the whole or any part of this Agreement at any time without cause by giving at least thirty (30) days written notice to the Contractor. The written notice shall specify the date of termination. Upon receipt of such notice, the Contractor may continue work through the date of termination, provided that no work or service(s) shall be commenced or continued after receipt of the notice which is not intended to protect the interest of the City. The City shall pay the Contractor within thirty (30) days after receiving any invoice after the date of termination for all non-objected to services performed by the Contractor in accordance herewith through the date of termination.
- (b) Either party may terminate this Agreement for cause. In the event the City terminates this Agreement for cause, the Contractor shall perform no further work or service(s) under the Agreement unless the notice of termination authorizes such further work.
- (c) If this Agreement is terminated as provided herein, City may require Contractor to provide all finished or unfinished documents and data and other information of any kind prepared by Contractor in connection with the performance of services under this Agreement. Contractor shall be required to provide such documents and other information within fifteen (15) days of the request.

(d) In the event this Agreement is terminated in whole or in part as provided herein, City may procure, upon such terms and in such manner as it may determine appropriate, similar to those terminated.

- P. Payment. Payments to the Contractor pursuant to this Agreement will be reported to Federal and State taxing authorities as required. The City will not withhold any sums from compensation payable to Contractor. Contractor is independently responsible for the payment of all applicable taxes. Where the payment terms provide for compensation on a time and materials basis, the Contractor shall maintain adequate records to permit inspection and audit of the Contractor’s time and materials charges under the Agreement. Such records shall be retained by the Contractor for three (3) years following completion of the services under the Agreement.
- Q. Restrictions on City Employees. The Contractor shall not employ any City employee or official in the work performed pursuant to this Agreement. No officer or employee of the City shall have any financial interest in this Agreement in violation of federal, state, or local law.
- R. Choice of Law and Venue. The laws of the State of California shall govern the rights, obligations, duties, and liabilities of the parties to this Agreement, and shall govern the interpretation of this Agreement. Any legal proceeding arising from this Agreement shall be brought in the appropriate court located in Riverside County, State of California.
- S. Delivery of Notices. All notices permitted or required under this Agreement shall be given to the respective parties at the following address, or at such other address as the respective parties may provide in writing for this purpose:

Contractor:

American Forensics Nursing
78060 Calle Estado, Suite #1
La Quinta, CA 92257

PO BOX 1625
La Quinta, CA 92247
Attn: Alvaro Carlos Martinez

City:

City of Moreno Valley
14177 Frederick Street
P.O. Box 88005
Moreno Valley, CA 92552
Attn: Acting Chief of Police David Lelevier

Such notice shall be deemed made when personally delivered or when mailed, forty-eight (48) hours after deposit in the U.S. Mail, first class postage prepaid and addressed to the party at its applicable address.

Actual notice shall be deemed adequate notice on the date actual notice occurred, regardless of the method of service.

- T. Time of Essence. Time is of the essence for each and every provision of this Agreement.
- U. City's Right to Employ Other Contractors. City reserves right to employ other contractors in connection with this project.
- V. Amendment; Modification. No supplement, modification, or amendment of this Agreement shall be binding unless executed in writing and signed by both parties.
- W. Waiver. No waiver of any default shall constitute a waiver of any other default or breach, whether of the same or other covenant or condition. No waiver, benefit, privilege, or service voluntarily given or performed by a party shall give the other party any contractual rights by custom, estoppel, or otherwise.
- X. No Third-Party Beneficiaries. There are no intended third-party beneficiaries of any right or obligation assumed by the parties.
- Y. Counterparts. This Agreement may be signed in counterparts, each of which shall constitute an original.
- Z. Invalidity; Severability. If any portion of this Agreement is declared invalid, illegal, or otherwise unenforceable by a court of competent jurisdiction, the remaining provisions shall continue in full force and effect.
- AA. Assignment or Transfer. Contractor shall not assign, hypothecate, or transfer, either directly or by operation of law, this Agreement or any interest herein without the prior written consent of the City. Any attempt to do so shall be null and void, and any assignees, hypothecates or transferees shall acquire no right or interest by reason of such attempted assignment, hypothecation or transfer.
- BB. Supplementary General Conditions (for projects that are funded by Federal programs). The following provisions, pursuant to 44 Code of Federal Regulations, Part 13, Subpart C, Section 13.36, as it may be amended from time to time, are included in the Agreement and are required to be included in all subcontracts entered into by CONTRACTOR for work pursuant to the Agreement, unless otherwise expressly provided herein. These provisions supersede any conflicting provisions in the General Conditions and shall take precedence over the General Conditions for purposes of interpretation of the General Conditions. These provisions do not otherwise modify or replace General Conditions not in direct conflict with these provisions. Definitions used in these provisions are as contained in the General Conditions.
 - 1. CONTRACTOR shall be subject to the administrative, contractual, and legal remedies provided in the General Conditions in the event CONTRACTOR violates or breaches terms of the Agreement.
 - 2. CITY may terminate the Agreement for cause or for convenience, and CONTRACTOR may terminate the Agreement, as provided the General Conditions.

3. CONTRACTOR shall comply with Executive Order 11246 of September 24, 1965, entitled Equal Employment Opportunity, as amended by Executive Order 11375 of October 13, 1967, and as supplemented in Department of Labor regulations (41 CFR chapter 60). (All construction contracts awarded in excess of \$10,000 by CITY and/or subcontracts in excess of \$10,000 entered into by CONTRACTOR.)
4. CONTRACTOR shall comply with the Copeland Anti-Kickback Act (18 U.S.C. 874) as supplemented in Department of Labor regulations (29 CFR Part 3) (All contracts and subcontracts for construction or repair.)
5. CONTRACTOR shall comply with the Davis-Bacon Act (40 U.S.C. 276a to 276a7) as supplemented by Department of Labor regulations (29 CFR Part 5).
6. CONTRACTOR shall comply with Sections 103 and 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 327330) as supplemented by Department of Labor regulations (29 CFR Part 5).
7. CONTRACTOR shall observe CITY requirements and regulations pertaining to reporting included in the General Conditions.
8. Patent rights with respect to any discovery or invention which arises or is developed in the course of or under the Agreement shall be retained by the CITY.
9. Copyrights and rights in data developed in the course of or under the Agreement shall be the property of the CITY. FEMA/CalOES reserve a royalty-free, nonexclusive, irrevocable license to reproduce, publish or otherwise use or authorize to others to use for federal purposes a copyright in any work developed under the Agreement and/or subcontracts for work pursuant to the Agreement.
10. CONTRACTOR shall provide access by the City, the Federal grantor agency, the Comptroller General of the United States, or any of their duly authorized representatives to any books, documents, papers, and records of the contractor which are directly pertinent to that specific contract for the purpose of making audit, examination, excerpts, and transcriptions.
11. CONTRACTOR shall retain all required records for three years after CITY makes final payments and all other pending matters relating to the Agreement are closed.
12. CONTRACTOR shall comply with all applicable standards, orders, or requirements issued under section 306 of the Clean Air Act (42 U.S.C. 1857(h)), section 508 of the Clean Water Act (33 U.S.C. 1368), Executive Order 11738, and Environmental Protection Agency regulations (40 CFR part 15). (This provision applies to contracts exceeding \$100,000 and to subcontracts entered into pursuant to such contracts.)
13. CONTRACTOR shall comply with mandatory standards and policies relating to energy efficiency which are contained in the State energy conservation plan issued in compliance with the Energy Policy and Conservation Act (Pub. L. 94163, 89 Stat. 871).

SIGNATURE PAGE TO FOLLOW

IN WITNESS HEREOF, the parties have each caused their authorized representative to execute this Agreement.

City of Moreno Valley

American Forensic Nurses

BY: _____
Thomas M. DeSantis, City Manager

BY: _____
Alvaro Carlos Martinez

Date

TITLE: Chief Operating Officer

Date

BY: _____

TITLE: _____
(Corporate Secretary)

Date

<p><u>INTERNAL USE ONLY</u></p> <p>APPROVED AS TO LEGAL FORM:</p> <p>_____ Martin Koczanowicz, City Attorney</p> <p>_____ Date</p> <p>RECOMMENDED FOR APPROVAL:</p> <p>_____ David Lelevier, Acting Chief of Police</p> <p>_____ Date</p>
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Attachment: FY19-20 to FY22-23_American Forensic Nurses Contract (3601 : AWARD A FOUR YEAR CONTRACT TO AMERICAN FORENSIC

EXHIBIT A

Scope of Service – 07/01/2019 through 06/30/2023

- I. Blood Draw: Phlebotomy is the drawing of blood from a subject for a variety of purposes, transfusion, diagnosis, content analysis, or experiment. Law enforcement's interest in a blood sample is generally to obtain content analysis as evidence in narcotic or alcohol related events, and to obtain DNA samples for comparison to bodily fluid or body part samples collected at a crime scene. The general authority of law enforcement to obtain evidence is covered under Article I, Section 13 of the California State Constitution. Law enforcement is also obligated, by state law to offer blood draws in the investigation of driving under the influence cases, per Section 23158 of the California Vehicle Code. Blood draws are also a part of sex offender and arson registrant DNA collection under Section 296 of the California Penal Code. The obtaining of blood or urine samples is also an integral part of many non-driving-under-the-influence criminal investigations. Blood or urine samples may be requested for a variety of reasons and the process of collecting such samples must meet all applicable laws and regulations for the collection of:
 - a. Blood alcohol content analysis.
 - b. Controlled substance content analysis.
 - c. DNA analysis.
 - d. For storage, later analysis, or to be a control sample.

2. Urine Specimen Collection: CONTRACTOR may be asked to conduct urine collection for content analysis.

3. Suspect Sex Kit: Sexual Assault Suspect Examinations will be conducted in accordance with the California Office of Criminal Justice Planning (OCJP) guidelines, using sex kits available from the California Department of Justice obtained by the CONTRACTOR. Documentation of the examination and the specimens will be completed using the OCJP 950 form (Forensic Medical Report: Sexual Assault Suspect Examination) or any subsequent form approved by the California Department of Justice for such use. The original of the form will be provided to the investigating officer. A copy will be submitted with the sex kit and turned over to the investigating officer for appropriate disposition, and the person conducting the examination will retain a copy.
 - a. CONTRACTOR is expected to conduct evidence collection from a sexual assault suspect (blood, nail scraping, hair, combing and such).

4. Dry Run (blood, urine, sex assault kit): Occasionally it is impossible or impractical to obtain a blood sample or urine collection in a medically approved manner. The CONTRACTOR may have been unable to complete a sexual assault kit, or other service, for a variety of legitimate reasons. However, the CONTRACTOR may have dispatched staff at the request of law enforcement and

may have expended supplies in the anticipation of services being rendered. It is suggested that this fee be less than that charged for a successful request for service.

5. Supplies: The CONTRACTOR is responsible for providing all necessary supplies to appropriately collect and package items or evidence. These items must meet medical standards and evidence standards for submission in a court of law. Sample collection containers are available through local California Department of Justice Crime Labs and sample screening vendors.
6. Disposal of Waste: The CONTRACTOR will dispose of all waste in accordance with all applicable laws and regulations. The CONTRACTOR will be responsible for providing sharps containers at each Sheriff's station or corrections facility for the disposal of used syringes. The CONTRACTOR will be required to provide for waste disposal at remote sites as needed (for example: blood draws performed at DU I check points, accident scenes, boating enforcement programs, and such).
 - a. CONTRACTOR shall possess and maintain, as required by law, all applicable medical waste permits issued by the Riverside County Department Environmental Health, and any other necessary permit sufficient to encompass the contractor's total volume of medical waste generated and/or transported.
7. Court Time: The CONTRACTOR will be available to provide expert court testimony for all of the services provided. The CONTRACTOR'S staff may be subpoenaed to testify in actions related to their participation in the chain of custody, or the circumstances of the collection of evidence. This cost should be factored into the bid for each service (blood draw, urine sample collection, Suspect sexual assault kit). If there is a separate charge, the Department should pay only for the time spent testifying or at court waiting to testify, not for being "on-call."
8. Service Requirements:
 - a. The CONTRACTOR shall provide this service with personnel properly licensed or certified in the State of California such as Registered Nurses, Licensed Vocational Nurses, Paramedics, Certified Phlebotomists, or other persons certified to draw blood and urine samples and collect sexual assault evidence from rape suspects in the State of California.
 1. Only licensed personnel, in accordance with all applicable statutes and regulations, are to be used in the obtaining of blood or urine samples utilized in the investigation of California Vehicle Code violations.
 2. The CONTRACTOR shall comply with all applicable statutes and regulations for the collection of blood or urine samples for alcohol testing. And use California Department of Justice (DOJ) gray topped tubes for alcohol analysis distributed by the DOJ for the collection of blood samples.

- b. The CONTRACTOR and their employees shall be familiar with the handling of evidence and the proper protocol for obtaining blood and suspect rape evidence. as well as any other evidence collected. They shall maintain the correct chain of evidence in accordance with Riverside County Sheriff's Department policies and procedures. Upon award, Sheriff Procedures will be given to CONTRACTOR.
 - 1. Subjects from, horn blood is to be drawn or evidence collected may be recalcitrant. The CONTRACTOR shall assure that all personnel have experience with recalcitrant subjects. are trained to deal with recalcitrant subjects and an: willing to undertake dealing with possible recalcitrant subjects in the course or performing this service.
 - c. The CONTRACTOR is subject to and shall operate in compliance with all relevant requirements contained in the Health Insurance Portability and Accountability Act of 1996 (HIPAA). Public Law I 04-191. enacted August 21. 1996, and the related laws and regulations promulgated subsequent thereto.
9. Respond Time:
- a. The maximum acceptable time for a response to a call for service is thirty-(30) minutes from the time requested to arrival at the scene. This should include calls for service in the Blythe Sheriff's Station service area.
 - b. Acceptable response time from the time of notification shall be no longer than thirty-(30) minutes. CONTRACTOR will be monitored pursuant to response times. Response times shall commence from the time of initial contact by Sheriffs dispatch and conclude upon arrival at the location requested by Sheriff's personnel. CONTRACTOR shall be considered "Late" to a call if any time elapses past the response time. Three (3) "Late" responses in any given thirty-(30) day period may be considered a breach of contract and may be subject to termination.
 - c. If the CONTRACTOR arrives at a Sheriffs facility and is unable to locale the requesting law enforcement officer with in fifteen-(15) minutes, contractor shall contact Sheriff's Dispatch via the law enforcement phone number for updated arrival or location information. prior to leaving the site.
 - d. CONTRACTOR shall be considered "No Show" to a call if no arrival forty-five (45) minutes after the initial call from Sheriff's Dispatch. Two (2) "No Shows" within a one (1) year period may be considered as breach of contract and may be subject to termination.
 - e. Language will be included that allows a penalty for delayed responses, such as, if the response, takes longer than one-(I) hour, COUNTY will have to pay one half the regular fee. The collection of blood and urine samples is time sensitive. Generally, the sooner the COUNTY obtains the samples the greater their value to the case.
 - f. The Sheriff's Department is not to be charged for a second response if the case agent rejects the staff member originally called out.

10. Vendor Requirements:
- a. The CONTRACTOR will provide photo identification for each staff member. Staff members will wear photo identification at all times when at a Sheriff's facility or remote site. The identification shall be updated yearly and display the following information:
 1. Name of staff member
 2. Title (e.g. Registered Nurse, Licensed Vocational Nurse, phlebotomist and technician)
 3. CONTRACTOR'S business name, address, and twenty-four (24) hours contact phone number.
 - b. The CONTRACTOR will maintain a twenty-four-hour, seven day a week toll free contact number for call-outs. The service must provide a confirmation that a staff member is responding to the requested location and an estimated time of arrival.
 - c. The CONTRACTOR MUST NOTIFY THE Department if members of their staff are fired, arrested, or become involved in circumstances that may cause their credibility, testimony, or the quality of their evidence collection to be called into question.
 - d. The CONTRACTOR's responding staff must notify the case agent if the subject of the service is known to, or related to, the staff member before service is rendered.
11. Background Requirements:
- a. CONTRACTOR'S staff and employees will submit to and pass a Level 2 Security Check, prior to being allowed to provide the contracted service. The Sheriff's Personnel Bureau will conduct these security checks. Level 2 Security Check may include the following or other information as requested by Sheriffs Personnel:
 1. Photograph
 2. Completion of a background questionnaire
 3. Fingerprint submission to the FBI, and DOJ for a criminal history check
 4. Driver's license check
 5. Wanted persons check
 6. Local law enforcement contacts
 7. Presentation of driver's license, SSN card, DD2 I 4. Selective service registration, marriage license, divorce decree, birth certificate, financial information, and such
 - b. Failure to pass a background check is sufficient reason to reject the services of a staff member. The Sheriff's Department reserves the right to reject staff that the COUNTY determines would jeopardize the integrity of an investigation, be an ethical conflict, or present facility security or an officer safety risk.

EXHIBIT B
City's Responsibilities

1. The City will provide the Contractor with telephone number for Sheriff's Dispatch.
2. Officer will respond and give Contractor access to the building.
3. Officer will provide secure access to detainee and will witness/monitor the collection of evidence.

EXHIBIT C

TERMS OF PAYMENT

1. The Contractor's compensation shall not exceed \$40,000 per fiscal year, not to exceed \$160,000 over the total time-period of the Agreement unless modified by an Amendment signed by all parties.

2. The Contractor will obtain, and keep current during the term of this Agreement, the required City of Moreno Valley business license. Proof of a current City of Moreno Valley business license will be required prior to any payments by the City. Any invoice not paid because the proof of a current City of Moreno Valley business license has not been provided will not incur any fees, late charges, or other penalties. Complete instructions for obtaining a City of Moreno Valley business license are located at: http://www.moval.org/do_biz/biz-license.shtml

3. The Contractor will electronically submit an invoice to the City on a monthly basis for progress payments along with documentation evidencing services completed to date. The progress payment is based on actual time and materials expended in furnishing authorized professional services since the last invoice. At no time will the City pay for more services than have been satisfactorily completed and the City's determination of the amount due for any progress payment shall be final. The Contractor will submit all original invoices to Accounts Payable staff at AccountsPayable@moval.org

Accounts Payable questions can be directed to (951) 413-3073.

Copies of invoices may be submitted to the Police Department at:

22850 Calle San Juan De Los Lagos
P.O. Box 88005
Moreno Valley, CA 92552-0805

Questions can be directed to:

Dana Leggett (951) 486-6840 or Maggi Bollinger (951) 486-6712

4. The Contractor agrees that City payments will be received via Automated Clearing House (ACH) Direct Deposit and that the required ACH Authorization form will be completed prior to any payments by the City. Any invoice not paid because the completed ACH Authorization Form has not been provided will not incur any fees, late charges, or other penalties. The ACH Authorization Form is located at: http://www.moval.org/city_hall/forms.shtml#bf

5. The minimum information required on all invoices is:
 - A. Vendor Name, Mailing Address, and Phone Number
 - B. Invoice Date
 - C. Vendor Invoice Number
 - D. City-provided Reference Number (e.g. Project, Activity)
 - E. Detailed work hours by class title (e.g. Manager, Technician, or Specialist), services performed and rates, explicit portion of a contract amount, or detailed billing information that is sufficient to justify the invoice amount; single, lump amounts without detail are not acceptable.
6. The City shall pay the Contractor for all invoiced, authorized professional services within thirty (30) days of receipt of the invoice for same.
7. Reimbursement for Expenses. Contractor shall not be reimbursed for any expenses unless authorized in writing by City.
8. Maintenance and Inspection. Contractor shall maintain complete and accurate records with respect to all costs and expenses incurred under this Agreement. All such records shall be clearly identifiable. Contractor shall allow a representative of City during normal business hours to examine, audit, and make transcripts or copies of such records and any other documents created pursuant to this Agreement. Contractor shall allow inspection of all work, data, documents, proceedings, and activities related to the Agreement for a period of three (3) years from the date of final payment under this Agreement.

Payment Provisions

As outlined in Riverside County Contract ID SHARC-96148-003-10/28, Page 4, Section 3.2, no price increases will be permitted for the first three (3) years beginning 11/01/2018 through 10/31/2021. Any price increases must be stated in a written amendment to this Agreement. No retroactive price adjustments will be considered. In the State of California, Government agencies are not allowed to pay excess interest and late charges, per Government Codes, Section 926.10. The net dollar amount of profit will remain firm during the period of the Agreement. Annual increases shall not exceed the Consumer Price Index- All Consumers, All Items - Greater Los Angeles, Riverside and Orange County areas and be subject to satisfactory performance reviewed in accordance with County Contract SHARC-96148-003-10/28.

07/01/2019 to 06/30/2023

DUI Blood Draw	\$ 55.00
Dry Run DUI Blood Draw	\$ 30.00
Non-DUI Blood Draw	\$ 55.00
Dry Run Non-DUI Blood Draw	\$ 30.00
Urine collection	\$ 55.00
Dry Run Urine Collection	\$ 30.00
Suspect Sex Kit	\$100.00
Dry Run Suspect Sex Kit	\$ 30.00
Court Time (per hour)	\$ 75.00



Report to City Council

TO: Mayor and City Council

FROM: David Lelevier,

AGENDA DATE: June 4, 2019

TITLE: AWARD A FOUR YEAR CONTRACT TO BIO-TOX LABORATORIES FOR \$100,000 PER FISCAL YEAR, FOR AN AMOUNT NOT TO EXCEED \$400,000 FOR LIFE OF CONTRACT

RECOMMENDED ACTION

Recommendations:

1. Approve and award a four year contract for an amount not to exceed \$400,000 to Bio-Tox Laboratories to conduct toxicology testing for the Moreno Valley Police Department from FY19/20 through FY22/23.
2. Authorize the Moreno Valley Police Department to execute a Purchase Order to Bio-Tox Laboratories for \$100,000 per fiscal year, from General Fund Account No. 1010-60-65-40010-625099.

SUMMARY

This report recommends award of a four year contract for an amount not to exceed \$400,000 to Bio-Tox Laboratories for toxicology testing services, to include both blood and urine. The Moreno Valley Police Department will execute an annual purchase order in the amount of \$100,000 per fiscal year.

The County of Riverside contracts with Bio-Tox Laboratories for toxicology testing services, to include both blood and urine. The City of Moreno Valley participates in this contract. Pursuant to 3.12.260, Materials, supplies and equipment—Cooperative purchasing. Where advantageous for the City and to the extent consistent with state law, the City Manager may authorize the Financial & Administrative Services Director or the Purchasing Manager to purchase supplies, materials, equipment or contractual services through legal, competitively awarded contracts with or of other governmental

jurisdictions or public agencies, including California Multiple Award Schedules (CMAS) commonly referred to as “piggybacking,” without further contracting, solicitation or formal bidding as described in this chapter”. (Ord. 624 § 1.7, 2003: Ord. 587 § 2.1 (part), 2001).

DISCUSSION

Over the last few years, the Moreno Valley Police Department has had a substantial increase in the number of Bio-Tox Laboratories for toxicology tests. This increase is partially due to increased DUI enforcement; however, toxicology testing has become more frequent in other types of investigations like fatal collisions, child endangerment, sexual assaults, suspicious deaths, substance abuse and employee exposure to blood-borne pathogens.

Bio-Tox Laboratories collects samples of both blood and urine. A sample sent to Bio-Tox may be tested for multiple drugs and/or alcohol. Based on the type of drug(s) located, an additional test is then conducted to confirm each drug’s presence and quantity. Alcohol tests range from \$42-\$99/per test and drug tests range from \$19-\$199/per test. Multiple tests are often conducted on each submitted sample. We anticipate that the annual charge for Bio-Tox Laboratories will be approximately \$100,000 per fiscal year, due to the increase of toxicology testing.

ALTERNATIVES

The City Council has the following alternatives:

- 1) Authorize the Moreno Valley Police Department to execute a purchase order to Bio-Tox Laboratories for \$100,000 per fiscal year for four years, for an amount not to exceed \$400,000 for the life of the contract. **Staff recommends this alternative as it will continue to allow toxicology testing to be conducted.**
- 2) Not authorize the Moreno Valley Police Department to execute a purchase order to Bio-Tox Laboratories for \$100,000 per fiscal year for four years, for an amount not to exceed \$400,000 for the life of the contract. **Staff does not recommend this alternative as it could negatively impact investigation services provided by the Police Department.**

FISCAL IMPACT

Funds are approved and available in the Moreno Valley Police Departments FY19/20 and FY20/21 General Fund Account No. 1010-60-65-40010-625099 in the amount of \$100,000 per fiscal year to Bio-Tox Laboratories as this is a routine and anticipated expenditure. Budget for FY21/22 and FY22/23 will be included in the department’s budget request submission for those fiscal years.

PREPARATION OF STAFF REPORT

Prepared By:

Department Head Approval:

Michael Koehler
Administrative Lieutenant

David Lelevier
Acting Police Chief

Concurred By:
Felicia London
Public Safety Contracts Administrator

CITY COUNCIL GOALS

None

CITY COUNCIL STRATEGIC PRIORITIES

- 1. Economic Development
- 2. Public Safety
- 3. Library
- 4. Infrastructure
- 5. Beautification, Community Engagement, and Quality of Life
- 6. Youth Programs

ATTACHMENTS

- 1. FY19-20 to FY22-23_Bio-tox Laboratories Contract

APPROVALS

Budget Officer Approval	<u>✓ Approved</u>	5/23/19 8:48 AM
City Attorney Approval	<u>✓ Approved</u>	5/28/19 4:38 PM
City Manager Approval	<u>✓ Approved</u>	5/30/19 1:26 PM

City of Moreno Valley

AGREEMENT FOR ON-SITE AND/OR PROFESSIONAL SERVICES

This Agreement is made by and between the City of Moreno Valley, California, a municipal corporation, with its principal place of business at 14177 Frederick Street, Moreno Valley, CA 92552, hereinafter referred to as the “City”, and **Bio-tox Laboratories, Inc., a Corporation**, with its principal place of business at **1965 Chicago Avenue, Suite C, Riverside, CA 92507**, hereinafter referred to as the “Contractor,” based upon City policies and the following legal citations:

RECITALS

- A. Government Code Section 53060 authorizes the engagement of persons to perform special services as independent contractors;
- B. Contractor desires to perform and assume responsibility for the provision of professional **forensics toxicology analysis** contracting services required by the City on the terms and conditions set forth in this Agreement. Contractor represents that it is experienced in providing professional **forensics toxicology analysis** contracting services, is licensed in the State of California, if applicable;
- C. City desires to engage Contractor to render such services for the **forensics toxicology analysis** as set forth in this Agreement;
- D. The public interest, convenience, necessity and general welfare will be served by this Agreement; and
- E. This Agreement is made and entered into effective the date the City signs this Agreement.

TERMS**1. CONTRACTOR INFORMATION:**

Contractor’s Name: Bio-tox Laboratories, Inc.
 Address: 1965 Chicago Avenue #C
 City: Riverside State: CA Zip: 92507
 Business Phone: 951-341-9355 Fax No. 951-341-9359
 Other Contact Number: _____
 Business License Number: 0070911
 Federal Tax I.D. Number: 33-0766246

2. CONTRACTOR SERVICES, FEES, AND RELEVANT DATES:

- A. The Contractor’s scope of service is described in Exhibit “A” attached hereto and incorporated herein by this reference.
- B. The City’s responsibilities, other than payment, are described in Exhibit “B” attached hereto and incorporated herein by this reference.

- C. Payment terms are provided in Exhibit “C” attached hereto and incorporated herein by this reference.
- D. The term of this Agreement shall be from July 1, 2019 to June 30, 2023. This Agreement may be terminated, by City with or without cause upon thirty (30) days written notice to Contractor/Vendor. City shall be responsible for payment of all services rendered and costs incurred by Contractor/Vendor prior to the termination date. Contractor/Vendor may terminate this Agreement with or without cause upon thirty (30) days written notice to City and only if City will suffer no actual or perceived harm or prejudice in any pending matter by Contractor/Vendor’s termination.
The City acknowledges that it will not unreasonably withhold approval of the Contractor’s requests for extensions of time in which to complete the work required. The Contractor shall not be responsible for performance delays caused by others or delays beyond the Contractor’s reasonable control (excluding delays caused by non-performance or unjustified delay by Contractor, his/her/its employees, or subcontractors), and such delays shall extend the time for performance of the work by the Contractor.

3. **STANDARD TERMS AND CONDITIONS:**

- A. Control of Work. Contractor is solely responsible for the content and sequence of the work and will not be subject to control and direction as to the details and means for accomplishing the anticipated results of services. The City will not provide any training to Contractor or his/her/its employees.
- B. Intent of Parties. Contractor is, and at all times shall be, an independent contractor and nothing contained herein shall be construed as making the Contractor or any individual whose compensation for services is paid by the Contractor, an agent or employee of the City, or authorizing the Contractor to create or assume any obligation or liability for or on behalf of the City, or entitling the Contractor to any right, benefit, or privilege applicable to any officer or employee of the City.
- C. Subcontracting. Contractor may retain or subcontract for the services of other necessary contractors with the prior written approval of the City. Payment for such services shall be the responsibility of the Contractor. Any and all subcontractors shall be subject to the terms and conditions of this Agreement, with the exception that the City shall have no obligation to pay for any subcontractor services rendered. Contractor shall be responsible for paying prevailing wages where required by law [See California Labor Code Sections 1770 through 1777.7].
- D. Conformance to Applicable Requirements. All work prepared by Contractor shall be subject to the approval of City.
- E. Substitution of Key Personnel. Contractor has represented to City that certain key personnel will perform and coordinate the services under this Agreement. Should one or more of such personnel become unavailable, Contractor may substitute other personnel of at least equal competence upon written approval of City. In the event, that City and Contractor cannot agree as to the

substitution of key personnel, City shall be entitled to terminate this Agreement for cause. As discussed below, any personnel who fail or refuse to perform the services in a manner acceptable to the City, or who are determined by the City to be uncooperative, incompetent, a threat to the adequate or timely completion of the project or a threat to the safety of persons or property, shall be promptly removed from the project by the Contractor at the request of the City. The key personnel for performance of this Agreement are as follows: **Tracey Stangarone**.

- F. City's Representative. The City hereby designates the City Manager, or his or her designee, to act as its representative for the performance of this Agreement ("City's Representative"). Contractor shall not accept direction or orders from any person other than the City's Representative or his or her designee.
- G. Contractor's Representative. Contractor hereby designates **Tracey Stangarone, Business Manager**, or his or her designee, to act as its representative for the performance of this Agreement ("Contractor's Representative"). Contractor's Representative shall have full authority to represent and act on behalf of the Contractor for all purposes under this Agreement. The Contractor's Representative shall supervise and direct the services, using his or her best skill and attention, and shall be responsible for all means, methods, techniques, sequences and procedures and for the satisfactory coordination of all portions of the services under this Agreement.
- H. Legal Considerations. The Contractor shall comply with applicable federal, state, and local laws in the performance of this Agreement. Contractor shall be liable for all violations of such laws and regulations in connection with services. If the Contractor performs any work knowing it to be contrary to such laws, rules and regulations and without giving written notice to the City, Contractor shall be solely responsible for all costs arising therefrom. Contractor shall defend, indemnify and hold City, its officials, directors, officers, employees and agents free and harmless, pursuant to the indemnification provisions of this Agreement, from any claim or liability arising out of any failure or alleged failure to comply with such laws, rules or regulations.
- I. Standard of Care; Performance of Employees. Contractor shall perform all services under this Agreement in a skillful and competent manner, consistent with the standards generally recognized as being employed by professionals in the same discipline in the State of California. Contractor represents and maintains that it is skilled in the profession necessary to perform the services. Contractor warrants that all employees and subcontractor shall have sufficient skill and experience to perform the services assigned to them. Finally, Contractor represents that it, its employees and subcontractors have all licenses, permits, qualifications and approvals of whatever nature that are legally required to perform the services and that such licenses and approvals shall be maintained throughout the term of this Agreement. Any employee of the Contractor or its subcontractors who is determined by the City to be uncooperative, incompetent, a threat to the adequate or timely completion of

the project, a threat to the safety of persons or property, or any employee who fails or refuses to perform the services in a manner acceptable to the City, shall be promptly removed from the project by the Contractor and shall not be re-employed to perform any of the services or to work on the project.

- J. Contractor Indemnification. Contractor shall indemnify, defend and hold the City, the Moreno Valley Housing Authority, and the Moreno Valley Community Services District (CSD), their officers, agents and employees harmless from any and all claims, damages, losses, causes of action and demands, including, without limitation, the payment of all consequential damages, expert witness fees, reasonable attorney's fees and other related costs and expenses, incurred in connection with or in any manner arising out of Contractor's performance of the work contemplated by this Agreement and this Agreement. Acceptance of this Agreement signifies that the Contractor is not covered under the City's general liability insurance, employee benefits, or worker's compensation. It further establishes that the Contractor shall be fully responsible for such coverage. Contractor's obligation to indemnify shall survive expiration or termination of this Agreement, and shall not be restricted to insurance proceeds, if any, received by the City, the Moreno Valley Housing Authority, and the CSD, and their officers, agents and employees.
- K. Additional Indemnity Obligations. Contractor shall defend, with counsel of City's choosing and at Contractor's own cost, expense and risk, any and all claims, suits, actions or other proceedings of every kind covered by Section "J" that may be brought or instituted against City, the Moreno Valley Housing Authority, and the CSD, and their officers, agents and employees. Contractor shall pay and satisfy any judgment, award or decree that may be rendered against City, the Moreno Valley Housing Authority, and the CSD, and their officers, agents and employees as part of any such claim, suit, action or other proceeding. Contractor shall also reimburse City for the cost of any settlement paid by City, the Moreno Valley Housing Authority, and the CSD, and their officers, agents and employees as part of any such claim, suit, action or other proceeding. Such reimbursement shall include payment for City's attorney's fees and costs, including expert witness fees. Contractor shall reimburse City, the Moreno Valley Housing Authority, and the CSD, and their officers, agents and employees for any and all legal expenses and costs incurred by each of them in connection therewith or in enforcing the indemnity herein provided.
- L. Insurance Requirements. The Contractor will comply with the following insurance requirements at its sole expense. Insurance companies shall be rated (A Minus: VII—Admitted) or better in Best's Insurance Rating Guide and shall be legally licensed and qualified to conduct business in the State of California:

The Contractor shall procure and maintain, at its sole expense, Workers' Compensation Insurance in such amounts as will fully comply with the laws of the State of California and which shall indemnify, insure and provide legal defense for the Contractor and the City, the Housing Authority and CSD

against any loss, claim, or damage arising from any injuries or occupational diseases happening to any worker employed by the Contractor in the course of carrying out the Agreement. This coverage may be waived if the Contractor is determined to be functioning as a sole proprietor and the city provided form “Exception to Worker’s Compensation Coverage” is signed, notarized and attached to this Agreement

General Liability Insurance—to protect against loss from liability imposed by law for damages on account of bodily injury, including death, and/or property damage suffered or alleged to be suffered by any person or persons whomever, resulting directly or indirectly from any act or activities of the Contractor, sub-Contractor, or any person acting for the Contractor or under its control or direction. Such insurance shall be maintained in full force and effect throughout the terms of the Agreement and any extension thereof in the minimum amounts provided below:

Bodily Injury	\$1,000,000 per occurrence/ \$2,000,000 aggregate
Property Damage	\$500,000 per occurrence/ \$500,000 aggregate

Professional Errors and Omission Insurance—such coverage shall not be less than \$1,000,000 per claim and aggregate.

Liability and Property Damage Insurance coverage for owned and non-owned automotive equipment operated on City/CSD/Housing Authority premises. Such coverage limits shall not be less than \$1,000,000 combined single limit.

A Certificate of Insurance and appropriate additional insured endorsement evidencing the above applicable insurance coverage shall be submitted to the City prior to the execution of this Agreement. The Certificate of Insurance or an appropriate binder shall bear an endorsement containing the following provisions:

Solely as respect to services done by or on behalf of the named insured for the City of Moreno Valley, it is agreed that the City of Moreno Valley, the Moreno Valley Housing Authority, and the Moreno Valley Community Services District, their officers, employees and agents are included as additional insured under this policy and the coverage(s) provided shall be primary insurance and not contributing with any other insurance available to the City of Moreno Valley, the Moreno Valley Housing Authority, and the Moreno Valley Community Services District, its officers, employees and agents, under any third party liability policy

The terms of the insurance policy or policies issued to provide the above coverage shall neither be amended to reduce the required insurance limits and coverages, nor shall such policies be canceled by the carrier without thirty

(30) days prior written notice by certified or registered mail of amendment or cancellation to the City, except that cancellation for non-payment of premium shall require ten (10) days prior written notice by certified or registered mail. In the event the insurance is canceled, the Contractor shall, prior to the cancellation date, submit new evidence of insurance in the amounts established.

- M. Intellectual Property. Any system or documents developed, produced or provided under this Agreement, including any intellectual property discovered or developed by Contractor in the course of performing or otherwise as a result of its work, shall become the sole property of the City unless explicitly stated otherwise in this Agreement. The Contractor may retain copies of any, and all material, including drawings, documents, and specifications, produced by the Contractor in performance of this Agreement. The City and the City, all data shall be treated as confidential and will not be released to third parties without the prior written consent of both parties.
- N. Entire Agreement. This Agreement constitutes the entire agreement between the parties. There are no understandings, agreements, or representations of warranties, expressed or implied, not specified in this Agreement. This Agreement applies only to the current proposal as attached. This Agreement may be modified or amended only by a subsequent written Agreement signed by both parties. Assignment of this Agreement is prohibited without prior written consent.
- O. (a) The City may terminate the whole or any part of this Agreement at any time without cause by giving at least thirty (30) days written notice to the Contractor. The written notice shall specify the date of termination. Upon receipt of such notice, the Contractor may continue work through the date of termination, provided that no work or service(s) shall be commenced or continued after receipt of the notice which is not intended to protect the interest of the City. The City shall pay the Contractor within thirty (30) days after receiving any invoice after the date of termination for all non-objected to services performed by the Contractor in accordance herewith through the date of termination.
- (b) Either party may terminate this Agreement for cause. In the event the City terminates this Agreement for cause, the Contractor shall perform no further work or service(s) under the Agreement unless the notice of termination authorizes such further work.
- (c) If this Agreement is terminated as provided herein, City may require Contractor to provide all finished or unfinished documents and data and other information of any kind prepared by Contractor in connection with the performance of services under this Agreement. Contractor shall be required to provide such documents and other information within fifteen (15) days of the request.
- (d) In the event this Agreement is terminated in whole or in part as provided herein, City may procure, upon such terms and in such manner as it may determine appropriate, similar to those terminated.

- P. Payment. Payments to the Contractor pursuant to this Agreement will be reported to Federal and State taxing authorities as required. The City will not withhold any sums from compensation payable to Contractor. Contractor is independently responsible for the payment of all applicable taxes. Where the payment terms provide for compensation on a time and materials basis, the Contractor shall maintain adequate records to permit inspection and audit of the Contractor’s time and materials charges under the Agreement. Such records, shall be retained by the Contractor for three (3) years following completion of the services under the Agreement.
- Q. Restrictions on City Employees. The Contractor shall not employ any City employee or official in the work performed pursuant to this Agreement. No officer or employee of the City shall have any financial interest in this Agreement in violation of federal, state, or local law.
- R. Choice of Law and Venue. The laws of the State of California shall govern the rights, obligations, duties, and liabilities of the parties to this Agreement, and shall govern the interpretation of this Agreement. Any legal proceeding arising from this Agreement shall be brought in the appropriate court located in Riverside County, State of California.
- S. Delivery of Notices. All notices permitted or required under this Agreement shall be given to the respective parties at the following address, or at such other address as the respective parties may provide in writing for this purpose:

Contractor:

Bio-tox Laboratories, Inc.
 1965 Chicago Avenue #C
 Riverside, CA 92507
 Attn: Tracey Stangarone

City:

City of Moreno Valley
 14177 Frederick Street
 P.O. Box 88005
 Moreno Valley, CA 92552
 Attn: Acting Chief of Police David Lelevier

Such notice shall be deemed made when personally delivered or when mailed, forty-eight (48) hours after deposit in the U.S. Mail, first class postage prepaid and addressed to the party at its applicable address. Actual notice shall be deemed adequate notice on the date actual notice occurred, regardless of the method of service.

- T. Time of Essence. Time is of the essence for each and every provision of this Agreement.

- U. City's Right to Employ Other Contractors. City reserves right to employ other contractors in connection with this project.
- V. Amendment; Modification. No supplement, modification, or amendment of this Agreement shall be binding unless executed in writing and signed by both parties.
- W. Waiver. No waiver of any default shall constitute a waiver of any other default or breach, whether of the same or other covenant or condition. No waiver, benefit, privilege, or service voluntarily given or performed by a party shall give the other party any contractual rights by custom, estoppel, or otherwise.
- X. No Third-Party Beneficiaries. There are no intended third-party beneficiaries of any right or obligation assumed by the parties.
- Y. Counterparts. This Agreement may be signed in counterparts, each of which shall constitute an original.
- Z. Invalidity; Severability. If any portion of this Agreement is declared invalid, illegal, or otherwise unenforceable by a court of competent jurisdiction, the remaining provisions shall continue in full force and effect.
- AA. Assignment or Transfer. Contractor shall not assign, hypothecate, or transfer, either directly or by operation of law, this Agreement or any interest herein without the prior written consent of the City. Any attempt to do so shall be null and void, and any assignees, hypothecates or transferees shall acquire no right or interest by reason of such attempted assignment, hypothecation or transfer.
- BB Supplementary General Conditions (for projects that are funded by Federal programs). The following provisions, pursuant to 44 Code of Federal Regulations, Part 13, Subpart C, Section 13.36, as it may be amended from time to time, are included in the Agreement and are required to be included in all subcontracts entered into by CONTRACTOR for work pursuant to the Agreement, unless otherwise expressly provided herein. These provisions supersede any conflicting provisions in the General Conditions and shall take precedence over the General Conditions for purposes of interpretation of the General Conditions. These provisions do not otherwise modify or replace General Conditions not in direct conflict with these provisions. Definitions used in these provisions are as contained in the General Conditions.
1. CONTRACTOR shall be subject to the administrative, contractual, and legal remedies provided in the General Conditions in the event CONTRACTOR violates or breaches terms of the Agreement.
 2. CITY may terminate the Agreement for cause or for convenience, and CONTRACTOR may terminate the Agreement, as provided the General Conditions.
 3. CONTRACTOR shall comply with Executive Order 11246 of September 24, 1965, entitled Equal Employment Opportunity, as amended by Executive Order 11375 of October 13, 1967, and as supplemented in Department of Labor regulations (41 CFR chapter 60). (All construction contracts awarded in

excess of \$10,000 by CITY and/or subcontracts in excess of \$10,000 entered into by CONTRACTOR.)

4. CONTRACTOR shall comply with the Copeland Anti-Kickback Act (18 U.S.C. 874) as supplemented in Department of Labor regulations (29 CFR Part 3) (All contracts and subcontracts for construction or repair.)

5. CONTRACTOR shall comply with the Davis-Bacon Act (40 U.S.C. 276a to 276a7) as supplemented by Department of Labor regulations (29 CFR Part 5).

6. CONTRACTOR shall comply with Sections 103 and 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 327330) as supplemented by Department of Labor regulations (29 CFR Part 5).

7. CONTRACTOR shall observe CITY requirements and regulations pertaining to reporting included in the General Conditions.

8. Patent rights with respect to any discovery or invention which arises or is developed in the course of or under the Agreement shall be retained by the CITY.

9. Copyrights and rights in data developed in the course of or under the Agreement shall be the property of the CITY. FEMA/CalOES reserve a royalty-free, nonexclusive, irrevocable license to reproduce, publish or otherwise use or authorize to others to use for federal purposes a copyright in any work developed under the Agreement and/or subcontracts for work pursuant to the Agreement.

10. CONTRACTOR shall provide access by the City, the Federal grantor agency, the Comptroller General of the United States, or any of their duly authorized representatives to any books, documents, papers, and records of the contractor which are directly pertinent to that specific contract for the purpose of making audit, examination, excerpts, and transcriptions.

11. CONTRACTOR shall retain all required records for three years after CITY makes final payments and all other pending matters relating to the Agreement are closed.

12. CONTRACTOR shall comply with all applicable standards, orders, or requirements issued under section 306 of the Clean Air Act (42 U.S.C. 1857(h)), section 508 of the Clean Water Act (33 U.S.C. 1368), Executive Order 11738, and Environmental Protection Agency regulations (40 CFR part 15). (This provision applies to contracts exceeding \$100,000 and to subcontracts entered into pursuant to such contracts.)

13. CONTRACTOR shall comply with mandatory standards and policies relating to energy efficiency which are contained in the State energy conservation plan issued in compliance with the Energy Policy and Conservation Act (Pub. L. 94163, 89 Stat. 871).

SIGNATURE PAGE TO FOLLOW

IN WITNESS HEREOF, the parties have each caused their authorized representative to execute this Agreement.

City of Moreno Valley

Bio-tox Laboratories, Inc.

BY: _____
Thomas M. DeSantis, City Manager

BY: _____
Tracey Stangarone

TITLE: Business Manager

Date

Date

BY: _____

TITLE: _____
(Corporate Secretary)

Date

<p><u>INTERNAL USE ONLY</u></p> <p>APPROVED AS TO LEGAL FORM:</p> <p>_____ Martin Koczanowicz, City Attorney</p> <p>_____ Date</p> <p>RECOMMENDED FOR APPROVAL:</p> <p>_____ David Lelevier, Acting Chief of Police</p> <p>_____ Date</p>
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Attachment: FY19-20 to FY22-23_Bio-tox Laboratories Contract (3600 : AWARD A FOUR YEAR CONTRACT TO BIO-TOX LABORATORIES FOR

EXHIBIT A

Scope of Service

1.0 Response Time: Acceptable response time from notification that a specimen is ready for pickup and delivery/postmark if mailing of a final report, is to be no longer than (3) three working days (working days are 8:00 am to 5:00 pm, Monday through Friday). Final laboratory reports are to be delivered/mailed by the lab to the requesting agency. Please indicate lab response time for Officer Involved Shootings, STAT and Rush cases.

2.0 Licenses & Certification:

- a. Qualifications of the lab director should include being licensed by the California Department of Health Services as a Supervising Clinical Toxicologist or a Board Certified Forensic Toxicologist
- b. Supervisors of analyst, must be licensed by the California Department of Health Services in Clinical Toxicology; (or a Board Certified Forensic Toxicologist)
- c. The laboratory must be accredited in Forensic Toxicology by the American Board of Forensic Toxicology (ABFT).

3.0 Experience: Suppliers and agents of the laboratory must be familiar with the handling of evidence and the proper protocol for documenting and maintaining the correct chain of evidence. All aspects of testing must be appropriately documented. The documentation will include personnel files on analysts, supervisors, directors and all persons with access to specimens; chain of custody documents; quality assurance/control records; all test data; performance on proficiency testing can be accomplished and there is no deterioration of these items of evidence.

4.0 Expert Witness: The County of Riverside reserves the right to request replacement of any professional during the life of this agreement that is found to be unacceptable to the Court. A board-certified toxicologist shall be available as necessary for courtroom testimony and coroner review, as well as consultations with agency staff.

5.0 Testing Procedures:

- a. Testing must consist of the screening of appropriate bodily liquids (e.g., blood, urine, bile, vitreous, gastric contents) and tissues (e.g., liver, brain, spleen, muscle) for the presence or absence of drugs, followed by confirmation of the amounts of drugs by a second procedure based on a different chemical principle. Initial screening can be done by immunoassay; however, only gas chromatography/mass spectrometry (GC/MS) and Liquid Chromatography/Mass Spectrometry/Mass Spectrometry (LC/MS/MS) will be considered acceptable for confirmation testing.
- b. The service may utilize one or more secondary toxicology laboratories for forensic testing of substances not provided by the primary laboratory (Send out or other reference laboratory). The secondary facility shall conform to the license and certification requirements of the primary laboratory.

c. The laboratory shall be approximately staffed to allow for STAT drug testing when requested by the agency. Results will be available to the agency with a reasonable turnaround time.

6.0 Locations: Locations where the lab may expect to obtain specimens from however, this is not to be considered a complete list. It is only a representation of the major places that were used in the past.

- a. Riverside County Sheriff-Coroner Forensic Center West, Perris, CA
- b. Riverside County Sheriff-Coroner Forensic Center East, Indio, CA
- c. Riverside County Sheriff-Jail, Riverside, CA
- d. Riverside County Sheriff-Jail, Indio, CA
- e. Riverside County Sheriff-Jail, Southwest Justice Center, CA
- f. Riverside County Sheriff Station's- Jurupa Valley, Moreno Valley, Southwest, Lake Elsinore, Perris, Cabazon, Palm Desert & Indio/Thermal.
- g. Riverside County Sheriff-Jail, Southwest Justice Center, CA
- h. Riverside County Sheriff Contract Stations-Hemet and San Jacinto
- i. California Highway Patrol Office-Temecula Area
- j. California Highway Patrol Office-Beaumont Area
- k. California Highway Patrol Office-Indio Area
- l. California Highway Patrol Office-Riverside Area

7.0 Special Considerations: The proposal shall include an itemized listing of any potential special fees (e.g., handling charges, chain of custody, tissue preparation) and listing if tests requiring a secondary laboratory (send outs). It shall specify approximate turnaround times for reporting of results on routine, rush and STAT cases. Specimens are to be maintained for a duration of two (2) years. Coroner's Office to be provided a list prior to disposal, to respond with any requests for sample return. Currently, the Riverside County Sheriff-Coroner performs approximately 1,400-1,500 autopsies per year and approximately 1,000 consultations (examination of the decedent without autopsy). The investigation of most of the autopsied decedents requires varying degrees of toxicological support on one or more specimens. Many decedents not requiring autopsy will be expected to have a toxicological workup.

EXHIBIT B

City's Responsibilities

1. To provide Contractor preserved biological specimens for testing. To be used for criminal prosecution.

EXHIBIT C

Terms of Payment

1. The Contractor's compensation shall not exceed \$100,000 per fiscal year, not to exceed \$400,000 over the total time-period of the Agreement unless modified by an Amendment signed by all parties.
2. The Contractor will obtain, and keep current during the term of this Agreement, the required City of Moreno Valley business license. Proof of a current City of Moreno Valley business license will be required prior to any payments by the City. Any invoice not paid because the proof of a current City of Moreno Valley business license has not been provided will not incur any fees, late charges, or other penalties. Complete instructions for obtaining a City of Moreno Valley business license are located at: http://www.moval.org/do_biz/biz-license.shtml
3. The Contractor will electronically submit an invoice to the City on a monthly basis for progress payments along with documentation evidencing services completed to date. The progress payment is based on actual time and materials expended in furnishing authorized professional services since the last invoice. At no time will the City pay for more services than have been satisfactorily completed and the City's determination of the amount due for any progress payment shall be final. The Contractor will submit all original invoices to Accounts Payable staff at AccountsPayable@moval.org

Copies of invoices may be submitted to the Police Department at:

22850 Calle San Juan De Los Lagos
P.O. Box 88005
Moreno Valley, CA 92552-0805

Questions can be directed to:

Dana Leggett (951) 486-6840 or Maggi Bollinger (951) 486-6712

3. The Contractor agrees that City payments will be received via Automated Clearing House (ACH) Direct Deposit and that the required ACH Authorization form will be completed prior to any payments by the City. Any invoice not paid because the completed ACH Authorization Form has not been provided will not incur any fees, late charges, or other penalties. The ACH Authorization Form is located at:
http://www.moval.org/city_hall/forms.shtml#bf
4. The minimum information required on all invoices is:

- A. Vendor Name, Mailing Address, and Phone Number
 - B. Invoice Date
 - C. Vendor Invoice Number
 - D. City-provided Reference Number (e.g. Project, Activity)
 - E. Detailed work hours by class title (e.g. Manager, Technician, or Specialist), services performed and rates, explicit portion of a contract amount, or detailed billing information that is sufficient to justify the invoice amount; single, lump amounts without detail are not acceptable.
6. The City shall pay the Contractor for all invoiced, authorized professional services within thirty (30) days of receipt of the invoice for same.
 7. Reimbursement for Expenses. Contractor shall not be reimbursed for any expenses unless authorized in writing by City.
 8. Maintenance and Inspection. Contractor shall maintain complete and accurate records with respect to all costs and expenses incurred under this Agreement. All such records shall be clearly identifiable. Contractor shall allow a representative of City during normal business hours to examine, audit, and make transcripts or copies of such records and any other documents created pursuant to this Agreement. Contractor shall allow inspection of all work, data, documents, proceedings, and activities related to the Agreement for a period of three (3) years from the date of final payment under this Agreement.

Payment Provisions
07/01/2019 to 06/30/2023

Any price increases must be stated in a written amendment to this Agreement, as outlined in Riverside County Contract ID SHARC-96148-002-0623, Page 4, Section 3.2. The net dollar amount of profit will remain firm during the period of the Agreement. Annual increases shall not exceed the Consumer Price Index- All Consumers, All Items - Greater Los Angeles, Riverside and Orange County areas and be subject to satisfactory performance reviewed in accordance with County Contract SHARC-96148-002-06/23. No retroactive price adjustments will be considered. In the State of California, Government agencies are not allowed to pay excess interest and late charges, per Government Codes, Section 926.10.

#	TEST DESCRIPTION	Service Fee
	ALCOHOL AND VOLATILES	Unit Cost
1	ALCOHOL, URINE	\$ 42
2	ALCOHOL, VITREOUS	\$ 42
3	ALCOHOL, BLOOD	\$ 45
4	ALCOHOL, TISSUE	\$ 55
5	ALCOHOLIC BEVERAGE (including Pruno)	\$ 99
6	VOLATILES PANEL (ACETONE, ISOPROPNOL, METHANOL)	\$ 99
	BARBITURATES PANEL, LC/MS/MS	
7	BARBITURATE CONFIRMATION, LC/MS/MS	\$ 125
	BUTALBITAL	
	PHENOBARBITAL	
	PENTOBARBITAL/AMOBARBITAL	
	SECOBARBITAL	
	BENZODIAZEPINES PANEL, LC/MS/MS	
8	BENZODIAZEPINES CONFIRMATION, LC/MS/MS	\$ 155
	7-AMINOCLONAZEPAM	
	ALPRAZOLAM	
	AMINOFLUNITRAZEPAM	
	BROMAZEPAM	
	CHLORDIAZEPOXIDE	
	CLOBAZAM	
	CLONAZEPAM	
	CLONAZOLAM	
	DELORAZEPAM	
	DESALKYLFLURAZEPAM	
	DIAZEPAM	
	DICLAZEPAM	
	ESTAZOLAM	
	ETIZOLAM	
	FLUBROMAZEPAM	
	FLUBROMAZOLAM	
FLUNITRAZEPAM		
FLURAZEPAM		

Attachment: FY19-20 to FY22-23_Bio-tox Laboratories Contract (3600 : AWARD A FOUR YEAR CONTRACT TO BIO-TOX LABORATORIES FOR

	HYDROXALPRAZOLAM	
	HYDROXYTRIAZOLAM	
	LORAZEPAM	
	MIDAZOLAM	
	NORCHLORDIAZEPOXIDE	
	NORDIAZEPAM	
	OXAZEPAM	
	PHENAZEPAM	
	PYRAZOLAM	
	TEMAZEPAM	
	TRIAZOLAM	
	CANNABINOIDS CONFIRMATION, LC/MS/MS	
9	CANNABINOIDS CONFIRMATION, LC/MS/MS	\$ 95
	DELTA-9-THC	
	11-HYDROXY-DELTA-9-THC	
	11-CARBOXY-DELTA-9-THC	
	COCAINE CONFIRMATION, LC/MS/MS	
10	COCAINE CONFIRMATION, LC/MS/MS	\$ 75
	COCAINE	
	BENZOYLECGONINE	
	COCAETHYLENE	
	CORONER DRUG SCREEN PANELS PLUS ALCOHOL	
11	COMPREHENSIVE PANEL DRUG SCREEN (BLOOD, URINE OR VITREOUS) - OVER 200 DRUGS DETECTABLE	\$ 125
12	COMPREHENSIVE PANEL DRUG SCREEN (TISSUE) - OVER 200 DRUGS DETECTABLE	\$ 135
13	CORONER PANEL DRUG SCREEN (BLOOD OR VITREOUS)-AMPHETAMINES, BENZODIAZEPINES, CANNABINOIDS, COCAINE METABOLITE, OPIATES, PCP, CARISOPRODOL, FENTANYL, OXYCODONE, ZOLPIDEM	\$ 75
14	CORONER PANEL DRUG SCREEN (TISSUE)-AMPHETAMINES, BENZODIAZEPINES, CANNABINOIDS, COCAINE METABOLITE, OPIATES, PCP, CARISOPRODOL, FENTANYL, OXYCODONE, ZOLPIDEM	\$ 85
	OTHER DRUG SCREENS	
15	DRUGS OF ABUSE SCREEN-BENZODIAZEPINES, COCAINE METABOLITE, METHAMPHETAMINE, OPIATES, PCP, THC (ANTEMORTEM CASES ONLY)	\$ 42

16	10-PANEL DRUG SCREEN-AMPHETAMINES, BENZODIAZEPINES, CANNABINOIDS, COCAINE METABOLITE, OPIATES, PCP, CARISOPRODOL, FENTANYL, OXYCODONE, ZOLPIDEM (ANTEMORTEM CASES ONLY)	\$	65
17	AMPHETAMINES SCREEN (URINE, BLOOD OR VITREOUS)	\$	19
18	AMPHETAMINES SCREEN, TISSUE	\$	25
19	BENZODIAZEPINES SCREEN (URINE, BLOOD OR VITREOUS)	\$	19
20	BENZODIAZEPINES SCREEN (TISSUE)	\$	25
21	CANNABINOIDS SCREEN (URINE, BLOOD OR VITREOUS)	\$	19
22	CANNABINOIDS SCREEN (TISSUE)	\$	25
23	COCAINE METABOLITE SCREEN (URINE, BLOOD OR VITREOUS)	\$	19
24	COCAINE METABOLITE SCREEN (TISSUE)	\$	25
25	DESIGNER STIMULANT SCREEN (URINE, BLOOD OR VITREOUS)	\$	125
26	DESIGNER STIMULANT SCREEN (TISSUE)	\$	135
27	LSD SCREEN (BLOOD OR VITREOUS)	\$	75
28	OPIATES SCREEN (URINE, BLOOD OR VITREOUS)	\$	19
29	OPIATES SCREEN (TISSUE)	\$	25
30	PHENCYCLIDINE SCREEN (URINE, BLOOD OR VITREOUS)	\$	19
	AMPHETAMINES CONFIRMATION, LC/MS/MS		
31	AMPHETAMINES CONFIRMATION, LC/MS/MS	\$	75
	METHAMPHETAMINE		
	AMPHETAMINE		
	METHYLENEDIOXYAMPHETAMINE (MDA)		
	METHYLENEDIOXYMETHAMPHETAMINE (MDMA)		
	MDEA		
	BETA-PHENETHYLAMINE		
	OPIATES CONFIRMATION, LC/MS/MS		
32	OPIATES CONFIRMATION, LC/MS/MS	\$	89
	MORPHINE		
	CODEINE		
	OXYCODONE		
	HYDROCODONE		
	HYDROMORPHONE		
	OXYMORPHONE		
	6-MONOACETYLMORPHINE		
	PHENCYCLIDINE CONFIRMATION, LC/MS/MS		
33	PHENCYCLIDINE, LC/MS/MS	\$	39
	OTHER DRUGS (AND/OR METABOLITE), LC/MS/MS		
34	ACETAMINOPHEN	\$	99

35	ALBUTEROL	\$	99
36	AMITRIPTYLINE	\$	99
37	ATENOLOL	\$	99
38	BENZTROPINE	\$	99
39	BROMPHENIRAMINE	\$	99
40	BUPRENORPHINE	\$	99
41	BUPROPION	\$	125
42	BUSPIRONE	\$	99
43	CARBAMAZEPINE	\$	99
44	CARISOPRODOL	\$	99
45	CHLORPHENIRAMINE	\$	99
46	CHLORPROMAZINE	\$	99
47	CITALOPRAM/ESCITALOPRAM	\$	99
48	CLONIDINE	\$	99
49	CYCLOBENZAPRINE	\$	99
50	DEXTROMETHORPHAN	\$	99
51	DIPHENHYDRAMINE	\$	99
52	DOXEPIN	\$	99
53	DOXYLAMINE	\$	99
54	DULOXETINE	\$	99
55	FENTANYL	\$	99
56	FLUOXETINE	\$	99
57	GABAPENTIN	\$	125
58	GAMMA-HYDROXYBUTYRATE	\$	199
59	HALOPERIDOL	\$	99
60	HYDROXYZINE	\$	99
61	KETAMINE	\$	99
62	LAMOTRIGINE	\$	99
63	LEVETIRACETAM	\$	99
64	LEVORPHANOL	\$	99
65	LIDOCAINE	\$	99
66	MECLIZINE	\$	99
67	MEPERIDINE	\$	99
68	METHADONE	\$	99
69	METHOCARBAMOL	\$	99
70	MIRTAZAPINE	\$	99
71	NALOXONE	\$	99
72	OLANZAPINE	\$	99
73	OXCARBAZEPINE	\$	99

74	PAROXETINE	\$	99
75	PHENAZEPAM	\$	99
76	PHENTERMINE	\$	99
77	PHENYTOIN	\$	125
78	PRIMIDONE	\$	99
79	PROMETHAZINE	\$	99
80	PROPRANOLOL	\$	99
81	PSEUDOEPHEDRINE	\$	99
82	QUETIAPINE	\$	99
83	RISPERIDONE	\$	99
84	SERTRALINE	\$	99
85	TOPIRAMATE	\$	125
86	TRAMADOL	\$	99
87	TRAZODONE	\$	99
88	VENLAFAXINE	\$	99
89	ZOLPIDEM	\$	99
	SPECIAL FEES		
90	BIOHAZARD WASTE FEE	\$	1
91	CAPITATION CORONER PANEL	\$	475
92	CAPITATION COMPREHENSIVE PANEL	\$	675
93	CAPITATION CORONER REVIEW	\$	875
94	CHAIN OF CUSTODY-storage only per sample; no testing; antemortem	\$	15
95	CHAIN OF CUSTODY-storage only per sample; no testing; post mortem	\$	15
96	HANDLING, SHIPPING & SPECIAL CARE		at cost
97	LEAKING SAMPLE	\$	25
98	MATRIX EFFECT-Unsuccessful quantitative analysis due to unusual problems with submitted sample.	\$	150
99	NAME DISCREPANCY	\$	19
100	RUSH SAMPLE ANALYSIS-1-2 weeks turnaround time depending on complexity of case		no charge
101	STAT PICK UP FEE-60 MILE MAXIMUM (Call for other arrangements outside of 60 miles)	\$	75
102	SAMPLE RETURN	\$	25
103	STAT FEE, PER TEST-24 to 48 hours turnaround time	\$	200
104	TISSUE PREPARATION	\$	50
105	TRIP CHARGE	\$	25

Note: *Capitation fees only include drugs tested by Bio-Tox and are inclusive of the coroner panel or comprehensive panel drugs (i.e. bath salts and GHB are not included). Fee does not include tissue prep fees, chain of custody samples, or tests done after initial receipt. **Notes:** Drugs listed are subject to review and change as deemed necessary by laboratory management. Testimony fees will be billed to the District Attorney directly, not to Riverside County Sheriff's Department.



Report to City Council

TO: Mayor and City Council

FROM: Marshall Eyerman, Chief Financial Officer

AGENDA DATE: June 4, 2019

TITLE: APPROVE A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY TO AMEND THE ELECTRIC RATES AND RULES FOR MORENO VALLEY UTILITY (MVU)

RECOMMENDED ACTION

Recommendation:

1. Approve Resolution No. 2019-XX. A Resolution of the City Council of the City of Moreno Valley, California, to Amend the Electric Rates and Rules for Moreno Valley Utility (MVU).

SUMMARY

This report recommends approval of a resolution that would amend Moreno Valley Utility rates and rules to maintain approximate parity with Southern California Edison.

The proposed adjustments were presented to the Utilities Commission on May 22, 2019.

DISCUSSION

Staff recommends approval of the resolution that will amend the electric rates for the Moreno Valley Utility (MVU) to keep them generally the same as the rates charged by Southern California Edison (SCE). Since the inception of MVU, City Council policy has been to maintain parity with SCE electric rates. Resolution 2006-112 approved implementing a schedule to adjust MVU's rates to reflect the same rate schedule as SCE. This policy is also incorporated within the Professional Services Agreement with ENCO Utility Services Moreno Valley, LLC, which requires that MVU adjusts its electric rates to maintain approximate parity with those charged by SCE. In addition, Resolution 2015-32, adopted by the City Council on May 12, 2015, approved the adjustment of

MVU rates two times per year to provide rate stability to its customers.

Resolution No. 2019-XX adjusts the following items:

1. Amends the electric rates for MVU to correspond with SCE rates that became effective on April 12, 2019.
2. Adds Rate Schedule P1 – Pumping and Agricultural Service for water pumping facilities.
3. Adds Rule 21A to streamline the interconnection process and utility billing for solar customers, and incorporates interconnection requirements for battery storage.

Rate Adjustments: The recommended adjustments ensure compliance with the policies and resolutions noted above.

As with all electric utilities, Moreno Valley Utility’s service year is divided into two categories: Winter (October to June) and Summer (June to October). Adjusting rates to maintain approximate parity with SCE rates as presented in this report will generally decrease MVU’s rate schedules on an annual basis.

Rates are structured to reflect usage; the table below shows the monthly impact to customers during the summer season and winter season.

Average Residential Usage	SUMMER		WINTER	
792 kWh	\$3.72	2.19%		
542 kWh			\$2.79	2.41%

Average Small Commercial Usage	SUMMER		WINTER	
800 kWh	-\$3.56	-2.00%	-\$9.79	-6.98%

Average Large Commercial Usage	SUMMER		WINTER	
26,500 kWh, 90 kW Demand	-\$423.08	-6.61%	\$38.05	0.96%

Average Large Commercial, TOU Usage	SUMMER		WINTER	
485,778 kWh, 880 kW Demand	-\$172.80	-0.21%		
362,301 kWh,			-\$7,749.54	-19.65%

627 kW Demand			
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Average Traffic Controller Usage	SUMMER		WINTER	
364 kWh	-\$1.11	-1.61%	-\$1.11	-1.61%

Street Lights	SUMMER		WINTER	
Schedule SL-1 9,500 Lumen (577 lights)	\$363.36	5.07%	\$363.36	5.07%
Schedule SL-1 22,000 Lumen (496 lights)	\$423.79	5.10%	\$423.79	5.10%
Schedule SL-1 LED 14,700 Lumen (123 lights)	\$64.28	3.23%	\$64.28	3.23%
Schedule SL-1 LED 11,500 Lumen (261 lights)	\$197.04	5.90%	\$197.04	5.90%
Schedule SL-1 LED 3,800 Lumen (594 lights)	\$324.57	5.58%	\$324.57	5.58%
Schedule SL-3 (total of all accounts based on average usage)	-\$228.36	-27.61%	-\$228.36	-27.61%

It should be noted that peak periods for Large General Service – Time of Use customers have changed to 4 p.m. to 9 p.m. due to the widespread adoption of cleaner resources to generate energy. Energy is now less costly during midday and costlier in the late afternoon and evening.

Rate Schedule P1 – Pumping and Agricultural Service is applicable to general water pumping or sewerage pumping based on connected load in horsepower.

ALTERNATIVES

1. Approve Resolution No. 2019-XX to amend the Electric Rates and Rules for Moreno Valley Utility. *Staff recommends this alternative as the proposed amended electric rates and rules will allow the City's utility to comply with established Council-adopted policies and practices.*
2. Do not approve Resolution No. 2019-XX to amend the Electric Rates and Rule for Moreno Valley Utility. *Staff does not recommend this alternative because the resolution is needed to keep the Utility in compliance with established Council-adopted policies and practices.*

FISCAL IMPACT

The proposed rate adjustment is estimated to decrease revenue by an average of approximately \$170,000 per month. It is anticipated that net income will remain positive for fiscal year 2019/2020.

NOTIFICATION

Publication of the Agenda.

PREPARATION OF STAFF REPORT

Prepared By:
Jeannette Olko
Electric Utility Division Manager

Department Head Approval:
Marshall Eyerman
Chief Financial Officer/City Treasurer

CITY COUNCIL GOALS

Revenue Diversification and Preservation. Develop a variety of City revenue sources and policies to create a stable revenue base and fiscal policies to support essential City services, regardless of economic climate.

CITY COUNCIL STRATEGIC PRIORITIES

- 1. Economic Development
- 2. Public Safety
- 3. Library
- 4. Infrastructure
- 5. Beautification, Community Engagement, and Quality of Life
- 6. Youth Programs

Objective 4.1: Develop a Moreno Valley Utility Strategic Plan to prepare for the 2020 expiration of the ENCO Utility Systems agreement.

ATTACHMENTS

- 1. Resolution Rate Adjustment 06042019
- 2. MVU Rates Proposed 06042019R
- 3. MVU Rules Fees Charges proposed 06042019R

APPROVALS

Budget Officer Approval	<u>✓ Approved</u>	5/23/19 2:16 PM
City Attorney Approval	<u>✓ Approved</u>	5/28/19 10:34 AM
City Manager Approval	<u>✓ Approved</u>	5/30/19 1:23 PM

RESOLUTION NO. 2019-XX

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, TO AMEND THE ELECTRIC RATES AND RULES FOR MORENO VALLEY UTILITY

WHEREAS, the City of Moreno Valley (the "City"), a municipal corporation, is authorized pursuant to Article XI, Section 9(a) of the California Constitution to establish, purchase, and operate public works to furnish its inhabitants with light, water, power, heat, transportation, or means of communication; and

WHEREAS, on June 26, 2001, the City Council of the City of Moreno Valley approved Resolution No. 2001-33 and, as amended by Resolution 2002-46, authorized the formation of a municipally owned utility for the purpose of providing electrical power, storm water, telephone telecommunications, cable TV, water, natural gas, and sanitary sewer; and

WHEREAS, on July 8, 2003, the City Council approved Resolution No. 2003-58 adopting the Electric Service Rules, Fees and Charges document for Moreno Valley Utility which states, in part, that the rates to be charged by and paid to the City for electric service will be the rates legally in effect and on file with the City Council; and

WHEREAS, on January 13, 2004, the City Council approved Resolution No. 2004-05 establishing the electric rates for Moreno Valley Utility; and

WHEREAS, on September 26, 2006, the City Council approved Resolution No. 2006-112 implementing a schedule to adjust Moreno Valley Utility electric rates to reflect the same schedule as Southern California Edison; and

WHEREAS, there are sections of the Electric Service Rules, Fees and Charges document that contain rules which define the terms and conditions under which electric service will be provided to the customer; and

WHEREAS, there are rules, fees, charges, and rates associated with providing the services identified in these documents. These rules, fees, charges, and rates are deemed necessary and equitable for services rendered and are required to fund in whole or in part, all of the services required to facilitate the delivery of electric distribution pursuant to the rules; and

WHEREAS, Urgency Ordinance No. 651 was adopted by the City Council on December 9, 2003, allowing for the adoption of rates by resolution.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

1
Resolution No. 2019-XX
Date Adopted: June 04, 2019

1. The City Council hereby adopts the amended Moreno Valley Utility Rates, attached hereto as Exhibit A and the amended Electric Service Rules, Fees and Charges attached hereto as Exhibit B, incorporated herein, and on file in the Financial and Management Services Department.

APPROVED AND ADOPTED this 4th day of June 2019.

 Mayor of the City of Moreno Valley

ATTEST:

 City Clerk

APPROVED AS TO FORM:

 City Attorney

Attachment: Resolution Rate Adjustment 06042019 (3588 : APPROVE RESOLUTION XX AMENDING ELECTRIC RATES)

Resolution No. 2019-XX²
 Date Adopted: June 04, 2019

RESOLUTION JURAT

STATE OF CALIFORNIA)
COUNTY OF RIVERSIDE) ss.
CITY OF MORENO VALLEY)

I, Pat Jacquez-Nares, City Clerk of the City of Moreno Valley, California, do hereby certify that Resolution No. 2019-XX was duly and regularly adopted by the City Council of the City of Moreno Valley at a regular meeting thereof held on the 4th day of June 2019 by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Council Members, Mayor Pro Tem and Mayor)

CITY CLERK

(SEAL)

Attachment: Resolution Rate Adjustment 06042019 (3588 : APPROVE RESOLUTION XX AMENDING ELECTRIC RATES)

Resolution No. 2019-XX³
Date Adopted: June 04, 2019

Moreno Valley Utility
Electric Rates

Attachment: MVU Rates Proposed 06042019R (3588 : APPROVE RESOLUTION XX AMENDING ELECTRIC RATES)

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Attachment: MVU Rates Proposed 06042019R (3588 : APPROVE RESOLUTION XX AMENDING ELECTRIC RATES)

SCHEDULE A – RESIDENTIAL SERVICE

Applicability

Applicable to electric service for residential uses.

Territory

Within the designated areas served by the Moreno Valley Utility.

Rates

Basic Charge - \$/Day:

Single-Family Residence	\$ 0.031
Multi-Family Residence	\$ 0.024

Energy Usage Charge - \$/kWh:

Summer:

Tier 1 -Baseline Quantities, all kWh, per kWh	\$ 0.17253
Tier 2 – 101% to 400% of Baseline	\$ 0.22542
Tier 3 – All excess kWh, per kwh	\$ 0.40477

Winter:

Tier 1 -Baseline Quantities, all kWh, per kWh	\$ 0.17243
Tier 2 – 101% to 400% of Baseline	\$ 0.22542
Tier 4 – All excess kWh, per kWh	\$ 0.40477

Public Purpose Programs:

All kWh per kWh	\$ 0.01301
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Monthly Minimum Charge:

Monthly Minimum Charge	\$ 10.00
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Energy Cost Adjustment

1. The energy charge may be adjusted each month based upon the percentage of the energy being provided by the Department of Water Resources to the investor owned utility on the billing date monthly. These adjustments could result in slight decreases or increases in the energy charge.

Attachment: MVU Rates Proposed 06042019R (3588 : APPROVE RESOLUTION XX AMENDING ELECTRIC RATES)

Special Conditions

1. Baseline Rates: Baseline rates are applicable only to separately metered residential use.
2. Baseline Quantities: The residential allocation shall be 15.5 kWhs per day in the Summer season and 11.0 kWhs per day in the Winter season.
3. Summer and Winter Seasons are defined as follows: The Summer season begins at 12:00 a.m. on June 1 and will continue until 12:00 a.m. on October 1 each year. The Winter season begins at 12:00 a.m. on October 1 and continues until 12:00 a.m. on June 1 of the following year.
4. Voltage: Service will be supplied at one standard voltage.
5. For the purposes of applying the Basic Charge, the following definitions shall be used:

Single-Family Residence - A building of single occupancy which does not share common walls, floors, or ceilings with other residential dwelling units.

Multi-Family Residence - Apartments, mobile homes, condominiums, townhouses, or a building of multiple occupancy which shares common walls and /or floors and ceilings with other residential dwelling units.

6. Medical Baseline Allocation: Upon application and acceptance of a certification from a medical doctor or osteopath licensed to practice medicine in California, eligible residential customers are provided a standard year-round medical baseline allocation of 15.5 kWh per day in addition to the applicable baseline allocation for the season.

	Regular Baseline Daily kWh Allocation	Additional Medical Baseline Daily kWh Allocation	Total Baseline Daily kWh Allocation
Summer	15.5	15.5	31.0
Winter	11.0	15.5	26.5

Medical Baseline Allocation Eligibility:

- a) Regular use in the customer's home of one or more medical life-support devices essential to maintain the life of a full-time resident of the household; and/or

Attachment: MVU Rates Proposed 06042019R (3588 : APPROVE RESOLUTION XX AMENDING ELECTRIC RATES)

b) A full-time resident of the household is: a paraplegic, hemiplegic, quadriplegic, multiple sclerosis or scleroderma patient, being treated for life-threatening illness, and/or has a compromised immune system.

Life support devices are those devices or equipment that utilize mechanical or artificial means to sustain, restore or supplant a vital function, or mechanical equipment relied upon for mobility both within and outside of buildings.

Life-support devices include:

- | | |
|-----------------------------|-------------------------------|
| Aerosol Tent | Ultrasonic Nebulizer |
| Pressure Pad | Electrostatic Nebulizer |
| Apnea Monitor | Inhalation Pulmonary Pressure |
| Pressure Pump | Breather Machine (IPPB) |
| Compressor | Iron Lung |
| Concentrator | Dialysis Machine |
| Respirator (all types) | Hemodialysis Machine |
| Electronic Nerve Stimulator | Motorized Wheelchair |
| Suction Machine | Oxygen Generator |

Applying for the Medical Baseline Allocation:

1. Request application from Moreno Valley Utility by telephone, mail or in person
2. Complete application.
3. The patient’s physician will need to fill out the required information on the application and sign it certifying the medical need.
4. The customer can mail or bring the application to Moreno Valley Utility’s offices
5. Once the application is reviewed and approved, the Medical Baseline Allocation will be effective on the next regular electric billing.
6. Applications must be renewed every two years.
7. Low Income Program - A low-income assistance discount program is offered under this standard residential rate. To be considered for this discount, an application must be filed with Moreno Valley Utility. To be eligible for this discount, the income of the customer, including all members of the household, must meet the income levels of the program and can be no more than 200% of Federal Poverty Guidelines. Under this program a discount for qualified low-income residents of 30% is provided on monthly energy charges. Discount

Attachment: MVU Rates Proposed 06042019R (3588 : APPROVE RESOLUTION XX AMENDING ELECTRIC RATES)

applies to energy charges only. The customer charge, public purpose charge, service fees and all taxes are calculated at the standard rates.

8. Family Electric Rate Assistance (FERA) Program: The FERA discount program is offered under the standard residential rate. To be considered for this discount, an application must be filed with Moreno Valley Utility. To be eligible for this discount the household must consist of three or more persons where the total gross income from all sources is no more than 250% of Federal Poverty Guidelines. Under this program a discount for qualified FERA households of 18% is provided on monthly energy charges. Discount applies to energy charges only. The customer charge, public purpose charge, service fees and all taxes are calculated at the standard rates.

SCHEDULE B – GENERAL SERVICE

Applicability

Applicable to nonresidential electric service for all types of uses including lighting and power. Customers whose monthly maximum demand is expected to exceed 20 kW or has exceeded 20 kW in any three months during the preceding 12 months, are ineligible for service under this schedule.

Territory

Within the designated areas served by the Moreno Valley Utility.

Rates

Customer Charge - \$/Day:

Single-Phase Service	\$ 0.339
Polyphase Service	\$ 0.031

Energy Usage Charge - \$/kWh:

Summer, all kWh, per kWh	\$ 0.18664
Winter, all kWh, per kWh	\$ 0.14235

Public Purpose Programs:

All kWh per kWh	\$ 0.01005
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Monthly Minimum Charge:

Monthly Minimum Charge	\$ 10.00
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Energy Cost Adjustment

1. The energy charge may be adjusted each month based upon the percentage of the energy being provided by the Department of Water Resources to the investor owned utility on the billing date monthly. These adjustments could result in slight decreases or increases in the energy charge.

Special Conditions

1. Summer and Winter Seasons are defined as follows: The Summer season begins at 12:00 a.m. on June 1 and will continue until 12:00 a.m. on October 1 each year. The Winter season begins at 12:00 a.m. on October 1 and continues until 12:00 a.m. on June 1 of the following year.
2. Voltage: Service will be supplied at one standard voltage.

- 3. Direct Current Fast Charger (DCFC) Charging Stations: DCFC station installations shall be billed on this rate regardless of the kilowatt demand until other rates are adopted for this use.

SCHEDULE C – LARGE GENERAL SERVICE

Applicability

Applicable to nonresidential electric service for all types of uses including lighting and power where the customer’s monthly maximum demand is expected to exceed 20 kW or has exceeded 20 kW in any of the 3 months during the preceding 12 months.

Territory

Within the designated areas served by the Moreno Valley Utility.

Rates

Customer Charge - \$/Meter/Month:

Single Phase	\$ 115.32
Polyphase	\$ 108.94

Energy Usage Charge - \$/kWh:

Summer, all kWh, per kWh	\$ 0.10164
Winter, all kWh, per kWh	\$ 0.08782

Demand Charge - \$/kW:

	<u>Summer</u>	<u>Winter</u>
Facilities Related Demand Charge, per kW	\$ 10.75	\$ 10.75
Time Related Demand Charge, per kW	\$ 15.10	\$ 0.00

Public Purpose Programs:

All kWh per kWh	\$ 0.00966
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Monthly Minimum Charge:

Monthly Minimum Charge	\$ 10.00
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Energy Cost Adjustment

1. The energy charge may be adjusted each month based upon the percentage of the energy being provided by the Department of Water Resources to the investor owned utility on the billing date monthly. These adjustments could result in slight decreases or increases in the energy charge.

Attachment: MVU Rates Proposed 06042019R (3588 : APPROVE RESOLUTION XX AMENDING ELECTRIC RATES)

Special Conditions

1. Summer and Winter Seasons are defined as follows:

The Summer season begins at 12:00 a.m. on June 1 and will continue until 12:00 a.m. on October 1 each year. The Winter season begins at 12:00 a.m. on October 1 and continues until 12:00 a.m. on June 1 of the following year.

2. Voltage: Service will be supplied at one standard voltage.
3. Billing Demand: The Billing Demand shall be the kilowatts of Maximum Demand, determined to the nearest kW. The Billing Demand shall be the greater of the kilowatts of Maximum Demand recorded (or established for) the monthly billing period or 50% of the highest Maximum Demand established in the preceding eleven months (Ratcheted Demand).
4. Maximum Demand: The maximum demand in any month shall be the measured maximum average kilowatt input, indicated or recorded by instruments to be supplied by the City, during any 15-minute metered interval in the month.
5. Voltage Discount: The monthly Facilities Related Demand Charge will be reduced by \$0.21 per kW for service delivered and metered at voltages of 4 kV through 12 kV. The energy charge will be reduced by \$.00101 per kWh for service delivered and metered at voltages of 2 kV through 12 kV.
6. Excess Transformer Capacity: Excess Transformer Capacity is the amount of transformer capacity requested by a customer in excess of that which the City would normally install to serve the customer's Maximum Demand. Excess Transformer Capacity shall be billed at the amount shown in the rates section above.
7. Power Factor Adjustment: When Maximum Demand has exceeded 200 kW for three consecutive months, kilovar metering will be installed as soon as practical, and thereafter, until the Maximum Demand has been less than 150 kW for twelve consecutive months, the billing will be adjusted each month for power factor.
 - a. Adjustment Rate:
 - i. For service delivered and metered at voltages 12 kV or less, the billing will be increased by \$0.60 per kilovar of maximum reactive demand.
 - b. Determining the Reactive Demand:
 - i. Service delivered and metered at voltages of 4 kV or greater:

1. The maximum reactive demand shall be the highest measured maximum average kilovar demand indicated or recorded by metering during any 15-minute metered interval in the month. The kilovars shall be determined to the nearest unit. A device will be installed on each kilovar meter to prevent reverse operation of the meter.
- ii. Services delivered and metered at voltages less than 4 kV:
1. For customers with metering used for billing that measures reactive demand, the maximum reactive demand shall be the highest measured maximum average kilovar demand indicated or recorded by metering during any 15-minute metered interval in the month. The kilovars shall be determined to the nearest unit. A device will be installed on each kilovar meter to prevent reverse operation of the meter.
 2. For customers with metering used for billing that measures kilovar-hours instead of reactive demand, the kilovars of reactive demand shall be calculated by multiplying the kilowatts of measured maximum demand by the ratio of the kilovar-hours to the kilowatt-hours. Demands in kilowatts and kilovars shall be determined to the nearest unit. A ratchet device will be installed on the kilovar-hour meter to prevent its reverse operation on leading power factors.

SCHEDULE P1 – PUMPING AND AGRICULTUAL SERVICE
(CONNECTED LOAD BASIS)

Applicability

Applicable to electric service for agricultural power service or for general water pumping or sewerage pumping based on connected load in horsepower. This schedule is not applicable to service for which a residential, commercial or industrial schedule is applicable. Customers whose monthly maximum demand is expected to or have exceeded 500 kW or 671 hp in any three months during the preceding 12 months, are ineligible for service under this schedule.

Territory

Within the designated areas served by the Moreno Valley Utility.

Rates

Customer Charge - \$/Day:	\$43.15
Energy Usage Charge - \$/kWh:	
Summer, all kWh, per kWh	\$ 0.10440
Winter, all kWh, per kWh	\$ 0.10440
Service Charge \$/HP/Month	\$4.03
Public Purpose Programs:	
All kWh per kWh	\$ 0.00948
Monthly Minimum Charge:	
Monthly Minimum Charge	\$ 10.00

Energy Cost Adjustment

1. The energy charge may be adjusted each month based upon the percentage of the energy being provided by the Department of Water Resources to the investor owned utility on the billing date monthly. These adjustments could result in slight decreases or increases in the energy charge.

Special Conditions

1. Summer and Winter Seasons are defined as follows: The Summer season begins at 12:00 a.m. on June 1 and will continue until 12:00 a.m. on October 1 each year. The Winter season begins at 12:00 a.m. on October 1 and continues until 12:00 a.m. on June 1 of the following year.
2. Voltage: Service will be supplied at one standard voltage.
3. Connected Load: Connected load is the sum of the rated capacities of all the customer's equipment that is possible to connect to the utility's lines at the same time, determine to the nearest 1/10th hp.

SCHEDULE SL – STREET LIGHTING SERVICE - MVU OWNED SYSTEM

Applicability

Applicable to un-metered service for the lighting of streets and highways where MVU owns and maintains the street lighting equipment and associated facilities included under this schedule.

Territory

Within the designated areas served by the Moreno Valley Utility.

Rates

Energy Usage Charge - High Pressure Sodium Vapor Lamps

Basic Charge:

<u>Initial Lumens</u>	<u>Wattage</u>	<u>All Night Service kWhs/Month</u>	<u>\$/Lamp/Month</u>	<u>\$/Lamp/Month Public Purpose Programs</u>
9,500	100	40	\$12.14	\$0.19
16,000	150	67	\$14.60	\$0.32
22,000	200	85	\$16.37	\$0.40
27,500	250	108	\$18.25	\$0.51

Energy Usage Charge – Light Emitting Diode (LED) Lamps

Basic Charge:

<u>Initial Lumens</u>	<u>Wattage</u>	<u>All Night Service kWhs/Month</u>	<u>\$/Lamp/Month</u>	<u>\$/Lamp/Month Public Purpose Programs</u>
14,700	173	75	\$15.41	\$0.36
11,500	98	47	\$12.76	\$0.23
3,800	31	15	\$ 9.76	\$0.07

Energy Cost Adjustment

- The energy charge may be adjusted each month based upon the percentage of the energy being provided by the Department of Water Resources to the investor owned utility on the billing date monthly. These adjustments could result in slight decreases or increases in the energy charge.

Attachment: MVU Rates Proposed 06042019R (3588 : APPROVE RESOLUTION XX AMENDING ELECTRIC RATES)

Special Conditions

1. Maintenance shall include periodic inspection, renewal of lamps, cleaning of glassware, replacement of damaged glassware and lamps, and minor repairs to wiring and electrical appurtenances.
2. Hours of Service: Under MVU's standard all-night operating schedule, approximately 4,140 hours of service will be furnished.
3. The developer shall install streetlights that will be served from MVU's underground system. These streetlights must be installed in accordance with MVU's specifications and the developer will deed such facilities to MVU.
4. Requirements and Restrictions:
 - a. The applicant for street light service shall specify the lamp size and location of streetlights.
 - b. Service shall not be furnished under this schedule where location, mounting height, or other considerations are unacceptable to the MVU.
 - c. The installation of street lighting equipment and facilities hereunder is contingent upon the MVU obtaining easements, rights of way, and highway permits satisfactory to the MVU for the required poles, equipment, and facilities.
 - d. In accordance with Rule No. 4, a written contract for a term of not less than one year is required in order to receive street light service under the provisions of this schedule.
 - e. Should the applicant not commence using the street lighting in a bona fide manner within ninety (90) days after date of completion and installation of a street light or street lighting system requested by the applicant, the MVU will bill, and the applicant shall pay, the applicable lamp charge(s).
5. Liability of Utility: MVU shall not, by taking action pursuant to its tariffs, be liable for any loss, damage, or injury, established or alleged, which may result, or be claimed to result, therefrom.

SCHEDULE SL2 - STREET LIGHTING SERVICE
CUSTOMER OWNED AND MAINTAINED SYSTEM SCHEDULE
(UNMETERED)

Applicability

Applicable to service for un-metered lighting of streets, highways, and directional highway signs served in conjunction with street and highway lighting, and other publicly operated automobile parking lots which are open to the general public, where the customer owns and maintains the street lighting equipment operated within the period from dusk to dawn.

Territory

Within the designated areas served by the Moreno Valley Utility.

Rates

Energy Usage Charge - High Pressure Sodium Vapor Lamps

Basic Charge:

<u>Initial Lumens</u>	<u>Wattage</u>	<u>All Night Service kWhs/Month</u>	<u>\$/Lamp/Month</u>	<u>\$/Lamp/Month Public Purpose Programs</u>
9,500	100	40	\$ 5.63	\$0.19
16,000	150	67	\$ 7.69	\$0.32
22,000	200	85	\$ 9.13	\$0.40
27,500	250	108	\$10.95	\$0.51

Energy Cost Adjustment

1. The energy charge may be adjusted each month based upon the percentage of the energy being provided by the Department of Water Resources to the investor owned utility on the billing date monthly. These adjustments could result in slight decreases or increases in the energy charge.

Attachment: MVU Rates Proposed 06042019R (3588 : APPROVE RESOLUTION XX AMENDING ELECTRIC RATES)

Special Conditions

1. Voltage: Service will be supplied at one standard voltage.
2. Requirements and Restrictions:
 - a. The applicant for street light service shall specify the lamp size and location of streetlights.
 - b. Service shall not be furnished under this schedule where location, mounting height, or other considerations are unacceptable to the MVU.
 - c. The installation of street lighting equipment and facilities hereunder is contingent upon the MVU obtaining easements, rights of way, and highway permits satisfactory to the MVU for the required poles, equipment, and facilities.
3. Liability of Utility: MVU shall not, by taking action pursuant to its tariffs, be liable for any loss, damage, or injury, established or alleged, which may result, or be claimed to result, therefrom.

SCHEDULE SL3 – STREET LIGHTING SERVICE
CUSTOMER OWNED SYSTEM SCHEDULE
(METERED)

Applicability

Applicable to service for metered lighting service of streets, highways, and directional highway signs served in conjunction with street and highway lighting, and other publicly operated automobile parking lots which are open to the general public, where the customer owns the street lighting equipment operated within the period from dusk to dawn.

Territory

Within the designated areas served by the Moreno Valley Utility.

Rates

Customer Charge – Per Meter Per Month:	\$ 6.70
Energy Usage Charge - \$/kWh:	
All Year - all kWh, per kWh	\$ 0.06812
Public Purpose Programs:	
All kWh, per kWh	\$ 0.00474

Energy Cost Adjustment

1. The energy charge may be adjusted each month based upon the percentage of the energy being provided by the Department of Water Resources to the investor owned utility on the billing date monthly. These adjustments could result in slight decreases or increases in the energy charge.

Special Conditions

1. Voltage: Service will be supplied at one standard voltage.
2. The customer will furnish and maintain all equipment beyond the meter.

SCHEDULE TC-1 – TRAFFIC CONTROL SERVICE

Applicability

Applicable to service for traffic directional sign or signal lighting service owned by governmental agencies and located on streets, highways and other publicly dedicated outdoor ways and places.

Territory

Within the designated areas served by the Moreno Valley Utility.

Rates

Customer Charge – Per Meter Per Day:

Single-Phase Service	\$ 0.046
Polyphase Service	\$ 0.029

Energy Usage Charge - \$/kWh:

All kWh per kWh	\$ 0.13034
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Public Purpose Programs:

All kWh per kWh	\$ 0.00985
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Energy Cost Adjustment

1. The energy charge may be adjusted each month based upon the percentage of the energy being provided by the Department of Water Resources to the investor owned utility on the billing date monthly. These adjustments could result in slight decreases or increases in the energy charge.

Special Conditions

1. Voltage: Service will be supplied at one standard voltage.

Attachment: MVU Rates Proposed 06042019R (3588 : APPROVE RESOLUTION XX AMENDING ELECTRIC RATES)

SCHEDULE TOU-LGS – TIME OF USE – LARGE GENERAL SERVICE

Applicability

Applicable to nonresidential electric service for all types of uses including lighting and power where the customer’s monthly maximum demand is expected to exceed 500 kW or has exceeded 500 kW in any of the 3 months during the preceding 12 months.

Territory

Within the designated areas served by the Moreno Valley Utility.

Rates – Primary Voltage

Customer Charge:

\$/Meter/Month \$ 225.51

Energy Usage Charge - \$/kWh:

Summer

On-Peak \$ 0.08546
Mid-Peak \$ 0.07817
Off-Peak \$ 0.05460

Winter

Mid-Peak \$ 0.06766
Off-Peak \$ 0.05888
Super Off-Peak \$ 0.04243

Demand Charge - \$/kW:

	<u>Summer</u>	<u>Winter</u>
Facilities Related Demand Charge, per kW	\$11.78	\$11.78
Time Related Demand Charge, per kW		
On-Peak	\$29.43	\$0.00
Mid-Peak	\$0.00	\$7.22
Off-Peak	\$0.00	\$0.00

Public Purpose Programs:

All kWh per kWh \$0.00987

Minimum Monthly Charge See Conditions #4

Attachment: MVU Rates Proposed 06042019R (3588 : APPROVE RESOLUTION XX AMENDING ELECTRIC RATES)

Rates – Secondary Voltage

Customer Charge:

\$/Meter/Month \$ 422.98

Energy Usage Charge - \$/kWh:

Summer

On-Peak \$ 0.09062
Mid-Peak \$ 0.08292
Off-Peak \$ 0.05789

Winter

Mid-Peak \$ 0.07162
Off-Peak \$ 0.06238
Super Off-Peak \$ 0.04504

Demand Charge - \$/kW:

	<u>Summer</u>	<u>Winter</u>
Facilities Related Demand Charge, per kW	\$12.02	\$12.02
Time Related Demand Charge, per kW:		
On-Peak	\$30.15	\$0.00
Mid-Peak	\$ 4.14	\$4.14
Off-Peak	\$ 0.00	\$0.00

Public Purpose Programs:

All kWh per kWh \$ 0.01059

Minimum Monthly Charge:

Minimum Monthly Charge See Condition #4

Energy Cost Adjustment

1. The energy charge may be adjusted each month based upon the percentage of the energy being provided by the Department of Water Resources to the investor owned utility on the billing date monthly. These adjustments could result in slight decreases or increases in the energy charge.

Special Conditions

1. Time periods are defined as follows:

Attachment: MVU Rates Proposed 06042019R (3588 : APPROVE RESOLUTION XX AMENDING ELECTRIC RATES)

TOU Period	Weekdays		Weekends & Holidays	
	Summer	Winter	Summer	Winter
	On-Peak	4 p.m. - 9 p.m.	N/A	N/A
Mid-Peak	N/A	4 p.m. - 9 p.m.	4 p.m. - 9 p.m.	4 p.m. - 9 p.m.
Off-Peak	All other hours	9 p.m. - 8 a.m.	All other hours	9 p.m. - 8 a.m.
Super-Off-Peak	N/A	8 a.m. - 4 p.m.	N/A	8 a.m. - 4 p.m.

Holidays are defined as New Year’s Day (January 1), Martin Luther King’s Birthday (third Monday in January), Washington’s Birthday (third Monday in February), Memorial Day (last Monday in May), Independence Day (July 4), Labor Day (first Monday in September), Veterans Day (November 11), Thanksgiving Day (fourth Thursday in November), and Christmas Day (December 25).

When any holiday listed above falls on Sunday, the following Monday will be recognized as an off-peak period. No change will be made for holidays falling on Saturday.

2. Summer and Winter Seasons are defined as follows: The Summer season begins at 12:00 a.m. on June 1 and will continue until 12:00 a.m. on October 1 each year. The Winter season begins at 12:00 a.m. on October 1 and continues until 12:00 a.m. on June 1 of the following year.
3. Voltage: Service will be supplied at one standard voltage.
4. Billing Demand: The Billing Demand shall be the kilowatts of Maximum Demand, determined to the nearest kW. The Billing Demand shall be the greater of the kilowatts of Maximum Demand recorded (or established for) the monthly billing period or 50% of the highest Maximum Demand established in the preceding eleven months (Ratcheted Demand).
5. Maximum Demand: The maximum demand in any month shall be the measured maximum average kilowatt input, indicated or recorded by instruments to be supplied by the City, during any 15-minute metered interval in the month.
6. Excess Transformer Capacity: Transformer Capacity is the amount of transformer capacity requested by a customer in excess of that which the City would normally install to serve the customer’s Maximum Demand. Excess Transformer Capacity shall be billed at the amount shown in the rates section above.
7. Power Factor Adjustment: The billing will be adjusted each month for power factor.

- a. Adjustment Rate: The customer's bill will be increased each month for the power factor \$0.60 per kilovar of maximum reactive demand.
- b. The maximum reactive demand shall be the highest measured maximum average kilovar demand indicated or recorded by metering during any 15-minute metered interval in the month. For customers with metering used for billing that measures kilovar-hours instead of reactive demand, the kilovars of reactive demand shall be calculated by multiplying the kilowatts of measured maximum demand by the ratio of the kilovar-hours to the kilowatt-hours. Demands in kilowatts and kilovars shall be determined to the nearest unit. A device will be installed on the kilovar-hour meter to prevent its reverse operation on leading power factors.

SCHEDULE SE - SERVICE ESTABLISHMENT CHARGE

Applicability

Applicable to general service and domestic service customers.

Territory

Within the entire territory served by Moreno Valley Utility.

Rate

For each establishment of electric service, a charge will apply.

Special Conditions

1. The service establishment charge is in addition to the charges calculated on the applicable rate schedule and will be made each time an account is established.
2. Establishment means each time an account is opened, including a turn on of electric service or a change of name that requires a meter reading.
3. If the customer requests electric service be established on the same day as his request or outside regular business hours, an additional charge will apply.

SCHEDULE NEM – NET ENERGY METERING

Applicability

Applicable to general service and domestic service customers who have eligible renewable energy generation systems connected to MVU’s system (interconnected) and meet program requirements. This schedule is closed to new applicants effective April 2018.

Territory

Within the entire territory served by Moreno Valley Utility.

Net Surplus Compensation Rate

The net surplus compensation rate shall be \$0.036493 per kWh applied to any net surplus energy remaining at the end of the customer’s twelve (12) monthly billing period (“relevant period”).

Special Conditions

1. NEM customers will receive a credit for the surplus electricity supplied to MVU’s system.
2. This credit will be applied to the customer’s energy bill, to offset all or part of the costs associated with the energy that is consumed each month.
3. Residential accounts are billed once a year for “net” energy consumed or generated over the previous 12 months, if any.
4. Small business accounts served under the General Service Rate also qualify for annual billing.
5. Large business NEM accounts under the Large General Service Rate are billed monthly for their energy usage.
6. Net surplus energy is the amount of generated kilowatt-hours (kWh) energy that is exported to MVU’s system that exceeds the amount that is received from MVU.
7. Any net surplus energy remaining at the end of the 12-month billing period (also called the “relevant period”) will be given a monetary value known as the Net Surplus Compensation Rate (NSCR).
8. The NSCR value is established by MVU to reflect the costs MVU avoids in procuring power during the time period net surplus generators are likely to produce excess power.

9. Customers may choose to either roll over the monetary value of any net surplus energy to the next billing cycle or receive payment for any net surplus energy at the end of your 12-month relevant period.
10. Customers will be billed monthly for nominal non-energy-related charges such as taxes.

SCHEDULE NEM 2.0 – NET ENERGY METERING SUCCESSOR RATE

Applicability

Applicable to Eligible Customer-Generators, as defined in Section 2827 of the California Public Utilities Code, operating a renewable electrical generation facility, as therein defined, located on the customer's owned, leased, or rented premises with a capacity of no more than one megawatt that is intended primarily to offset part or all of the customer's own electrical requirements and which is interconnected and operates in parallel with MVU's power system pursuant to Electric Rule 21 – Generating Facility Interconnections.

Territory

Within the entire territory served by Moreno Valley Utility.

Net Surplus Compensation Rate

The net surplus compensation rate shall be \$0.036493 per kWh applied to any net surplus energy remaining at the end of the customer's monthly billing period.

Special Conditions

1. As determined in each billing period, when a customer is a net consumer of energy, the resulting net consumed energy will be used in the calculation of all applicable energy charges.
2. As determined in each billing period, when a customer is a net producer of energy, the resulting net produced energy will be used in the calculation of a monetary value that shall only be applied to the customer's monthly bill, including any minimum charges and applicable taxes.
3. A customer is a net producer of energy when the amount of generated kilowatt-hours (kWh) of energy that is exported to MVU's system exceeds the amount that the customer receives from MVU.
4. The monetary value calculated is the product of the net kWh produced multiplied by the Net Surplus Compensation Rate (NSCR).
5. The NSCR value is established by MVU to reflect the costs MVU avoids in procuring power during the time period net surplus generators are likely to produce excess power.

6. MVU shall retain any net surplus energy generated by the NEM customer, including any associated environmental attributes or renewable energy credits (“REC”).
7. To be eligible for service under this Schedule, generating facilities must meet all applicable safety and performance standards established by the National Electrical Code, the Institute of Electrical and electronics Engineers, and accredited testing laboratories such as Underwriters Laboratories and, where applicable, rules regarding safety and reliability (i.e., MVU’s Electric Rule 21). All generating facilities must have a warranty of at least 10 years for all equipment and the associated installation from the system provider (not from MVU). All major solar system components (including PV panels and other generation equipment, inverters and meters) must be on the verified equipment list maintained by the CEC. Any other equipment, as determined by MVU, must be verified as having safety certification from a Nationally Recognized Testing Laboratory.
8. To be eligible for service under this Schedule, the customer’s generating facilities must be sized to offset part or all of the customer’s own electrical requirements and cannot be oversized. This means that the estimated output of the generating facility, using the CEC-AC nameplate rating for inverter-based generating facilities must not exceed the customer’s previous annual usage in kWh. In the event that there is less than 12 months of previous recorded usage data, the standard of 2 watts per square foot of the premises will apply.
9. Customers seeking to interconnect their generating facilities for the purpose of receiving service under this Schedule are subject to the interconnection requirements and interconnection cost responsibility provisions as established in MVU’s Electric Rule 21.
10. A new customer of record who owns, rents, or leases a premise that includes a generating facility that was approved by MVU for parallel operation prior to the new customer moving in and/or taking electric service with MVU will take service under this Schedule as long as the requirements of this Schedule are met. This provision also applies to premises where the developer/contractor establishes the interconnection.
11. Existing generating facilities currently under Schedule NEM that are modified such that: (1) the generating capacity or output increases by 10% or more; or (2) adding battery storage will be placed under Schedule NEM 2.0.

12. Existing customers under Schedule NEM will remain under Schedule NEM for a period of fifteen (15) years from the original year in which their generating facility was interconnected to MVU's grid as determined from the date the customer received the permission to operate (PTO), and then will be switched to Schedule NEM 2.0 or any otherwise applicable rate schedule. Existing customers under Schedule NEM can request to be placed under Schedule NEM 2.0 at any time; the customer's account will be trued up at the time of the request. This means that any outstanding balance due or credit due will be applied to the next regular billing.

SCHEDULE ED – ECONOMIC DEVELOPMENT (“ED”) RATE

Applicability

Commercial or industrial end-use customers that would otherwise receive service under Electric Rate Schedule TOU-LGS (Time of Use-Large General Service) and meet certain criteria as established and adopted by resolution of the City Council of the City of Moreno Valley may take advantage of the ED rate as a New Customer or Expanded Load Customer. This ED rate is applicable to all or part of the services provided to New Customers and Expanded Load Customers, as such terms are defined herein. Local Hiring Incentive applicable to certain other rate classes as described in Special Condition No. 6.

1. A New Customer shall be a customer seeking to locate a new business or relocate an existing business (not currently located within the territory served by Moreno Valley Utility) within Moreno Valley Utility’s service territory.

2. An Expanded Load Customer shall be an existing Moreno Valley Utility TOU-LGS customer that is adding new load to Moreno Valley by a minimum of 200 kW based upon the customer’s past electrical demand as determined by Moreno Valley Utility. The expanded load can be at the customer’s current site, or at a new site within the Moreno Valley Utility service territory. The ED rate will only be applied to the expanded load as determined in Section 5 below.

3. A New Customer shall meet the following criteria:
 - a. Targeted industries
 - i. Logistics/Distribution
 - ii. Medical/Healthcare
 - iii. Auto Dealerships

 - b. Job Creation

i. Tier 1 Discount Rate	150 – 499 jobs
ii. Tier 2 Discount Rate	500 – 999 jobs
iii. Tier 3 Discount Rate	greater than 1000 jobs
iv. Tier 4 Discount Rate	350 jobs minimum
v. Tier 5 Discount Rate	200 jobs minimum

 - c. City Revenue Producer – either sales tax or use tax generation
 - i. Tier 1a Discount Rate

Attachment: MVU Rates Proposed 06042019R (3588 : APPROVE RESOLUTION XX AMENDING ELECTRIC RATES)

- ii. Tier 4 Discount Rate - minimum \$40,000 annual sales tax revenue to the City

Territory

Within the entire territory served by Moreno Valley Utility.

Character of Service

The service provided hereunder shall be alternating current with regulated frequency of 60 hertz, three-phase, or a combination single and three-phase served through one meter, at a standard voltage not to exceed 480 volts, or as may be specified by the Electric Division. To be eligible to participate all customers must have a demand meter.

Rates

Except as provided herein, or in the Economic Development Rate Agreement, all charges and provisions of the customer’s otherwise applicable rate schedule shall apply. The applicable Energy Charge and Demand Charge under the customer’s otherwise applicable rate schedule will be reduced as follows:

	Tier 1/Tier 1a	Tier 2	Tier 3	Tier 4
Year 1	19.00%	21.50%	24.00%	26.50%
Year 2	16.00%	18.50%	21.00%	23.50%
Year 3	13.00%	15.50%	18.00%	20.50%
Year 4	10.00%	12.50%	15.00%	17.50%
Year 5	7.00%	9.50%	12.00%	14.50%

	Tier 5
Years 1 – 4	20.00%
Years 5 – 8	15.00%
Years 9 – 12	10.00%
Years 13 - 16	5.00%

Attachment: MVU Rates Proposed 06042019R (3588 : APPROVE RESOLUTION XX AMENDING ELECTRIC RATES)

Special Conditions

1. Term: Economic Development Rate Agreements entered into under this Schedule shall be for a single five-year term, except for Tier 5, which shall be for a single sixteen-year term.
2. Approval: Application of this Rate Schedule shall be subject to the approval of the City Manager or his designee, based on meeting the eligibility criteria outlined herein.
3. Agreement: The customer must sign a standard Moreno Valley Economic Development Rate Agreement in order for the rates under this Schedule to be applicable. In addition to the other terms of this Schedule, the Economic Development Rate Agreement shall require the customer to reimburse Moreno Valley for all rate reductions received under this Schedule, if the customer fails to maintain the required minimum load during the applicable term of the Agreement.
4. Minimum Load: Customers qualifying under this Schedule as a New Customer with a projected minimum monthly electric demand of at least 500 kW or as an Expanded Load Customer under Applicability Sections 1 and 2 above, respectively, must agree to maintain a minimum level of load for five years for Tiers 1 through 4 and sixteen years for Tier 5 from the date service is first rendered under this Schedule as set forth in the Economic Development Rate Agreement.
5. Jobs: Job as prescribed in Section 3c above is defined as Full Time Equivalent that is working at least 1750 hours per year. The Customer retains authority in making individual hiring decisions. This program does not require the Customer to hire any person who does not have the experience and ability to qualify such persons for a job.
6. Local Hiring Incentive: The Local Hiring Incentive is available for Tier 1 through Tier 5. Customers who qualify under Tiers 1 – 4 and voluntarily hire at least 20% of Full Time Equivalent (FTE) employees that are City of Moreno Valley residents will receive an additional discount of 2%; those Customers who hire at least 40% of Full Time Equivalent (FTE) employees that are City of Moreno Valley residents will receive an additional discount of 4%. For Customers eligible for the Tier 5 discount, the Local Hiring Incentive is an additional 1% discount for Customers who voluntarily hire at least 20% of FTE employees that are City of Moreno Valley residents. The additional 1% discount will be applied to the first five years of the sixteen-year term. Any additional discounts will apply to the Energy Charge and Demand Charge. Customers must certify the local hire percentage each year to remain eligible for the additional discount.
7. Base Period Usage: Base Period Usage shall be established and agreed to in the Economic Development Rate Agreement for Expanded Load

Customers. Base Period Usage shall be the average monthly energy use and demand for the customer during the last three years of service to the customer, from the date ending the last payment period before the date of the Agreement. Expanded Load qualifying for the rate under this Schedule shall be measured as the difference between the new monthly, meter documented energy use and demand, and the Base Period Usage.

8. State Mandated Public Purpose Program Charge: All bills rendered under this Schedule shall be subject to the Public Purpose Program Charge as established by the City Council.
9. Miscellaneous Fees and Charges: Rates charged pursuant to this Schedule shall be subject to any Energy Users Taxes, Utility Users Taxes, and any other governmental taxes, duties, or fees which are applicable to Electric Service provided to Customer by the City of Moreno Valley. Rates are also subject to adjustment, as established by the City of Moreno Valley City Council in response to federal or state climate change laws, renewable portfolio standard or other mandated legislation. These adjustments may include but are not limited to charges to mitigate the impacts of greenhouse gas emissions or “green power” premiums.
10. Expanded Load: Expanded Load customers applying for this rate must demonstrate to the satisfaction of the Utility that the expanded load is new to Moreno Valley.
11. Effective Date: The effective date of the Economic Development Rate Agreement shall commence within 12 months from the date of the City’s approval, or the Agreement becomes null and void. The Agreement becomes effective upon execution by the parties, and the Economic Development Rate commences upon written notice by customer and coincides with the customer’s normal billing cycle.
12. Reapplication: Customers who have received service under the Economic Development Rate are eligible to reapply for the rate as an Expanded Load Customer 12 months after their current Economic Development Rate Agreement has expired, if they meet the criteria therefore.
13. Restrictions: Residential customers and federal, state or local government agencies are not eligible to apply for service under this Schedule.
14. City Manager: The City Manager or his/her designee may offer to customers an Economic Development Rate and term based upon the actual cost to serve the customer. The customer must sign a Moreno Valley Economic Development Rate Agreement, and such Agreement shall be approved by the City Council. All other terms and conditions under this rate schedule shall apply.

SCHEDULE ED-BR - ECONOMIC DEVELOPMENT- BUSINESS RETENTION RATE

Applicability

This Schedule is applicable to the anchor stores at Stoneridge Towne Centre and Moreno Beach Plaza, whose building size is 25,000 square feet or larger and have 30 or more employees.

1. The Customer must demonstrate to the satisfaction of the City that relocation of its entire operation to a site outside of Moreno Valley Utility's service territory is a viable alternative or that the threat of closure of the Customer's existing facilities is otherwise imminent.
2. The Customer must provide:
 - a. An affidavit that "but for" the economic development retention rate incentives, in combination with other city-sponsored incentives, such customer would relocate outside of the City's electric service territory, and
 - b. Substantial evidence demonstrating the business has considered viable locations outside of Moreno Valley's service territory including but not limited to incentive offer letters from competing states, local jurisdictions and economic development organizations and/or real estate sale and lease agreements for competing sites, or
 - c. Substantial evidence documenting the imminent threat of facility closure, including but not limited to letters from business owners or appropriate corporate officers documenting the circumstances which have led to this imminent threat and why the Business Retention Rate is necessary to retain the business within Moreno Valley Utility's service territory.
3. The Customer must agree to maintain a minimum level of load for five years from the date service is first rendered as set forth in the Economic Development Rate Agreement for Business Retention.

Territory

Within the entire territory served by Moreno Valley Utility.

Rates

Except as provided herein, or in the Economic Development Business Retention Rate Agreement, all charges and provisions of the customer’s otherwise applicable rate schedule shall apply. The applicable Energy Charge and Demand Charge under the customer’s otherwise applicable rate schedule will be reduced as follows:

- Year 1 20%
- Year 2 20%
- Year 3 20%
- Year 4 0%
- Year 5 0%

Special Conditions

1. Term: Economic Development Rate Agreement for Business Retention entered into under this Schedule shall be for a single five-year term.
2. Approval: Application of this Rate Schedule shall be subject to the approval of the Public Works Director or his designee, based on meeting the eligibility criteria outlined herein.
3. Agreement: The customer must sign a standard Moreno Valley Economic Development Rate Agreement for Business Retention in order for the rates under this Schedule to be applicable. In addition to the terms of this Schedule, the Economic Development Rate Agreement for Business Retention shall require the customer to reimburse Moreno Valley for all rate reductions received under this Schedule, if the customer fails to maintain the required minimum load during the five-year term of the Agreement.
4. Minimum Load: All customers must agree to maintain a minimum level of load for five years from the date service is first rendered under this Schedule as set forth in the Economic Development Rate Agreement for Business Retention.
5. State Mandated Public Purpose Charge: All bills rendered under this Schedule shall be subject to the Public Purpose Charge as established by the City Council.
6. Miscellaneous Fees and Charges: Rates charged pursuant to this Schedule shall be subject to any Energy Users Taxes, Utility Users Taxes, and any other governmental taxes, duties, or fees which are applicable to Electric Service provided to Customer by the City of Moreno Valley. Rates are also subject to adjustment, as established by the City of Moreno Valley City Council in response to federal or state climate change laws, renewable portfolio standard or other mandated legislation. These adjustments may

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include but are not limited to charges to mitigate the impacts of greenhouse gas emissions or “green power” premiums.

7. Effective Date: The Agreement becomes effective upon execution by the parties, and the Economic Development Business Retention Rate commences with the customer’s normal billing cycle following execution of the Agreement by both parties.
8. Restrictions: Residential customers, small commercial customers, and federal, state or local government agencies are not eligible to apply for service under this Schedule.

SCHEDULE EV PUBLIC – ELECTRIC VEHICLE PUBLIC CHARGING

Applicability

This Schedule is applicable to electric vehicle charging stations owned and maintained by Moreno Valley Utility.

Charging type	Voltage
Level 2	240V
Level 3	480V

Territory

Within the entire territory served by Moreno Valley Utility.

Rates

Level 2 City Owned Charging Station	\$0.21 per kWh
Level 3 City Owned Charging Station	\$0.35 per kWh

Per Ordinance 942, there is a four-hour maximum for parking and charging of electric vehicles in a single charging session. Sessions will be given a 30-minute grace period and thereafter will be charged \$1.00 per hour up to a maximum of \$30.00.

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SCHEDULE WTR – WIRELESS TECHNOLOGY RATE

Applicability

This Schedule is applicable to single-phase service for wireless technology industries and utility customers deploying advanced metering infrastructure (AMI) that require electric service to operate wireless communication devices that are mounted on existing utility facilities, or other facilities approved by the utility and are unmetered.

The monthly kilowatt-hour (kWh) usage of each device shall not exceed 2,700 kWh. Effective with the date the customer becomes ineligible for service under this Schedule, the customer’s account shall be transferred to Schedule B - General Service or another applicable rate schedule.

Territory

Within the entire territory served by Moreno Valley Utility.

Rates

Customer Charge - \$/Month:

Single Phase	\$18.56
Polyphase	\$18.59

Inspection Charge - \$/Device/Inspection \$15.23

Initialization of Service Charge – One-Time Fee

Fixed Energy Charge - \$/Device/Month: \$7.31

Tier	Energy Use	Max Watts/ Connected Load	\$/Device/ Month
1	0-50 kWhs / Month	75	\$6.52
2	51-100 kWhs / Month	149	\$13.02
3	101-150 kWhs / Month	224	\$19.56
4	151-200 kWhs / Month	298	\$26.08
5	201-250 kWhs / Month	373	\$32.59
6	251-300 kWhs / Month	448	\$39.10
7	301-350 kWhs / Month	522	\$45.62
8	351-400 kWhs / Month	597	\$52.14
9	401-450 kWhs / Month	672	\$58.66

Tier	Energy Use	Max Watts/ Connected Load	\$/Device/ Month
10	451-500 kWhs / Month	746	\$65.18
11	501-900 kWhs / Month	1,343	\$117.32
12	901-1,350 kWhs / Month	2,014	\$175.96
13	1,351-1,800 kWhs / Month	2,686	\$234.60
14	1,801-2,250 kWhs / Month	3,357	\$293.27
15	2,251-2,700 kWhs / Month	4,028	\$351.92

Public Purpose Charge – Per Device per Month

Tiers	Energy Use	\$/Device/ Month
1	0-50 kWhs / Month	\$0.49
2	51-100 kWhs / Month	\$0.99
3	101-150 kWhs / Month	\$1.48
4	151-200 kWhs / Month	\$1.97
5	201-250 kWhs / Month	\$2.47
6	251-300 kWhs / Month	\$2.95
7	301-350 kWhs / Month	\$3.44
8	351-400 kWhs / Month	\$3.94
9	401-450 kWhs / Month	\$4.43
10	451-500 kWhs / Month	\$4.93
11	501-900 kWhs / Month	\$8.86
12	901-1,350 kWhs / Month	\$13.29
13	1,351-1,800 kWhs / Month	\$17.73
14	1,801-2,250 kWhs / Month	\$22.17
15	2,251-2,700 kWhs / Month	\$26.60

Special Conditions

1. Voltage: Service will be supplied at 120 volts (one fuse per 120-volt leg).
2. Three-Phase Service: Where the utility determines, it is impractical to provide single-phase service under this Schedule three-phase service will be provided.
3. Limited Availability: This Schedule is available only where MVU determines that an applicable agency having jurisdiction has an existing code, ordinance, formal

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policy statement or requirement that prohibits above ground electrical meter facilities in the public right-of-way.

4. Determination of Monthly usage: The customer must provide the utility information from which the utility can determine the level of kWh usage to be consumed and/or level of service to be provided, such as the manufacturers' equipment specifications, data sheets, etc., and the number of devices to be installed. The utility will place the customer in the appropriate usage tier and charge according to the maximum value of that tier. The utility retains the right to perform on-site inspections to verify the energy consumption of the device(s).
5. Maximum Wattage: The rate tiers must coincide with the maximum wattage ratings listed below. The wattage information shall be provided by the customer in order to assist SCE in determining the appropriate tier.

Tiers	Energy Use	Usage Fuse Size	Maximum Watts / Connected Load Name Plat
1	0-50 kWhs / Month	KTK-3/4	75 watts
2	51-100 kWhs / Month	KTK-1	149 watts
3	101-150 kWhs / Month	KTK-1-1/2	224 watts
4	151-200 kWhs / Month	KTK-2	298 watts
5	201-250 kWhs / Month	KTK-2-1/2	373 watts
6	251-300 kWhs / Month	KTK-3	448 watts
7	301-350 kWhs / Month	KTK-3-1/2	522 watts
8	351-400 kWhs / Month	KTK-4	597 watts
9	401-450 kWhs / Month	KTK-5	672 watts
10	451-500 kWhs / Month	KTK-6	746 watts
11	501-900 kWhs / Month	KTK-10	1,343 watts
12	901-1,350 kWhs / Month	KTK-15	2,014 watts
13	1,351-1,800 kWhs / Month	KTK-20	2,686 watts
14	1,801-2,250 kWhs / Month	KTK-25	3,357 watts
15	2,251-2,700 kWhs / Month	KTK-30	4,028 watts

6. Installation: The device(s) shall be installed on utility facilities, or other facilities approved by the utility. Utility customers taking service for AMI-related devices attached to utility-owned facilities may attach only to underground-fed streetlight poles. When the devices are installed on utility facilities, the installation and

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removal of such device(s) will be performed at the customer's expense. Device installation shall not be performed under this Schedule where location, mounting height, and/or other considerations are not acceptable to the utility. Unless approved by the utility, all wireless communication devices must be visible to the utility.

7. Modification of Facilities: No modifications can be made to the customer-owned wireless communications devices or the AMI-related devices unless approved by MVU. Where the customer requests a modification of MVU-owned facilities, and such modifications are acceptable to MVU, MVU will perform the requested modifications at the customer's expense.
8. Maintenance: Upon installation of the device(s), where the utility experiences, or expects to experience, maintenance costs exceeding its normal maintenance expense resulting from, but not limited to, vandalism, the utility may require the customer to pay the excess maintenance expense.
9. Discontinuance and Restoration of Service: Discontinuance and restoration of service to the customer shall be completed in accordance with Rule 11.
10. Liability of the Utility: The utility shall not, by taking action pursuant to its tariffs, be liable for any loss, damage, or injury, established or alleged, which may result, or be claimed to result, there from.
11. Distribution Line Extension: Distribution line extensions shall be installed in accordance with Rule 15.
12. Service Extension: Services shall be installed and maintained as provided in Rule 16.
13. Initialization of Service Charge: A one-time charge, as shown in the RATES section of this schedule, is applied to each service account provided service under this Schedule to recover the costs of a lock and spare fuse which are required with the initialization of service.

City of Moreno Valley
Electric Service Rules, Fees and Charges

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ELECTRIC RULE 1—ADOPTION OF ELECTRIC RULES AND DEFINITIONS

These Electric Rules established by the City of Moreno Valley (“City”) and approved by the City Council are effective throughout the service area of the City of Moreno Valley’s Electric Utility.

All rules are subject to change. Copies of the rules currently in effect will be kept in the offices of the Electric Utility Division, Department of Public Works. Customers or others contemplating any expenditures or activities governed by these rules should assure themselves that they have the current version by contacting the Electric Utility Division. A copy of the current rates is also available on the City’s website – www.moval.org.

For the purpose of these rules, the following terms shall have the following meanings:

Applicant: A person, persons, firm, association, governmental agency, corporation or other concern that submits a request for electric service from the Utility and who will be responsible for all related charges.

Billing Demand: The load or demand, measured in kilowatts and kilovars, used for computing charges under rate schedules based on the size of the Customer's load or demand. It may be connected load, the measured maximum demand, or a modification of either as provided for by the applicable rate schedule.

City Council: The City Council of the City of Moreno Valley, designated as the governing body of the Utility.

Connected Load: The sum of the nameplate-rated capacities of all of the Customer's equipment that can be connected to the Utility's lines at any one time as more completely described in the rate schedules.

Customer: The person, persons, firm, association, governmental agency, corporation or other concern that use, are entitled to use, or benefit from the use of electricity from the Utility.

Date of Presentation: The date upon which a bill or notice is mailed or delivered by the Utility to the Customer.

Distribution Lines: Overhead pole lines and underground facilities consisting of conduit, wire and cable that are operated at distribution voltages.

Energy Diversion: Electricity being received by a Customer without registering through the meter due to either tampering with the meter or bypassing the meter.

HP: Horsepower.

kVAR: Kilovar

kVARh: Kilovar-hour

kW: Kilowatt.

kWh: Kilowatt-hour.

On-Site Facilities: On-site facilities include the facilities located on the Premises as well as those in adjacent rights-of-way, easements and a proportionate share of any facilities on adjacent property used to provide service to the Premises.

Nominal Voltage: The nominal voltage of a circuit is the approximate voltage between conductors in a circuit or system of a given class, assigned for the purpose of convenient designation. For any specific nominal voltage, the operating voltage actually existing at different points and times on the system will vary.

Person: Any individual, partnership, corporation, public agency or legal entity.

Premises: All real property, buildings, and appurtenances upon an integral parcel of land undivided by a street, highway or other public thoroughfare.

Service Wires or Connection: The group of conductors connecting the service entrance conductors of the Customer to the Utility's supply line, regardless of the location of the Utility's meters or transformers.

Utility: City of Moreno Valley

ELECTRIC RULE 2—DESCRIPTION OF SERVICE

A. GENERAL

1. The type of service available at any particular location should be determined by inquiry at City's local office.
2. Alternating-current service will be regularly supplied at a frequency of approximately 60 Hertz (cycles per second).
3. In areas where a certain standard secondary voltage is presently being served to one or more Customers, an Applicant applying for new service in such areas may be required by City to receive the same standard voltage supplied to existing Customers.
4. All electric service described in this rule is subject to the conditions in the applicable rate schedule and other pertinent rules.
5. It is the responsibility of the Applicant to ascertain and comply with the requirements of governmental authorities having jurisdiction.
6. Service to a premise is normally established at one delivery point, through one meter, and at one voltage class. Other arrangements for service at multiple service delivery points, or for services at more than one voltage class, are permitted only where feasible and with the approval of City. For purposes of this rule, distribution service voltage classes, delta or wye connected, are described as:
 - a. 0-600 volt source, single-phase, 1Ø
 - b. 0-600 volt source, three-phase, 3Ø
 - c. above 600 volt source, three-phase, 3Ø
7. Direct-current (d-c) or two-phase service is not available.

B. SERVICE DELIVERY VOLTAGES

- Following are the standard service voltages normally available, although not all of them are or can be made available at each service delivery point:

Distribution Voltages		
Single-phase Secondary	Three-phase Secondary	Three-phase Primary
120/240, 3-wire	240/120, 4-wire 480/277, 4-wire*	12,000, 3-wire 2,400, 3-wire*
120/208, 3-wire*	208Y/120, 4-wire	4,160, 3-wire*
		4,160Y/2,400, 4-wire*
		12,000Y/6,930, 4-wire*

***Limited Availability.**

- All voltages referred to in this rule and appearing in some rate schedules are nominal service voltages at the service delivery point. City's facilities are designed and operated to provide sustained service voltage at the service delivery point, but the voltage at a particular service delivery point, at a particular time, will vary within fully satisfactory operating range limits established in Section C.
- The point of delivery and point of metering will normally be at the same voltage and within close proximity to each other. When City determines it is not feasible for the point of delivery and point of metering to be at the same voltage and within close proximity to each other, the demand and energy meter readings used in determining the charges will be adjusted to correct for transformation and line losses. An estimated transformer loss adjustment factor of two percent (2%) will be applied to the demand and energy meter readings for each stage of transformation between the point of delivery and the point of metering, unless City and the Customer agree that specific transformer manufacturer test data support a different transformer loss adjustment. Line losses will be calculated as a function of the current through, and the electrical characteristics of, the line between the point of delivery and point of metering.

C. VOLTAGE AND FREQUENCY CONTROL

1. CUSTOMER SERVICE VOLTAGES

- a. Under all normal load conditions, City's distribution circuits will be operated so as to maintain secondary service voltage levels to Customers within the service voltage ranges specified below:

Nominal Two-Wire and Multi-Wire Service Voltage	Minimum Voltage to All Services	Maximum Service Voltage on All Services
120	114	126
208	197	218
240	228	252
277	263	291
480	456	504

City's distribution voltage will be regulated to the extent practicable to maintain service voltage on residential and commercial distribution circuits within the minimum and maximum voltages specified above.

- b. Exceptions to Voltage Limits. Voltage may be outside the limits specified when the variations:
- 1) Arise from the temporary action of the elements.
 - 2) Are infrequent momentary fluctuations of a short duration
 - 3) Arise from service interruptions.
 - 4) Arise from temporary separation of parts of the system from the main system.
 - 5) Are from causes beyond the control of City, and which may be sustained duration.
- c. Where the operation of the Applicant's equipment requires unusually stable voltage regulation or other stringent voltage control beyond that supplied by City in the normal operation of its system, the Applicant, at his own expense, is responsible for installing, owning, operating, and maintaining any special or auxiliary equipment on the load side of the service delivery point as deemed necessary by the Applicant.
- d. The Applicant shall be responsible for designing and operating his service facilities between the service delivery point and the utilization equipment to maintain proper utilization voltage at the line terminals of the utilization equipment.

2. CUSTOMER UTILIZATION VOLTAGES

- a. All Customer-owned utilization equipment must be designed and rated in accordance with the following utilization voltages specified by the American National Standard Institute C84.1 if Customer equipment is to give fully satisfactory performance:

Nominal Utilization Voltage	Minimum Utilization Voltage	Maximum Utilization Voltage
120	100	125
208	191	216
240	220	250
277	254	289
480	440	500

Minimum utilization voltages from ANSI C84.1 are shown for Customer information only as City has no control over voltage drop in Customer’s wiring.

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D. GENERAL LOAD LIMITATIONS**1. SINGLE-PHASE SERVICE**

Single-phase service normally will be three-wire, 120/240 volts where the size of any single motor does not exceed 7.5 horsepower (10 horsepower at the option of City). For any single-phase service, the maximum demand as determined by City is limited to the capability of a 100-kVA transformer and 400 amp main disconnect unless otherwise approved by City. If the load requires a transformer installation in excess of 100 kVA, the service normally will be three-phase.

2. THREE-PHASE SERVICE (LESS THAN 600 VOLTS)

- a. Secondary service from underground primary distribution systems (where City maintains existing 3-phase primary circuits):

Nominal Voltage	Minimum Load	Maximum Demand
208Y/120, 4-wire	Demand load justifies a 75 kVA transformer	3,000 kVA
480Y/277, 4-wire	Demand load justifies a 75 kVA transformer	3,000 kVA

- b. Where three-phase service is supplied, City reserves the right to use single-phase transformers connected open-delta or closed-delta, or three-phase transformers.
- c. Three-phase service will be supplied on request for installations aggregating less than the minimums listed above where existing transformer capacity is available and approved by City.
- d. Three-phase metering for one service voltage supplied to installations on one premise at one delivery location normally is limited to a maximum of a 4,000 ampere service rating. Metering for larger installations, or installations having two (2) or more service switches with a combined rating in excess of 4,000 amperes, or service for loads in excess of the maximum demand load permitted, may be installed provided approval of City has been first obtained as to the number, size, and location of switches, circuits, transformers and related facilities. Service supplied to such approved installations in excess of one 4,000 ampere switch or breaker at one service delivery point may be totalized for billing purposes.

3. THREE-PHASE SERVICE (OVER 600 VOLTS)

- a. Following are three-phase voltages that may be transformed from higher existing primary distribution voltages and provided only as isolated services for a single Applicant where the Applicant’s demand load justifies, as determined by City, the installation of the minimum size transformer bank used by City:

Nominal Voltage	Minimum Size Bank Installed	Maximum Demand Load Permitted
2,400*	500 kVA	5,000 kVA
4,160*	500 kVA	5,000 kVA
12,000	500 kVA	12,000 kVA

*Limited Availability.

- b. For its operating convenience and necessity, City may elect to supply an Applicant whose demand load is in excess of 2,000 kVA from a substation on the Applicant’s Premises supplied from a transmission source.
- c. City reserves the right to change its distribution or transmission voltage to another standard service voltage when, in its judgment, it is necessary or advisable for economic reasons or for proper service to its Customers. Where a Customer is receiving service at the voltage being changed, the Customer then has the option to: (1) accept service at the new voltage, (2) accept service at the secondary side of an additional stage of transformation to be supplied by City at a location on the Customer’s Premises in accordance with City’s requirements, or (3) contract with City for an additional stage of transformation to be installed as Special Facilities (including any applicable Contributions in Aid of Construction taxes) under the provisions of Section I, below, whereby the Customer will be considered as accepting service at the primary side of the additional stage of transformation. Metering not relocated to the primary side of the additional stage of transformation will be subject to a transformer loss adjustment in accordance with Section B.4 of this Rule. The option to contract with City for an additional stage of transformation (option 3, above) is available only once in conjunction with a change in standard voltage by City.

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4. LOAD BALANCE

The Applicant must balance his demand load as nearly as practicable between the two sides of a three-wire single-phase service and between all phases of a three-phase service. The difference in amperes between any two phases at the Customer's peak load should not be greater than 10 percent or 50 amperes (at the service delivery voltage), whichever is greater; except that the difference between the load on the lighting phase of a four-wire delta service and the load on the power phase may be more than these limits. It will be the responsibility of the Customer to keep his demand load balanced within these limits.

E. PROTECTIVE DEVICES

1. It shall be the Applicant's responsibility to furnish, install, inspect and keep in good and safe condition at his own risk and expense, all appropriate protective devices of any kind or character, which may be required to properly protect the Applicant's facilities. City shall not be responsible for any loss or damage occasioned or caused by the negligence, or wrongful act of the Applicant or of any of his agents, employees or licensees in omitting, installing, maintaining, using, operating or interfering with any such protective devices.
2. It shall be the Applicant's responsibility to select and install such protective devices as may be necessary to coordinate properly with City's protective devices to avoid exposing other Customers to unnecessary service interruptions.
3. It shall be the Applicant's responsibility to equip his three-phase motor installations with appropriate protective devices, or use motors with inherent features, to completely disconnect each such motor from its power supply, in accordance with National Electrical Code, giving particular consideration to the following:
 - a. Protection in each set of phase conductors to prevent damage due to overheating in the event of overload.
 - b. Protection to prevent automatic restarting of motors or motor driven machinery, which has been, subjected to a service interruption and, because of the nature of the machinery itself or the product it handles, cannot safely resume operation automatically.
 - c. Open-phase protection to prevent damage due to overheating in the event of loss of voltage on one phase.
 - d. Reverse-phase protection where appropriate to prevent uncontrolled reversal of motor rotation in the event of accidental phase reversal. (Appropriate installations would include, but are not limited to, motors driving elevators, hoists, tramways, cranes, pumps, conveyors, etc.)
4. The available short-circuit currents vary from one location to another, and also depends on available generation, condition of the system loads, and the ultimate

design characteristics of City's supply and service facilities. Consult City for the ultimate maximum short-circuit current at each service termination point.

5. Where an Applicant proposes to use a ground-fault sensing protective system which would require special City-owned equipment, such a system may be installed only where feasible and with written approval of City.
6. Any non-City-owned emergency standby or other generation equipment that can be operated to supply power to facilities that are also designed to be supplied from City's system shall be controlled with suitable protective devices by the Applicant to prevent parallel operation with City's system in a fail-safe manner, such as the use of a double-throw transfer switch to disconnect all conductors, except where there is a written agreement or service contract with City permitting such parallel operation.

F. INTERFERENCE WITH SERVICE

1. GENERAL

City reserves the right to refuse to serve new loads or to discontinue supply to existing loads of a size or character that may be detrimental to City's operations or to the service of its Customers. Any Customer who operates or plans to operate any equipment such as, but not limited to, pumps, welders, saw mill apparatus, furnaces, compressors or other equipment where the use of electricity is intermittent, causes intolerable voltage fluctuations, or otherwise causes intolerable service interference, must reasonably limit such interference or restrict the use of such equipment upon request by City. The Customer is required either to provide and pay for whatever corrective measures are necessary to limit the interference to a level established by City as reasonable, or avoid the use of such equipment, whether or not the equipment has previously caused interference.

2. HARMFUL WAVE FORM

Customer shall not operate equipment that superimposes a current of any frequency or waveform upon City's system, or draws current from City's system of a harmful waveform, which causes interference with City's operations, or the service to other Customers, or inductive interference to communication facilities.

3. CUSTOMER'S RESPONSIBILITY

Any Customer causing service interference to others must diligently pursue and take corrective action after being given notice and a reasonable time to do so by City. If the Customer does not take corrective action in the time set, or continues to operate the equipment causing the interference without restriction or limit, City may, without liability, after giving five (5) days written notice to Customer, either install and activate control devices on its facilities that will temporarily prevent the detrimental operation, or discontinue electric service until a suitable permanent solution is provided by the Customer and it is operational.

4. MOTOR STARTING CURRENT LIMITATIONS

- a. The starting of motors shall be controlled by the Customer as necessary to avoid causing voltage fluctuations that will be detrimental to the operation of City's distribution or transmission system, or to the service of any of City's customers.
- b. If the starting current for a single motor installation exceeds the value listed for Class C or better (per National Electrical Code Section 430) and the resulting voltage disturbance causes or is expected to cause detrimental service to others, reduced voltage starters or other suitable means must be employed, at the Customer's expense, to limit the voltage fluctuations to a level equivalent to a Class C motor.
- c. Where service conditions permit, subject to City's approval, motor starters may be deferred in the original installation. City may later order the installation of a suitable starter or other devices when it has been determined that the operation of the Customer's motors interfere with service to others. Also, City may require starting current values lower than those set forth herein where conditions at any point on its system require such reduction to avoid interference with service to other Customers.
- d. Starters may be omitted on the smaller motors of a group installation when their omission will not result in a starting current in excess of the allowable starting current of the largest motor of the group. Where motors start simultaneously, they will be treated as a single unit equal to the sum of their individual starting currents.
- e. City may limit the maximum size and type of any motor that may be operated at any specific location on its system to that which will not be detrimental to City's system operations or to the service of its customers, as determined by City.
- f. For installations of motors where the equipment is started automatically by means of float, pressure, or thermostat devices, such as with pumps or wind machines for frost protection, irrigation pumps or other similar installations, City may require the Customer to install, at his own expense and in accordance with City's operating requirements, suitable preset time-delay devices to stagger the automatic connection of load to the supply system and to prevent simultaneous start-up for any reason.

G. POWER FACTOR

When lighting devices, such as neon, fluorescent, luminous gaseous, mercury vapor, and other lighting equipment having low power factors are served on street lighting schedules, the Customer shall provide, at his own expense, power factor corrective equipment to increase the power factor of each complete lighting device to not less than 90 percent.

H. CONNECTED LOAD RATINGS

1. The connected load is the sum of the rated capacities of all of the Customer's electric utilization equipment that is served through one metering point and that may be operated at the same time, computed to the nearest one-tenth of a horsepower, kilowatt (kW) or kilovolt-ampere (kVA). Motors will be counted at their nameplate ratings in horsepower output and other devices at their nameplate input ratings in kW or kVA, except that resistance welders will be rated in accordance with the section of this rule regarding "Welder Service." Unless otherwise stated in the rate schedule, conversions between horsepower, kW and/or kVA ratings will be made on a one-to-one basis.
2. The normal operating capacity rating of any motor or other device may be determined from the nameplate rating. Where the original nameplate has been removed or altered, the manufacturer's published rating may be used or the rating determined by test at the expense of the Customer.
3. Motor-generator sets shall be rated at the nameplate rating of the alternating-current drive motor of the set.
4. X-Ray Equipment
 - a. X-ray equipment shall be rated at the maximum nameplate kVA input operating at the highest rated output amperes. If the kVA input rating is not shown, it will be determined for single-phase loads by taking the product of the amperes input rating times the input voltage rating divided by 1,000. For three-phase equipment, multiply this product times the square root of three (1.73).
 - b. Where X-ray equipment is separately metered and supplied from a separate transformer installed by City to serve the X-ray installation only, the kVA rating of City's transformer or the total X-ray equipment input capacity, whichever is smaller, will be considered the load for billing purposes.
5. Where a Customer operates a complete unit of equipment connected for three-phase service, but consisting of single-phase components which cannot be readily reconnected for single-phase service, City shall consider the connected load of such a unit as three-phase load.
6. Where a Customer has, or expects to have, permanently-connected, three-phase load that is used infrequently or for short duration, such as, but not limited to, equipment for fire pumps, frost protection, flood control, emergency sirens or other similar installations which make it impractical to record proper demands on a monthly basis for billing purposes, the Customer may, for his own reasons and with City's approval, guarantee an appropriate billing demand or connected three-phase load for billing purposes in order to reserve suitable capacity in City's facilities.

I. SPECIAL FACILITIES

1. City normally installs only those standard facilities, which it deems are necessary to provide regular service in accordance with the tariff schedules. Where the Applicant requests City to install Special Facilities and City agrees to make such an installation, the additional costs thereof shall be borne by the Applicant, including such continuing ownership costs as may be applicable.
2. Special Facilities are: (a) facilities requested by an Applicant which are in addition to or in substitution for standard facilities which City would normally provide for delivery of service at one point, through one meter, at one voltage class under its tariff schedules, or (b) a pro rata portion of the facilities requested by an Applicant, allocated for the sole use of such Applicant, which would not normally be allocated for such sole use. Unless otherwise provided by City's rate schedules, Special Facilities will be installed, owned and maintained by City as an accommodation to the Applicant only if acceptable for operation by City, and the reliability of service to City's other customers is not impaired and Applicant funds construction and pays incremental costs.
3. Special Facilities will be installed under the terms and conditions of a contract in the form on file with the Utility. Such contract will include, but is not limited to, the following terms and conditions:
 - a. Where new facilities are to be installed for Applicant's use as Special Facilities, the Applicant shall advance to City the estimated additional installed cost of the Special Facilities over the estimated cost of standard facilities. At City's option, City may finance the new facilities.

J. WELDER SERVICE

1. RATING OF WELDERS

Electric welders will be rated for billing purposes as follows:

- a. **MOTOR-GENERATOR ARC WELDERS** - The horsepower rating of the motor driving a motor-generating type arc welder will be taken as the horsepower rating of the welder.
- b. **TRANSFORMER ARC WELDERS** - Nameplate maximum kVA input (at rated output amperes) will be taken as the rating of transformer type arc welders.
- c. **RESISTANCE WELDERS** - Resistance welder ratings will be determined by multiplying the welder transformer nameplate rating (at 50 percent duty cycle) by the appropriate factor listed below:

TYPE OF WELDER	TRANSFORMER NAMEPLATE RATING @ 50% Duty Cycle**	FACTOR City Owned Distribution Transformer
1. Rocker Arm, Press or Projection Spot	20 kVA or less	0.60
2. Rocker Arm, Press Spot Project Spot Flash or Butt Seam or Portable Gun	Over 20 kVA 21 to 75 kVA, inclusive 100 kVA or over All sizes	0.80
3. Flash or Butt	67 to 100 kVA, inclusive	***
4. Projection Spot Flash or Butt	Over 75 kVA 66 kVA or less	1.20
<p>** The kVA rating of all resistance welders to which these rating procedures are applied must be at or equivalent to 50 percent duty cycle operation. Duty cycle is the percent of the time welding current flows during a given operating cycle. If the operating kVA nameplate rating is for some other operating duty cycle, then the thermally equivalent kVA rating at 50 percent duty cycle must be calculated.</p> <p>*** Each flash or butt welder in this group will be rated at 80 kVA.</p>		

- d. Ratings prescribed by a, b, and c above normally will be determined from nameplate data or from data supplied by the manufacturer. If such data are not available or are believed by either City or Customer to be unreliable, the rating will be determined by test at the expense of the Customer.
- e. If established by seals approved by City, the welder rating may be limited by the sealing of taps, which provide capacity greater than the selected tap, and/or by the interlocking lockout of one or more welders with other welders.
- f. When conversion of units is required for tariff application, one welder kVA will be taken as one horsepower for rules stated on a horsepower basis and one welder kVA will be taken as one kilowatt for rates stated on a kilowatt basis.

2. BILLING OF WELDERS

Welders will be billed at the regular rates and conditions of the rules on which they are served, subject to the following provisions:

- a. **CONNECTED LOAD TYPE OF SCHEDULE.** Welder load will be included as part of the connected load with ratings as determined under Section 1, above, based on the maximum load that can be connected at any one time, and no allowance will be made for diversity between welders.
- b. **DEMAND METERED TYPE OF SCHEDULE.** Where resistance welders are served on these schedules, the computation of diversified resistance welder load shall be made as follows:

Multiply the individual resistance welder ratings, as prescribed in Sections 1.c. to 1.f. inclusive (above) by the following factors, and add to the results thus obtained:

- 1.0 times the rating of the largest welder
- 0.8 times the rating of the next largest welder
- 0.6 times the rating of the next largest welder
- 0.4 times the rating of the next largest welder
- 0.2 times the ratings of all additional welders

If this computed, diversified, resistance welder load is greater than the metered demand, the diversified resistance welder load will be used in lieu of the metered demand for rate computation purposes.

ELECTRIC RULE 3—APPLICATION FOR SERVICE

A. APPLICATIONS

City may require each Customer to sign an application for the service desired, and also to establish credit. Generally, applications for service will be taken over the telephone, but may be taken in person or received by mail.

Application form shall set forth:

1. Legal name of Applicant.
2. Location of Premises.
3. Date Applicant will be ready for service.
 - a. Service restoration: When the Customer's service has been terminated either because of a determination by City that an unsafe apparatus or condition exists on the Premises, or because the Customer has threatened to create a hazardous condition, service will not be restored until City determines the Customer's electrical wiring or equipment or the use of either, has been made safe. When service is denied or terminated solely under these sections, the Customer may seek remedies before the City Council.
 - b. When the Customer's service has been terminated because of an order of termination issued to City by a governmental agency, service will not be restored until City has received authorization to restore the service from the appropriate governmental agency.
4. Whether electric service was previously supplied to the Premises.
5. Purpose for which service is to be used, with description of appliances.
6. Address to which bills are to be mailed or delivered.
7. Whether Applicant is owner, agent, or tenant of Premises.
8. Rate schedule desired where an optional rate is available.
9. Information necessary to the design, installation, maintenance, and operation of City's facilities.
10. Such other information as City may reasonably require for service.

The application is merely a request for service, and does not in itself bind City to serve except under reasonable conditions, nor does it bind the Customer to take service for a longer period than the minimum requirements of the rate. City may disconnect or refuse to provide service to the Applicant if the acts of the Applicant or the conditions upon the

Premises indicate that false, incomplete, or inaccurate information was provided to City. City shall provide the Applicant the reason for such refusal.

C. INDIVIDUAL LIABILITY FOR JOINT SERVICE

Where two or more persons join in one application or contract for service, they shall be jointly and severally liable thereunder and shall be billed by means of a single periodic bill mailed to the person designated on the application to receive the bill. Whether or not City obtained a joint application, where two (2) or more adults occupy the same Premises, they shall be jointly and severally liable for bills for energy supplied.

D. CHANGE OF CUSTOMER'S APPARATUS OR EQUIPMENT

In the event that the Customer shall make any material change either in the amount or character of the loads, protective equipment, or characteristic apparatus changes (reactive vs. inductive loads) installed upon the Premises to be supplied with electric energy by City, the Customer shall immediately give City written notice of this fact.

ELECTRIC RULE 4—CONTRACTS

Contracts will not be required as a condition precedent for service except:

1. As may be required by conditions set forth in the regular schedule of rates approved or accepted by the City.
2. In the case of electric extensions, temporary service, or service to speculative projects, in which case a contract may be required.

ELECTRIC RULE 5—SPECIAL INFORMATION REQUIRED ON FORMS

A. CONTRACTS

Each contract for electric service will contain the following provisions: “This contract shall at all times be subject to such changes or modification by the City Council as may, from time to time, direct in the exercise of its jurisdiction.”

B. CUSTOMERS’ BILLS

Each bill for electric service will include the following statements: “This bill is now due and payable. If you believe your bill is incorrect, call the MVU Customer Service Center. If you are not satisfied with the explanation provided and still believe you have been billed incorrectly, send the bill and a statement supporting your belief that the bill is not correct to the City of Moreno Valley Council Utility Hearing Board (Board) at 14177 Frederick Street, Moreno Valley, CA 92552. To avoid having service turned off if the bill has not been paid, enclose a deposit for the amount of the bill made payable to City Council. If you are unable to pay the amount in dispute, you must inform the Board of your inability to pay. Your service will remain on until the Board completes its review. The Board will review the basis of the billed amount, communicate the results of its review to the parties and make disbursement of the deposit. The Board will not, however, accept deposits when the dispute appears to be over matters that do not directly relate to the accuracy of the bill. Such matter includes the quality of a utility’s service, general level of rates, pending rate changes, and sources of fuel and power.”

C. DISCONTINUANCE OF SERVICE NOTICE

Each Discontinuance of Service Notice for nonpayment of bills will include the following information:

1. The name and address of the Customer whose account is delinquent.
2. The amount of the delinquency.
3. The date by which payment (or arrangements for payment) is required, or the date by which the dispute must be documented in order to avoid termination.
4. The procedure by which the Customer may initiate a complaint or request an investigation concerning service or charges as defined herein.
5. The telephone number of a representative of City who can provide additional information or institute arrangements for payment.
6. The telephone number of the Board to which inquiries by the Customer may be directed.

ELECTRIC RULE 6—ESTABLISHMENT AND RE-ESTABLISHMENT OF CREDIT

An Applicant for City service may be required to establish credit. A Customer whose City service has been terminated for nonpayment of an energy bill or whose payments have been past due, as set forth below, may be required to re-establish credit.

A. ESTABLISHMENT OF CREDIT

When, for Applicant's convenience, City provides service to the Applicant before credit is established and the Applicant fails to establish credit in accordance with this rule, service may be terminated after notice is given in accordance with these regulations.

Credit can be established if the Applicant:

- a. is the owner with a substantial equity, of value satisfactory to City, in the Premises to be served; or
- b. makes a deposit to secure payment of bills as prescribed in Rule 7; or
- c. furnishes a qualified guarantor to secure payment of Applicant's City bills; or
- d. has been a Customer of City for a similar type of service within the past two years, and during the last twelve consecutive months of that prior service, Customer has had not more than two past due bills as defined in Rules 8 and 11. The periodic bill for such previous service must equal at least 50 percent of the estimated bill amount(s) for the new service, and provided further, that the credit of Applicant is unimpaired in the opinion of City; or
- e. otherwise establishes credit to the satisfaction of City; and
- f. has paid all bills for nonresidential electric service previously supplied to Applicant by City.

B. RE-ESTABLISHMENT OF CREDIT

1. An Applicant who previously has been a Customer of City, and whose electric service has been discontinued by City during the last twelve (12) months of that prior service because of nonpayment of bills, may be required to re-establish credit.
 - a. A Customer who fails to pay bills before they become past due and who further fails to pay such bills within five days after presentation of a discontinuance of service notice for nonpayment of bills, may be required to pay said bills and re-establish credit by depositing the amount established by City. A deposit may be required regardless of whether or not service has been discontinued for such nonpayment.

ELECTRIC RULE 7—DEPOSITS

A. AMOUNT OF DEPOSIT**1. ESTABLISHMENT OF CREDIT**

- a. Residential accounts: The amount of deposit required to establish credit shall be twice the average monthly bill as estimated by City.
- b. Nonresidential accounts: The amount of deposit required to establish credit shall be twice the maximum monthly bill as estimated by City.
- c. Residential and nonresidential accounts: The amount of deposit taken to establish credit shall be subject to adjustment upon request by the Customer or upon review by City.
- d. Residential solar accounts are eligible for a special metering and billing option called Net Energy Metering (NEM). Under this billing option, each NEM customer is billed monthly for their total bill, but is not required to pay for the consumed energy until the end of each 12-month period. Therefore, if a deposit is required, the amount of the deposit taken to establish credit shall be the annual total billed amount plus twice the average monthly bill as estimated by City.

2. RE-ESTABLISHMENT OF CREDIT

Should the Customer's payment history with the City warrant it, the City may require the Customer to re-establish credit by paying a re-establishment deposit. The amount of deposit required to re-establish credit for residential and nonresidential accounts will be twice the maximum monthly bill as determined by City. For residential solar accounts, the amount will be the annual total billed amount plus twice the maximum monthly bill as determined by the City.

B. RETURN OF DEPOSIT

1. City may refund a Customer's deposit by draft or by applying the deposit to the Customer's account. If the Customer establishes service at a new location, City may retain the deposit for such new account, subject to the conditions of Sections B.3 and B.4 below.
2. Upon discontinuance of service, City will refund the Customer's deposit or the balance thereof that is in excess of unpaid bills for service furnished by City.
3. When the Customer's credit is otherwise established, City will refund the deposit either upon the Customer's request for return of the deposit or upon review by City.
4. For residential and nonresidential accounts, the City will review the Customer's account at the end of the first twelve- (12) months that the deposit is held and each

month thereafter. After the Customer has not had more than two past due bills during the twelve (12) months prior to any such review, and has not had service temporarily or permanently discontinued for nonpayment of bills during such period, the deposit will be refunded in accordance with this section. For residential solar accounts billed on Net Energy Metering (NEM), if a deposit is required to establish or re-establish credit on the account, the deposit shall be held on the account for the life of the account or until the utility determines that a deposit is no longer required.

5. Deposits cannot be used to offset past due bills or to avoid or delay discontinuance of service.

C. INTEREST ON DEPOSIT

1. City will pay interest on deposits, except as provided below. Interest shall be calculated on a daily basis, and compounded at the end of each calendar month, from the date fully paid to the date of refund by check or credit to the Customer's account. The interest rate applicable in each calendar month may vary and shall be equal to 1/12th of the interest rate on commercial paper (prime, 3 months) for the previous month as reported in the Federal Reserve Statistical Release, G.13, or its successor publication; except that when a refund is made within the first fifteen (15) days of a calendar month, the interest rate applicable in the previous month shall be applied for the elapsed portion of the month in which the refund is made.
2. No interest will be paid if service is temporarily or permanently discontinued for nonpayment of bills.
3. No interest will be paid for those months where the bill is paid after the due date (late pay or over date).

ELECTRIC RULE 8—NOTICES

Any notice pursuant to City's rules may be given to the Customer in writing. Written notice is effective when it is either: (1) presented to the Customer, or (2) mailed to the Customer at the address where the Customer is receiving service, or (3) mailed to the customer at the mailing address provided by the Customer, or (4) delivered by door hanger at the address where the Customer is receiving service. City may also provide the Customer with verbal notice in person or by telephone. Any notice pursuant to City's rules from the Customer or the Customer's authorized agent may be given to City by telephone, in person, or in writing. Verbal notice is acceptable unless written notice is requested by City or required by the rules.

A. NOTICES OF TERMINATION OF SERVICE FOR NONPAYMENT

Monthly bills for residential service are due and payable upon presentation and will be considered past due if payment is not received by City within fifteen (15) days after the bill is mailed to the Customer. Deposit requests are due and payable when request for service is made. When a deposit is billed, it will be considered past due if payment is not received by City within fifteen (15) days after the deposit request is mailed. If the past due amount is not paid, service may be terminated for nonpayment in accordance with Rule 11. A Field Notification Charge may appear on your next bill if City posts a collection notice at your Premises. If a termination order is processed for your account due to nonpayment, payment of the balance in full, plus a Collection Processing Fee and Deposit may be required prior to restoration of service. The Processing Fee may be charged whether or not electric service is actually terminated if the arrears balance is paid after the payment deadline has passed. Unpaid closing bills may be reported or forwarded to a credit reporting agency.

1. 10-DAY NOTICE

When a bill for service or deposit request has become past due, City will mail the Customer a notice that service may be terminated for nonpayment in 10 calendar days.

2. 24-HOUR NOTICE

When the past due balance on a 10-day notice is unpaid, City will make a reasonable attempt to contact an adult residing at the service address either by telephone or in person at least 24 hours prior to terminating service.

3. NOTICE OF TERMINATION OF SERVICE FOR NONPAYMENT OF PAYMENT ARRANGEMENT AGREEMENT

When City and the Customer enter into a payment arrangement agreement and the Customer does not abide by the terms of the agreement, in whole or in part, City will give the Customer at least 24 hours notice by telephone or in person prior to terminating service for nonpayment.

B. NOTICES FOR UNPAID CLOSING BILLS

Closing bills are due and payable upon presentation and will be considered past due if payment is not received by City within fifteen (15) days after the closing bill is mailed to the Customer. When City determines that the Customer has an open account for City service at one location and an unpaid closing bill in the Customer's name for City service at another location, City may transfer the unpaid closing bill to the open account, except that the unpaid closing bills for nonresidential service may not be transferred to a residential account. Before the Customer's open account may be terminated for nonpayment of the closing bill, the Customer will be given notices in accordance with Section A of this Rule.

ELECTRIC RULE 9—RENDERING AND PAYMENT OF BILLS

A. BILLS PREPARED AT REGULAR INTERVALS

Bills for electric service will be rendered at regular intervals. All bills will be based on meter registration, except as provided in Section C below, or as may otherwise be provided in City's rules. Meters will be read as nearly as possible at regular intervals. Except as otherwise stated, the regular billing period will be once each month. Due to Sundays and holidays and other factors, it is not always possible to read meters on the same day of each month.

B. PRO RATA CORRECTION

Opening and closing bills rendered will be computed in accordance with the rate schedule applicable to that service, unless otherwise provided in this rule, or in the applicable rate schedule. The basic charge, customer charge, the amount of energy blocks, demand blocks, etc., and the service charge, demand charge, or minimum charge will be prorated on the basis of the number of days in the period in question to the total number of days in the subject month. However, where daily equivalents are used, there will be no pro rata correction. Instead, the calculation shall use the number of days in the billing period multiplied by the daily equivalent charge.

When one or more regularly scheduled meter readings have been missed, the proration factor for the next regularly scheduled meter reading shall be 1.000 times the number of monthly billing cycles in the period. When an interim bill based on a special reading for a period other than 27 to 33 days has been issued during the interval since the last regularly scheduled meter reading, the proration factor for the regularly scheduled bill shall be the factor derived above, less the proration factor applied to the interim bill. However, where daily equivalents are used, there will be no pro rata correction. Instead, the calculation shall use the number of days in the billing period by the daily equivalent charge.

C. ESTIMATED BILLS

If, because of unusual conditions or for reasons beyond its control, City is unable to read the Customer's meter on the scheduled reading date, City may bill the Customer for estimated consumption during the billing period, and make any necessary corrections when a reading is obtained. Estimated consumption for this purpose will be calculated considering the Customer's prior usage, City's experience with other customers of the same class in that area, and the general characteristics of the Customer's operations. Adjustments for any underestimate or overestimate of a Customer's consumption will be reflected on the first regularly scheduled bill rendered and based on an actual reading following the period of inaccessibility.

D. READINGS OF SEPARATE METERS NOT COMBINED

For the purpose of making charges, each meter upon the Customer's Premises will be considered separately, and the readings of two or more meters will not be combined, except as follows:

1. Where combinations of meter readings are specifically provided for in rate schedules; or
2. Where City's operating convenience or necessity shall require the installation of two or more meters upon the Customer's Premises instead of one meter.

E. BILLS DUE ON PRESENTATION

Bills for electric service are due and payable upon presentation. Payments shall be received at the office of City, or by an authorized agent of City.

F. CLOSING BILL PAYABLE ON PRESENTATION

Removal bills, special bills, bills rendered on vacation of Premises, or bills rendered to persons discontinuing the service, shall be due and payable upon presentation. Bills for connection or reconnection of service and payments for deposits or to re-establish credit as required under the rules of City shall be paid before service will be connected or reconnected.

G. RETURNED CHECK CHARGE

If a check, tendered in payment of amounts owing City, is not honored by a bank and is returned to City unpaid, City will add to the Customer's bill a charge for processing each such returned check consistent with these rules. Where service is subject to discontinuance under Rule 11, the returned check charge shall be included in the total amount due and payable.

H. FIELD NOTIFICATION AND COLLECTION PROCESSING FEES

City will require payment of a Collection Processing Fee when an authorized City representative makes a field call to a Customer's Premises to discontinue electric service in accordance with Rule 11 for nonpayment of a past due billing. City will also assess the Collection Processing Fee when an authorized City representative makes a field call to discontinue electric service for nonpayment of a deposit that was requested in accordance with Rule 6.

Where service is discontinued under the provisions of Rule 11, City will require payment of the balance in full, the balance of any unpaid closed accounts, plus any assessed Field Notification Charges, Collection Processing Fees and Deposits prior to restoration of service.

If the Customer makes payment in full or makes acceptable payment arrangements in order to avoid discontinuance of service, City may still assess the Processing Fee.

The City may assess a Field Notification Charge when notification must be made due to nonpayment. Generally, these notifications are in the form of a door hanger left at the Customer's Premises. The Field Notification Charge is in addition to any Collection Processing Fees that may apply.

I. LATE PAYMENT CHARGE

A late payment charge of 0.9% per month will be applied to the total unpaid balance of a Customer Account if the Customer's payment is not received by the date indicated on the Customer Account billing.

J. ACCUMULATIVE AMOUNT DUE

City reserves the right to accumulate bills until the total amount due exceeds \$2.00.

ELECTRIC RULE 10—DISPUTED BILLS

A. CORRECTNESS OF BILL

If the correctness of a bill is questioned or disputed by a Customer, an explanation should be promptly requested from the Customer Service Center. If the bill is determined to be incorrect, a corrected bill will be issued.

B. BILL REVIEW PROCEDURE

A Customer who has initiated a complaint or requested an investigation shall be given an opportunity for review of his complaint by the City Utility Hearing Board.

1. After review, when a Customer and City agree on the amount of the bill, City will determine and advise the Customer: (a) if a payment arrangement to pay the unpaid balance is warranted, or (b) the date the unpaid balance of his account must be paid. If a payment arrangement is warranted and agreed to by the Customer, service will not be discontinued for nonpayment for any Customer complying with such payment arrangement agreement, provided the Customer also keeps current on his account for utility service as charges accrue in each subsequent billing period. If the Customer fails to comply with any such payment arrangement agreement, service shall be subject to discontinuance for nonpayment of bills as provided Rule 11.
2. After review, when a Customer and City fail to agree on the amount of the bill, and upon review, City has determined to its satisfaction that the bill is correct, City will inform the Customer that:
 - a. City has completed its investigation and review.
 - b. In lieu of paying the disputed bill, Customer may deposit with the City Council at its local office, the amount claimed by City to be due. A check or other form of remittance for such deposit should be made payable to the City Council. A Customer who is unable to deposit the full amount in dispute for a bill covering a period in excess of 90 days shall deposit an amount equal to 90 days at the average disputed charge per day of the disputed bill.
 - c. The Customer shall submit the disputed bill and a statement setting forth the basis for the dispute of the amount billed. The Board will not, however, accept deposits when the dispute appears to be over matters that do not directly relate to the accuracy of the bill. Such matters include the quality of a utility's service, general level of rates, pending rate applications, and sources of fuel and power. Disputes over termination policy will be resolved in accordance with Rule 11, which does not require such a deposit.
 - d. Upon receipt of the deposit, the Board will notify City, review the basis of the billed amount, and advise both parties of its findings and disburse any deposit in accordance therewith.

- e. Service will not be discontinued for nonpayment of the disputed bill when deposit has been made with the Board or notice of inability to pay per Rule 5 pending the outcome of the Board's review.
- f. Failure of the Customer to submit a dispute to the Board in accordance with this Rule above will warrant discontinuance of service in accordance with Rule 11.
- g. If, before completion of the Board's review, additional bills become due which the Customer also wishes to dispute, he should follow the procedures set forth in this Rule with regard to the additional amounts claimed by City to be due. Failure to follow the procedures in this Rule will warrant discontinuance of service in accordance with Rule 11.
- h. Subsequent bills, not in dispute, rendered prior to the settlement of the disputed bill, will be due and payable in accordance with Rules 9 and 11.

ELECTRIC RULE 11—DISCONTINUANCE AND RESTORATION OF SERVICE

If City terminates or refuses to restore service to a Customer or any other person for any of the reasons or upon any of the grounds stated herein, City shall incur no liability whatsoever to said Customer or person or to any other Customers or persons.

A. CUSTOMER REQUEST TO TERMINATE LIABILITY FOR PAYMENT FOR SERVICE

When a Customer wants to terminate liability for payment for service, the Customer shall give City not less than two days notice and state the date on which the termination is to become effective. The Customer may be held responsible for service furnished at the Premises until two days after receipt of such notice by City, or until the date of termination specified in the notice, whichever date is later.

B. TERMINATION OF SERVICE FOR NONPAYMENT—WEEKENDS AND HOLIDAYS

Service will not be terminated for nonpayment of bills or deposit requests on Saturdays, Sundays, legal holidays or on days when the offices of City are closed to the public.

C. TERMINATION OF SERVICE FOR NONPAYMENT OF BILLS OR DEPOSIT REQUESTS

Monthly bills are due and payable upon presentation and will be considered past due if payment is not received by City within 15 days after the bill is mailed to the Customer. Deposit requests are due and payable when request for service is made. When a deposit is billed, it will be considered past due if payment is not received by City within 15 days after the deposit request is mailed to the Customer. Customers who fail to pay their bills within this time period are subject to service disconnection.

D. FAILURE TO ESTABLISH OR RE-ESTABLISH CREDIT

When City provides service to an Applicant before credit is established or continues service to a Customer pending re-establishment of credit, and the Applicant/Customer fails to establish or re-establish credit, any and all services the Customer is receiving may be terminated after notice has been given. City will not restore the Customer's service until the Customer has complied with the requirements to establish or re-establish credit.

E. TERMINATION OF SERVICE FOR NONPAYMENT OF BILLS AT OTHER LOCATIONS

Any and all services the Customer is receiving may be terminated for nonpayment of a bill for service previously supplied by City to the same Customer at another location after the Customer has been given notices of termination, except that residential service shall not be terminated for nonpayment of a bill for any other class of service. Nonresidential service

may be terminated for nonpayment of a bill for any class of service. Service shall not be terminated for nonpayment within 15 days after establishment of service at the new location. If the Customer is receiving service at more than one location, any or all services may be terminated with proper notice for nonpayment of any bill at any location for City service.

F. TERMINATION OF SERVICE—RETURNED CHECKS

When the Customer has received notice of termination and a check tendered in payment of the past due bill or deposit request for service is returned unpaid, City may terminate service. When the Customer has received a 10-day notice of termination, the notice will remain in effect, and collection action will continue. When the Customer has received a 24-hour notice of termination, the notice will remain in effect, and service may be terminated without further notice.

G. UNSAFE APPARATUS OR CONDITION

1. City may deny or terminate service to the Customer immediately and without notice when:
 - a. City determines that the Premises wiring, or other electrical equipment, or the use of either, is unsafe, or endangers City's service facilities; or
 - b. The Customer threatens to create a hazardous condition; or
 - c. Any governmental agency, authorized to enforce laws, ordinances or regulations involving electric facilities and/or the use of electricity, notifies City in writing that the Customer's facilities and/or use of electricity is unsafe or not in compliance with applicable laws, ordinances, or regulations. City does not assume the responsibility of inspecting or repairing the Customer's facilities, appliances or other equipment for receiving or using service, or any part thereof. In the event the Customer has knowledge that the service is in any way defective, it is the Customer's responsibility to notify City at once. City shall not be liable or responsible for any plumbing, appliances, facilities, or apparatus beyond the point of delivery, which it does not own or maintain in accordance with these rules.

H. SERVICE DETRIMENTAL TO OTHER CUSTOMERS

City will not supply service to a Customer operating equipment, which is considered by City to be detrimental to either the service of other City Customers or to City. City will terminate service and refuse to restore service to any Customer who continues to operate such equipment after receiving notification from City to cease.

I. UNAUTHORIZED USE

1. City may terminate service without notice for unauthorized use of service as defined in Rule 17.2. When the Customer's service has been terminated under this section, City may refuse to restore service until:
 - a. the unauthorized use has ceased, and
 - b. City has received full compensation for all charges authorized in Rule 17.2.
2. City may terminate and refuse to restore service if the acts of the Customer or conditions on the Premises indicate intent to deny City full compensation for services rendered, including, but not limited to, any act which may result in a denial of service. City shall provide the Customer with the reasons for such termination and/or refusal to restore service. When the Customer's service has been terminated under this section, City may refuse to restore service until:
 - a. the acts and/or the conditions described above have ceased or have been corrected to City's satisfaction, and
 - b. City has received full compensation for all charges resulting from the Customer's acts or the conditions on the Premises.

J. NONCOMPLIANCE WITH CITY'S RATES

Unless otherwise specifically provided, City may terminate service to a Customer for noncompliance with any of City's rules if the Customer fails to comply within five days after the City's presentation of written notification of noncompliance to the Customer. The Customer shall comply with City's rules before service will be restored.

K. REVOCATION OF PERMISSION TO USE PROPERTY

If City's service facilities and/or a Customer's wiring to the meter are installed on property other than the Customer's property and the owner of such property revokes permission to use it, City will have the right to terminate service upon the date of such revocation. If service is terminated under these conditions, the Customer may have service restored under the provisions of City's line and service extension rules.

L. CHARGES FOR TERMINATION AND/OR RESTORATION OF SERVICE

1. City may require payment of the entire amount due, including the past due amount and current charges, payment of a deposit or additional deposit in accordance with Rule 7, and payment of other charges indicated herein, prior to restoring service to accounts which have been terminated for nonpayment.
2. City will require a returned check charge for processing a check, which is returned to City unpaid.

3. City will require payment of a Collection Processing Fee when a City representative makes a field call to a Customer's Premises to terminate service for nonpayment of bills or deposit.
4. City will require payment of a Collection Processing Fee per connection before restoring service that has been terminated for nonpayment of bills, to prevent fraud, or for failure to comply with City's rules. If the Customer requests that service be restored outside of regular business hours, an additional charge per connection may apply. Refer to the Chart of Charges and Fees for amounts of applicable charges.
5. In addition, City may charge and collect any unusual costs incidental to the termination or restoration of service, which have resulted from the Customer's action or negligence.
6. Service wrongfully terminated will be restored without charge.

ELECTRIC RULE 12—RATES AND OPTIONAL RATES

A. EFFECTIVE RATES

The rates to be charged by and paid to City for electric service will be the rates legally in effect, approved by the City Council, and on file with the Electric Utility Division, Department of Public Works. Complete schedules of all rates in effect will be kept at all times in City Utility's local office, where they will be available for public inspection. Unless stated otherwise on the rate schedules themselves, City's rate schedules are only applicable for service supplied entirely by City.

B. ESTABLISHING RATE SCHEDULES FOR NEW CUSTOMERS

At the time of application for service, City will, based on information provided by the Applicant, ensure that the Applicant is placed on an applicable rate schedule approved by the City Council. Thereafter, City will take such measures as may be practical to provide the Customer with information regarding rate schedules or options applicable to the Customer's class of service.

C. CHANGING RATE SCHEDULES

City may not be required to make more than one change in rate schedules within a twelve-month period unless a new rate schedule is approved or the Customer's operating conditions have changed sufficiently to warrant a change in rate schedule.

Changes in rate schedules will take effect starting with the next regular meter reading date or meter change date following receipt of the Customer's request to change the rate schedule, unless (1) the rate schedule states otherwise, (2) a written agreement between City and the Customer specifies another date, or (3) the required metering equipment is unavailable. In those cases, the change of schedule will take effect on the date stated in the schedule or agreement, or the date the metering equipment is available. It is the Customer's responsibility to request another schedule or option if the Customer's connected load, hours of operation, type of business or type of service have changed. Where the Customer changes equipment or operation without notifying City, City assumes no responsibility for advising the Customer of other rate options available to the Customer as a result of the Customer's equipment/operation changes.

D. NOTIFYING CUSTOMERS OF NEW RATE SCHEDULES

Where City establishes new rate schedules, City shall take such measures as may be practical to advise affected Customers of the availability of the new rate schedules.

E. ENERGY COST ADJUSTMENT

The energy charge is based upon the percentage of the energy being provided by the Department of Water Resources to the investor owned utility on the billing date of each monthly billing and will be adjusted each month. These adjustments could result in slight decreases or increase in the energy charge.

ELECTRIC RULE 13—TEMPORARY SERVICE

A. ESTABLISHMENT OF TEMPORARY SERVICE

City shall, if no undue hardship to its existing Customers will result therefrom, furnish temporary service under the following conditions:

1. The Applicant shall pay, in advance or otherwise as required by City, the estimated cost installed plus the estimated cost of removal, less the estimated salvage of the facilities necessary for furnishing service.
2. The Applicant shall establish credit as required by Rule 6, except that the amount of deposit prescribed in Rule 7 shall not exceed the estimated bill for the duration of service.

B. CHANGE TO PERMANENT STATUS & REFUNDS

1. If service to the electrical machinery or apparatus as originally installed, or its equivalent, is supplied to a temporary Customer on a continuous, intermittent or seasonal basis for a period of 36 consecutive months from the date electric service first was delivered under this rule, the Customer shall be classified as permanent. The payment made in excess of that required for permanent service or under the line extension rule for permanent Customers shall be refunded, provided the Customer then complies with all of the rules applicable to electric service.
2. If at any time the character of a temporary Customer's operations changes so that, in the opinion of City, the Customer may be classified as permanent, the amount of payment made in excess of that required for permanent service immediately shall be refunded to the Customer under the provisions of this section.

ELECTRIC RULE 14—SHORTAGE OF SUPPLY AND INTERRUPTION OF DELIVERY

City will exercise reasonable diligence and care to furnish and deliver a continuous and sufficient supply of electric energy to the Customer, but does not guarantee continuity or sufficiency of supply. City will not be liable for interruption or shortage or insufficiency of supply, or any loss or damage of any kind of character occasioned thereby. City will not be liable for interruption or shortage or insufficiency of supply. If same is caused by inevitable accident, act of God, fire, strikes, riots, war, or any other cause except that arising from its failure to exercise reasonable diligence. City, whenever it shall find it necessary for the purpose of making repairs or improvements to its system, will have the right to suspend temporarily the delivery of electric energy. In case of shortage of supply and during the period of such shortage, City will make such apportionment of its available supply of energy among its customers as shall be ordered or directed from time to time by the State of California, acting either directly or by a power administrator or other official appointed by it for that purpose. In the absence of such order or direction, City will, in times of shortage, apportion its available supply of energy among all customers in the most reasonable manner possible.

ELECTRIC RULE 15—DISTRIBUTION LINE EXTENSIONS

APPLICABILITY: This rule is applicable to extension of electric distribution lines of City's standard voltages (less than 50 kV) necessary to furnish Permanent electric service to Applicants and will be made in accordance with the following provisions:

A. GENERAL

1. EXTENSION BASIS

- a. Design: City will be responsible for planning, designing, and engineering extensions using City's standards for material, design, and construction. The Applicant will furnish all necessary plot plans, utility plans, street improvement plans, tract maps and electric loads for the design of the system.

The Applicant may design the electrical Distribution Lines using qualified design firms approved by the City. The system will be designed in accordance with the City's standards and the final design will be approved by the City. Ownership of Applicant's final design and as-built documents shall be transferred to City upon completion of work.

- b. Ownership: The facilities installed under the provisions of this rule, shall be owned, operated, and maintained by City, except for substructures and enclosures that are on, under, within, or part of a building or structure.
- c. Private Lines: City shall not be required to serve any Applicant from extension facilities that are not owned, operated, and maintained by City.

2. EXTENSION LOCATIONS

- a. Rights of Way: City will own, operate and maintain extension facilities only;
- 1) along public streets, alleys, roads, highways and other publicly dedicated ways and places which City has the legal right to occupy, and
 - 2) along public lands and private property across which rights of way and permits satisfactory to City may be obtained without cost to or condemnation by the City.
- b. Normal Route of Line: The length and normal route of an extension will be determined by City and shall be considered as the distance along the shortest, most practical, available, and acceptable route which is clear of obstructions from City's nearest permanent and available distribution facility to the point from which the service facilities will be connected.

3. UNDERGROUND EXTENSIONS

Underground extensions shall be installed where required to comply with applicable laws and ordinances or similar requirements of governmental authorities having jurisdiction and where City maintains or desires to maintain underground distribution facilities.

4. OVERHEAD EXTENSIONS

Overhead extensions may be installed only where underground extensions are not required by other jurisdictions and as approved by City.

5. SPECIAL OR ADDED FACILITIES

Any special or added facilities City agrees to install at the request of Applicant will be installed at Applicant's expense in accordance with Rule 2— Description of Service.

6. TEMPORARY SERVICE

Facilities installed for temporary service or for operations of speculative character or questionable permanency shall be made in accordance with the fundamental installation and ownership provisions of this rule, except that all charges shall be made under the provisions of Rule 13—Temporary Service.

7. SERVICES

Service facilities connected to the Distribution Lines to serve an Applicant's Premises will be installed, owned and maintained as provided in Rule 16—Service Extensions.

8. STREET LIGHTS AND AREA LIGHTS

Streetlights, area lights, and other associated facilities shall be installed in accordance with the service provisions of the applicable street light schedule.

9. CONTRACTS

Each Applicant requesting an extension will be required to execute a written contract(s), prior to City performing its work on the extension. Such contracts shall be in the form on file with the Electric Utility Division, Department of Public Works.

B. INSTALLATION RESPONSIBILITIES

1. UNDERGROUND EXTENSIONS

- a. Applicant Responsibility: In accordance with City's design, specifications, and requirements, Applicant is responsible for;

- 1) Excavation: All necessary trenching, backfilling, compaction and other digging as required as well as any pavement cutting or repair.
 - 2) Substructures and Conduits: Furnishing, installing, and upon acceptance by City, conveying to City the ownership of all necessary installed Substructures and Conduits, including Feeder and Service Conduits and related Substructures required to extend to and within subdivisions and developments.
 - 3) Protective Structures: Furnishing, installing, and upon acceptance by City, conveying to City the ownership of all necessary Protective Structures.
 - 4) Safety Barriers and Measures: Applicant is responsible for providing safety barriers, signs, and other suitable means to protect public from potential injuries arising from construction of underground extension.
- b. City Responsibility: City is responsible for installing cables, switches, transformers, and other distribution facilities as required to complete the extension.

The Applicant may install the system in accordance with the City's design and construction standards using qualified electrical contractors approved by the City.

2. OVERHEAD EXTENSIONS

City is responsible for installing all facilities required for a pole line extension at the Applicants expense and only where underground extensions are not required.

3. PERFORMED WORK

Where requested by Applicant and mutually agreed upon, City may perform that portion of the new extension work normally installed by Applicant, provided Applicant pays City its total estimated installed cost. Upon completion of the work, the difference between the estimated and actual cost of the work will be refunded or billed to the Applicant as appropriate.

C. CONTRIBUTIONS OR ADVANCES BY APPLICANT

1. CASH ADVANCE

A cash advance will be required from every Applicant. If the scope of the work lends itself to progress payments in the sole judgment of the city, such progress payments will be considered by the City. The cash advance will be equal to the City's total estimated installed cost to complete an extension including transformers and meters. Upon completion of the work, the difference between the estimated and actual cost of the work will be refunded or billed to the Applicant as appropriate.

Applicant shall contribute or advance, before the start of City's construction, the following;

- a. **Underground Non-Refundable Amount:** Applicant's contribution is the portion of the City's total estimated installed cost, to complete the underground extension including transformers and meters for;
 - 1) **Cabling:** The estimated installed cost of any necessary cabling installed by City to complete the underground extension. This includes the cost of conversion of existing single-phase lines to three-phase lines, if required; plus
 - 2) **Substructures:** City's estimated value of substructures installed by Applicant and deeded to City as required.
 - 3) The cost of cabling and substructures installed and/or paid for by a previous Customer or developer in anticipation of providing service to the current Customer or development.
- b. **Underground Refundable Amount:**
 - 1) The cost of cabling and substructures in anticipation of providing service to a future Customer or developer. Such costs will be refunded at the time they are collected from the future Customer or developer in accordance with this Rule.
- c. **Overhead Non-Refundable Amount:** Applicant's contribution is the portion of the City's total estimated installed cost to complete the overhead extension including transformers and meters;
 - 1) **Pole Line;** All necessary facilities required for an overhead extension and, if required, the conversion of existing single-phase lines to three-phase lines; plus
 - 2) **Transmission Underbuilds;** City's total estimated installed cost of the underbuild, where all or a portion of an overhead extension is to be constructed on existing poles.
- d. **Other Non-Refundable Amounts:** Applicant's non-refundable amount includes the City's estimated value of excavation, conduits, and protective structures required by City for the extension. The applicant will pay the City for the cost of inspection of any facilities installed by the applicant.
- e. **NOTE:** ITCC is not a component in City's costs.

4. JOINT APPLICANTS

The total contribution or advance from a group of Applicants will be apportioned among the members of the group in such manner as they may mutually agree.

5. PAYMENT ADJUSTMENTS

Excess Facilities: If the loads provided by Applicant(s) result in City having installed facilities which are in excess of those needed to serve the actual loads, and City elects to reduce such excess facilities, Applicant shall pay City its estimated total costs to remove, abandon, or replace the excess facilities, less the estimated salvage of any removed facilities.

D. SPECIAL CONDITIONS**1. FACILITY RELOCATION OR REARRANGEMENT**

Any relocation or rearrangement of City's existing facilities, at the request of, or to meet the convenience of an Applicant or Customer, and agreed upon by City, normally shall be performed by City. In all instances, City shall abandon or remove its existing facilities, at the option of City. Applicant or Customer shall be responsible for the costs of all related relocation, rearrangement and removal work.

ELECTRIC RULE 16—SERVICE EXTENSIONS

APPLICABILITY: This rule is applicable to both (1) City service facilities that extend from City's distribution line facilities to the service delivery point, and (2) service related equipment required of Applicant on Applicant's Premises to receive electric service.

A. GENERAL

1. DESIGN

City will be responsible for planning, designing, and engineering its Service Extension using City's standards for design, materials and construction. City will allow Applicant's design with City's approval.

2. SERVICE FACILITIES

City's service facilities shall consist of (a) primary or secondary underground or overhead service conductors, (b) poles conduits, sleeves, pedestals, pads, or structures to support service conductors, and service transformers, (c) City-owned metering equipment, and (d) other City-owned service related equipment.

3. OWNERSHIP OF FACILITIES

Service facilities installed under the provisions of this rule shall be owned, operated, and maintained by City if they are (a) located in the street, road or franchise area of City, (b) installed by City under on Applicant's Premises for the purpose of the delivery of electric energy to Applicant, or installed by Applicant under the provisions of this rule, and conveyed to City.

4. PRIVATE LINES

City shall not be required to connect service facilities to or serve any Applicant from electric facilities that are not owned, operated, and maintained by City.

5. SPECIAL OR ADDED FACILITIES

Any special or added facilities City installs at the request of Applicant, will be installed at Applicant's expense in accordance with Rule 2-Description of Service.

6. TEMPORARY SERVICE FACILITIES

Service facilities installed for temporary service or for operations of speculative character or questionable permanency shall be made in accordance with the fundamental installation and ownership provisions of this rule, except that all charges shall be made under the provisions of Rule 13-Temporary Service.

7. STREET LIGHTS AND AREA LIGHTS

Streetlight and area light services and other associated facilities shall be installed in accordance with the service provisions of the applicable street light schedule.

8. CONTRACTS.

Each Applicant requesting service may be required to execute a written contract(s) prior to City performing its work to establish service. Such contracts shall be in the form on file with the Public Works Department, Electric Utility Division office.

9. DISTRIBUTION LINE EXTENSIONS

Whenever City's distribution system is not complete to the point designated by City where the service extension is to be connected to City's distribution system, the extension of distribution line facilities will be installed in accordance with Rule 15-distribution line extensions.

10. RIGHTS-OF-WAY

Rights-of-way or easements may be required by City to install service facilities on Applicant's property to serve only Applicant.

- a. Service Facilities: If the service facilities must cross property owned by a third party to serve Applicant, City may, at its option, install such service facilities after appropriate rights-of-way or easements, satisfactory to City, are obtained without cost to City; or
- b. Distribution Line Extensions: If City's facilities installed on Applicants property or third-party property, will be or are designed to serve adjacent property, then City may, at its option, install its facilities under Rule 15, after appropriate rights-of-way or easements, satisfactory to City, are obtained without cost to City.
- c. Clearances: Any necessary rights-of-way or easements for City's facilities shall have provisions to maintain legal and operational clearances from adjacent structures.

B. METERING FACILITIES

For revenue billing, electric service shall be individually metered to each tenant in a building or group of buildings or other development on a single Premises with multiple tenants or enterprises (such as, but not limited to a commercial business, a school campus, or shopping center complex). Alternative metering arrangements as determined by City may be allowed only as specified in these rules and applicable rate schedules.

C. SERVICE EXTENSIONS

1. GENERAL LOCATION

The location of the service extension facilities shall be approved by the City as follows:

- a. Franchise Area: From the point of connection at the distribution line to Applicant's nearest property line abutting upon any street, highway, road, or right-of-way, along which it already has, or will install distribution facilities; and,
- b. Private Property: On private property, along the shortest, most practical and available route (clear of obstructions) as necessary to reach a service delivery point designated by City.

2. NUMBER OF SERVICE EXTENSIONS

City will not normally provide more than one service extension, including associated facilities, either overhead or underground, for any one building or group of buildings, for a single enterprise on a single Premises, except;

- a. Tariff Schedules: Where otherwise allowed or required under City's tariff schedules; or,
- b. City Convenience: At the option of and as determined by City, for its operating convenience, consistent with engineering design for different voltage and phase classification, or when replacing an existing service; or,
- c. Ordinance: Where required by ordinance or other applicable law, for such things as fire pumps, fire alarm systems, etc; and,
- d. Other: City may charge for additional services provided under this paragraph, as special or added facilities.

3. UNDERGROUND INSTALLATIONS

Underground Service Extensions will be installed;

- a. Underground Required: Underground service extensions (1) shall be installed where required to comply with applicable tariff schedules, laws, ordinances, or similar requirements of governmental authorities having jurisdiction, and (2) may be necessary as determined by City where Applicant's load requires a separate transformer installation of 75 kVA or greater.
- b. Underground Optional: An underground service extension may be installed in an area where it is not otherwise required and when requested by Applicant and agreed upon by City.

4. UNUSUAL SITE CONDITIONS

In cases where Applicant's building is located a considerable distance from the available distribution line or where there is an obstruction or other deterrent obstacle

or hazard such as plowed land, ditches, or inaccessible security areas between City's distribution line and Applicant's building or facility to be served that would prevent City from prudently installing, owning, and maintaining its service facilities, City may, at its discretion, waive the normal service delivery point location. In such cases, the service delivery point will be at such other location on Applicant's property as may be mutually agreed upon; or, alternatively, the service delivery point may be located at or near Applicant's property line as close as practical to the available distribution line.

D. RESPONSIBILITIES FOR NEW SERVICE EXTENSIONS

1. APPLICANT RESPONSIBILITY

In accordance with City's design, specifications, and requirements for the installation of service extensions, and subject to City's inspection and approval, Applicant is responsible for;

- a. **Clear Route:** Providing (or paying for) a route on any private property that is clear of obstructions which would inhibit the construction of either underground or overhead service extensions.
- b. **Excavation:** All necessary trenching, backfilling, and other digging as required including permit fees.
- c. **Conduit and Substructures:**
 - 1) Furnishing and installing all conduits (including pull wires) and substructures on Applicant's Premises.
 - 2) Installing (or paying for) any Conduits and Substructures in City's franchise area (or rights-of-way, if applicable) as necessary to install the service extension.
 - 3) Conveying ownership to City upon acceptance of those conduits and substructures not on Applicant's Premises.
- d. **Protective Structures:** Furnishing, installing, owning, and maintaining all necessary protective structures as specified by City for City's facilities on Applicant's Premises
- e. **Applicant's Facility Design and Operation:** Applicant shall be solely responsible to plan, design, install, own, maintain, and operate facilities and equipment beyond the service delivery point (except for City's metering facilities) in order to properly receive and utilize the type of electric service available from City. Refer to Rule 2 for a description, among other things, of;
 - 1) Available service delivery voltages and the technical requirements and conditions to qualify for them,

- 2) Customer utilization voltages,
 - 3) Load balancing requirements,
 - 4) Requirements for installing electrical protective devices,
 - 5) Loads that may cause service interference to others, and
 - 6) Motor starting limitations.
- f. Required Service Equipment: Applicant shall, at its sole liability, risk, and expense, be responsible to furnish, install, own, maintain, inspect, and keep in good and safe condition, all facilities of any kind or character on Applicant's Premises that are not the responsibility of City but are required by City for Applicant to receive service. Such facilities shall include but are not limited to the overhead or underground termination equipment, conduits, service entrance conductors from the service delivery point to the location of City's metering facilities, connectors, meter sockets, meter and instrument transformer housing, service switches, circuit breakers, fuses, relays, wireways, metered conductors, machinery and apparatus of any kind or character. Detailed information on City's service equipment requirements will be furnished by City. The Applicant shall provide all service conduit (s) from City's franchise area to City's metering facilities.
- g. Coordination of Electrical Protective Devices: When, as determined by City, Applicant's load is of sufficient size as to require coordination of response time characteristics between Applicant's electrical protective devices (circuit breakers, fuses, relays, etc.) and those of City's, it shall be Applicants responsibility to provide such coordination in accordance with Rule 2.
- h. Liability: City shall incur no liability whatsoever, for any damage, loss or injury occasioned by;
- 1) Applicant-owned equipment or Applicant's transmission and delivery of energy; or,
 - 2) The negligence, omission of proper protective devices, want of proper care, or wrongful act of Applicant, or any agents, employees, or licensees of Applicant, on the part of Applicant in installing, maintaining, using, operating, or interfering with any such conductors, lines, machinery, or apparatus.
- i. Facility Tampering: Applicant shall provide a suitable means acceptable to City for placing its seals on meter rings and covers of service enclosures and instrument transformer enclosures which protect unmetered energized conductors installed by Applicant. All City-owned meters and enclosure covers will be sealed only by City's authorized employees and such seals shall be broken only by City's authorized employees. However, in an emergency, City may allow a

public authority or other appropriate party to break the seal. Any unauthorized tampering with City-owned seals or connection of Applicant-owned facilities to unmetered conductors at any time is prohibited and is subject to the provisions of Rule 11 - Discontinuance and Restoration of Service for unauthorized use.

- j. Transformer Installations on Applicant's Premises: Transformer installations on Applicant's Premises shall be as specified by City and in accordance with the following applicable provisions;
 - 1) Space For Transformers: Applicant shall provide space on Applicant's Premises at a location approved by City for a standard transformer installation (including any necessary equipment access for operation, and ancillary equipment such as switches, capacitors, and electric protective equipment, where required) if (a) in an overhead area, City determines that the load to be served is such that a separate transformer installation is required, or (b) if City determines that the installation of a padmounted or subsurface transformer of any size is required on Applicant's Premises to serve only Applicant.
 - 2) Padmounted Equipment: In City's standard installation, Applicant shall furnish, install and convey ownership to City for substructures and any required protective structures specified by City for the proper installation of the transformer, switches, capacitors, and other equipment as determined by City.
 - 3) Single Utility-Owned Customer Substation: When City elects, for its operating convenience, to supply Applicant from a transmission line and install a City-owned substation on Applicant's Premises, Applicant shall furnish, install and convey ownership to City the necessary site improvements as specified by City for the proper installation of the transformer. Such improvements shall include but are not limited to a concrete pad or foundation and grounding system. Applicant shall own and maintain all facilities not specifically conveyed to City yet associated with the service, such as fences and gates, access road, grading, and paving as required. Detailed information on City's requirements for a single Customer substation will be furnished by City.
- k. Transformer Room or Vault: Where Applicant requests and City approves the installation of the transformer(s) in a vault or room on Applicant's Premises, rather than City's standard padmounted installation;
 - 1) The room or vault on Applicant's Premises shall be furnished, installed, owned, and maintained by Applicant and shall meet City's specifications for such things as access, operational and safety clearances ventilation, drainage, grounding system, etc.
 - 2) If space cannot be provided on Applicant's Premises for the installation of a transformer on either a pad or in a room or vault, a vault will be installed at

Applicant's expense in the street near the property line. It shall be Applicant's responsibility to install (or pay for) such vault if not restricted by governmental authority having jurisdiction and Applicant shall convey ownership of the vault to City upon its acceptance. The additional facilities shall be treated as special or added facilities under the provisions of Rule 2.

3) All the additional costs as well as ongoing maintenance shall be paid by Applicant for special or added facilities.

1. Transformer Lifting Requirements: Where City has installed or agrees to install, transformers at locations where City cannot use its standard transformer lifting equipment and special lifting facilities are required to install or remove the transformers on Applicant's Premises, Applicant shall, at its expense, (a) furnish, install, own, and maintain permanent lifting facilities and be responsible for lifting the transformer to and from its permanent position, or (b) provide (or pay for) portable lifting facilities acceptable to City for installing or removing the transformers. Rights-of-way and space provisions shall be provided by Applicant such that access and required clearances from adjacent structures can be maintained. City may require a separate contract for transformer lifting requirements.
- m. Overhead Transformers: In remote areas or in areas not zoned for residential or commercial use or for underground services, pad-mounted transformers are preferred for installation on Applicant's Premises. However, where City determines that it is not practical to install a transformer on a pad, in a room or vault, City may furnish a pole-type structure for an installation not exceeding 500 kVA.

2. BUILDING CODE REQUIREMENTS

Any service equipment and other related equipment owned by Applicant, as well as any vault, room, enclosure, or lifting facilities for the installation of transformers shall conform with applicable laws, codes, and ordinances of all governmental authorities having jurisdiction.

3. REASONABLE CARE

Applicant shall exercise reasonable care to prevent City's Service Extensions, other City facilities, and meters owned by City or others, on the Applicant's Premises from being damaged or destroyed, and shall refrain from interfering with City's operation of the facilities and shall notify City of any obvious defect. Applicant may be required to provide and install suitable mechanical protection (barrier posts, etc.) as required by City.

4. CITY RESPONSIBILITY

- a. Meter and Service: City will install, own, and maintain the following service facilities as applicable after Applicant meets all requirements to receive service:

- 1) **Underground Service:** A set of service conductors to supply permanent service from the distribution line source to the service delivery point approved by City.
 - 2) **Riser Material:** Any necessary pole riser material for connecting underground services to an overhead distribution line.
 - 3) **Overhead Service:** A set of overhead service conductors to supply permanent service from a distribution line source to a suitable support at the service delivery point approved by City. Support shall be of a type and located such that service wires may be installed in accordance with good engineering practice and in compliance with all applicable laws, ordinances, rules, and regulations including those governing clearances and points of attachment.
 - 4) **Metering:** When the meter is owned by City, City will be responsible for the necessary instrument transformers where required, test facilities, meters, associated metering equipment, and the metering enclosures when City elects to locate metering equipment at a point that is not accessible to Applicant.
- b. **Special Conduit Installations:** City shall own and maintain service conduits only if: (1) they are located in the same trench with distribution facilities, and (2) when it is necessary to locate Conduits on property other than that owned by Applicant, as determined by City, or as may be required by local authorities.
 - c. **Cable-In-Conduit:** In those cases where City elects to install its service conductors using pre-assembled cable-in-conduit (CIC), the conduit portion will be considered a part of the conductor installation provided by City.
 - d. **Government Inspection:** City will establish electric service to Applicant following notice from the governmental authority having jurisdiction that the Applicant-owned facilities have been installed and inspected in accordance with any applicable laws, codes, ordinances, rules, or regulations, and are safe to energize.

5. CITY-PERFORMED WORK

- a. Where requested by Applicant and mutually agreed upon, City may perform that portion of the new service extension work normally the responsibility of Applicant provided Applicant pays City its estimated installed cost.

E. PAYMENTS BY APPLICANT

1. PAYMENTS

Applicant is responsible to pay City the following non-refundable costs as applicable under this rule and in advance of City commencing its work:

- a. **Pole Riser:** City's estimated installed costs of any riser materials on its poles.

- b. City's total estimated installation cost (including appurtenant facilities, such as connectors, service conductors, service transformers, metering equipment, and the conduit portion of CIC cable).
- c. Other: City's total estimated cost of any work it performs that is Applicant's responsibility or performs for the convenience of the Applicant.

F. EXISTING SERVICE FACILITIES

1. SERVICE REINFORCEMENT

- a. City-Owned: When City determines that its existing service facilities require replacement, the existing service facilities shall be replaced as new service facilities under the provisions of this rule.
- b. Applicant-Owned: When City determines that existing Applicant-owned service facilities require replacement; such replacement or reinforcement shall be accomplished under the provisions for a new service installation.

2. SERVICE RELOCATION OR REARRANGEMENT

- a. City Convenience: When, in the judgment of City, the relocation or rearrangement of a service, including City-owned transformers, is necessary for the maintenance of adequate service or for the operating convenience of City, City normally will perform such work at its own expense, except for Applicant convenience or damage.
- b. Applicant Convenience: Any relocation or rearrangement of City's existing service facilities at the request of Applicant (aesthetics, building additions, remodeling, etc.) and agreed upon by City shall be performed in accordance with this rule except that Applicant shall pay City its total estimated costs. In all instances, City shall abandon or remove its existing facilities at the option of City rendered idle by the relocation or rearrangement.

3. IMPAIRED ACCESS AND CLEARANCES

Whenever City determines that access or clearance to service facilities is impaired, correction action consistent with this section shall be enforced.

- a. Access: Its existing service facilities have become inaccessible for inspecting, operating, maintenance, meter reading, or testing.
- b. Clearances: A hazardous condition exists or any of the required clearances between the existing service facilities and any object becomes impaired under any applicable laws, ordinances, rules, or regulations of City or public authorities, then the following applies;

Corrective Action: Applicant or owner shall, at Applicant's or owner's expense, either correct the access or clearance infractions or pay the total estimated cost to relocate its facilities to a new location which is acceptable to City. Applicant or owner shall also be responsible for the expense to relocate any equipment, which Applicant owns and maintains. Failure to comply with corrective measures within a reasonable time may result in discontinuance of service.

4. OVERHEAD TO UNDERGROUND SERVICE CONVERSIONS

Applicant's Convenience: Where overhead services are replaced by underground services for Applicant's convenience, Applicant shall perform all excavation, furnish and install all substructures, and pay City its total estimated installed cost to complete the new service and remove the overhead facilities.

5. DAMAGED FACILITIES

When City's facilities are damaged by others, the repair will be made by City at the expense of the party responsible for the damage. Applicants are responsible for repairing their own facilities.

6. SUBDIVISION OF PREMISES

When City's service facilities are located on private property and such private property is subsequently subdivided into separate Premises with ownership divested to other than Applicant or Customer, the subdivider is required to provide City with adequate rights-of-way satisfactory to City for its existing facilities and to notify property owners of the subdivided Premises of the existence of the rights-of-way. When adequate rights-of-way are not granted as a result of the property subdivision, City shall have the right, upon written notice to Applicant, to discontinue service without obligation or liability. The existing owner, Applicant, or Customer shall pay to City the total estimated cost of any required relocation or removal of City's facilities. A new electric service will be re-established in accordance with the provisions of this Rule for new service and the provisions of any other applicable City rules.

7. EXCEPTIONAL CASES

When the application of this rule appears impractical or unjust to either party, or ratepayers, City or Applicant may refer the matter to the City for a special ruling or for approval of special conditions, which may be mutually agreed upon.

ELECTRIC RULE 17—METER TESTS AND ADJUSTMENT OF BILLS FOR METER
ERROR

A. METER TESTS

Any Customer may, upon not less than five (5) working days notice, request that the City to test the Customer's electric meter. No payment or deposit will be required from the Customer for such tests except when a Customer requests a meter test within six months after the date of installation of the meter, or more often than once each six months thereafter. A deposit to cover the reasonable cost of the test will be required of the Customer, in accordance with the following:

1. Meter installed without current or potential transformer(s)
2. Meter installed with current transformer(s) or with current and potential transformer(s)

The deposit will be returned to the Customer if the meter is found to register more than two percent fast or slow under conditions of normal operation as a result of the test. A Customer shall have the right to request the City conduct the test in the Customer's presence or in the presence of an expert or other representative appointed by the Customer. A report giving the result of the test will be supplied to the Customer within a reasonable time after completion of the test. All electric meters will be tested at the time of their installation. No meter will be placed in service or allowed to remain in service which has an error in registration in excess of two percent under conditions of normal operation. On newly purchased single-phase meters, the manufacturer's test may be used as the installation test when City's random tests indicate satisfactory test results for a particular manufacturer and for a particular shipment.

B. ADJUSTMENT OF BILLS FOR METER ERROR

Meter error is the incorrect registration of energy usage resulting from a malfunctioning or defective meter. It does not include incorrect registration attributable to billing error or unauthorized use. Where, as the result of a meter test, a meter is found to be non-registering or incorrectly registering, City may render an adjusted bill to the Customer for the amount of any undercharge without interest. City shall issue a refund or credit to the Customer for the amount of any overcharge, without interest, computed back to the date that is determined to be when the meter error commenced, except that the period of adjustment shall not exceed the limits set forth in this Rule. Such adjusted bill shall be computed as follows:

1. FAST METER

If a meter, for either residential or nonresidential service, is found to be registering more than two percent fast, City will calculate the amount of the overcharge for refund to the Customer based on the corrected meter. When it is known that the period

of meter error was less than six months, the overcharge will be calculated for only those months during which the meter error occurred.

2. SLOW METER

If a meter, for either residential or nonresidential service is found to be registering more than two percent slow, City may bill the Customer for the amount of the undercharge based on the corrected usage or based upon the City's estimate of the energy usage for a period of up to three years. However, if it is known that the period of meter error was less than three years, the undercharge will be calculated for only those months during which the meter error occurred.

3. NONREGISTERING METER

If a meter, for either residential or nonresidential service is found to be non-registering, City may bill the Customer for the amount of the undercharge based on City's estimate of the electricity used, but not registered, for a period of up to three years. However, if it is known that the period the meter was non-registering was less than three years, the undercharge will be calculated for only those months the meter was non-registering. Where the condition of the meter renders it un-testable (no-test), City may bill the Customer based upon the City's estimate of the unmetered energy. Nothing herein is intended to limit City's authority to bill the Customer for unauthorized use.

4. NO-TEST METERS

Where the condition of the meter renders it untestable (no-test), City may bill the Customer based upon the City's estimate of the unmetered energy. Nothing herein is intended to limit City's authority to bill the Customer for unauthorized use.

5. ESTIMATED USAGE

When regular, accurate meter readings are not available or when the electric usage has not been accurately measured, City may estimate the Customer's energy usage for billing purposes on the basis of information including, but not limited to, the physical condition of the metering equipment, available meter readings, records of historical use, and the general characteristics of the Customer's load and operation.

ELECTRIC RULE 17.1- ADJUSTMENTS OF BILLING ERROR

A. BILLING ERROR DEFINED

Billing error is the incorrect billing of an account due to an error by City or the Customer, which results in incorrect charges to the Customer. Billing error includes, but is not limited to, incorrect meter reads or clerical errors, wrong daily billing factor, incorrect voltage discount, wrong connected load information, crossed meters, incorrect billing calculation, incorrect meter multiplier, incorrect rate, or City's failure to provide the Customer with notice of rate options. Field error, including, but not limited to, installing the meter incorrectly and failure to close the meter potential or test switches, is also considered billing error. Billing error which does not entitle the Customer to a credit adjustment includes failure of the Customer to notify City of changes in the Customer's connected load, equipment or operation or failure of the Customer to take advantage of any noticed rate option or condition of service for which the Customer becomes eligible subsequent to the date of application for service.

B. ADJUSTMENT OF BILLS FOR BILLING ERROR

Where City overcharges or undercharges a Customer as the result of a billing error, City may render an adjusted bill to the Customer for the amount of any undercharge, without interest, and shall issue a refund or credit to the Customer for the amount of any overcharge, without interest, in accordance with the procedures and limitations set forth below.

1. BILLING ERROR RESULTING IN OVERCHARGES TO THE CUSTOMER

If either a residential or nonresidential service is found to have been overcharged due to billing error, City will calculate the amount of the overcharge, for refund to the Customer, for a period of up to three years. However, if it is known that the period of billing error was less than three years, the overcharge will be calculated for only those months during which the billing error occurred.

2. BILLING ERRORS RESULTING IN UNDERCHARGES TO THE CUSTOMER

If either residential or nonresidential service is found to have been undercharged due to a billing error, City may bill the Customer for the amount of the undercharge for a period of up to three years. However, if it is known that the period of billing error was less than three years, the undercharge will be calculated for only those months during which the billing error occurred.

ELECTRIC RULE 17.2—ADJUSTMENT OF BILLS FOR UNAUTHORIZED USE

A. UNAUTHORIZED USE DEFINED

Unauthorized use includes, but is not limited to:

1. Unmetered use of electricity resulting from unauthorized connections, alterations or modifications to electric supply lines and/or electric meters;
2. Placing conductive material in the meter socket to allow energy to flow from the line side of the service to the load side of the service without a meter (cut in flat);
3. Installing an unauthorized electric meter in place of the meter assigned to the account;
4. Inverting or otherwise repositioning the meter, thereby altering registration;
5. Damaging the meter to stop registration, thereby rendering it untestable;
6. Using City service without compensation to City in violation of applicable rules and/or statutes.

Where City determines there has been unauthorized use, City shall have the legal right to recover, from any Customer or other person who caused or benefited from such unauthorized use, the estimated undercharges for the full period of such unauthorized use. The estimated bill shall indicate unauthorized use for the most recent three years and, separately, unauthorized use beyond the three-year period for collection as provided by law. Nothing in this rule shall be interpreted as limiting City's rights under any provisions of any applicable civil or criminal law.

B. INVESTIGATION OF UNAUTHORIZED USE

Where unauthorized use is suspected by City, City shall promptly conduct an investigation.

Whenever possible, City shall collect and preserve evidence in the matter, test the meter, and obtain connected load information from the Customer or other person to be charged for the unauthorized energy use. If the meter cannot be tested or connected load data cannot be obtained, City will document the reasons why such information could not be obtained. Whenever possible, upon completion of City's investigation, the Customer or other person being billed will be advised of City's claim and shall be given an opportunity to respond to the claim. Notwithstanding any provisions herein, City reserves all evidentiary privileges and rights.

C. ADJUSTMENT OF BILLS FOR UNAUTHORIZED USE**1. ACTUAL USAGE**

If accurate meter readings are available for the unauthorized use period, they will be used for billing purposes.

2. ESTIMATED USAGE

If accurate meter readings are not available or the electric usage has not been accurately measured, City may estimate the energy usage for billing purposes. The basis for the estimate may include, without limitation and for illustrative purposes only, the physical condition of the metering equipment, available meter readings, records of historical use, or the general characteristics of the load and operation of the service being billed, with consideration of any appropriate seasonal adjustment. Estimated bills for the unauthorized use period may be determined by City based on one or more of the following, without limitation and for illustrative purposes only:

- a. Accurately metered use from a remote check meter;
- b. The known percent error in metering attributable to the unauthorized use condition as determined by City;
- c. Accurately metered use prior to the onset of the unauthorized use;
- d. The equipment and hours of operation of the service being billed;
- e. Accurately metered subsequent use of 30 days or more (if available);
- f. Annual use profile of at least five Customers with similar connected load, Premises load profiles, hours of energy use, etc. (percent of annual use); or
- g. Other reasonable and supportable billing methodology when none of the aforementioned billing techniques is appropriate under the circumstances.

D. INTEREST ON BILLS FOR UNAUTHORIZED USE

1. City may bill and collect interest at a rate of 10 percent per annum on unauthorized use billings from the date the unauthorized use commenced, and/or
2. City may bill and collect interest at a rate of 10 percent per annum on amortized repayment agreements.

E. RECOVERY OF ASSOCIATED COSTS

City may recover the associated costs resulting from the unauthorized use including, but not limited to, investigative and equipment damage costs.

F. DISCONTINUANCE OF SERVICE

In accordance with the provisions of Rule 11, where City determines unauthorized use is occurring, City may refuse service or discontinue service. If any part of the Customer's wiring or any other equipment, or the use thereof, is determined by City or any other authorized public agency to be unsafe or in violation of applicable laws, ordinances, rules or regulations of public authorities, or is in such condition as to endanger City's service facilities, City may discontinue service. City may also discontinue service in accordance with the provisions of its rules, for nonpayment of a delinquent billing for unauthorized use, and for associated costs, including nonpayment under an amortization agreement.

ELECTRIC RULE 21—GENERATING FACILITY INTERCONNECTIONS

A. APPLICABILITY

Applicability: This Rule describes the Interconnection, operating and Metering requirements for Generating Facilities to be connected to Moreno Valley Utility's (MVU) Distribution System. Subject to the requirements of this Rule, MVU will allow the Interconnection of Generating Facilities with its Distribution System.

Definitions: Capitalized terms used in this Rule, and not defined in MVU's other rules, shall have the meaning ascribed to such terms in Section H of this Rule. The definitions set forth in Section H of this Rule shall only apply to this Rule and may not apply to MVU's other rules.

Consistent with IEEE 1547: This rule has been revised to be consistent with the requirements of ANSI/IEEE1 1547-2003 *Standard for Interconnecting Distributed Resources with Electric Power Systems* (IEEE 1547). In some cases, IEEE 1547 language has been adopted directly, in others, IEEE 1547 requirements were interpreted, and this rule's language was changed to maintain the spirit of both documents.

Language from IEEE 1547 that has been adopted directly (as opposed to paraphrased language or previous language that was determined to be consistent with IEEE 1547) is followed by a citation that lists the Clause from which the language derived. For example, IEEE 1547-4.1.1 is a reference to Clause 4.1.1.

In the event of any conflict between this rule and any of the standards listed herein, the requirements of this rule shall take precedence.

B. GENERAL RULES, RIGHTS AND OBLIGATIONS

1. **AUTHORIZATION REQUIRED TO OPERATE:** A Producer must comply with this Rule and receive MVU's express written permission before Parallel Operation of its Generating Facility with MVU's Distribution System. MVU shall apply this Rule in a non-discriminatory manner and shall not unreasonably withhold its permission for Parallel Operation of Producer's Generating Facility with MVU's Distribution System.
2. **NO SEPARATE AGREEMENTS REQUIRED FOR OTHER SERVICES:** A Producer requiring other electric services from MVU including, but not limited to, Distribution Service during periods of curtailment or interruption of the Producer's Generating Facility, will comply with these Rules and agrees to abide by all requirements as set forth by MVU for such services in accordance with MVU's City Council-approved rules.
3. **SERVICE NOT PROVIDED WITH INTERCONNECTION:** Interconnection with MVU's Distribution System under this Rule does not provide a Producer any rights

to utilize MVU's System for the transmission, distribution, or wheeling of electric power.

4. **COMPLIANCE WITH LAWS, RULES AND TARIFF SCHEDULES:** A Producer shall ascertain and comply with applicable City Council-approved rules of MVU; applicable Federal Energy Regulatory Commission (FERC) approved rules, rules and regulations; and any local, state or federal law, statute or regulation which applies to the design, siting, construction, installation, operation, or any other aspect of the Producer's Generating Facility and Interconnection Facilities.
5. **DESIGN REVIEWS AND INSPECTIONS:** MVU shall have the right to review the design of a Producer's Generating and/or Interconnection Facilities and to inspect a Producer's Generating and/or Interconnection Facilities prior to the commencement of Parallel Operation with MVU's Distribution System. MVU may require a Producer to make modifications as necessary to comply with the requirements of this Rule. MVU's review and authorization for Parallel Operation shall not be construed as confirming or endorsing the Producer's design or as warranting the Generating and/or Interconnection Facilities' safety, durability or reliability. MVU shall not, by reason of such review or lack of review, be responsible for the strength, adequacy or capacity of such equipment.
6. **RIGHT TO ACCESS:** A Producer's Generating Facility and/or Interconnection Facilities shall be reasonably accessible to MVU personnel as necessary for MVU to perform its duties and exercise its rights under its rules approved by the City Council, and any Interconnection requirements of MVU.
7. **CONFIDENTIALITY OF INFORMATION:** Any information pertaining to Generating and/or Interconnection Facilities provided to MVU by a Producer shall be treated by MVU in a confidential manner. MVU shall not use information contained in the Application to propose discounted rates to the customer unless authorized to do so by the Customer or the information is provided to MVU by the Customer through other means.
8. **PRUDENT OPERATION AND MAINTENANCE REQUIRED:** A Producer shall operate and maintain its Generating Facility and Interconnection Facilities in accordance with Prudent Electrical Practices and shall maintain compliance with this Rule.
9. **CURTAILMENT AND DISCONNECTION:** MVU may limit the operation or disconnect or require the disconnection of a Producer's Generating Facility from MVU's Distribution System at any time, with or without notice, in the event of an Emergency, or to correct Unsafe Operating Conditions. MVU may also limit the operation or disconnect or require the disconnection of a Producer's Generating Facility from MVU's Distribution System upon the provision of reasonable written notice: 1) to allow for routine maintenance, repairs or modifications to MVU's Distribution System; 2) upon MVU's determination that a Producer's Generating Facility is not in compliance with this Rule; or 3) upon failure of Producer to meet

the requirements of MVU. Upon the Producer's written request, MVU shall provide a written explanation of the reason for such curtailment or disconnection.

C. APPLICATION AND INTERCONNECTION PROCESS

1. APPLICATION PROCESS

- a. **Applicant Initiates Contact with MVU:** Upon request, MVU will provide information and documents (such as requirements, Application, technical information, listing of Certified Equipment, Initial and Supplemental Review deposit information, applicable tariff schedules and Metering requirements and Rules) to a potential Applicant. Unless otherwise agreed upon, all such information shall normally be sent to an Applicant within three (3) business days following the initial request from the Applicant. MVU will establish an individual representative as the single point of contact for the Applicant but may allocate responsibilities among its staff to best coordinate the Interconnection of an Applicant's Generating Facility.
- b. **Applicant Completes an Application:** All Applicants shall complete and file an Application and supply any relevant additional information requested by MVU. When applicable per Table C.1, an \$2,000 Initial Review deposit shall be included with the Application.
 - 1) Normally, within 10 business days of receiving the Application, MVU shall acknowledge its receipt and state whether the Application has been completed adequately. If defects are noted, MVU and Applicant shall cooperate in a timely manner to establish a satisfactory Application.
 - 2) The Initial Review deposit shall be waived for Net Energy Metering Applications requesting Interconnection.
 - 3) The deposit associated with the Initial Review will be returned to the Applicant if the Application is rejected by MVU exactly as submitted or the Applicant retracts the Application.
 - 4) Applications that are over one year old (from the date of MVU's acknowledgement) without a completed application, or a Generating Facility that has not been approved for parallel operation within one year of completion of all applicable review and/or studies are subject to cancellation by MVU; however, MVU may not cancel an Application if the Producer provides reasonable evidence that the project is still active.
 - 5) The applicant may propose, and MVU may agree to reduced costs for reviewing atypical Applications, such as Applications submitted for multiple Generators, multiple sites, or otherwise as conditions warrant.

- c. MVU Performs an Initial and Supplemental Review and Develops Preliminary Cost Estimates and Interconnection Requirements.
- 1) Upon receipt of a satisfactorily completed Application and any additional information necessary to evaluate the Interconnection of a Generating Facility, MVU shall perform an Initial Review using the process defined in Section I. The Initial Review determines if: (a) the Generating Facility qualifies for Simplified Interconnection; or (b) the Generating Facility requires a Supplemental Review.
 - 2) MVU shall complete its Initial Review, absent any extraordinary circumstances, within 10 business days after its determination that the Application is complete. If the Initial Review determines the proposed Generating Facility can be Interconnected by means of a Simplified Interconnection, MVU will provide the Applicant with an Interconnection Authorization. Upon completion of the Initial Review, the difference between the deposit and the actual cost of the Review will be refunded or billed to the Applicant as appropriate.
 - 3) If the Generating Facility does not pass the Initial Review for Simplified Interconnection as proposed, MVU will notify the applicant and perform a Supplemental Review as described in Section I. Applicant shall pay an additional \$600 deposit for the Supplemental Review, unless the Application is withdrawn. The Supplemental Review will result in MVU providing either: (a) Interconnection requirements beyond those for a Simplified Interconnection, and an Interconnection Authorization; or (b) a cost estimate and schedule for an Interconnection Study. The Supplemental Review shall be completed, absent any extraordinary circumstances, within 20 business days of receipt of a completed Application and fees. Upon completion of the Supplemental Review, the difference between the deposit and the actual cost of the Review will be refunded or billed to the Applicant as appropriate.
- The Supplemental Review deposit shall be waived for Net Energy Metering Applications requesting Interconnection pursuant to Sections 2827, 2827.8, 2827.9, or 2827.10 of the Public Utilities Code.
- d. When Required, Applicant and MVU Commit to Additional Interconnection Study Steps. When a Supplemental Review reveals that the proposed Generating Facility cannot be Interconnected to MVU's Distribution System by means of a Simplified Interconnection, or that significant Interconnection Facilities installed on MVU's system or Distribution System modifications will be needed to accommodate an Applicant's Generating Facility, MVU and Applicant shall enter into an agreement that provides for MVU to perform additional studies, facility design, and engineering and to provide detailed cost

estimates for fixed price or actual cost billing to the Applicant at the Applicant's expense. The Interconnection Study agreement shall set forth MVU's estimated schedule and charges for completing such work. Generating Facilities eligible for Net Energy Metering under Public Utilities Code Section 2827, 2827.8, 2827.9, or 2827.10 are exempt from any costs associated with Interconnection Studies.

Table C.1 Summary of Deposits and Exemptions

<u>Facility Type</u>	<u>Initial Review Deposit</u>	<u>Supplemental Review Deposit</u>	<u>Interconnection Study Deposit</u>	<u>Additional Commissioning Test Verification</u>
Non-Net Energy Metering	\$2,000*	As Specified by MVU	As Specified by MVU	Actual cost

* Subject to refund pursuant to Section C.1.b.3

Table C.2 Summary of Producer Cost Responsibility for Multiple Tariff Interconnections

<u>Existing Generator</u>	<u>New Generator</u>	<u>Initial Review Deposit</u>		<u>Supplemental Review Deposit</u>		<u>Detailed Interconnection Study Cost</u>		<u>Interconnection Facilities Cost</u>		<u>Distribution System Modifications Cost</u>	
		YES	NO	YES	NO	YES	NO	YES	NO	YES	NO
NEM	Non-NEM	X		X		X		X		Xa	
NEM	NEM		X		X		X	X			X
Non-NEM	NEM		Xb		Xb		Xb	X			Xa,b
Simultaneous NEM and Non-NEM		X		X		X		X		Xa	
a) Proration will be based upon the annual expected energy output (kWh) derived from the nameplate of the generator(s) modified by technology-specific capacity/availability factors of all NEM eligible versus non-NEM eligible generators for the costs that cannot be clearly assigned to either type of tariff.											
b) Change of operating of a non-NEM eligible generator at any time to export is treated as a simultaneous NEM and non-NEM application, resulting in associated costs being allocated to the producer.											

2. INTERCONNECTION PROCESS

- a. Applicant shall comply with the Interconnection Requirements as stated in this Rule. MVU shall review with the Applicant all requirements for Interconnection and Net Energy Metering appropriate for the Applicant's Generating Facility and desired mode of operation. These requirements are detailed in Rule 21A, Interconnection Rules, Terms & Conditions. Rule 21A sets forth MVU's and the Applicant's responsibilities, completion schedules, and fixed price or estimated costs for the required work.
- b. Where Applicable (for commercial systems greater than 1MW), MVU or Producer Installs Required Interconnection Facilities or Modifies MVU's

Distribution System. After executing the applicable agreements, MVU or Producer will commence construction/ installation of MVU's Distribution System modifications or Interconnection Facilities which have been identified in the agreement and application. The parties will use good faith efforts to meet schedules and estimated costs as appropriate.

- c. Producer Arranges for and Completes Commissioning Testing of Generating Facility and Producer's Interconnection Facilities. The Producer is responsible for testing new Generating Facilities and associated Interconnection Facilities according to Section J.5 to ensure compliance with the safety and reliability provisions of this Rule prior to being operated in parallel with MVU's Distribution System. For non-Certified Equipment, the Producer shall develop a written testing plan to be submitted to MVU for its review and acceptance. Alternatively, the Producer and MVU may agree to have MVU conduct the required testing at the Producer's expense. Where applicable, the test plan shall include the installation test procedures published by the manufacturer of the generation or Interconnection equipment. Facility testing shall be conducted at a mutually agreeable time, and depending on who conducts the test, MVU or Producer shall be given the opportunity to witness the tests.
- d. MVU Authorizes Parallel Operation or Momentary Parallel Operation. MVU shall authorize the Producer's Generating Facility for Parallel Operation or Momentary Parallel Operation with MVU's Distribution System, in writing, within 5 calendar days of satisfactory compliance with the terms of all applicable Rules. Compliance may include, but not be limited to, provision of any required documentation and satisfactorily completing any required inspections or tests as described herein or in the agreements formed between the Producer and MVU. A Producer shall not commence Parallel Operation of its Generating Facility with MVU's system unless it has received MVU's express written permission to do so.

For Net Energy Metering Generating facilities, MVU authorization for Parallel Operation shall normally be provided no later than 30 business days following MVU's receipt of 1) a completed Net Energy Metering Application including all supporting documents and required payments; 2) a completed signed Net Energy Metering Interconnection Agreement; and 3) evidence of the Producer's final inspection clearance from the governmental authority having jurisdiction over the Generating Facility. If the 30-day period cannot be met, the MVU shall notify the Applicant and the Commission.

D. GENERATING FACILITY DESIGN AND OPERATING REQUIREMENTS

This section has been revised to be consistent with the requirements of ANSI/IEEE 1547-2003 *Standard for Interconnecting Distributed Resources with Electric Power Systems* (IEEE 1547).

1. General Interconnection and Protective Function Requirements

The Protective Functions and requirements of this Rule are designed to protect MVU's Distribution System and not the Generating Facility. A Producer shall be solely responsible for providing adequate protection for its Generating Facility and Interconnection Facilities. The Producer's Protective Functions shall not impact the operation of other Protective Functions utilized on MVU's Distribution System in a manner that would affect MVU's capability of providing reliable service to its Customers.

a. **Protective Functions Required:** Generating Facilities operating in parallel with MVU's Distribution System shall be equipped with the following Protective Functions to sense abnormal conditions on MVU's Distribution System and cause the Generating Facility to be automatically disconnected from MVU's Distribution System or to prevent the Generating Facility from being connected to MVU's Distribution System inappropriately:

- 1) Over and under voltage trip functions and over and under frequency trip functions;
- 2) A voltage and frequency sensing and time-delay function to prevent the Generating Facility from energizing a de-energized Distribution System circuit and to prevent the Generating Facility from reconnecting with MVU's Distribution System unless MVU's Distribution System service voltage and frequency is within the ANSI C84.1-1995 Table 1 Range B Voltage Range of 106V to 127V (on a 120V basis), inclusive, and a frequency range of 59.3 Hz to 60.5 Hz, inclusive, and are stable for at least 60 seconds; and
- 3) A function to prevent the Generating Facility from contributing to the formation of an Unintended Island and cease to energize the MVU's Distribution System within two seconds of the formation of an Unintended Island.

The Generating Facility shall cease to energize MVU's Distribution System for faults on MVU's Distribution System circuit to which it is connected (IEEE1547-4.2.1). The Generating Facility shall cease to energize MVU's Distribution circuit prior to re-closure by MVU' Distribution System equipment (IEEE1547-4.2.2).

- b. **Momentary Paralleling Generating Facilities.** With MVU's approval, the transfer switch or scheme used to transfer the Producer's loads from MVU's Distribution System to Producer's Generating Facility may be used in lieu of the Protective Functions required for Parallel Operation.
- c. **Suitable Equipment Required.** Circuit breakers or other interrupting equipment located at the Point of Common Coupling must be Certified or "Listed" (as defined in Article 100, the Definitions Section of the National Electrical Code) as suitable for their intended application. This includes being capable of interrupting the maximum available fault current expected

at their location. Producer's Generating Facility and Interconnection Facilities shall be designed so that the failure of any single device or component shall not potentially compromise the safety and reliability of MVU's Distribution System. The Generating Facility paralleling-device shall be capable of withstanding 220% of the Interconnection Facility rated voltage (IEEE1547-4.1.8.3). The Interconnection Facility shall have the capability to withstand voltage and current surges in accordance with the environments defined in IEEE Std C62.41.2-2002 or IEEE Std C37.90.1-2002 as applicable and as described in J.3.e (IEEE1547-4.1.8.2).

- d. Visible Disconnect Required. When required by MVU's operating practices, the Producer shall furnish and install a ganged, manually-operated isolating switch (or a comparable device mutually agreed upon by MVU and the Producer) near the Point of Interconnection to isolate the Generating Facility from MVU's Distribution System. The device does not have to be rated for load break nor provide over-current protection.

The device must:

- 1) allow visible verification that separation has been accomplished. (This requirement may be met by opening the enclosure to observe contact separation.)
- 2) include markings or signage that clearly indicate open and closed positions.
- 3) be capable of being reached quickly and conveniently 24 hours a day by MVU personnel for construction, operation, maintenance, inspection, testing or reading, without obstacles or requiring those seeking access to obtain keys, special permission, or security clearances.
- 4) be capable of being locked in the open position.
- 5) be clearly marked on the submitted single line diagram and its type and location approved by the MVU prior to installation. If the device is not adjacent to the Point of Common Coupling, permanent signage must be installed at an MVU-approved location providing a clear description of the location of the device.

Generating Facilities with Non-Islanding inverters totaling one (1) kilovolt-ampere (kVA) or less are exempt from this requirement.

- e. Drawings Required. Prior to Parallel Operation or Momentary Parallel Operation of the Generating Facility, MVU shall approve the Producer's Protective Function and control diagrams. Generating Facilities equipped with Protective Functions and a control scheme previously approved by MVU for system-wide application or only Certified Equipment may satisfy

this requirement by reference to previously approved drawings and diagrams.

- f. **Generating Facility Conditions Not Identified.** In the event this Rule does not address the Interconnection conditions for a particular Generating Facility, MVU and Producer may agree upon other arrangements.
2. **PREVENTION OF INTERFERENCE:** The Producer shall not operate Generating or Interconnection Facilities that superimpose a voltage or current upon MVU's Distribution System that interferes with MVU operations, service to MVU customers, or communication facilities. If such interference occurs, the Producer must diligently pursue and take corrective action at its own expense after being given notice and reasonable time to do so by MVU. If the Producer does not take corrective action in a timely manner, or continues to operate the facilities causing interference without restriction or limit, MVU may, without liability, disconnect the Producer's facilities from MVU's Distribution System, in accordance with Section B.9 of this Rule. To eliminate undesirable interference caused by its operation, each Generating Facility shall meet the following criteria:
- a. **Voltage Regulation:** The Generating Facility shall not actively regulate the voltage at the Point of Common Coupling while in parallel with MVU's Distribution System. The Generating Facility shall not cause the service voltage at other customers to go outside the requirements of ANSI C84.1-1995, Range A (IEEE1547-4.1.1).
 - b. **Operating Voltage Range:** The voltage ranges in Table D.1 define protective trip limits for the Protective Function and are not intended to define or imply a voltage regulation Function. Generating Facilities shall cease to energize MVU's Distribution System within the prescribed trip time whenever the voltage at the Point of Common Coupling deviates from the allowable voltage operating range. The Protective Function shall detect and respond to voltage on all phases to which the Generating Facility is connected.
 - 1) **Generating Facilities (30 kVA or less).** Generating Facilities with a Gross Nameplate Rating of 30 kVA or less shall be capable of operating within the voltage range normally experienced on MVU's Distribution System. The operating range shall be selected in a manner that minimizes nuisance tripping between 106 volts and 132 volts on a 120-volt base (88%-110% of nominal voltage). Voltage shall be detected at either the Point of Common Coupling or the Point of Interconnection.
 - 2) **Generating Facilities (greater than 30 kVA).** MVU may have specific operating voltage ranges for Generating Facilities with Gross Nameplate Ratings greater than 30 kVA and may require adjustable operating voltage settings. In the absence of such requirements, the Generating Facility shall operate at a range

between 88% and 110% of the applicable interconnection voltage. Voltage shall be detected at either the Point of Common Coupling or the Point of Interconnection, with settings compensated to account for the voltage at the Point of Common Coupling. Generating Facilities that are Certified Non-Islanding or that meet one of the options of the Export Screen (Section I.3.b) may detect voltage at the Point of Interconnection without compensation.

- 3) Voltage Disturbances. Whenever MVU's Distribution System voltage at the Point of Common Coupling varies from and remains outside normal (nominally 120 volts) for the predetermined parameters set forth in Table D-1, the Generating Facility's Protective Functions shall cause the Generator(s) to become isolated from MVU's Distribution System:

Table D.1 Voltage Trip Settings

<u>Voltage at Point of Common Coupling</u>		<u>Maximum Trip Time* # of Cycles</u>	
(Assuming 120 V Base)	% of Nominal Voltage	(Assuming 60Hz Nominal)	Seconds
Less than 60 Volts	Less than 50%	10 Cycles	0.16 Seconds
Greater than or equal to 60 volts but less than 106 volts	Greater than or equal to 50% but less than 88%	120 Cycles	2 Seconds
Greater than or equal to 106 volts but less than 132 volts	Greater than or equal to 88% but less than 110%	Normal Operation	
Greater than or equal to 132 volts but less than 144 volts	Greater than or equal to 110% but less than 120%	60 Cycles	1 Second
Greater than 144Volts	Greater than 120%	10 Cycles	0.16 Seconds

* "Maximum Trip time" refers to the time between the onset of the abnormal condition and the Generating Facility ceasing to energize MVU's Distribution System. Protective Function sensing equipment and circuits may remain connected to MVU's Distribution System to allow sensing of electrical conditions for use by the "reconnect" feature. The purpose of the allowed time delay is to allow a Generating Facility to "ride through" short-term disturbances to avoid nuisance tripping. Set points shall not be user adjustable (though they may be field adjustable by qualified personnel). For Generating Facilities with a Gross Nameplate Rating greater than 30 kVA, set points shall be field adjustable and different voltage set points and trip times from those in Table D.1 may be negotiated with MVU.

- c. Paralleling. The Generating Facility shall parallel with MVU's Distribution System without causing a voltage fluctuation at the Point of Common Coupling greater than $\pm 5\%$ of the prevailing voltage level of MVU's Distribution System at the Point of Common Coupling and meet the flicker requirements of Section D.2.d. Section J provides technology-specific tests for evaluating the paralleling Function. (IEEE1547-4.1.3)
- d. Flicker. The Generating Facility shall not create objectionable flicker for other customers on MVU's Distribution System. To minimize the adverse voltage effects experienced by other customers (IEEE1547-4.3.2), flicker at the Point of Common Coupling caused by the Generating Facility should not exceed the limits defined by the "Maximum Borderline of Irritation Curve" identified in IEEE 519-1992 (IEEE Recommended Practices and Requirements for Harmonic Control in Electric Power Systems, IEEE STD 519-1992). This requirement is necessary to minimize the adverse voltage affects experienced by other customers on MVU's Distribution System. Generators may be connected and brought up to synchronous speed (as an induction motor) provided these flicker limits are not exceeded.
- e. Integration with MVU's Distribution System Grounding. The grounding scheme of the Generating Facility interconnection shall not cause over-voltages that exceed the rating of the equipment connected to the MVU's Distribution System and shall not disrupt the coordination of the ground fault protection on the MVU's Distribution System (IEEE1547-4.1.2) (See Section I.3.h).
- f. Frequency: MVU controls system frequency, and the Generating Facility shall operate in synchronism with the MVU's Distribution System. Whenever MVU's Distribution System frequency at the Point of Common Coupling varies from and remains outside normal (nominally 60 Hz) by the predetermined amounts set forth in Table D.2, the Generating Facility's Protective Functions shall cease to energize MVU's Distribution System within the stated maximum trip time.

Table D.2 Frequency Trip Settings

	Frequency Range	Maximum Trip Time [1]
<u>Generating Facility Rating</u>	<u>(Assuming 60Hz Nominal)</u>	<u>(Assuming 60 Cycles per Second)</u>
Less or equal to 30kW	Less than 59.3 Hz Greater than 60.5 Hz	10 Cycles
Greater than 30kW	Less than 57 Hz	10 Cycles
	Less than an adjustable value between 59.8Hz and 57 Hz but greater than 57 Hz. [2]	Adjustable between 10 and 18,000 Cycles. [2, 3]
	Greater than 60.5 Hz	10 Cycles

[1] - "Maximum Trip time" refers to the time between the onset of the abnormal condition and the Generating Facility ceasing to energize MVU's Distribution System. Protective Function sensing equipment and circuits may remain connected to MVU's Distribution System to allow sensing of electrical conditions for use by the "reconnect" feature. The purpose of the allowed time delay is to allow a Generating Facility to "ride through" short-term disturbances to avoid nuisance tripping. Set points shall not be user adjustable (though they may be field adjustable by qualified personnel). For Generating Facilities with a Gross Nameplate Rating greater than 30 kVA, set points shall be field adjustable and different voltage set points and trip times from those in Table D.2 may be negotiated with MVU.

[2] - Unless otherwise required by MVU, a trip frequency of 59.3 Hz and a maximum trip time of 10 cycles shall be used.

[3] - When a 10 cycle Maximum trip time is used, a second under frequency trip setting is not required.

- g. Harmonics. When the Generating Facility is serving balanced linear loads, harmonic current injection into MVU's Distribution System at the PCC shall not exceed the limits stated below in Table D.3. The harmonic current injections shall be exclusive of any harmonic currents due to harmonic voltage distortion present in MVU's Distribution System without the Generating Facility connected (IEEE1547-4.3.3). The harmonic distortion of a Generating Facility located at a Customer's site shall be evaluated using the same criteria as for the Host Loads.

Table D.3 Maximum harmonic current distortion in percent of current (I) [1,2]

Individual harmonic order, h (odd harmonics) [3]	$h < 11$	$11 \leq h < 17$	$17 \leq h < 23$	$23 \leq h < 35$	$35 \leq h$	Total demand distortion (TDD)
Max Distortion (%)	4.0	2.0	1.5	0.6	0.3	5.0

[1] - IEEE1547-4.3.3

[2] - I = the greater of the maximum Host Load current average demand over 15 or 30 minutes without the Generating Facility, or the Generating Facility rated current capacity (transformed to the Point of Common Coupling when a transformer exists between the Generating Facility and the Point of Common Coupling).

[3] - Even harmonics are limited to 25% of the odd harmonic limits above.

- h. Direct Current Injection. Generating Facilities should not inject direct current greater than 0.5% of rated output current into MVU’s Distribution System.
- i. Power Factor. Each Generator in a Generating Facility shall be capable of operating at some point within a power factor range from 0.9 leading to 0.9 lagging. Operation outside this range is acceptable provided the reactive power of the Generating Facility is used to meet the reactive power needs of the Host Loads or that reactive power is otherwise provided under tariff by MVU. The Producer shall notify MVU if it is using the Generating Facility for power factor correction. Unless otherwise agreed upon by the Producer and MVU, Generating Facilities shall automatically regulate power factor, not voltage, while operating in parallel with MVU’s Distribution System.

3. TECHNOLOGY SPECIFIC REQUIREMENTS

- a. Three-Phase Synchronous Generators. For three-phase Generators, the Generating Facility circuit breakers shall be three-phase devices with electronic or electromechanical control. The Producer shall be responsible for properly synchronizing its Generating Facility with MVU’s Distribution System by means of either manual or automatic synchronizing equipment. Automatic synchronizing is required for all synchronous Generators that have a Short Circuit Contribution Ratio (SCCR) exceeding 0.05. Loss of synchronism protection is not required except as may be necessary to meet Section D.2.d (Flicker) (IEEE1547-4.2.5). Unless otherwise agreed upon by the Producer and MVU, synchronous Generators shall automatically regulate power factor, not voltage, while operating in parallel with MVU’s Distribution System. A power system stabilization function is specifically not required for Generating Facilities under 10 MW Net Nameplate Rating.

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- b. Induction Generators. Induction Generators (except self-excited Induction Generators) do not require a synchronizing Function. Starting or rapid load fluctuations on induction generators can adversely impact MVU's Distribution System's voltage. Corrective step-switched capacitors or other techniques may be necessary and may cause undesirable ferro-resonance. When these counter measures (e.g., additional capacitors) are installed on the Producer's side of the Point of Common Coupling, MVU must review these measures. Additional equipment may be required as determined in a Supplemental Review or an Interconnection Study.
- c. Inverters. Utility-interactive inverters do not require separate synchronizing equipment. Non-utility-interactive or "stand-alone" inverters shall not be used for Parallel Operation with MVU's Distribution System.
- d. Single-Phase Generators. For single-phase Generators connected to a shared single-phase secondary system, the maximum Net Nameplate Rating of the Generating Facilities shall be 20 kVA. Generators connected to a center-tapped neutral 240-volt service must be installed such that no more than 6 kVA of imbalanced power is applied to the two "legs" of the 240-volt service. For Dedicated Distribution Transformer services, the maximum Net Nameplate Rating of a single-phase Generating Facility shall be the transformer nameplate rating.

4. SUPPLEMENTAL GENERATING FACILITY REQUIREMENTS

- a. The maximum solar generation capacity that will be approved to be connected to each meter is up to 50% of the meter minimum daytime load. The meter minimum daytime load will be determined by analyzing one year of historic data, while ignoring any extraordinary events (outages, partial lights, etc.), unless there have been recent major changes to the daily demand schedule. In that case, the most recent information will be evaluated.
- b. For 12kV distribution circuits with multiple solar projects connected, the maximum solar generation capacity that will be approved will be up to 50% of the total minimum daytime coincident circuit load, including any solar generation previously approved on the circuit. Capacity will be approved on a first come and first serve basis. 50% of the minimum daytime coincident circuit load will be determined by analyzing one year of historic data, while ignoring any extraordinary events (outages, partial lights, etc.), unless there have been recent major changes to the daily demand schedule. In that case, the most recent information will be evaluated.
- c. Fault Detection. A Generating Facility with a short circuit contribution ratio exceeding 0.1 or one that does not cease to energize MVU's Distribution System within two seconds of the formation of an Unintended Island shall be equipped with Protective Functions designed to detect Distribution System faults, both line-to-line and line-to-ground and shall cease to

energize MVU's Distribution System within two seconds of the initiation of a fault.

- d. Transfer Trip. For a Generating Facility that cannot detect Distribution System faults (both line-to-line and line-to-ground) or the formation of an Unintended Island and cease to energize MVU's Distribution System within two seconds, MVU may require a Transfer Trip system or an equivalent Protective Function.
- e. Reclose Blocking. Where the aggregate Generating Facility, capacity exceeds 15% of the peak load on any automatic reclosing device, MVU may require additional Protective Functions, including, but not limited to reclose-blocking on some of the automatic reclosing devices.
- f. The Generating Facility may require additional approvals from other agencies before the Facility is allowed to begin construction.

E. INTERCONNECTION FACILITIES AND DISTRIBUTION SYSTEM MODIFICATIONS

1. SCOPE AND OWNERSHIP OF INTERCONNECTION FACILITIES AND DISTRIBUTION SYSTEM MODIFICATIONS
 - a. Scope. Parallel Operation of Generating Facilities may require Interconnection Facilities or modifications to MVU's Distribution System ("Distribution System modifications"). The type, extent and costs of Interconnection Facilities and Distribution System modifications shall be consistent with this Rule and determined through the Supplemental Review and/or Interconnection Studies described in Section C.
 - b. Ownership. Interconnection Facilities installed on Producer's side of the Point of Common Coupling may be owned, operated and maintained by the Producer or MVU. Interconnection Facilities installed on MVU's side of the Point of Common Coupling and Distribution System modifications shall be owned, operated and maintained only by MVU.
2. RESPONSIBILITY OF COSTS OF INTERCONNECTING A GENERATING FACILITY
 - a. Review, Study, and Additional Commissioning Test Verification (pre-parallel inspections) Costs. A producer shall be responsible for the reasonably incurred costs of the review's studies, and additional Commissioning Test verifications (pre-parallel inspections) conducted pursuant to Section C of the Rule. If the initial

Commissioning Test verification (pre-parallel inspection) is not successful through no fault of MVU, MVU may impose upon the Producer a cost-based charge for subsequent Commissioning Test verifications (pre-parallel inspections). All Costs for additional Commissioning Test verifications (pre-parallel inspections) shall be paid by Producer within thirty days of receipt of MVU's invoice. Additional costs, if any, will be specified on the invoice. If the initial Commissioning test (pre-paralleling inspection) is not successful through the fault of the MVU, that visit will not be considered the initial Commissioning Test (pre-parallel inspection).

- b. Facility Costs. A Producer shall be responsible for all costs associated with Interconnection Facilities owned by the Producer. The Producer shall also be responsible for any costs reasonably incurred by MVU in providing, operating, or maintaining the Interconnection Facilities and Distribution System modifications required solely for the Interconnection of the Producer's Generating Facility with MVU's Distribution System. Generating Facilities eligible for Net Energy Metering under California Public Utilities Code Sections 2827, 2827.8, 2827.9, or 2827.10 are exempt from any costs associated with Distribution System modifications.
- c. Separation of Costs. Should MVU combine the installation of Interconnection Facilities or Distribution System modifications required for the Interconnection of a Generating Facility with modifications to MVU's Distribution System to serve other Customers or Producers, MVU shall not include the costs of such separate or incremental facilities in the amounts billed to the Producer.

3. INSTALLATION OF INTERCONNECTION FACILITIES AND DISTRIBUTION SYSTEM MODIFICATIONS

- a. Agreement Required. The costs for Interconnection Facilities and Distribution System modifications shall be paid by the Producer pursuant to the provisions contained in the Interconnection Agreement.
- b. Interconnection Facilities and Distribution System Modifications. Except as provided for in Sections E.2.b. and E.3.c. of this Rule, Interconnection Facilities connected to MVU's side of the Point of Common Coupling and Distribution System modifications shall be provided, installed, owned and maintained by MVU at Producer's expense, or may be installed by a third party upon approval by MVU.
- c. Third-Party Installations. Subject to the approval of MVU, a Producer may at its option employ a qualified contractor to provide

and install Interconnection Facilities or Producer paid Distribution System modifications, to be owned and operated by MVU, on MVU's side of the Point of Common Coupling. Such Interconnection Facilities and Distribution System modifications shall be installed in accordance with MVU's design and specifications. Upon final inspection and acceptance by MVU, the Producer shall transfer ownership of such Producer installed Interconnection Facilities or Distribution System modifications to MVU and such facilities shall thereafter be owned and maintained by MVU. The Producer shall pay MVU's reasonable cost of design, administration, and monitoring of the installation for such facilities to ensure compliance with MVU's requirements. The Producer shall also be responsible for all costs associated with the transfer of Producer installed Interconnection Facilities and Distribution System modifications to MVU.

F. METERING, MONITORING AND TELEMETRY

1. **GENERAL REQUIREMENTS:** All Generating Facilities shall be metered in accordance with this Section F and shall meet all applicable standards of MVU contained in MVU's applicable rules and published MVU manuals dealing with specifications.
2. **METERING BY NON-MVU PARTIES:** The ownership, installation, operation, reading and testing of revenue Metering Equipment for Generating Facilities shall be by MVU.
3. **NET GENERATION OUTPUT METERING (NGOM):** Generating Facilities' customers may be required to install NGOM for evaluation, monitoring and verification purposes, to satisfy applicable CAISO reliability requirements, and for Distribution System planning and operations.

The relevant factors in determining the need for NGOM are as listed below:

- a. Data requirements in proportion to need for information;
- b. Producer's election to install equipment that adequately addresses MVU's operational requirements;
- c. Accuracy and type of required Metering consistent with purposes of collecting data;
- d. Cost of Metering relative to the need for and accuracy of the data;
- e. The Generating Facility's size relative to the cost of the Meter/monitoring;
- f. Other means of obtaining the data (e.g., Generating Facility logs, proxy data etc.);

- g. Requirements under any interconnection Agreement with the Producer.

The requirements in this Section may not apply to Metering of Generating Facilities operating under MVU's Net Energy Metering tariff pursuant to the California Public Utilities Cod Section 2827, et seq. Nothing in this Section F.3 supersedes Section B.4.

4. **POINT OF COMMON COUPLING METERING:** For purposes of assessing MVU charges for retail service, the Producer's PCC Metering shall be a bi-directional meter so that power deliveries to and from the Producer's site can be separately recorded. Alternately, the Producer may, at its sole option and cost, require MVU to install multi-metering equipment to separately record power deliveries to MVU's Distribution System and retail purchases from MVU. Where necessary, such PCC Metering shall be designed to prevent reverse registration.
5. **TELEMETERING:** If the nameplate rating of the Generating Facility is 1 MW or greater, Telemetering equipment at the Net Generator Output Metering location may be required at the Producer's expense. If the Generating Facility is Interconnected to a portion of MVU's Distribution System operating at a voltage below 10 kV, then Telemetering equipment may be required on Generating Facilities 250 kW or greater. MVU shall only require Telemetering to the extent that less intrusive and/or more cost effective options for providing the necessary data in real time are not available.
6. **LOCATION:** Where MVU-owned Metering is located on the Producer's premises, Producer shall provide, at no expense to MVU, a suitable location for all such Metering Equipment.
7. **COSTS OF METERING:** The Producer will bear all costs of the Metering required by this Rule, including the incremental costs of operating and maintaining the Metering Equipment.

G. DISPUTE RESOLUTION PROCESS

The following procedures will apply for disputes arising from this Rule:

1. The City Council shall have jurisdiction to interpret, add, delete or modify any provision of this Rule or of any agreements entered into between MVU and the Producer to implement this tariff ("The Implementing Agreements") and to resolve disputes regarding MVU's performance of its obligations under its rules, the applicable agreements, and requirements related to the Interconnection of the Producer's Generating or Interconnection Facilities pursuant to this Rule.
2. The dispute shall be submitted in writing by the Producer to MVU. Authorized representatives from both Parties shall meet and confer to try to resolve the dispute. If the Parties cannot resolve the dispute, the dispute will be submitted to the City Council for resolution. Their decision shall be final.

3. Pending resolution of any dispute under this Section, the Parties shall proceed diligently with the performance of their respective obligations under this Rule and the Implementing Agreements, unless the Implementing Agreements have been terminated. Disputes as to the application and implementation of this Section shall be subject to resolution pursuant to the procedures set forth in this Section.

H. DEFINITIONS

The definitions in this Section H are applicable only to this Rule, the Application and Interconnection Agreements.

Anti-Islanding: A control scheme installed as part of the Generating Facility or Interconnection Facilities that senses and prevents the formation of an Unintended Island.

Applicant: The entity submitting an Application for Interconnection pursuant to this Rule.

Application: A Commission-approved standard form submitted to MVU for Interconnection of a Generating Facility.

Certification Test: A test pursuant to this Rule that verifies conformance of certain equipment with Commission-approved performance standards in order to be classified as Certified Equipment. Certification Tests are performed by NRTLs.

Certification; Certified; Certificate: The documented results of a successful Certification Testing.

Certified Equipment: Equipment that has passed all required Certification Tests.

Commissioning Test: A test performed during the commissioning of all or part of a Generating Facility to achieve one or more of the following:

- Verify specific aspects of its performance;
- Calibrate its instrumentation; and
- Establish instrument or Protective Function set-points.

Customer: The entity that receives or is entitled to receive Distribution Service through the MVU's Distribution System.

Dedicated Transformer; Dedicated Distribution Transformer: A transformer that provides electricity service to a single Customer. The Customer may or may not have a Generating Facility.

Device: A mechanism or piece of equipment designed to serve a purpose or perform a function. The term may be used interchangeably with the terms "equipment" and "function" without intentional difference in meaning. See also Function and Protective Function.

Distribution Service: All services required by, or provided to, a Customer pursuant to the approved rules of MVU other than services directly related to the Interconnection of a Generating Facility under this Rule.

Distribution System: All electrical wires, equipment, and other facilities owned or provided by MVU, other than Interconnection Facilities, by which MVU provides Distribution Service to its Customers.

Emergency: An actual or imminent condition or situation, which jeopardizes MVU's Distribution System Integrity.

Field Testing: Testing performed in the field to determine whether equipment meets MVU's requirements for safe and reliable Interconnection.

Function: Some combination of hardware and software designed to provide specific features or capabilities. Its use, as in Protective Function, is intended to encompass a range of implementations from a single-purpose device to a section of software and specific pieces of hardware within a larger piece of equipment to a collection of devices and software.

Generating Facility: All Generators, electrical wires, equipment, and other facilities owned or provided by Producer for the purpose of producing electric power.

Generator: A device converting mechanical, chemical or solar energy into electrical energy, including all of its protective and control Functions and structural appurtenances. One or more Generators comprise a Generating Facility.

Gross Nameplate Rating; Gross Nameplate Capacity: The total gross generating capacity of a Generator or Generating Facility as designated by the manufacturer(s) of the Generator(s).

Host Load: The electrical power, less the Generator auxiliary load, consumed by the Customer, to which the Generating Facility is connected.

Initial Review: The review by MVU, following receipt of an Application, to determine the following: (a) the Generating Facility qualifies for Simplified Interconnection; or (b) if the Generating Facility can be made to qualify for Interconnection with a Supplemental Review determining any additional requirements.

In-rush Current: The current determined by the In-rush Current Test.

Interconnection Agreement: The Interconnection Agreement has been replaced by Rule 21 A – Interconnection Responsibilities, Terms and Conditions. This rule details the rights and obligations to effect or end Interconnection. For the purposes of this Rule, Net Energy Metering or Power Purchase Agreements authorized by the Commission are also defined as Interconnection Agreements.

Interconnection; Interconnected: The physical connection of a Generating Facility in accordance with the requirements of this Rule so that Parallel Operation with MVU's Distribution System can occur (has occurred).

Interconnection Facilities: The electrical wires, switches and related equipment that are required in addition to the facilities required to provide electric Distribution Service to a Customer to allow Interconnection. Interconnection Facilities may be located on either side of the Point of Common Coupling as appropriate to their purpose and design. Interconnection Facilities may be integral to a Generating Facility or provided separately.

Interconnection Study: A study to establish the requirements for Interconnection of a Generating Facility with MVU's Distribution System.

Island; Islanding: A condition on MVU's Distribution System in which one or more Generating Facilities deliver power to Customers using a portion of MVU's Distribution System that is electrically isolated from the remainder of MVU's Distribution System.

Line Section: That portion of MVU's Distribution System connected to a Customer bounded by automatic sectionalizing devices or the end of the distribution line.

Load Carrying Capability: The maximum electrical load that may be carried by a section of MVU's Distribution System consistent with reliability and safety under the circumstances being evaluated.

Metering: The measurement of electrical power in kW and/or energy in kWh, and, if necessary, reactive power in kVAR at a point, and its display to MVU, as required by this Rule.

Metering Equipment: All equipment, hardware, software including meter cabinets, conduit, etc., that are necessary for Metering.

Momentary Parallel Operation: The interconnection of a Generating Facility to the Distribution System for one second (60 cycles) or less.

Nationally Recognized Testing Laboratory (NRTL): A laboratory accredited to perform the Certification Testing requirements under this Rule.

Net Energy Metering: Metering for the receipt and delivery of electricity between the Producer and MVU pursuant to Section 2827, 2827.8, 2827.9, or 2827.10 of the Public Utilities Code.

Net Generation Output Metering: Metering of the net electrical power output in kW or energy in kWh, from a given Generating Facility. This may also be the measurement of the difference between the total electrical energy produced by a Generator and the electrical energy consumed by the auxiliary equipment necessary to operate the Generator. For a Generator with no Host Load and/or Public Utilities Code Section 218 Load (Section 218 Load), Metering that is located at the Point of Common Coupling. For a Generator with

Host Load and/or Section 218 Load, Metering that is located at the Generator but after the point of auxiliary load(s) and prior to serving Host Load and/or Section 218 Load.

Net Nameplate Rating: The Gross Nameplate Rating minus the consumption of electrical power of a Generator or Generating Facility as designated by the manufacturer(s) of the Generator(s).

Network Service: More than one electrical feeder providing Distribution Service at a Point of Common Coupling.

Non-Export; Non-Exporting: Designed to prevent the transfer of electrical energy from the Generating Facility to MVU's Distribution System.

Non-Islanding: Designed to detect and disconnect an Unintended Island with matched load and generation. Reliance solely on under/over voltage and frequency trip is not considered sufficient to qualify as Non-Islanding.

Parallel Operation: The simultaneous operation of a Generator with power delivered or received by MVU while Interconnected. For the purpose of this Rule, Parallel Operation includes only those Generating Facilities that are Interconnected with MVU's Distribution System for more than 60 cycles (one second).

Paralleling Device: An electrical device, typically a circuit breaker, operating under the control of a synchronization function or by a qualified operator to connect an energized generator to an energized electric power system or two energized power systems to each other.

Periodic Test: A test performed on part or all of a Generating Facility/ Interconnection Facilities at pre-determined time or operational intervals to achieve one or more of the following: (1) Verify specific aspects of its performance; (2) Calibrate instrumentation; and (3) Verify and re-establish instrument or Protective Function set-points.

Point of Common Coupling (PCC): The transfer point for electricity between the electrical conductors of MVU and the electrical conductors of the Producer.

Point of Common Coupling Metering: Metering located at the Point of Common Coupling. This is the same Metering as Net Generation Metering for Generating Facilities with no Host Load and/or Section 218 Load.

Point of Interconnection: The electrical transfer point between a Generating Facility and MVU's Distribution System. This may or may not be coincident with the Point of Common Coupling.

Producer: The entity that executes an Interconnection Agreement with MVU. The Producer may or may not own or operate the Generating Facility, but is responsible for the rights and obligations related to the Interconnection Agreement.

Production Test: A test performed on each device coming off the production line to verify certain aspects of its performance.

Protective Function(s): The equipment, hardware and/or software in a Generating Facility (whether discrete or integrated with other functions) whose purpose is to protect against Unsafe Operating Conditions.

Prudent Electrical Practices: Those practices, methods, and equipment, as changed from time to time, that are commonly used in prudent electrical engineering and operations to design and operate electric equipment lawfully and with safety, dependability, efficiency and economy.

Scheduled Operation Date: The date specified in the Interconnection Agreement when the Generating Facility is, by the Producer's estimate, expected to begin operation pursuant to this Rule.

Secondary Network: A network supplied by several primary feeders suitably interlaced through the area in order to achieve acceptable loading of the transformers under emergency conditions and to provide a system of extremely high service reliability. Secondary networks usually operate at 600 V or lower.

Section 218 Load: Electrical power that is supplied in compliance with California Public Utilities Code Section 218. Public Utilities Code Section 218 defines an "Electric Corporation" and provides conditions under which a transaction involving a Generating Facility would not classify a Producer as an Electric Corporation. These conditions relate to "over-the-fence" sale of electricity from a Generating Facility without using MVU's Distribution System.

Short Circuit (Current) Contribution Ratio (SCCR): The ratio of the Generating Facility's short circuit contribution to the short circuit contribution provided through MVU's Distribution System for a three-phase fault at the high voltage side of the distribution transformer connecting the Generating Facility to MVU's system.

Simplified Interconnection: Interconnection conforming to the Initial Review requirements under this Rule, as determined by Section I.

Single Line Diagram; Single Line Drawing: A schematic drawing, showing the major electric switchgear, Protective Function devices, wires, Generators, transformers and other devices, providing sufficient detail to communicate to a qualified engineer the essential design and safety of the system being considered.

Special Facilities: As defined in MVU's Rules governing Special Facilities.

Starting Voltage Drop: The percentage voltage drop at a specified point resulting from In-rush Current. The Starting Voltage Drop can also be expressed in volts on a particular base voltage, (e.g., 6 volts on a 120-volt base, yielding a 5% drop).

Supplemental Review: A process wherein MVU further reviews an Application that fails one or more of the Initial Review Process steps. The Supplemental Review may result in one of the following: (a) approval of Interconnection; (b) approval of Interconnection with additional requirements; or (c) cost and schedule for an Interconnection Study.

System Integrity: The condition under which MVU's Distribution System is deemed safe and can reliably perform its intended functions in accordance with the safety and reliability rules of MVU.

Telemetry: The electrical or electronic transmittal of Metering data in real-time to MVU.

Transfer Trip: A Protective Function that trips a Generating Facility remotely by means of an automated communications link controlled by MVU.

Type Test: A test performed on a sample of a particular model of a device to verify specific aspects of its design, construction and performance.

Unintended Island: The creation of an island, usually following a loss of a portion of MVU's Distribution System, without the approval of MVU.

Unsafe Operating Conditions: Conditions that, if left uncorrected, could result in harm to personnel, damage to equipment, loss of System Integrity or operation outside pre-established parameters required by the Interconnection Agreement.

I. REVIEW PROCESS FOR APPLICATIONS TO INTERCONNECT GENERATION FACILITIES

1. INTRODUCTION

This Review Process allows for rapid approval for the interconnection of those Generating Facilities that do not require an Interconnection Study. The review process includes a screening to determine if a Supplemental Review is required.

Note: Failure to pass any step of the review process means only that further review and/or studies are required before the Generating Facility can be approved for Interconnection with MVU's Distribution System. It does not mean that the Generating Facility cannot be Interconnected. Though not explicitly covered in the Initial Review Process the Generating Facility shall be designed to meet all of the applicable requirements in Section D.

2. PURPOSE

The review determines the following:

- a. If a Generating Facility qualifies for Simplified Interconnection;

- b. If a Generating Facility can be made to qualify for Interconnection with a Supplemental Review determining any additional requirements; or
- c. If an Interconnection Study is required, the cost estimate and schedule for performing the Interconnection Study.

3. REVIEW PROCESS DETAILS

- a. Step 1: Is the PCC on a Networked Secondary System?
 - If yes, the Generating Facility does not qualify for Simplified Interconnection. Perform Supplemental Review.
 - If No, continue to next step.

Significance: Special considerations must be given to Generating Facilities proposed to be installed on networked secondary Distribution Systems because of the design and operational aspects of network protectors. There are no such considerations for radial Distribution Systems.

- b. Step 2: Will power be exported across the PCC?
 - If yes, the Generating Facility does not qualify for Simplified Interconnection. Perform Supplemental Review.
 - If No, the Generating Facility must incorporate one of the following four options:

Option 1 (“Reverse Power Protection”): To ensure that power is not exported across the PCC, a reverse power Protective Function may be provided. The default setting for this Protective Function, when used, shall be 0.1% (export) of the service transformer’s rating, with a maximum 2.0 second time delay.

Option 2 (“Minimum Power Protection”): To ensure that at least a minimum amount of power is imported across the PCC at all times (and therefore, that power is not exported), an under-power Protective Function may be provided. The default setting for this Protective Function, when used, shall be 5% (import) of the Generating Facility’s total Gross Nameplate Rating, with a maximum 2.0 second time delay.

Option 3 (“Certified Non-Islanding Protection”): To ensure that the incidental export of power across the PCC is limited to acceptable levels, this option, when used, requires that all of the following conditions be met: (a) the total Gross Nameplate Capacity of the Generating Facility must be no more than 25% of the nominal ampere rating of the Producer’s service equipment; (b) the total Gross Nameplate Capacity of the Generating Facility must be no more than 50% of the Producer’s service transformer

capacity rating (this capacity requirement does not apply to customers taking primary service without an intervening transformer); and (c) the Generating Facility must be certified as Non-Islanding.

The ampere rating of the Customer's Service Equipment to be used in this evaluation will be that rating for which the customer's utility service was originally sized or for which an upgrade has been approved. It is not the intent of this provision to allow increased export simply by increasing the size of the customer's service panel, without separate approval for the resize.

Option 4 ("Relative Generating Facility Rating"): This option, when used, requires Net Nameplate Rating of the Generating Facility to be so small in comparison to its host facility's minimum load, that the use of additional Protective Functions is not required to insure that power will not be exported to MVU's Distribution System. This option requires the Generating Facility capacity to be no greater than 50% of the Producer's verifiable minimum Host Load over the past 12 months.

Significance:

- 1) If it can be ensured that the Generating Facility will not export power, MVU's Distribution System does not need to be studied for Load-Carrying Capability or Generating Facility power flow effects on MVU voltage regulators.
 - 2) This step permits the use of reverse-power or minimum-power relaying as a Non-Islanding Protective Function (Options 1, 2 and 3).
 - 3) This step allows, under certain defined conditions, for Generating Facilities that incorporate Certified Non-Islanding protection to qualify for Simplified
- c. Step 3: Is the Interconnection Facilities Equipment Certified for the application or does the Interconnection Facilities Equipment have interim MVU approval?
- If Yes, continue to next step.
 - If No, the Generating Facility and/or Interconnection Facilities does not qualify or Simplified Interconnection. Perform Supplemental Review.

Interim approval allows the MVU to treat equipment that has not completed the Rule 21 certification requirements as having met the intent of this screen. Interim approval is granted, at MVU's discretion, on a case by case

basis, and approval for one Generating Facility does not guarantee approval for any other Generating Facility

Significance: If the Generating Facility and/or Interconnection Facilities has been Certified or previously approved by MVU, MVU does not need to repeat its full review and/or test of the Generating and/or Interconnection Facilities' Protective Functions. Site Commissioning Testing may still be required to insure that the Protective Functions are working properly.

Certification indicates that the criteria in Section J, as appropriate, have been tested and verified.

- d. Step 4: Is the aggregate Generating Facility capacity on the Line Section less than 15% of Line Section peak load?
- If Yes, continue to next step.
 - If No, the Generating Facility does not qualify for Simplified Interconnection. Perform Supplemental Review to determine cumulative impact on Line Section.

Significance:

- 1) Low penetration of Generating Facility installations will have a minimal impact on the operation and load restoration efforts of MVU's Distribution System.
- 2) The operating requirements for a high penetration of Generating Facilities may be different since the impact on MVU's Distribution System will no longer be minimal, therefore requiring additional study or controls.

- e. Step 5: Is the Starting Voltage Drop within acceptable limits?

- If Yes, continue to next step.
- If No, the Generating Facility does not qualify for Simplified Interconnection. Perform Supplemental Review.

Note: This Step only applies to Generating Facilities that start by motoring the Generator(s).

MVU has two options in determining whether Starting Voltage Drop is acceptable. The option to be used is at MVU's discretion:

Option 1: MVU may determine that the Generating Facility's starting In-rush Current is equal to or less than the continuous ampere rating of the customer's service equipment.

Option 2: MVU may determine the impedances of the service distribution transformer (if present) and the secondary conductors to Customer's service equipment and perform a voltage drop calculation. Alternatively, MVU may use tables or nomographs to determine the voltage drop. Voltage drops caused by starting a Generator as a motor must be less than 2.5% for primary interconnections and 5% for secondary interconnections.

Significance:

- 1) This step addresses potential voltage fluctuation problems that may be caused by Generators that start by motoring.
- 2) When starting, Generating Facilities should have minimal impact on the service voltage to other MVU Customers.
- 3) Passing this step does not relieve the Producer from ensuring that its Generating Facility complies with the flicker requirements of this Rule, Section D.2.d.

f. Step 6: Is the Gross Nameplate Rating of the Generating Facility 11 kVA or less?

- If Yes, the Generating Facility qualifies for Simplified Interconnection. Skip remaining steps.
- If No, continue to next step.

Significance:

The Generating Facility will have a minimal impact on fault current levels and any potential line overvoltages from loss of MVU's Distribution System neutral grounding.

g. Step 7: Is the Short Circuit Current Contribution Ratio within acceptable limits?

- If Yes, continue to next step.
- If No, the Generating Facility does not qualify for Simplified Interconnection. Perform Supplemental Review.

The Short Circuit Current Contribution Ratio Screen consists of two criteria; both of which must be met when applicable:

- 1) When measured at primary side (high side) of a Dedicated Distribution Transformer serving a Generating Facility, the sum of the Short Circuit Contribution Ratios of all generating facilities connected to MVU's Distribution System circuit that serves the Generating Facility must be less than or equal to 0.1, and

- 2) When measured at the secondary side (low side) of a shared distribution transformer, the short circuit contribution of the proposed Generating Facility must be less than or equal to 2.5% of the interrupting rating of the Producer’s Service Equipment.

Significance:

If the Generating Facility passes this screen it can be expected that it will have no significant impact on MVU’s Distribution System’s short circuit duty, fault detection sensitivity, relay coordination or fuse-saving schemes.

- h. Step 8: Is the Line Configuration compatible with the Interconnection type?
 - If Yes, the Generating Facility qualifies for Simplified Interconnection.
 - If No, then the Generating Facility does not qualify for Simplified Interconnection. Perform Supplemental Review. Identify primary distribution line configuration that will serve the Generating Facility. Based on the type of Interconnection to be used for the Generating Facility, determine from the Table I.1 if the proposed Generating Facility passes the step.

Table I.1

Primary Distribution Line Type Configuration	Type of Interconnection to be Made to Primary Distribution Line	Results/Criteria
Three-phase, three wire	Any type	Pass Step
Three-phase, four wire	Single-phase, line-to-neutral	Pass Step
Three-phase, four wire (For any line that has such a section OR mixed three wire and four wire)	All others	To pass, aggregate GF Nameplate Rating must be less than or equal to 10% of Line Section peak load

Significance: If the primary distribution line serving the Generating Facility is of a “three-wire” configuration, or if the Generating Facility’s distribution transformer is single-phase and connected in a line-to-neutral configuration, then there is no concern about overvoltages to MVU’s, or other Customer’s equipment caused by loss of system neutral grounding during the operating time of the Non-Islanding Protective Function.

J. CERTIFICATION AND TESTING CRITERIA

1. INTRODUCTION

This Section describes the test procedures and requirements for equipment used for the Interconnection of Generating Facilities to MVU's Distribution System. Included are Type Testing, Production Testing, Commissioning Testing and Periodic Testing. The procedures listed rely heavily on those described in appropriate Underwriters Laboratory (UL), Institute of Electrical and Electronic Engineers (IEEE), and International Electrotechnical Commission (IEC) documents—most notably UL 1741 and IEEE 929, as well as the testing described in *May 1999 New York State Public Services Commission Standardized Interconnection Requirements*. As noted in Section A, this rule has been revised to be consistent with ANSI/IEEE 1547-2003 *Standard for Interconnecting Distributed Resources with Electric Power Systems*.

The tests described here, together with the technical requirements in Section D of this Rule, are intended to provide assurance that the Generating Facility's equipment will not adversely affect MVU's Distribution System and that a Generating Facility will cease providing power to MVU's Distribution System under abnormal conditions. The tests were developed assuming a low level of Generating Facility penetration or number of connections to MVU's Distribution System. At high levels of Generating Facility penetration, additional requirements and corresponding test procedures may need to be defined.

Section J also provides criteria for "Certifying" Generators or inverters. Once a Generator or inverter has been Certified per this Rule, it may be considered suitable for Interconnection with MVU's Distribution System. Subject to the exceptions described in Section J, MVU will not repeat the design review or require retesting of such Certified Equipment. It should be noted that the Certification process is intended to facilitate Generating Facility Interconnections. Certification is not a prerequisite to interconnect a Generating Facility.

The revisions made to this rule relative to IEEE 1547-2003 have resulted in changes in set points, test criteria, test procedures, and other requirements that will impact previously certified or listed equipment as well as equipment currently under evaluation. These changes were made to provide consistency with IEEE 1547. Equipment that is certified or that has been submitted to a Nationally Recognized Testing Laboratory (NRTL) for testing prior to the adoption of the revised Underwriters Laboratories (UL) 1741 titled Inverters, Converters, Controllers and Interconnection Systems Equipment for use with Distributed Energy Resources and that subsequently meet the provisions Rule 21 certification requirements will continue to be accepted as Certified Equipment for Interconnection Applications submitted through May 7, 2007, the effective date of the revised UL 1741. [this change will be incorporated by Advice Letter in Dec. 2005]

2. CERTIFIED AND NON-CERTIFIED INTERCONNECTION EQUIPMENT

a. Certified Equipment

Equipment tested and approved (e.g., “Listed”) by an accredited NRTL as having met both the Type Testing and Production Testing requirements described in this document is considered to be Certified Equipment for purposes of Interconnection with MVU’s Distribution System. Certification may apply to either a pre-packaged system or an assembly of components that address the necessary functions. Type Testing may be done in the manufactures’ factory or test laboratory, or in the field. At the discretion of the testing laboratory, field-certification may apply only to the particular installation tested. In such cases, some or all of the tests may need to be repeated at other installations.

When equipment is certified by a NRTL, the NRTL shall provide to the manufacturer, at a minimum, a Certificate with the following information for each device:

Administrative:

- 1) The effective date of Certification or applicable serial number (range or first in series), and/or other proof that Certification is current;
- 2) Equipment model number(s) of the Certified Equipment;
- 3) The software version utilized in the equipment, if applicable;
- 4) Test procedures specified (including date or revision number); and
- 5) Laboratory accreditation (by whom and to what standard).

Technical (as appropriate):

- 1) Device ratings (kW, kVA, Volts, Amps, etc.);
- 2) Maximum available fault current in Amps;
- 3) In-rush Current in Amps;
- 4) Trip points, if factory set (trip value and timing);
- 5) Trip point and timing ranges for adjustable settings;
- 6) Nominal power factor or range if adjustable;
- 7) If the equipment is Certified for Non-Exporting and the method used (reverse power or under power); and

8) If the equipment is Certified Non-Islanding.

It is the responsibility of the equipment manufacturer to ensure that Certification information is made publicly available by the manufacturer, the testing laboratory or by a third party.

b. Non-Certified Equipment

For non-Certified Equipment, some or all of the tests described in this Rule may be required by MVU for each Generating Facility and/or Interconnection Facilities. The manufacturer or a laboratory acceptable to MVU may perform these tests. Test results for Non-Certified Equipment must be submitted to MVU for the Supplemental Review. Approval by MVU for equipment used in a particular Generating Facility and/or Interconnection Facilities does not guarantee MVU's approval for use in other Generating Facility and/or Interconnection Facilities.

3. TYPE TESTING

- a. Type Tests and Criteria for Interconnection Equipment Certification. Type Testing provides a basis for determining that equipment meets the specifications for being designated as Certified Equipment under this Rule. The requirements described in this Section cover only issues related to Interconnection and are not intended to address equipment safety or other issues.

Table J.1. defines the test criteria by Generator or inverter technology. While UL 17411 was written specifically for inverters, the requirements are readily adaptable to synchronous Generators, induction Generators, as well as single/multi-function controllers and protection relays. Until a universal test standard is developed, MVU or NRTL shall adapt the procedures referenced in Table J.1 as appropriate and necessary for a Generating Facility and/or Interconnection Facilities or associated equipment performance and its control and Protective Functions. The tests shall be performed in the sequence shown in Table J.2 below.

Table J.1 Type Tests and Requirements for Interconnection Equipment Certification

Type Test	Reference (1)	Inverter	Synchronous Generator	Induction Generator
Utility Interaction	UL 1741 – 39	X	X	X
DC Isolation	UL 1741 – 40.1	X	-	-
Simulated PV Array (Input) Requirements	UL 1741 – 41.2	X	-	-
Dielectric Voltage Withstand	UL 1741 – 44	X	X	X
Power Factor	UL 1741 – 45.2.2	X	X	X
Harmonic Distortion	UL 1741 – 45.4	X	X	X
DC Injection	UL 1741 – 45.5	X	-	-
Utility Voltage and Frequency Variation	UL 1741 – 46.2	X	X	X
Reset Delay	UL 1741 – 46.2.3	X	X	X
Loss of Control Circuit	UL 1741 – 46.4	X	X	X
Short Circuit	UL 1741 – 47.3	X	X	X
Load Transfer	UL 1741 – 47.7	X	X	X
Surge Withstand Capability	J.3.e	X	X	X
Anti-Islanding	J.3.b	(2)	(2)	(2)
Non-Export	J.3.c	(3)	(3)	(3)
In-rush Current	J.3.d	-	-	(4)
Synchronization	J.3.f	(5)	X	(5)

Table Notes: (1) References are to section numbers in either UL 1741 (Inverters, Converters and Charge Controllers for use in Independent Power Systems) or this Rule. References in UL 1741 to “photovoltaics” or “inverter” may have to be adapted to the other technologies by the testing laboratory to appropriately apply in the tests to other technologies.

(2) Required only if Non-Islanding designation

(3) Required only if Non-Export designation is desired.

(4) Required for Generators that use MVU power to motor to speed.

(5) Required for all self-excited induction Generators as well as Inverters that operate as voltage sources when connected to MVU’s Distribution System.

X = Required , - = Not Required

Table J.2 Type Tests Sequence for Interconnection Equipment Certification

Test No.	Type Test
1	Utility Voltage and Frequency Variation
2	Synchronization
3	Surge Withstand Capability
4	Utility Voltage and Frequency Variation
5	Synchronization
6	Other Required and Optional Tests
Tests 1, 2, and 3, must be done first and in the order shown. Tests 4 and on follow in order convenient to the test agency.	

b. Anti-Islanding Test

Devices that pass the Anti-Islanding test procedure described in UL 1741 Section 46.3 will be considered Non-Islanding for the purposes of these

interconnection requirements. The test is required only for devices for which a Certified Non-Islanding designation is desired.

c. Non-Export Test

Equipment that passes the Non-Export test procedure described in Section J.7.a. will be considered Non-Exporting for the purposes of these Interconnection requirements. This test is required only for equipment for which a Certified Non-Export designation is desired.

d. In-rush Current Test

Generation equipment that utilizes MVU power to motor up to speed will be tested using the procedure defined in Section J.7.b. to determine the maximum current drawn during this startup process. The resulting In-rush Current is used to estimate the Starting Voltage Drop.

e. Surge Withstand Capability Test

The interconnection equipment shall be tested for the surge withstand requirement in D.1.c in all normal operating modes in accordance with IEEE Std C62.45-2002 for equipment rated less than 1000 V to confirm that the surge withstand capability is met by using the selected test level(s) from IEEE Std C62.41.2-2002. Interconnection equipment rated greater than 1000 V shall be tested in accordance with manufacturer or system integrator designated applicable standards. For interconnection equipment signal and control circuits, use IEEE Std C37.90.1-2002. These tests shall confirm the equipment did not fail, did not misoperate, and did not provide misinformation (IEEE1547-5.1.3.2). The location/exposure category for which the equipment has been tested shall be clearly marked on the equipment label or in the equipment documentation. External surge protection may be used to protect the equipment in harsher location/exposure categories.

f. Synchronization Test

This test is applied to synchronous Generators, self-excited induction generators, and inverters capable of operating as voltage-source while connected to MVU's Distribution System. The test is also applied to the resynchronization Function (transition from stand-alone to parallel operation) on equipment that provides such functionality. This test may not need to be performed on both the synchronization and re-synchronization functions if the manufacturers can verify to the satisfaction of the testing organization that monitoring and controls hardware and software are common to both functions. This test is not necessary for induction generators or current-source inverters. Instead, the In-rush Current test Section J.3.d shall be applied to those generators.

This test shall demonstrate that at the moment of the paralleling-device closure, all three synchronization parameters in Table J.3 are within the stated limits. This test shall also demonstrate that if any of the parameters are outside of the limits stated in the table, the paralleling-device shall not close (IEEE 1547- 5.1.2A). The test will start with only one of the three parameters: (1) voltage difference between Generating Facility and MVU's Distribution System; (2) frequency difference; or (3) phase angle outside of the synchronization specification. Verify that the Generating Facility is brought within specification prior to synchronization. Repeat the test five times for each of the three parameters. For manual synchronization with synch check or manual control with auto synchronization, the test must verify that paralleling does not occur until the parameters are brought within specifications.

Table J.3. Synchronization Parameter Limits [1]

Aggregate Rating of Generator Units (kVA)	Frequency Difference (Δf , Hz)	Voltage Difference (ΔV , %)	Phase Angle Difference ($\Delta \phi$, \square)
0-500	0.3	10	20
> 500-1,500	0.2	5	15
> 1,500-10,000	0.1	3	10

[1] – IEEE 1547-5.1.1B

g. Paralleling Device Withstand Test

The di-electric voltage withstand test specified in Section J.1 shall be performed on the paralleling device to ensure compliance with those requirements specified in Section D.1.c (IEEE 1547-5.1.3.3).

4. Production Testing

As a minimum, each interconnection system shall be subjected to the Utility Voltage and Frequency Variation Test procedure described in UL1741 under Manufacturing and Production Tests, Section 68 and the Synchronization test specified in Section J.3.f Interconnection systems with adjustable set points shall be tested at a single set of set points as specified by the manufacturer. This test may be performed in the factory or as part of a Commissioning Test (Section J.5.).

5. Commissioning Testing

- a. Commissioning Testing, where required, will be performed on-site to verify protective settings and functionality. Upon initial Parallel Operation of a Generating Facility, or any time interface hardware or software is changed

that may affect the functions listed below, a Commissioning Test must be performed. An individual qualified in testing protective equipment (professional engineer, factory-certified technician, or licensed electrician with experience in testing protective equipment) must perform Commissioning Testing in accordance with the manufacturer's recommended test procedure to verify the settings and requirements per this Rule.

MVU may require written Commissioning test procedure be submitted to MVE at least 10 working days prior to the performance of the Commissioning Test. MVU has the right to witness Commissioning Test, MVU may also require written certification by the installer describing which tests were performed and their results. Protective Functions to be tested during commissioning, particularly with respect to non-Certified equipment, may consist of the following:

- (1) Over and under voltage
- (2) Over and under frequency
- (3) Anti-Islanding function (if applicable)
- (4) Non-Exporting function (if applicable)
- (5) Inability to energize dead line
- (6) Time delay on restart after utility source is stable
- (7) Utility system fault detection (if used)
- (8) Synchronizing controls (if applicable)
- (9) Other Interconnection Protective Functions that may be required as part of the Interconnection Agreement

Commissioning Test shall include visual inspections of the interconnection equipment and protective settings to confirm compliance with the interconnection requirements.

b. Other checks and tests that may need to be performed include:

- (1) Verifying final Protective Function settings
- (2) Trip test (J.5.f)
- (3) In-service tests (J.5.g)

c. Certified Equipment

Generating Facilities qualifying for Simplified Interconnection incorporate Certified Equipment that have, at a minimum, passed the Type Tests and Production Tests described in this Rule and are judged to have little or no potential impact on MVU's Distribution System. For such Generating Facilities,

it is necessary to perform only the following tests:

- (1) Protective Function settings that have been changed after Production Testing will require field verification. Tests shall be performed using injected secondary frequencies, voltages and currents, applied waveforms, at a test connection using a Generator to simulate abnormal utility voltage or frequency, or varying the set points to show that the device trips at the measured (actual) utility voltage or frequency.
- (2) The Non-Islanding function shall be checked by operating a load break disconnect switch to verify the Interconnection equipment ceases to energize MVU's Distribution System and does not re-energize it for the required time delay after the switch is closed.
- (3) The Non-Exporting function shall be checked using secondary injection techniques. This function may also be tested by adjusting the Generating Facility output and local loads to verify that the applicable Non-Exporting criteria (i.e., reverse power or underpower) are met.

The Supplemental Review or an Interconnection Study may impose additional components or additional testing.

d. Non-Certified Equipment

Non-certified Equipment shall be subjected to the appropriate tests described in Type Testing (Section J.3.) as well as those described in Certified Equipment Commissioning Tests (Section J.5.c.). With MVU's approval, these tests may be performed in the factory, in the field as part of commissioning, or a combination of both. MVU, at its discretion, may also approve a reduced set of tests for a particular Generating Facility or, for example, if it determines it has sufficient experience with the equipment.

e. Verification of Settings

At the completion of Commission testing, the Producer shall confirm all devices are set to MVU-approved settings. Verification shall be documented in the Commissioning Test Certification.

f. Trip Tests

Interconnection Protective Functions and devices (e.g. reverse power relays) that have not previously been tested as part of the Interconnection Facilities with their associated interrupting devices (e.g. contactor or circuit breaker) shall be trip tested during commissioning. The trip test shall be adequate to prove that the associated interrupting devices open when the protective devices operate. Interlocking circuits between Protective

Function devices or between interrupting devices shall be similarly tested unless they are part of a system that has been tested and approved during manufacturing.

g. In-service Tests

Interconnection Protective Functions and devices that have not previously been tested as part of the Interconnection Facilities with their associated instrument transformers or that are wired in the field shall be given an in-service test during commissioning. This test will verify proper wiring, polarity, CT/PT ratios, and proper operation of the measuring circuits. The in-service test shall be made with the power system energized and carrying a known level of current. A measurement shall be made of the magnitude and phase angle of each Alternating Current (AC) voltage and current connected to the protective device and the results compared to expected values. For protective devices with built-in Metering Functions that report current and voltage magnitudes and phase angles, or magnitudes of current, voltage, and real and reactive power, the metered values may be used for in-service testing. Otherwise, portable ammeters, voltmeters, and phase-angle meters shall be used.

6. Periodic Testing

Periodic Testing of Interconnection-related Protective Functions shall be performed as specified by the manufacturer, or at least every four years. All Periodic Tests prescribed by the manufacturer shall be performed. The Producer shall maintain Periodic Test reports or a log for inspection by MVU. Periodic Testing conforming to MVU test intervals for the particular Line Section may be specified by MVU under special circumstances, such as high fire hazard areas. Batteries used to activate any Protective Function shall be checked and logged once per month for proper voltage.

Once every four years, the battery must be either replaced or a discharge test performed.

7. Type Testing Procedures Not Defined in Other Standards

This Section describes the additional Type Tests necessary to qualify a device as Certified under this Rule. These Type Tests are not contained in Underwriters Laboratories UL 1741 Standard *Inverters, Converters and Controllers for Use in Independent Power Systems*, or other referenced standards.

a. Non-Exporting Test Procedures

The Non-Exporting test is intended to verify the operation of relays, controllers and inverters designed to limit the export of power and certify the equipment as meeting the requirements of Screen 2, Options 1 and 2, of the review process. Tests are provided for discrete relay packages and for controllers and inverters with the intended Functions integrated.

(1) Discrete Reverse Power Relay Test

This version of the Non-Exporting test procedure is intended for discrete reverse power and underpower relay packages provided to meet the requirements of Options 1 and 2 of Screen 2. It should be understood that in the reverse power application, the relay will provide a trip output with power flowing in the export (toward MVU's Distribution System) direction.

Step 1: Power Flow Test at Minimum, Midpoint and Maximum Pickup Level Settings

Determine the corresponding secondary pickup current for the desired export power flow of 0.5 secondary watts (the minimum pickup setting, assumes 5 amp and 120V CT/PT secondary). Apply nominal voltage with minimum current setting at zero (0) degrees phase angle in the trip direction. Increase the current to pickup level. Observe the relay's (LCD or computer display) indication of power values. Note the indicated power level at which the relay trips. The power indication should be within 2% of the expected power. For relays with adjustable settings, repeat this test at the midpoint, and maximum settings. Repeat at phase angles of 90, 180 and 270 degrees and verify that the relay does not operate (measured watts will be zero or negative).

Step 2: Leading Power Factor Test

Apply rated voltage with a minimum pickup current setting (calculated value for system application) and apply a leading power factor load current in the non-trip direction (current lagging voltage by 135 degrees). Increase the current to relay rated current and verify that the relay does not operate. For relays with adjustable settings, this test should be repeated at the minimum, midpoint, and maximum settings.

Step 3: Minimum Power Factor Test

At nominal voltage and with the minimum pickup (or ranges) determined in Step 1, adjust the current phase angle to 84 or 276 degrees. Increase the current level to pickup (about 10 times higher than at 0 degrees) and verify that the relay operates. Repeat for phase angles of 90, 180 and 270 degrees and verify that the relay does not operate.

Step 4: Negative Sequence Voltage Test

Using the pickup settings determined in Step 1, apply rated relay voltage and current at 180 degrees from tripping direction, to

simulate normal load conditions (for three-phase relays, use Ia at 180, Ib at 60 and Ic at 300 degrees). Remove phase-1 voltage and observe that the relay does not operate. Repeat for phases-2 and 3.

Step 5: Load Current Test

Using the pickup settings determined in Step 1, apply rated voltage and current at 180 degrees from the tripping direction, to simulate normal load conditions (use Ia at 180, Ib at 300 and Ic at 60 degrees). Observe that the relay does not operate.

Step 6: Unbalanced Fault Test

Using the pickup settings determined in Step 1, apply rated voltage and 2 times rated current, to simulate an unbalanced fault in the non-trip direction (use Va at 0 degrees, Vb and Vc at 180 degrees, Ia at 180 degrees, Ib at 0 degrees, and Ic at 180 degrees). Observe that the relay, especially single phase, does operate properly.

Step 7: Time Delay Settings Test

Apply Step 1 settings and set time delay to minimum setting. Adjust the current source to the appropriate level to determine operating time, and compare against calculated values. Verify that the timer stops when the relay trips. Repeat at midpoint and maximum delay settings.

Step 8: Dielectric Test

Perform the test described in IMVU 414 using 2 kV RMS for 1 minute.

Step 9: Surge Withstand Test

Perform the surge withstand test described in IEEE C37.90.1.1989 or the surge withstand capability test described in J.3.e.

(2) Discrete Underpower Relay Test

This version of the Non-Exporting test procedure is intended for discrete underpower relay packages and meets the requirements of Option 2 of Screen 2. A trip output will be provided when import power (toward the Producer's load) drops below the specified level.

Note: For an underpower relay, pickup is defined as the highest power level at which the relay indicates that the power is less than the set level.

Step 1: Power Flow Test at Minimum, Midpoint and Maximum Pickup Level Settings

Determine the corresponding secondary pickup current for the desired power flow pickup level of 5% of peak load minimum pickup setting. Apply rated voltage and current at 0 (zero) degrees phase angle in the direction of normal load current. Decrease the current to pickup level. Observe the relay's (LCD or computer display) indication of power values. Note the indicated power level at which the relay trips. The power indication should be within 2% of the expected power. For relays with adjustable settings, repeat the test at the midpoint, and maximum settings. Repeat at phase angles of 90, 180 and 270 degrees and verify that the relay operates (measured watts will be zero or negative).

Step 2: Leading Power Factor Test

Using the pickup current setting determined in Step 1, apply rated voltage and rated leading power factor load current in the normal load direction (current leading voltage by 45 degrees). Decrease the current to 145% of the pickup level determined in Step 1 and verify that the relay does not operate. For relays with adjustable settings, repeat the test at the minimum, midpoint, and maximum settings.

Step 3: Minimum Power Factor Test

At nominal voltage and with the minimum pickup (or ranges) determined in Step 1, adjust the current phase angle to 84 or 276 degrees. Decrease the current level to pickup (about 10% of the value at 0 degrees) and verify that the relay operates. Repeat for phase angles 90, 180 and 270 degrees and verify that the relay operates for any current less than rated current.

Step 4: Negative Sequence Voltage Test

Using the pickup settings determined in Step 1, apply rated relay voltage and 25% of rated current in the normal load direction, to simulate light load conditions. Remove phase 1 voltage and observe that the relay does not operate. Repeat for Phases-2 and 3.

Step 5: Unbalanced Fault Test

Using the pickup settings determined in Step 1, apply rated voltage and two times rated current, to simulate an unbalanced fault in the normal load direction (use V_a at 0 degrees, V_b and V_c at 180

degrees, Ia at 0 degrees, Ib at 180 degrees, and Ic at 0 degrees). Observe that the relay (especially single-phase types) operates properly.

Step 6: Time Delay Settings Test

Apply Step 1 settings and set time delay to minimum setting. Adjust the current source to the appropriate level to determine operating time, and compare against calculated values. Verify that the timer stops when the relay trips. Repeat at midpoint and maximum delay settings.

Step 7: Dielectric Test

Perform the test described in IEC 414 using 2 kV RMS for 1 minute.

Step 8: Surge Withstand Test

Perform the surge withstand test described in IEEE C37.90.1.1989 or the surge withstand test described in Section J.3.e.

(3) Tests for Inverters and Controllers with Integrated Functions

Inverters and controllers designed to provide reverse or underpower functions shall be tested to certify the intended operation of this function. Two methods are acceptable:

Method 1: If the inverter or controller utilizes external current/voltage measurement to determine the reverse or underpower condition, then the inverter or controller shall be functionally tested by application of appropriate secondary currents and potentials as described in the Discrete Reverse Power Relay Test, Section J.7.a.(1) of this Rule.

Method 2: If external secondary current or voltage signals are not used, then unit-specific tests must be conducted to verify that power cannot be exported across the PCC for a period exceeding two seconds. These may be factory tests, if the measurement and control points are integral to the unit, or they may be performed in the field.

b. In-rush Current Test Procedures

This test will determine the maximum In-rush Current drawn by the Generator.

(1) Locked-Rotor Method

Use the test procedure defined in NEMA MG-1 (manufacturer's data is acceptable if available).

(2) Start-up Method

Install and setup the Generating Facility equipment as specified by the manufacturer. Using a calibrated oscilloscope or data acquisition equipment with appropriate speed and accuracy, measure the current draw at the Point of Interconnection as the Generating Facility starts up and parallels with MVU's Distribution System. Startup shall follow the normal, manufacturer-specified procedure. Sufficient time and current resolution and accuracy shall be used to capture the maximum current draw within 5%. In-rush Current is defined as the maximum current draw from MVU during the startup process, using a 10-cycle moving average. During the test, the utility source, real or simulated, must be capable of maintaining voltage within +/- 5% of rated at the connection to the unit under test. Repeat this test five times. Report the highest 10-cycle current as the In-rush Current. A graphical representation of the time-current characteristic along with the certified In-rush Current must be included in the test report and made available to MVU.

RULE 21A – Generation Interconnection Rules, Terms and Conditions

Applicability

The former MVU Net Energy Metering 2.0/Interconnection Agreement has been replaced by Rule 21A. This rule applies to all interconnections between MVU and the generation Producer providing for the Interconnection of a Generating Facility that gives certain rights and obligations to effect or end Interconnection.

Applicable to Customer-Generators, as defined in Section 2827 of the California Public Utilities Code, operating a renewable electrical generation facility, as therein defined, located on the customer's owned, leased, or rented premises, is a vendor/contractor owned PV system that is leased or rented (includes a purchase power agreement) to an MVU electric customer or a customer owned system that is intended primarily to offset part or all of the customer's own electrical requirements and which is interconnected and operates in parallel with MVU's power system as authorized by MVU.

Territory

Within the entire territory served by Moreno Valley Utility.

Net Surplus Compensation Rate

The net surplus compensation rate per kWh applied to any net surplus energy remaining at the end of the customer's relevant period based on the MVU rate under which the customer is billed and all the conditions thereof.

Special Conditions

1. As determined in each billing period, when a customer is a net consumer of energy, the resulting net consumed energy will be used in the calculation of all applicable energy charges.
2. As determined in each billing period, when a customer is a net producer of energy, the resulting net produced energy will be used in the calculation of a monetary value that shall only be applied to the customer's monthly bill, including any minimum charges and applicable taxes. The customer acknowledges that no incentive is available for the installed PV system.
3. A customer is a net producer of energy when the amount of generated kilowatt-hours (kWh) of energy that is exported to MVU's system exceeds the amount that the customer receives from MVU.
4. The monetary value calculated is the product of the net kWh produced multiplied by the Net Surplus Compensation Rate (NSCR).
5. The NSCR value is established by MVU to reflect the costs MVU avoids in procuring power during the time period net surplus generators are likely to produce excess power.
6. MVU shall retain any net surplus energy generated by the NEM customer, including any associated environmental attributes or renewable energy credits ("REC").
7. To be eligible for service under this Schedule, generating facilities must meet all applicable safety and performance standards established by the National Electrical Code, the Institute of

Electrical and Electronics Engineers, and accredited testing laboratories such as Underwriters Laboratories and, where applicable, rules regarding safety and reliability (i.e., MVU's Electric Rule 21). All generating facilities must have a warranty of at least 10 years for all equipment and the associated installation from the system provider (not from MVU). All major solar system components (including PV panels and other generation equipment, inverters and meters) must be on the verified equipment list maintained by the CEC. Any other equipment, as determined by MVU, must be verified as having safety certification from a Nationally Recognized Testing Laboratory.

8. To be eligible for service under this Schedule, the customer's generating facilities must be sized to offset part or all of the customer's own electrical requirements and cannot be oversized. This means that the estimated output of the generating facility, using the CEC-AC nameplate rating for inverter-based generating facilities must not exceed the customer's previous annual usage in kWh. In the event that there is less than 12 months of previous recorded usage data, the standard of 2 watts per square foot of the premises will apply.

9. Customers seeking to interconnect their generating facilities for the purpose of receiving service under this Schedule are subject to the interconnection requirements and interconnection cost responsibility provisions as established in MVU's Electric Rule 21.

10. A new customer of record who owns, rents, or leases a premise that includes a generating facility that was approved by MVU for parallel operation prior to the new customer moving in and/or taking electric service with MVU will take service under this Schedule as long as the requirements of this Schedule are met. This provision also applies to premises where the developer/contractor establishes the interconnection.

11. Existing generating facilities currently under Schedule NEM that are modified such that: (1) the generating capacity or output increases by 10% or more; or (2) adding battery storage will be placed under Schedule NEM 2.0.

12. Existing customers under Schedule NEM will remain under Schedule NEM for a period of fifteen (15) years from the original year in which their generating facility was interconnected to MVU's grid as determined from the date the customer received the permission to operate (PTO), and then will be switched to Schedule NEM 2.0 or any otherwise applicable rate schedule. Existing customers under Schedule NEM can request to be placed under Schedule NEM 2.0 at any time; the customer's account will be trued up at the time of the request. This means that any outstanding balance due or credit due will be applied to the next regular billing.

Solar or Wind Generating Facility

1. Operating Option

1. Customer has elected to construct, design, install, operate, and maintain the Facility in a manner consistent with the normal and safe operation of the electrical distribution system owned and operated by MVU. The Facility is intended primarily to provide part or all of the Customer's own electrical energy requirements. If the facility is within the service territory of MVU, then by that fact the Customer understands, accepts, and agrees that connection and operation of the

Customer's Facility shall be subject to the terms and conditions set forth in in MVU's Electric Service Rules (the "Rules").

2. Pursuant to Electric Service Rule No. 21 and Rule 21A, based on facility type and size, an Interconnection Fee may be required.

2. Credits for Net Energy

1. Customer is eligible to receive credits for energy if Customer's monthly energy generated by the Facility exceeds Customer's monthly energy requirements, calculated by the "Net Metering." Net Metering uses a non-demand, time differentiated meter or meters to measure the difference between the energy supplied by MVU and the energy generated by the Facility and supplied to MVU. Net metering account billing options, net energy carryover rules and restrictions, and energy costs are controlled by MVU's Net Metering Schedule in effect at the time of Customer's start of service.

3. Interruption or Reduction of Deliveries

1. MVU shall not be obligated to accept, and MVU may require Customer to interrupt or reduce, deliveries of energy to MVU: (a) when necessary in order to construct, install, maintain, repair, replace, remove, investigate, or inspect any of MVU's equipment or part of the MVU system; or (b) if MVU determines that curtailment, interruption, or reduction of receipt of energy from Customer's Facility is necessary because of emergencies, forced outages, force majeure, or compliance with prudent electrical practices.
2. Notwithstanding any other provision of this Rule, if at any time MVU, in its sole discretion, determines that either (a) the Facility may endanger MVU personnel or members of the general public, or (b) the continued operation of Customer's Facility may impair the integrity of MVU's electric distribution system, MVU shall have the right to disconnect Customer's Facility from MVU's electric distribution system. Customer's Facility shall remain disconnected until such time as MVU is satisfied that the condition(s) referenced in (a) or (b) of this paragraph have been corrected, and MVU shall not be obligated to compensate Customer for any loss of use of generation or energy during any and all periods of such disconnection.

4. Interconnection

1. Customer shall deliver energy from the Facility to MVU at MVU's meter.
2. Customer, and not MVU, shall be solely responsible for all legal and financial obligations arising from the construction, installation, design, operation, and maintenance of the Facility in accordance with all applicable laws and regulations.
3. Customer, at Customer's sole expense, shall obtain and possess all permits and authorizations in accordance with all applicable laws and regulations for the construction, installation, design operation and maintenance of the Facility.

4. MVU shall furnish and install one or more standard watt-hour meters to read energy generated by Customer's Facility. Customer shall provide and install a meter socket and connections in accordance with MVU's metering standards. If the Customer desires more detailed metering equipment, all associated costs will be incurred by the Customer.
5. MVU shall have the right to have its representatives present at the final inspection made by the governmental authority having jurisdiction to inspect and approve the installation of the Generating Facility or battery storage. For interconnections involving battery storage, Customer shall be responsible for all inspection and commissioning fees. Customer shall notify MVU in accordance with the terms of Section 12, herein, at least five (5) days prior to such inspection.
6. Customer shall not connect the Facility, or any portion of it, to MVU's distribution system, until written approval of Facility has been given to Customer by MVU. Such approval shall not be unreasonably withheld.
7. Customer may reconnect its Facility to the MVU system following normal operational outages and interruptions without notifying MVU unless MVU has disconnected service, or MVU notifies Customer that a reasonable possibility exists that reconnection would pose a safety hazard.
8. If MVU has disconnected Service to the Facility, or MVU has notified Customer that a reasonable possibility exists that reconnection would pose a safety hazard, Customer may call MVU's Customer Service Center to request authorization to reconnect the Facility.

5. Design Requirements

1. Customer's Facility, and all portions of it used to provide or distribute electrical power and parallel interconnection with MVU's distribution equipment shall be designed, installed, constructed, operated, and maintained in compliance with this Rule. Compliance with this section is mandatory.
2. Customer shall conform to all applicable solar or wind electrical generating system safety and performance standards established by MVU's Electric Service Rule No. 21, the National Electrical Code (NEC), the Institute of Electrical and Electronics Engineers (IEEE), and accredited testing laboratories such as Underwriters Laboratories, and where applicable, rules of the Public Utilities Commission regarding safety and reliability, and applicable building codes.

6. Maintenance and Permits

1. Customer shall: (a) maintain the Facility and interconnection facilities in a safe and prudent manner and in conformance with all applicable laws and regulations including, but not limited to, requirements of Section 5 above, and (b) to the extent that future requirements may require, obtain any governmental authorizations or permits required for the operation of the Facility. Customer shall reimburse MVU

for any and all losses, damages, claims, penalties, or liability MVU incurs as a result of Customer's failure to obtain or maintain any governmental authorizations and permits required for construction and operation of the Customer's Facility.

7. Access to Premises

1. MVU may enter Customer's premises without prior notice (a) to inspect, at all reasonable hours, Customer's protective devices and read or test any meter for the Facility and (b) to disconnect, at any time, without notice, the Facility if, in MVU's sole opinion, a hazardous condition exists and that immediate action is necessary to protect persons, or MVU's facilities, or property of others from damage or interference caused by (1) Customer's Facility, or (2) Customer's failure to comply with the requirements of this Rule.

8. Indemnity and Liability by Customer

1. Customer shall indemnify and hold MVU, its directors, officers, agents and employees harmless against all loss, damages expense and liability to third persons for injury to or death of persons or injury to property caused by the Customer's engineering design, construction, installation, ownership, maintenance or operations of the Facility in connection with this Agreement by reason of omission or negligence, whether active or passive. Customer shall, on MVU's request, defend any suit asserting a claim covered by this indemnity. Customer shall pay all costs that may be incurred by MVU in enforcing this indemnity.
2. Neither MVU, its officers, agents or employees shall be liable for any claims, demands, costs, losses, causes of action, or any other construction, ownership, maintenance or operation of, or making of replacements, additions or betterment to, Customer's Facility except to the extent actually caused by the sole and gross negligence of the MVU.
3. Neither MVU, its officers, agents or employees shall be liable for damages of any kind to the Facility caused by any electrical disturbance of the MVU system or on the system of another, whether or not the electrical disturbance results from the negligence of MVU.

9. Insurance

1. Customer is required to maintain insurance in force for the duration of this life of the Facilities in the amount of \$xxx per install kW capacity of the Facilities. MVU shall have the right to inspect or obtain a copy of the original policy or policies of insurance prior to commencing operation. Such insurance shall, by endorsement to the policy or policies, provide for thirty (30) calendar days written notice to MVU prior to cancellation, termination, alteration, or material change of such insurance.

CHART OF CHARGES AND FEES

Item	Charge
Service Initiation Charge	
Next Day, Normal Business Hours	\$15.00
Identity Verification Fee	\$5.00
Additional Charge for Same Day Turn On of Service	\$30.00
Additional Charge for Weekends and After Hours Turn On of Service	\$50.00
Deposits	
Residential Service – Single Family	Twice Average Monthly Bill, minimum \$235
Residential Service – Multi-Family	Twice Average Monthly Bill, minimum \$105
Non Residential Service	Twice Maximum Monthly Bill
Reestablishment of Credit	Twice Maximum Monthly Bill
Interest on Deposits	1/12 th of the Interest Rate on Commercial Paper (Prime, 3 Months)
Interest on Unauthorized Use Billings	10% Per Annum
Interest on Amortized Repayment Agreements	10% Per Annum
Return Check Charge	\$31.00
Field Notification Charge	\$10.00
Collection Processing Fee	\$30.00
Meter Test Deposit – (Refunded if Meter Registers within Parameters)	
Meter Installed without Current or Potential Transformer	\$20.00
Meter Installed with Current or Potential Transformer	\$100.00
Late Charge	0.9% per Month of Unpaid Balance
Utility Users Tax	5.75%
Reconnection Charge	
Meter Panel – Next Day	\$20.00
Meter Panel – Same Day During Working Hours	\$30.00
Meter Panel – Weekends and After Hours	\$50.00
Pole / Service Structure – Next Day	\$60.00
Pole / Service Structure – Same Day During Working Hours	\$75.00
Pole / Service Structure – Weekends and After Hours	\$90.00
Transformer/Structure Due to Energy Theft	\$150.00
Damaged Steel Lock-ring	\$15.00
Damaged Aluminum Lock-ring	\$5.00
Replaced Damaged Meter	Actual cost (time and material)

PLAN CHECKING and INSPECTION/TESTING FEES

Upon submittal of improvement plan(s) for a project's electrical distribution system, line extension facilities and/or structures for plan review, the submittal shall be accompanied with a deposit of an amount equal to 3.25% of the engineer's estimated construction costs for improvements. Prior to second submittal of improvement plans, the City Engineer will approve a final cost for improvements and a plan review fee will be established. From this final fee, the deposit will be deducted. This fee shall be paid prior to the second submittal of the improvement plan(s).

Improvement Plans

(Total cost of construction)

Off-Site & On-Site 1-3 submittals

First \$20,000.00	4.0%
Next \$80,000.00	3.5%
Over \$100,000.00	3.25%
4 th and subsequent submittals per sheet	\$248.00/sheet or as directed by City Engineer

Revisions (Improvement Plans)

Minor per sheet	\$261.00
Major per sheet (minimum fee)	\$269.00

Inspection and Testing

(Total cost of construction)

Off-Site & On- Site

First \$20,000.00	4.0%
Next \$80,000.00	3.5%
Over \$100,000.00	3.25%

Attachment: MVU Rules Fees Charges proposed 06042019R (3588 : APPROVE RESOLUTION XX AMENDING ELECTRIC RATES)



Report to City Council

TO: Mayor and City Council

FROM: Michael L. Wolfe, P.E., Public Works Director/City Engineer

AGENDA DATE: June 4, 2019

TITLE: AUTHORIZATION TO AWARD CONSTRUCTION CONTRACT TO AMERICAN ASPHALT SOUTH, INC. FOR PAVEMENT REHABILITATION FOR VARIOUS LOCAL STREETS (CDBG FISCAL YEAR 2018-19)-PROJECT NO. 801 0082

RECOMMENDED ACTION

Recommendations:

1. Award a construction contract to American Asphalt South, Inc., 14436 Santa Ana Avenue, Fontana, CA 92337, for the Pavement Rehabilitation for Various Local Streets (CDBG Fiscal Year 2018-19) Project and authorize the City Manager to execute a contract with American Asphalt South, Inc. in substantial conformance with the attached contract in the amount of \$475,663.50;
2. Authorizes the issuance of a Purchase Order for American Asphalt South, Inc. in the amount of \$547,013.00 (\$475,663.50 bid amount plus 15% contingency) when the contract has been signed by all parties; and
3. Authorize the Public Works Director/City Engineer to execute any subsequent related change orders to the contract, but not exceeding the total contingency of \$71,349.50 subject to the approval of the City Attorney.

SUMMARY

This report recommends approval of a contract with American Asphalt South, Inc. for the construction of the Pavement Rehabilitation for Various Local Streets (CDBG Fiscal Year 2018-19) project. This project is funded by the Community Development Block Grant (CDBG) fund.

DISCUSSION

This project provides pavement preservation treatment with slurry seal application for approximately 57 local streets citywide. These streets are within the CDBG target areas of the City and included in the Pavement Management Program Five-year Look-ahead Plan as presented to the City Council at its meeting on March 19, 2019. Pavement slurry seal work that includes crack sealing and localized repairs is the crucial preventive work which will help preserve and extend the useful life of the City streets.

The Planning Division of the Community Development Department determined on October 23, 2018 that this project is exempt from the California Environmental Quality Act (CEQA) per CEQA Guidelines Section 15301(c) (Existing Facilities), Article 19, commencing with Section 15300. In addition, Planning Division also reviewed this project under the National Environmental Policy Act (NEPA) as part of the CDBG funding approval and determined that these projects qualify for a Categorical Exclusion pursuant to 24 CFR Part 58.34(a)(1), and 58.34(a)(2).

The project design and bidding documents were completed in April 2019 by in-house engineering staff as a cost saving solution for the City. As identified in the bid documents, the scope of work was categorized to include Base Bid and Additive Alternate Bid in an effort to maximize utilization of the available funding, depending on the bid results. The base bid includes 56 street segments, and the alternate additive bid includes one street segment.

The project was advertised for construction bids on April 30, 2019 and formal bidding procedures were followed in conformance with the Public Contract Code. Four bids were received via the electronic bid management system, PlanetBids, on May 20, 2019 as follows:

<u>CONTRACTORS</u>	<u>Base Bid + Alt Additive Bid</u>
1. American Asphalt South, Inc.	\$475,663.50
2. Pavement Coatings Co.	\$607,384.00
3. Onyx Paving Company, Inc.	\$626,000.00
4. All American Asphalt	\$718,369.00

The lowest responsible bidder was determined by comparing the cumulative total for all base bid items and alternate additive bid items as stipulated in the bid documents. Staff has reviewed the bid by American Asphalt South, Inc. and finds it to be the lowest responsible bidder in possession of a valid license and bid bond. No outstanding issues were identified through review of the references submitted by American Asphalt South, Inc. in their bid.

A contingency of 15% of the bid amount (\$71,349.50) is recommended to account for any changed field condition that may have occurred during the period between the completion of the engineering design work and construction start. The contingency is also recommended to allow rapid response to avoid unnecessary construction delays that typically result in contractor change orders from unforeseen circumstances

encountered during construction.

Approval of the recommended actions would support Objective 4 of the *Momentum MoVal* Strategic Plan: “Manage and maximize Moreno Valley’s public Infrastructure to ensure an excellent quality of life, develop and implement innovative, cost effective infrastructure maintenance programs, public facilities management strategies, and capital improvement programming and project delivery.”

ALTERNATIVES

1. Approve and authorize the recommended actions as presented in this staff report. *This alternative will provide for the timely construction of the Pavement Rehabilitation for Various Local Streets (CDBG Fiscal Year 2018-19) project.*
2. Do not approve and authorize the recommended actions as presented in this staff report. *Staff does not recommend this alternative as it will delay the construction of needed improvements and may result in loss of grant funding.*

FISCAL IMPACT

This project is funded by the Community Development Block Grant (CDBG). There is no impact to the General Fund.

AVAILABLE BUDGET – FISCAL YEAR 2018/2019:

Community	Development	Block	Grant	(CDBG)
(Account 2512-70-77-80001) (Project No. 801 0082)				\$825,944

ESTIMATED PROJECT COSTS:

Design	\$11,000
Construction (includes contingency).....	\$547,013
Construction Material Testing.....	\$60,000
Project Administration and Inspection*	<u>\$80,000</u>
Total	\$698,013

**Project administration and inspection will be provided by City staff*

ANTICIPATED PROJECT SCHEDULE:

Construction July to October, 2019

NOTIFICATION

Prior to construction, all utilities, adjacent property owners, business owners, law enforcement, fire department, and other emergency services responders in the area will be notified in a timely manner of the proposed construction.

PREPARATION OF STAFF REPORT

Prepared By:
Quang Nguyen, P.E.
Senior Engineer

Department Head Approval:
Michael L. Wolfe, P.E.
Public Works Director/City Engineer

Concurred By:
Henry Ngo, P.E.
Capital Projects Division Manager

CITY COUNCIL GOALS

Public Safety. Provide a safe and secure environment for people and property in the community, control the number and severity of fire and hazardous material incidents, and provide protection for citizens who live, work and visit the City of Moreno Valley.

Public Facilities and Capital Projects. Ensure that needed public facilities, roadway improvements, and other infrastructure improvements are constructed and maintained.

Community Image, Neighborhood Pride and Cleanliness. Promote a sense of community pride and foster an excellent image about our City by developing and executing programs which will result in quality development, enhanced neighborhood preservation efforts, including home rehabilitation and neighborhood restoration.

CITY COUNCIL STRATEGIC PRIORITIES

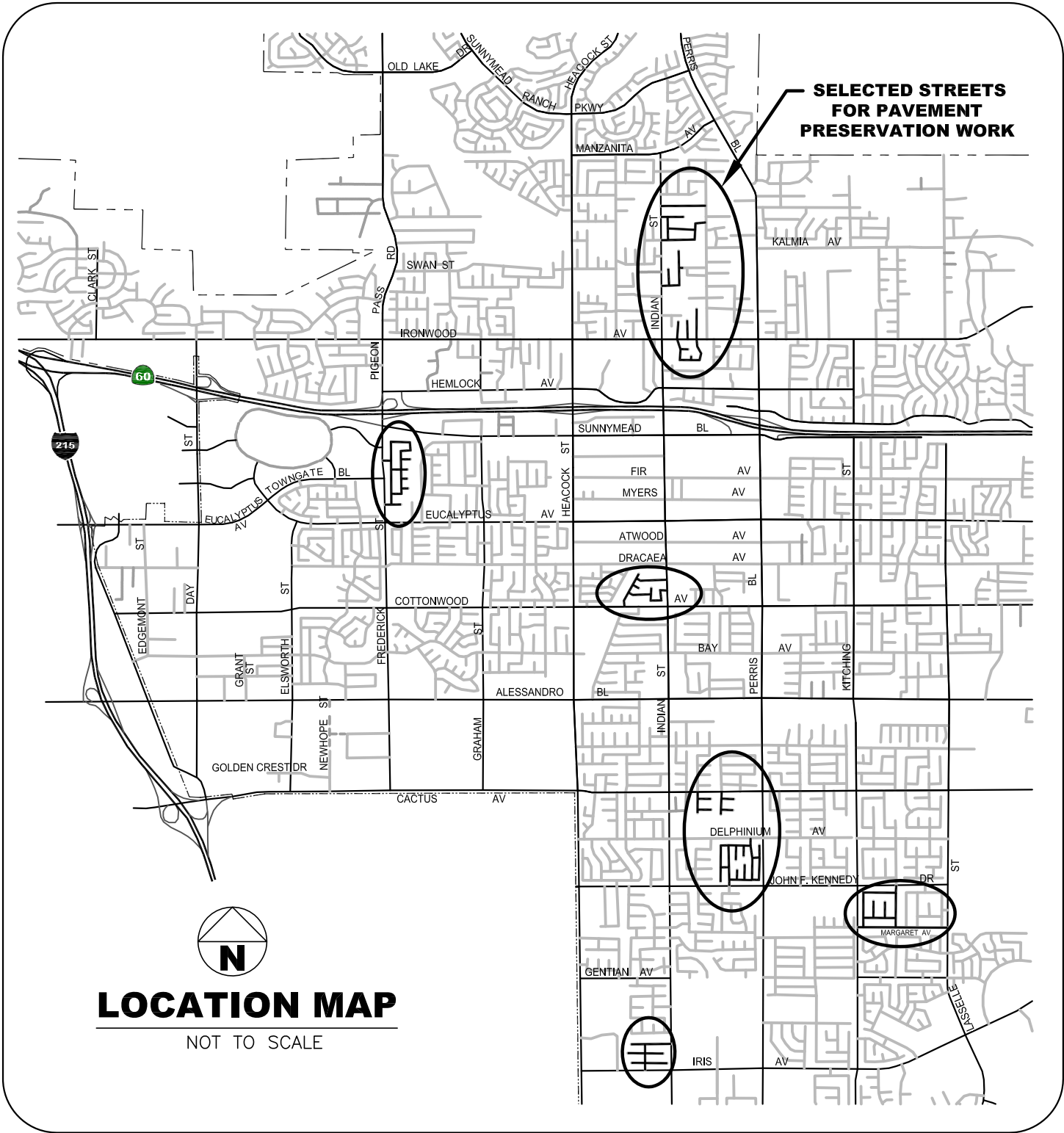
1. Economic Development
2. Public Safety
3. Library
4. Infrastructure
5. Beautification, Community Engagement, and Quality of Life
6. Youth Programs

ATTACHMENTS

1. Location Map
2. Agreement

APPROVALS

Budget Officer Approval	<u>✓ Approved</u>	5/28/19 7:27 AM
City Attorney Approval	<u>✓ Approved</u>	5/28/19 10:38 AM
City Manager Approval	<u>✓ Approved</u>	5/30/19 1:22 PM



Attachment: Location Map (3567 : AUTHORIZATION TO AWARD CONSTRUCTION CONTRACT TO AMERICAN ASPHALT SOUTH, INC. FOR

AGREEMENT**PROJECT NO. 801 0082
Pavement Rehabilitation for Various Local Streets - CDBG FY 18/19**

THIS Agreement, effective as of the date signed by the City of Moreno Valley by and between the City of Moreno Valley, a municipal corporation, County of Riverside, State of California, hereinafter called the "City" and **American Asphalt South, Inc.**, hereinafter called the "Contractor."

That the City and the Contractor for the consideration hereinafter named, agree as follows:

1. CONTRACT DOCUMENTS. The Contract Documents consist of the following, which are incorporated herein by this reference:

- A. This Agreement
- B. Any and all Contract Change Orders issued after execution of this Agreement
- C. Addenda Nos. 0 inclusive, issued prior to the opening of the Bids
- D. Federal Provisions and Requirements
- E. Any Federal Certifications, documentation and reports as required, including but not limited to Federal Contract Requirements Certification, Nonsegregated Facilities Certification, Good Faith Efforts Regarding Minority Based Enterprise (MBE) and Women Based Enterprise (WBE) Certification, Past Performance Certification, Worker's Compensation Certification, Equal Employment Opportunity Commitment, Section 3 Business Certification, Section 3 Resident Certification and Federal Lobbyist Certification.
- F. City of Moreno Valley Supplementary General Conditions
- G. The bound Contract Documents that includes City Special Provisions, General Provisions, and Technical Provisions.
- H. Standard Specifications for Public Works Construction ("Greenbook") – latest edition in effect at the Bid Deadline, as modified by the City Special Provisions
- I. Reference Specifications/Reference Documents other than those listed in paragraph 2, below.
- J. Project Plans
- K. City Standard Plans
- L. Caltrans Standard Plans
- M. Governmental approvals, including, but not limited to, permits required for the Work
- N. Contractor's Labor and Materials Payment Bond
- O. Contractor's Faithful Performance Bond
- P. Contractor's Certificates of Insurance and Additional Insured Endorsements
- Q. Contractor's Bidder's Proposal, Subcontractor and Material Supplier Listing

In the event of conflict between any of the Contract Documents, the provisions placing a more stringent requirement on the Contractor shall prevail. The Contractor shall provide the better quality or greater quantity of Work and/or materials unless otherwise directed by City in writing. In the event none of the Contract Documents place a more stringent requirement or greater

burden on the Contractor, the controlling provision shall be that which is found in the document with higher precedence in accordance with the above order of precedence.

2. REFERENCE DOCUMENTS. The following Reference Documents are not considered Contract Documents and are made available to the Contractor for informational purposes:

None

3. SCOPE OF WORK. The Contractor shall perform and provide all materials, tools, equipment, labor, and services necessary to complete the Work described in the Contract Documents, except as otherwise provided in the Plans, Standard Specifications, or City Special Provisions to be the responsibility of others.

4. PAYMENT.

4.1. Contract Price and Basis for Payment. In consideration for the Contractor’s full, complete, timely, and faithful performance of the Work required by the Contract Documents, the City shall pay Contractor for the actual quantity of Work required under the Base Bid Items awarded by the City performed in accordance with the lump sum prices and unit prices for Base Bid Items and Alternate Additive Bid Items. The sum of the unit prices and lump sum prices for the Base Bid Items and Alternate Additive Bid Items awarded by the City is **Four Hundred Seventy Five Thousand Six Hundred Sixty Three and 50/100 Dollars (\$475,663.50)** (“Contract Price”). It is understood and agreed that the quantities set forth in the Bidder’s Proposal for which unit prices are fixed are estimates only and that City will pay and Contractor will accept, as full payment for these items of work, the unit prices set forth in the Bidder’s Proposal multiplied by the actual number of units performed, constructed, or completed as directed by the City Engineer.

4.2. Payment Procedures. Based upon applications for payment submitted by the Contractor to the City, the City shall make payments to the Contractor in accordance with Section 7 of the Standard Specifications, as modified by Section 7 of the City Special Provisions.

5. CONTRACT TIME.

A. Contract Time. The Contract Time shall be determined in accordance with the following:

Base Bid	45 Working Days
Alternate Additive Bid	15 Working Days

B. Initial Notice to Proceed. After the Agreement has been fully executed by the Contractor and the City, the City shall issue the “Notice to Proceed to Fulfill Preconstruction Requirements. The date specified in the Notice to Proceed to Fulfill Preconstruction Requirements constitutes the date of commencement of the Contract Time of **Sixty (60) Working Days for Base Bid plus Alternate Bid.** The Contract Time includes the time necessary to fulfill preconstruction requirements, and to complete construction of the Project (except as adjusted by subsequent Change Orders).

The Notice to Proceed to Fulfill Preconstruction Requirements shall further specify that Contractor must complete the preconstruction requirements within **Ten (10) Working Days** after the date of commencement of the Contract Time; this duration is part of the Contract Time.

Preconstruction requirements include, but are not limited to, the following:

- Submitting and obtaining approval of Traffic Control Plans
- Submitting and obtaining approval of the Stormwater Pollution Prevention Plan (SWPPP)/Water Pollution Control Plan (WPCP)
- Submitting and obtaining approval of critical required submittals
- Obtaining an approved no fee Encroachment Permit
- Notifying all agencies, utilities, residents, etc., as outlined in the Contract Documents

If the City's issuance of a Notice to Proceed to Fulfill Preconstruction Requirements is delayed due to Contractor's failure to return the fully executed Agreement and insurance and bond documents within ten (10) Working Days after Contract award, then Contractor agrees to the deduction of one (1) Working Day from the number of days to complete the Project for every Working Day of delay in the City's receipt of said documents. This right is in addition to and does not affect the City's right to demand forfeiture of Contractor's Bid Security if Contractor persistently delays in providing the required documentation.

C. Notice to Proceed with Construction. After all preconstruction requirements are met and materials have been ordered in accordance with the Notice to Proceed to Fulfill Preconstruction Requirements, the City shall issue the "Notice to Proceed with Construction," at which time the Contractor shall diligently prosecute the Work, including corrective items of Work, day to day thereafter, within the remaining Contract Time.

6. LIQUIDATED DAMAGES AND CONTROL OF WORK.

6.1. **Liquidated Damages.** The Contractor and City (collectively, the "Parties") have agreed to liquidate damages with respect to Contractor's failure to fulfill the preconstruction requirements, and/or failure to complete the Work within the Contract Time. The Parties intend for the liquidated damages set forth herein to apply to this Contract as set forth in Government Code Section 53069.85. Contractor acknowledges and agrees that the liquidated damages are intended to compensate the City solely for Contractor's failure to meet the deadline for completion of the Work and will not excuse Contractor from liability from any other breach, including any failure of the Work to conform to the requirements of the Contract Documents.

In the event that Contractor fails to fulfill the preconstruction requirements and/or fails to complete the Work within the Contract Time, Contractor agrees to pay the City **\$900.00 per Calendar day** that completion of the Work is delayed beyond the Contract Time, as adjusted by Contract Change Orders. The Contractor will not be assessed liquidated damages for delays occasioned by the failure of the City or of the owner of a utility to provide for the removal or relocation of utility facilities.

The Contractor and City acknowledge and agree that the foregoing liquidated damages have been set based on an evaluation of damages that the City will incur in the event of late completion of the Work. The Contractor and City acknowledge and agree that the amount of such damages are impossible to ascertain as of the date of execution hereof and have agreed to such liquidated damages to fix the City's damages and to avoid later disputes. It is understood and agreed by

Standard Form of Agreement
00500-3

Contractor that liquidated damages payable pursuant to this Agreement are not a penalty and that such amounts are not manifestly unreasonable under the circumstances existing as of the date of execution of this Agreement.

It is further mutually agreed that the City will have the right to deduct liquidated damages against progress payments or retainage and that the City will issue a Change Order or Construction Change Directive and reduce the Contract Price accordingly. In the event the remaining unpaid Contract Price is insufficient to cover the full amount of liquidated damages, Contractor shall pay the difference to the City.

6.2. **Owner is Exempt from Liability for Early Completion Delay Damages.** While the Contractor may schedule completion of all of the Work, or portions thereof, earlier than the Contract Time, the Owner is exempt from liability for and the Contractor will not be entitled to an adjustment of the Contract Sum or to any additional costs, damages, including, but not limited to, claims for extended general conditions costs, home office overhead, jobsite overhead, and management or administrative costs, or compensation whatsoever, for use of float time or for Contractor's inability to complete the Work earlier than the Contract Time for any reason whatsoever, including but not limited to, delay cause by Owner or other Excusable Compensable Delay. See Section 6-4 of the Standard Specifications and City Special Provisions regarding compensation for delays.

6.3. Any work completed by the Contractor after the issuance of a Stop Work Notice by the City shall be rejected and/or removed and replaced as specified in Section 3-5 of the City Special Provisions.

7. INSURANCE.

7.1. **General.** The Contractor shall procure and maintain at its sole expense and throughout the term of this Agreement, any extension thereof, Commercial General Liability, Automobile Liability, and Workers' Compensation Insurance with such coverage limits as described herein.

7.2. **Additional Insured Endorsements.** The Contractor shall cause the insurance required by the Contract Document to include the City of Moreno Valley, the City Council and each member thereof, the Moreno Valley Housing Authority (MVHA), and the Moreno Valley Community Services District (CSD), and their respective officials, employees, commission members, officers, directors, agents, employees, volunteers and representatives as an additional insureds. For the Commercial General Liability coverage, said parties shall be named as additional insureds utilizing either:

1. Insurance Services Office ("ISO") Additional Insured endorsement CG 20 10 (11/85); or
2. ISO Additional Insured endorsement CG 20 10 (10/01) and Additional Insured Completed Operations endorsement CG 20 37 (10/01); or
3. Substitute endorsements providing equivalent coverage, approved by the City.

The endorsements shall be signed by a person authorized by the insurer to bind coverage on its behalf. The coverage shall contain no special limitations on the scope of protection afforded to such additional insureds. Coverage for such additional insureds does not extend to liability to the extent prohibited by Insurance Code Section 11580.4.

7.3. Waivers of Subrogation. All policies of insurance required by the Contract Documents shall include or be endorsed to provide a waiver by the insurers of any rights of recovery or subrogation that the insurers may have at any time against the City of Moreno Valley, the City Council and each member thereof, the Moreno Valley Housing Authority (MVHA), and the Moreno Valley Community Services District (CSD), and their respective officials, employees, commission members, officers, directors, agents, employees, volunteers and representatives.

7.4. Primary Coverage. All policies and endorsements shall stipulate that the Contractor's (and the Subcontractors') insurance coverage shall be primary insurance as respects the City of Moreno Valley, the City Council and each member thereof, the Moreno Valley Housing Authority (MVHA), and the Moreno Valley Community Services District (CSD), and their respective officials, employees, commission members, officers, directors, agents, employees, volunteers and representatives, and shall be excess of the Contractor's (and its Subcontractors') insurance and shall not contribute with it.

7.5. Coverage Applies Separately to Each Insured and Additional Insured. Coverage shall state that the Contractor's (and its Subcontractors') insurance shall apply separately to each insured or additional insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability. Coverage shall apply to any claim or suit brought by an additional insured against a named insured or other insured.

7.6. Self-Insurance. Any self-insurance (including deductibles or self-insured retention in excess of \$50,000) in lieu of liability insurance must be declared by Contractor and approved by the City in writing prior to execution of the Agreement. The City's approval of self-insurance, if any, is within the City's sole discretion and is subject to the following conditions:

1. Contractor must, at all times during the term of the Agreement and for a period of at least **one (1)** year after completion of the Project and any extension of the one-year correction guarantee period in accordance with section 6-8.1 of the City Special Provisions, maintain and upon Owner's reasonable request provide evidence of:
 - (a) Contractor's "net worth" (defined as "total assets" [defined as all items of value owned by the Contractor including tangible items such as cash, land, personal property and equipment and intangible items such as copyrights and business goodwill]) minus total outside liabilities must be reflected in a financial statement for the prior fiscal year reflecting sufficient income and budget for Contractor to afford at least one loss in an amount equal to the amount of self-insurance;
 - (b) Financial statements showing that Contractor has funds set aside/budgeted to finance the self-insured fund (i.e., Contractor has a program that fulfills functions that a primary insurer would fill; and

- (c) A claims procedure that identifies how a claim is supposed to be tendered to reach the financing provided by the self-insured fund.
2. If at any time after such self-insurance has been approved Contractor fails to meet the financial thresholds or otherwise fails to comply with the provisions set forth in this Paragraph 7, at the option of the City:
- (a) The Contractor shall immediately obtain and thereafter maintain the third party insurance required under this Paragraph 7 and otherwise on the terms required above; or
 - (b) The insurer shall reduce or eliminate such deductibles or self-insured retention as respects the City, its officers, officials, employees and volunteers; or
 - (c) The Contractor shall procure a bond guaranteeing payment of losses and related investigation, claim administration, and defense expenses.

7.7. Insurer Financial Rating. Insurance companies providing insurance hereunder shall be rated A-VII or better in Best's Insurance Rating Guide and shall be legally licensed and qualified to conduct insurance business in the State of California.

7.8. Notices to City of Cancellation or Changes. Each insurance policy described in this Paragraph 7 shall contain a provision or be endorsed to state that coverage will not be cancelled without **thirty (30) days'** prior written notice by certified or registered mail to the City (this obligation may be satisfied in the alternative by requiring such notice to be provided by Contractor's insurance broker and set forth on its Certificate of Insurance provided to the City), except that cancellation for non-payment of premium shall require (10) days prior written notice by certified or registered mail. If an insurance carrier cancels any policy or elects not to renew any policy required to be maintained by Contractor pursuant to the Contract Documents, Contractor agrees to give written notice to the City at the address indicated on the first page of the Agreement. Contractor agrees to provide the same notice of cancellation and non-renewal to the City that is required by such policy(ies) to be provided to the First Named Insured under such policy(ies). Contractor shall provide confirmation that the required policies have been renewed not less than seven (7) days prior to the expiration of existing coverages and shall deliver renewal or replacement policies, certificates and endorsements to the City Clerk within fourteen (14) days of the expiration of existing coverages. Contractor agrees that upon receipt of any notice of cancellation or alteration of the policies, Contractor shall procure within five (5) days, other policies of insurance similar in all respects to the policy or policies to be cancelled or altered. Contractor shall furnish to the City Clerk copies of any endorsements that are subsequently issued amending coverage or limits within fourteen (14) days of the amendment.

7.9. Commercial General Liability. Coverage shall be written on an ISO Commercial General Liability "occurrence" form CG 00 01 (10/01 or later edition) or equivalent form approved by the City for coverage on an occurrence basis. The insurance shall cover liability, including, but not limited to, that arising from premises operations, stop gap liability, independent contractors, products-completed operations, personal injury, advertising injury, and liability assumed under an insured contract. The policy shall be endorsed to provide the Aggregate Per Project Endorsement ISO form CG 25 03 (11/85). Coverage shall contain no contractors' limitation

or other endorsement limiting the scope of coverage for liability arising from pollution, explosion, collapse, or underground (x, c, u) property damage. Contractor shall provide Products/Completed Operations coverage to be maintained continuously for a minimum of **one (1) year** after Final Acceptance of the Work, and any extension of the one-year correction guarantee period in accordance with Section 3-13.3 of the City Special Provisions.

Contractor shall maintain Commercial General Liability insurance with the following minimum limits: \$1,000,000 per occurrence / \$2,000,000 aggregate / \$2,000,000 products-completed operations.

7.10. **Business Automobile Liability.** Coverage shall be written on ISO form CA 00 01 (12/93 or later edition) or a substitute form providing equivalent coverage for owned, hired, leased and non-owned vehicles, whether scheduled or not, with \$1,000,000 combined single limit per accident for bodily injury and property damage. If necessary, the policy shall be endorsed to provide contractual liability coverage.

7.11. **Workers' Compensation.** Contractor shall comply with the applicable sections of the California Labor Code concerning workers' compensation for injuries on the job. Compliance is accomplished in one of the following manners:

1. Provide copy of permissive self-insurance certificate approved by the State of California; or
2. Secure and maintain in force a policy of workers' compensation insurance with statutory limits and Employer's Liability Insurance with a minimal limit of **\$1,000,000** per accident; or
3. Provide a "waiver" form certifying that no employees subject to the Labor Code's Workers' Compensation provision will be used in performance of this Contract.

7.12. **Subcontractors' Insurance.** The Contractor shall include all Subcontractors as insureds under its policies or shall furnish separate certificates and endorsements for each Subcontractor. All coverages for Subcontractors shall be subject to all of the requirements stated herein.

8. **BONDS.** The Contractor shall furnish a satisfactory Performance Bond meeting all statutory requirements of the State of California on the form provided by the City. The bond shall be furnished as a guarantee of the faithful performance of the requirements of the Contract Documents as may be amended from time to time, including, but not limited to, liability for delays and damages (both direct and consequential) to the City and the City's Separate Contractors and consultants, warranties, guarantees, and indemnity obligations, in an amount that shall remain equal to one hundred percent (100%) of the Contract Price.

The Contractor shall furnish a satisfactory Labor and Materials Payment Bond meeting all statutory requirements of the State of California on the form provided by the City in an amount that shall remain equal to one hundred percent (100%) of the Contract Price to secure payment of all claims, demands, stop notices, or charges of the State of California, of material suppliers, mechanics, or laborers employed by the Contractor or by any Subcontractor, or any person, firm, or entity eligible to file a stop notice with respect to the Work.

All bonds shall be executed by a California-admitted surety insurer. Bonds issued by a California-admitted surety insurer listed on the latest version of the U.S Department of Treasury Circular 570 shall be deemed accepted unless specifically rejected by the City. Bonds issued by sureties not listed in Treasury Circular 570 must be accompanied by all documents enumerated in California Code of Civil Procedure Section 995.660(a). The bonds shall bear the same date as the Contract. The attorney-in-fact who executes the required bonds on behalf of the surety shall affix thereto a certified and current copy of the power of attorney. In the event of changes that increase the Contract Price, the amount of each bond shall be deemed to increase and at all times remain equal to the Contract Price. The signatures shall be acknowledged by a notary public. Every bond must display the surety's bond number and incorporate the Contract for construction of the Work by reference. The terms of the bonds shall provide that the surety agrees that no change, extension of time, alteration, or modification of the Contract Documents or the Work to be performed thereunder shall in any way affect its obligations and shall waive notice of any such change, extension of time, alteration, or modification of the Contract Documents. The surety further agrees that it is obligated under the bonds to any successor, grantee, or assignee of the City.

Upon the request of any person or entity appearing to be a potential beneficiary of bonds covering payment of obligations arising under the Contract, the Contractor shall promptly furnish a copy of the bonds or shall authorize a copy to be furnished.

Should any bond become insufficient, or should any of the sureties, in the opinion of the City, become non-responsible or unacceptable, the Contractor shall, within ten (10) Calendar Days after receiving notice from the City, provide written documentation to the Satisfaction of the City that Contractor has secured new or additional sureties for the bonds; otherwise the Contractor shall be in default of the Contract. No further payments shall be deemed due or will be made under Contract until a new surety(ies) qualifies and is accepted by the City.

Contractor agrees that the Labor and Materials Payment Bond and Faithful Performance Bond attached to this Agreement are for reference purposes only, and shall not be considered a part of this Agreement. Contractor further agrees that said bonds are separate obligations of the Contractor and its Surety, and that any attorney's fee provision contained in any payment bond or performance bond shall not apply to this Agreement. In the event there is any litigation between the parties arising from the breach of this Agreement, each party will bear its own attorneys' fees in the litigation.

9. RECORDS. The Contractor and its Subcontractors shall maintain and keep books, payrolls, invoices of materials, and Project records current, and shall record all transactions pertaining to the Contract in accordance with generally acceptable accounting principles. Said books and records shall be made available to the City of Moreno Valley, Riverside County, the State of California, the Federal Government, and to any authorized representative thereof for purposes of audit and inspection at all reasonable times and places. All such books, payrolls, invoices of materials, and records shall be retained for at least five (5) years after Final Acceptance.

10. INDEMNIFICATION.

10.1. General. To the fullest extent permitted by law, the Contractor assumes liability for and agrees, at the Contractor's sole cost and expense, to promptly and fully indemnify, protect, hold harmless and defend (even if the allegations are false, fraudulent, or groundless), the City of

Moreno Valley, its City Council, the Moreno Valley Housing Authority (MVHA), and the Moreno Valley Community Services District (CSD), and all of their respective officials, officers, directors, employees, commission members, representatives and agents (“Indemnitees”), from and against any and all claims, allegations, actions, suits, arbitrations, administrative proceedings, regulatory proceedings, or other legal proceeds, causes of action, demands, costs, judgments, liens, stop notices, penalties, liabilities, damages, losses, anticipated losses of revenues, and expenses (including, but not limited to, any fees of accountants, attorneys, experts or other professionals, or investigation expenses), or losses of any kind or nature whatsoever, whether actual, threatened or alleged, arising out of, resulting from, or in any way (either directly or indirectly), related to the Work, the Project or any breach of the Contract by Contractor or any of its officers, agents, employees, Subcontractors, Sub-subcontractors, or any person performing any of the Work, pursuant to a direct or indirect contract with the Contractor (“Indemnity Claims”). Such Indemnity Claims include, but are not limited to, claims for:

- A. Any activity on or use of the City’s premises or facilities;
- B. Any liability incurred due to Contractor acting outside the scope of its authority pursuant to the Contract, whether or not caused in part by an Indemnified Party;
- C. The failure of Contractor or the Work to comply with any Applicable Law, permit or orders;
- D. Any misrepresentation, misstatement or omission with respect to any statement made in the Contract Documents or any document furnished by the Contractor in connection therewith;
- E. Any breach of any duty, obligation or requirement under the Contract Documents, including, but not limited to any breach of Contractor’s warranties, representations or agreements set forth in the Contract Documents;
- F. Any failure to coordinate the Work with City’s Separate Contractors;
- G. Any failure to provide notice to any party as required under the Contract Documents;
- H. Any failure to act in such a manner as to protect the Project from loss, cost, expense or liability;
- I. Bodily or personal injury, emotional injury, sickness or disease, or death at any time to any persons including without limitation employees of Contractor;
- J. Damage or injury to real property or personal property, equipment and materials (including, but without limitation, property under the care and custody of the Contractor or the City) sustained by any person or persons (including, but not limited to, companies, corporations, utility company or property owner, Contractor and its employees or agents, and members of the general public);
- K. Any liability imposed by Applicable Law including, but not limited to criminal or civil fines or penalties;
- L. Any dangerous, hazardous, unsafe or defective condition of, in or on the Site, of any nature whatsoever, which may exist by reason of any act, omission, neglect, or any use or occupation of the Site by Contractor, its officers, agents, employees, or Subcontractors;
- M. Any operation conducted upon or any use or occupation of the Site by Contractor, its officers, agents, employees, or Subcontractors under or pursuant to the provisions of the Contract or otherwise;

- N. Any acts, errors, omission or negligence of Contractor, its officers, agents, employees, or Subcontractors;
- O. Infringement of any patent rights, licenses, copyrights or intellectual property which may be brought against the Contractor or Owner arising out of Contractor's Work, for which the Contractor is responsible; and
- P. Any and all claims against the City seeking compensation for labor performed or materials used or furnished to be used in the Work or alleged to have been furnished on the Project, including all incidental or consequential damages resulting to the City from such claims.

10.2. **Effect of Indemnitees' Active Negligence.** Contractor's obligations to indemnify and hold the Indemnitees harmless **exclude** only such portion of any Indemnity Claim which is attributable to the active negligence or willful misconduct of the Indemnitee, provided such active negligence or willful misconduct is determined by agreement of the parties or by findings of a court of competent jurisdiction. In instances where an Indemnitee's active negligence accounts for only a percentage of the liability for the Indemnity Claim involved, the obligation of Contractor will be for that entire percentage of liability for the Indemnity Claim not attributable to the active negligence or willful misconduct of the Indemnitee(s). Such obligation shall not be construed to negate, abridge or otherwise reduce any other right or obligation of indemnity which would otherwise exist as to any party or person described in this Paragraph 10. Subject to the limits set forth herein, the Contractor, at its own expense, shall satisfy any resulting judgment that may be rendered against any Indemnitee resulting from an Indemnity Claim. The Indemnitees shall be consulted with regard to any proposed settlement.

10.3. **Independent Defense Obligation.** The duty of the Contractor to indemnify and hold harmless the Indemnitees includes the separate and independent duty to defend the Indemnitees, which duty arises immediately upon receipt by Contractor of the tender of any Indemnity Claim from an Indemnitee. The Contractor's obligation to defend the Indemnitee(s) shall be at Contractor's sole expense, and not be excused because of the Contractor's inability to evaluate liability or because the Contractor evaluates liability and determines that the Contractor is not liable. This duty to defend shall apply whether or not an Indemnity Claim has merit or is meritless, or which involves claims or allegations that any or all of the Indemnitees were actively, passively, or concurrently negligent, or which otherwise asserts that the Indemnitees are responsible, in whole or in part, for any Indemnity Claim. The Contractor shall respond within thirty (30) Calendar Days to the tender of any Indemnity Claim for defense and/or indemnity by an Indemnitee, unless the Indemnitee agrees in writing to an extension of this time. The defense provided to the Indemnitees by Contractor shall be by well qualified, adequately insured and experienced legal counsel acceptable to the City.

10.4. **Intent of Parties Regarding Scope of Indemnity.** It is the intent of the parties that the Contractor and its Subcontractors of all tiers shall provide the Indemnitees with the broadest defense and indemnity permitted by Applicable Law. In the event that any of the defense, indemnity or hold harmless provisions in the Contract Documents are found to be ambiguous, or in conflict with one another, it is the parties' intent that the broadest and most expansive interpretation in favor of providing defense and/or indemnity to the Indemnitees be given effect.

10.5. **Waiver of Indemnity Rights Against Indemnitees.** With respect to third party claims against the Contractor, to the fullest extent permitted by law, the Contractor waives any and all rights to any type of express or implied indemnity against the Indemnitees.

10.6. Subcontractor Requirements. In addition to the requirements set forth hereinabove, Contractor shall ensure, by written subcontract agreement, that each of Contractor's Subcontractors of every tier shall protect, defend, indemnify and hold harmless the Indemnitees with respect to Indemnity Claims arising out of, in connection with, or in any way related to each such Subcontractors' Work on the Project in the same manner in which Contractor is required to protect, defend, indemnify and hold the Indemnitees harmless. In the event Contractor fails to obtain such defense and indemnity obligations from others as required herein, Contractor agrees to be fully responsible to the Indemnitees according to the terms of this Paragraph 10.

10.7. No Limitation or Waiver of Rights. Contractor's obligations under this Paragraph 10 are in addition to any other rights or remedies which the Indemnitees may have under the law or under the Contract Documents. Contractor's indemnification and defense obligations set forth in this Paragraph 10 are separate and independent from the insurance provisions set forth in the Contract Documents, and do not limit, in any way, the applicability, scope, or obligations set forth in such insurance provisions. The purchase of insurance by the Contractor with respect to the obligations required herein shall in no event be construed as fulfillment or discharge of such obligations. In any and all claims against the Indemnitees by any employee of the Contractor, any Subcontractor, any supplier of the Contractor or Subcontractors, anyone directly or indirectly employed by any of them, or anyone for whose acts any of them may be liable, the obligations under this Paragraph 10 shall not be limited in any way by any limitation on the amount or type of damages, compensation or benefits payable by or for the Contractor or any Subcontractor or any supplier of either of them, under workers' or workmen's compensation acts, disability benefit acts or other employee benefit acts. Failure of the City to monitor compliance with these requirements imposes no additional obligations on the City and will in no way act as a waiver of any rights hereunder.

10.8. Withholding to Secure Obligations. In the event an Indemnity Claim arises prior to final payment to Contractor, the City may, in its sole discretion, reserve, retain or apply any monies due Contractor for the purpose of resolving such Indemnity Claims; provided, however, the City may release such funds if the Contractor provides the City with reasonable assurances of protection of the Indemnitees' interests. The City shall, in its sole discretion, determine whether such assurances are reasonable.

10.9. Survival of Indemnity Obligations. Contractor's obligations under this Paragraph 10 are binding on Contractor's and its Subcontractors' successors, heirs and assigns and shall survive the completion of the Work or termination of the Contractor's performance of the Work.

11. FEDERAL REQUIREMENTS. If the Contractor or Subcontractor is performing work on Section 3, Housing and Urban Development Act of 1968, projects for which the amount of the assistance exceeds \$200,000 and the contract or subcontract exceeds \$100,000:

11.1 The work to be performed under this contract is subject to the requirements of Section 3 of the Housing and Urban Development Act of 1968, as amended, 12 U.S.C. 1701u (Section 3). The purpose of Section 3 is to ensure that employment and other economic opportunities generated by HUD assistance or HUD-assisted projects covered by Section 3, shall, to the greatest extent feasible, be directed to low- and very low-income persons, particularly persons who are recipients of HUD assistance for housing.

11.2 The parties to this contract agree to comply with HUD's regulations in 24 CFR part 135, which implements Section 3. As evidenced by their execution of this contract, the parties to this contract certify that they are under no contractual or other impediment that would prevent them from complying with the part 135 regulations.

11.3 The contractor agrees to send to each labor organization or representative of workers with which the contractor has a collective bargaining agreement or other understanding, if any, a notice advising the labor organization or workers' representative of the contractor's commitments under this Section 3 clause, and will post copies of the notice in conspicuous places at the work site where both employees and applicants for training and employment positions can see the notice. The notice shall describe the Section 3 preference, shall set forth minimum number and job titles subject to hire, availability of apprenticeship and training positions, the qualifications for each; and the name and location of the person(s) taking applications for each of the positions; and the anticipated date the work shall begin.

11.4 The contractor agrees to include this Section 3 Clause in every subcontract subject to compliance with regulations in 24 CFR part 135, and agrees to take appropriate action, as provided in an applicable provision of the subcontract or in this Section 3 Clause, upon a finding that the subcontractor is in violation of the regulations in 24 CFR part 135. The contractor will not subcontract with any subcontractor where the contractor has notice or knowledge that the subcontractor has been found in violation of the regulations in 24 CFR part 135.

11.5 The contractor will certify that any vacant employment positions, including training positions, that are filled (1) after the contractor is selected but before the contract is executed, and (2) with persons other than those to whom the regulations of 24 CFR part 135 require employment opportunities to be directed, were not filled to circumvent the contractor's obligations under 24 CFR part 135.

11.6 Noncompliance with HUD's regulations in 24 CFR part 135 may result in sanctions, termination of this contract for default, and debarment or suspension from future HUD assisted contracts.

11.7 With respect to work performed in connection with Section 3 covered Indian housing assistance, Section 7(b) of the Indian Self-Determination and Education Assistance Act (25 U.S.C. 450e) also applies to the work to be performed under this contract. Section 7(b) requires that to the greatest extent feasible (i) preference and opportunities for training and employment shall be given to Indians, and (ii) preference in the award of contracts and subcontracts shall be given to Indian organizations and Indian-owned Economic Enterprises. Parties to this contract that are subject to the provisions of Section 3 and Section 7(b) agree to comply with Section 3 to the maximum extent feasible, but not in derogation of compliance with Section 7(b).

12. SUCCESSORS AND ASSIGNS. The Parties bind themselves, their heirs, executors, administrators, successors and assigns the covenants, agreements and obligations contained in the Contract Documents. The Contractor shall not, either voluntarily or by action of law, assign any right or obligation of the Contractor under the Contract Documents without prior written consent of the City.

(SIGNATURE PAGE FOLLOWS)

Attachment: Agreement (3567 : AUTHORIZATION TO AWARD CONSTRUCTION CONTRACT TO AMERICAN ASPHALT SOUTH, INC. FOR

CITY OF MORENO VALLEY, Municipal Corporation

American Asphalt South, Inc.

BY: _____
Thomas M. DeSantis, City Manager

License No./
Classification: _____

DATE: _____

Expiration Date: _____

Federal I.D. No.: _____

<u>INTERNAL USE ONLY</u>	
APPROVED AS TO LEGAL FORM:	
_____	City Attorney
_____	Date
RECOMMENDED FOR APPROVAL:	
_____	Public Works Director/City Engineer
_____	Date
_____	Chief Financial Officer / City Treasurer
_____	Date

PRINT NAME: _____

SIGNATURE: _____

TITLE: _____

DATE: _____

PRINT NAME: _____

SIGNATURE: _____

TITLE: _____

DATE: _____

SIGNING INSTRUCTIONS TO THE CONTRACTOR:

Signature(s) must be accompanied by a completed notary certificate of acknowledgement attached hereto. A general partner must sign on behalf of a partnership. **Two (2)** corporate officers must sign on behalf of a corporation unless the corporation has a corporate resolution that allows one person to sign on behalf of the corporation; if applicable, said resolution must be attached hereto. The corporate seal may be affixed hereto.

Attachment: Agreement (3567 : AUTHORIZATION TO AWARD CONSTRUCTION CONTRACT TO AMERICAN ASPHALT SOUTH, INC. FOR



Report to City Council

TO: Mayor and City Council

FROM: Marshall Eyerman, Chief Financial Officer
Mike Lee, Economic Development Director

AGENDA DATE: June 4, 2019

TITLE: APPROVE A PROFESSIONAL SERVICES AGREEMENT WITH ROBERT E. CENDEJAS AND ASSOCIATES, INC. FOR ECONOMIC DEVELOPMENT AND SALES TAX CONSULTING SERVICES.

RECOMMENDED ACTION

Recommendation:

1. Approve the Professional Services Agreement with Robert E. Cendejas and Associates, Inc. for economic development and sales tax consulting services.
2. Authorize the City Manager to execute the Agreement.

SUMMARY

Sales tax proves to be one of the City's largest revenue sources. As indicated in the Fiscal Year 2018/19 amended budget, sales tax revenue is projected to be roughly \$19.9 million or nearly 18% of the General Fund revenues. As opposed to development related revenue, sales tax revenue is a continuous source of funding that facilitates the delivery of essential services in the City of Moreno Valley. Hence, optimizing the City's ability to draw major businesses to Moreno Valley will help realize a significant increase to our current revenue totals thereby enhancing our ability to serve the public.

The Professional Services Agreement with Robert E. Cendejas and Associates, Inc. to provide economic development and sales tax consulting services was presented to the Economic Development Subcommittee on May 14, 2019 for discussion.

DISCUSSION

In addition to HdL (sales tax monitoring and reporting), the City has the opportunity to engage the services of Robert E. Cendejas and Associates, Inc. (Cendejas) to explore opportunities to

increase sales tax revenues through increased economic development.

Cendejas specializes in sales and use tax allocation matters and partners with cities to recruit and consolidate major sales tax generating businesses. Typically, these recruitment efforts focus on administrative points of sale locations rather than brick and mortar store fronts with direct sales to customers.

The City of Moreno Valley is fortunate to be located in the Inland Empire and adjacent to both the 60 and 215 Interstate Freeway. The City's prime location lends for Moreno valley to be a premier destination for businesses to expand both in size and commerce. To maximize the City's use of our ideal location, the City is recommending contracting with Cendejas for sales tax consulting services.

Cendejas has worked successfully with the cities of Ontario, Corona, Signal Hill, Dinuba, Shafter, Chino and Cypress to recruit and centralize major sales tax generating businesses. With experience in working with Fortune 500 companies and representing cities before the California Department of Tax and Fee Administration ("CDTFA"), Cendejas proves to be flexible and well suited to bring forth large sale's tax revenues to a given city. Should the City Council approve this professional services agreement, Cendejas would be responsible for recruiting businesses, advise the City on their business operations and sales process, negotiate the terms of a "location agreement," propose specific incentives for the business to operate in Moreno Valley, and ensure compliance with the provisions of a given location agreement.

A successful recruitment effort would result in the City Council considering a location agreement with the business interested in locating in the city. Typically, location agreements identify a range of expected sales tax revenues and incentives for the business. Cendejas reports location agreements often last for 10 years or more, providing a stable long-term revenue stream to the city. Often, the location agreements facilitate the consolidation of a number of small sales tax generating offices into a centralized location or establishing a fixed location for sales taxes. The City Council will have sole discretion on whether to approve a location agreement.

ALTERNATIVES

1. Approve the Professional Services Agreement with Robert E. Cendejas and Associates, Inc. to provide economic development and sales tax consulting services. *Staff recommends these services to assist with economic development and the capture of additional sales tax revenues.*
2. Do not approve Professional Services Agreement with Robert E. Cendejas and Associates, Inc. to provide economic development and sales tax consulting services. *Staff does not recommend this alternative, as it would restrict the City's ability to identify and capture additional sales tax revenues.*

FISCAL IMPACT

Should the City Council authorize the Professional Services Agreement, Cendejas would receive 10% to 20% of the net sales tax revenue received by the City as a result of the location agreement. Payments would be made one hundred fifty (150) days after the City received its quarterly sales tax payment to capture any adjustments of revenue directed by the CDTFA. If

the City Council votes to deny any location agreement, Cendejas would receive no compensation from the City.

NOTIFICATION

Publication of the Agenda.

PREPARATION OF STAFF REPORT

Prepared By:
Marshall Eyerman
Chief Financial Officer

Department Head Approval:
Marshall Eyerman
Chief Financial Officer

Concurred By:
Mike Lee
Economic Development Director

CITY COUNCIL GOALS

Revenue Diversification and Preservation. Develop a variety of City revenue sources and policies to create a stable revenue base and fiscal policies to support essential City services, regardless of economic climate.

CITY COUNCIL STRATEGIC PRIORITIES

- 1. Economic Development
- 2. Public Safety
- 3. Library
- 4. Infrastructure
- 5. Beautification, Community Engagement, and Quality of Life
- 6. Youth Programs

ATTACHMENTS

- 1. Moreno Valley-Cendejas Professional Services Agreement

APPROVALS

Budget Officer Approval	<u>✓ Approved</u>	4/25/19 11:20 AM
City Attorney Approval	<u>✓ Approved</u>	5/07/19 3:22 PM
City Manager Approval	<u>✓ Approved</u>	5/10/19 5:12 PM

-DRAFT-

Contract No. _____

Approved: _____

AGREEMENT FOR CONTRACT SERVICES

THIS AGREEMENT FOR CONTRACT SERVICES (herein "Agreement") is made and entered into by and between the City of Moreno Valley, a municipal corporation of the State of California, located at 14177 Frederick Street, Moreno Valley, California 92552, County of Riverside, State of California ("City"), and ROBERT E. CENDEJAS AND ASSOCIATES, INC., a California corporation ("Consultant"). City and Consultant are sometimes hereinafter individually referred to as "Party" and hereinafter collectively referred to as the "Parties."

RECITALS

WHEREAS, Consultant is specially trained, experienced, and competent to perform the special services required by the City; and

WHEREAS, Consultant, following submission of a proposal or bid for the performance of the special services required by the City and more particularly defined and described in this Agreement, was selected by the City to perform those services; and

WHEREAS, Consultant desires to render services, as hereinafter defined, on the following terms and conditions.

NOW, THEREFORE, in consideration of the mutual agreements contained herein, and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, and intending to be legally bound hereby, the parties agree as follows:

AGREEMENT TERMS

1. Scope of Services. Subject to the terms and conditions set forth herein, Consultant shall provide to City the services described in Exhibit A, attached hereto and made a part hereof. Consultant shall provide said services at the time, place, and in the manner specified in Exhibit A under the direction of the City Manager.

2. Effective Date, Term and Extension Option. Unless earlier terminated in accordance with Section 26 of this Agreement, this Agreement shall continue in full force and effect for a term of two (2) years, except that, should Consultant obtain a Location Agreement, the term of this Agreement shall be automatically extended to be the same term as any such Location Agreement, but under no circumstances shall that

Attachment: Moreno Valley-Cendejas Professional Services Agreement [Revision 3] (3564 : Approve a Professional Services Agreement with

extension exceed twenty (20) years, unless that Location Agreement is extended by the mutual approval of the parties in writing. The City shall have the right but not the obligation, in its sole and unfettered discretion, to extend the initial term of this Agreement a maximum of one (1) extended term of two (2) years. In order to do so, City shall, not later than ninety (90) calendar days prior to the expiration of the initial term, give Consultant written notice, in the form and manner allowed by this Agreement, of its intention to extend the initial term of this Agreement for two (2) additional calendar years, which extension shall be according to the terms and conditions of this Agreement, unless the same is modified by the Parties hereto in writing signed by the party to be charged.

3. Compensation. For on-call services rendered pursuant to this Agreement, the Consultant shall be compensated in accordance with the "Schedule of Compensation" attached hereto as Exhibit B and incorporated herein by this reference."

4. Billings. All invoices shall be emailed to City Manager. City shall independently review each invoice submitted by the Consultant to determine whether the work performed and expenses incurred are in compliance with the provisions of this Agreement. Except as to any charges for work performed or expenses incurred by Consultant which are disputed by City, City will use its best efforts to cause Consultant to be paid within thirty (30) days of receipt of Consultant's correct and undisputed invoice; however, Consultant acknowledges and agrees that due to City warrant run procedures, the City cannot guarantee that payment will occur within this time period. In the event any charges or expenses are disputed by City, the original invoice shall be returned by City to Consultant for correction and resubmission. Review and payment by the City of any invoice provided by the Consultant shall not constitute a waiver of any rights or remedies provided herein or any applicable law.

5. Consultant Representations and Performance. Consultant represents that it has the skills, experience and knowledge necessary to perform the services agreed to be performed under this agreement; and it is understood that City has relied upon the Consultant's representations that it has the skills, experience and knowledge to perform required by this Agreement in a competent manner. Consultant understands the scope of the services to be performed under this agreement. Consultant warrants that it will faithfully and diligently perform the services hereunder. Consultant shall employ, as a minimum, generally accepted standards and practices employed by persons engaged in providing similar services in existence at the time of performance of its obligations hereunder.

6. Consultant Designee. This agreement contemplates the services of Consultant. The primary person(s) to provide the services described by this agreement shall be Robert Cendejas, who shall not be replaced without the prior written consent of the City Manager. Consultant shall assign only competent personnel to perform services under this agreement. If the City Manager asks Consultant to remove a person assigned to the work called for under this agreement, Consultant agrees to do so immediately, subject to City providing reasonable justification for the removal.

Consultant shall provide the City Manager with a written report each month on all work performed and all significant developments during the term hereof.

7. Abandonment by Consultant. In the event the Consultant ceases performing services under this agreement or otherwise abandons the project prior to completing all of the services described in this agreement, Consultant shall, without delay, deliver to City all materials and records prepared or obtained in the performance of this agreement.

8. Assignment and Subcontracting. The parties recognize that a substantial inducement to City for entering into this agreement was, and is, the professional reputation and competence of Consultant and its personnel. Consultant shall not assign this agreement nor any of its obligations herein without the City Manager's prior written approval. Likewise, Consultant shall not employ any subcontractor to perform any service required of Consultant hereunder.

9. Attorney's Fees. If either party to this Agreement is required to initiate or defend or made a party to any action or proceeding in any way connected with this Agreement, the prevailing party in such action or proceeding, in addition to any other relief which may be granted, whether legal or equitable, shall be entitled to reasonable attorney's fees. Attorney's fees shall include attorney's fees on any appeal, and in addition a party entitled to attorney's fees shall be entitled to all other reasonable costs for investigating such action, taking depositions and discovery and all other necessary costs the court allows which are incurred in such litigation. All such fees shall be deemed to have accrued on commencement of such action and shall be enforceable whether or not such action is prosecuted to judgment.

10. Binding Effect. This agreement shall be binding upon the parties hereto and their respective successors in interest.

11. Conflict of Interest. Consultant represents that Consultant has not employed any person to solicit or procure this agreement and that Consultant has not made, and will not make, any payment of any compensation for the procurement of this agreement. Consultant further represents and agrees that Consultant has not, and will not, acquire any interest, directly or indirectly, in any property acquired by the City during the Term of this agreement. Consultant warrants and covenants that Consultant presently has no interest in, nor shall any interest be hereinafter acquired in, any matter that will render the services required under this agreement a violation of any applicable Federal, State or local law. In the event that any conflict of interest should hereinafter arise, Consultant shall promptly notify the City's Counsel of the existence of such conflict of interest so that the City may determine whether to terminate this agreement.

12. Compliance with Laws. In the performance of this agreement, Consultant shall abide by and conform to any and all applicable laws of the United States and the State of California, and the Moreno Valley Municipal Code and all ordinances, resolutions, rules and regulations of the City. Consultant warrants that all work done

under this agreement will be in compliance with all applicable safety rules, laws, statutes, and practices, including but not limited to Cal/OSHA regulations. Consultant expressly acknowledge the Consultant is aware of the provisions of Sections 53084 and 53084.5 of the California Government Code, as they may be amended from time to time, relating to agreements that would result in the reallocation of sales and use taxes, and Consultant hereby agrees to perform the terms of this Agreement in accordance with said provisions as though such provisions were fully set forth herein.

13. Records. Consultant shall keep, and require subcontractors to keep, such books and records as shall be necessary to perform the services required by this Agreement and enable the Contract Officer to evaluate the performance of such services. The Contract Officer shall have full and free access to such books and records at all times during normal business hours of City, including the right to inspect, copy, audit and make records and transcripts from such records. Such records shall be maintained for a period of four (4) years following completion of the services hereunder, and the City shall have access to such records in the event any audit is required.

14. Governing Law. This Agreement and all matters relating to it shall be interpreted, construed and governed both as to validity and to performance of the parties in accordance with by the laws of the State of California.

15. Indemnification. To the full extent permitted by law, Consultant agrees to indemnify, defend and hold harmless the City, its officers, employees and agents (“Indemnified Parties”) against, and will hold and save them and each of them harmless from, any and all actions, either judicial, administrative, arbitration or regulatory claims, damages to persons or property, losses, costs, penalties, obligations, errors, omissions or liabilities whether actual or threatened (herein “claims or liabilities”) that may be asserted or claimed by any person, firm or entity arising out of or in connection with the negligent performance of the work, operations or activities provided herein of Consultant, its officers, employees, agents, subcontractors, or invitees, or any individual or entity for which Consultant is legally liable (“indemnitors”), or arising from Consultant’s or indemnitors’ reckless or willful misconduct, or arising from Consultant’s or indemnitors’ negligent performance of or failure to perform any term, provision, covenant or condition of this Agreement, and in connection therewith:

(a) Consultant will defend any action or actions filed in connection with any of said claims or liabilities and will pay all costs and expenses, including legal costs and attorneys’ fees incurred in connection therewith;

(b) Consultant will promptly pay any judgment rendered against the City, its officers, agents or employees for any such claims or liabilities arising out of or in connection with the negligent performance of or failure to perform such work, operations or activities of Consultant hereunder; and Consultant agrees to save and hold the City, its officers, agents, and employees harmless therefrom;

(c) In the event the City, its officers, agents or employees is made a party to any action or proceeding filed or prosecuted against Consultant for such damages or other claims arising out of or in connection with the negligent performance of or failure to perform the work, operation or activities of Consultant hereunder, Consultant agrees to pay to the City, its officers, agents or employees, any and all costs and expenses incurred by the City, its officers, agents or employees in such action or proceeding, including but not limited to, legal costs and attorneys' fees.

Consultant shall incorporate similar indemnity agreements with its subcontractors and if it fails to do so Consultant shall be fully responsible to indemnify City hereunder therefore, and failure of City to monitor compliance with these provisions shall not be a waiver hereof. This indemnification includes claims or liabilities arising from any negligent or wrongful act, error or omission, or reckless or willful misconduct of Consultant in the performance of professional services hereunder. The provisions of this Section do not apply to claims or liabilities occurring as a result of City's sole negligence or willful acts or omissions, but, to the fullest extent permitted by law, shall apply to claims and liabilities resulting in part from City's negligence, except that design professionals' indemnity hereunder shall be limited to claims and liabilities arising out of the negligence, recklessness or willful misconduct of the design professional. The indemnity obligation shall be binding on successors and assigns of Consultant and shall survive termination of this Agreement.

16. Independent Contractor Status. It is expressly understood and agreed by both parties that Consultant, its agents or employees, are an independent contractor and not an employee of the City while engaged in carrying out and complying with any of the terms and conditions of this agreement. Consultant expressly warrants that it will not represent, at any time or in any manner, that Consultant is an employee or agent of the City. Consultant, its agents or employees, shall have no authority to, and shall not, incur any debt, obligation or liability on behalf of City.

17. Insurance. Prior to beginning any of the services or work required by this agreement, Consultant, at its sole cost and expense, shall carry, maintain for the duration of the agreement, and provide proof thereof that is acceptable to the City, the insurance specified in subsections (a) through (c) below with insurers and under forms of insurance satisfactory in all respects to the City. Consultant shall not allow any subcontractor to commence work on any subcontract until all insurance required of the Consultant has also been obtained for the subcontractor. All of said policies of insurance shall provide that said insurance may not be amended or cancelled by the insurer or any party hereto without providing thirty (30) days prior written notice by certified mail return receipt requested to the City. In the event any of said policies of insurance are cancelled, the Consultant shall, prior to the cancellation date, submit new evidence of insurance in conformance with this Section 17 to the Contract Officer. All certificates shall name the City as additional insured (providing the appropriate endorsement).

- (a) Workers' Compensation. As of the effective date of Agreement, Consultant represents that it has no employees. In reliance on that representation, the following requirements shall be in full force and effect only should Consultant determine to retain any employee while the Agreement is in effect, and shall continue to apply for the entire period the employee is retained by Consultant: Consultant shall comply with this Subsection 17(a) before any such employee commences work under this Agreement: Subject to the provisions in this Section 17, satisfactory Workers' Compensation Insurance and Employer's Liability Insurance for any and all persons employed directly or indirectly by Consultant shall be provided by Consultant with limits not less than one million dollars (\$1,000,000.00). In the alternative, Consultant may rely on a self-insurance program to meet these requirements so long as the program of self-insurance complies fully with the provisions of the California Labor Code. The insurer, if insurance is provided, or the Consultant, if a program of self-insurance is provided, shall waive all rights of subrogation against the City for loss arising from work performed under this agreement.
- (b) Automobile Liability. Consultant, at Consultant's own cost and expense, shall maintain automobile liability insurance for the period covered by this agreement in an amount not less than one million dollars (\$1,000,000.00) per occurrence. Such coverage shall include but shall not be limited to, protection against claims arising from bodily and personal injury, including death resulting therefrom, and damage to property resulting from activities contemplated under this agreement including the use of owned and non-owned automobiles.

Coverage shall be at least as broad as Insurance Services Office Automobile Liability form CA 0001 (ed. 12/90) Code 1 (any auto). No endorsement shall be attached limiting the coverage.

Each of the following shall be included in the insurance coverage or added as an endorsement to the policy:

- (1) City, its officers, employees, agents, and volunteers are to be covered as insureds as respects automobiles owned, leased, hired, or borrowed by Consultant. The coverage shall contain no special limitations on the scope of protection afforded City, its officers, employees, agents, or volunteers.
- (2) The policy must contain a cross liability or severability of interest clause.
- (3) The insurance shall cover on an occurrence or an accident basis, and not on a claim made basis.

- (4) An endorsement must state that coverage is primary insurance and that no other insurance affected by the City will be called upon to contribute to a loss under the coverage.
 - (5) Any failure of Consultant to comply with reporting provisions of the policy shall not affect coverage provided to City and its officers, employees, agents, and volunteers.
 - (6) Insurance is to be placed with California-admitted insurers with a Best's rating of no less than A:VII.
- (c) Professional Liability. Consultant, at Consultant's own cost and expense, shall maintain for the period covered by this agreement professional liability insurance for licensed professionals performing work pursuant to this agreement in an amount not less than two million dollars (\$2,000,000.00) covering the licensed professionals' errors and omissions, as follows:
- (1) Any deductible or self-insured retention shall not exceed \$10,000 per claim.
 - (2) Written notice that cancellation, material changes, or nonrenewal must be received by the City in conformance with the provisions of this Section 17.
 - (3) The following provisions shall apply if the professional liability coverages are written on a claim made form:
 - (a) The retroactive date of the policy must be shown and must be before the date of the agreement.
 - (b) Insurance must be maintained and evidence of insurance must be provided for at least five (5) years after completion of the agreement or the work.
 - (c) If coverage is canceled or not renewed and it is not replaced with another claims made policy form with a retroactive date that precedes the date of this agreement, Consultant must provide extended reporting coverage for a minimum of five (5) years after completion of the work. The City shall have the right to exercise at the Consultant's cost, any extended reporting provisions of the policy should the Consultant cancel or not renew the coverage.

- (d) A copy of the claim reporting requirements must be submitted to the City prior to the commencement of any work under this agreement.
- (d) Deductibles and Self-Insured Retentions. Consultant shall disclose the self-insured retentions and deductibles before beginning any of the services or work called for by any term of this agreement. During the period covered by this agreement upon express written authorization of City Attorney, Consultant may increase such deductibles or self-insured retentions with respect to City, its officers, employees, agents, and volunteers. The City Attorney may condition approval of an increase in deductible or self-insured retention levels upon a requirement that Consultant procure a bond guaranteeing payment of losses and related investigations, claim administration, and defense expenses that is satisfactory in all respects to each of them.
- (e) Notice of Reduction in Coverage. In the event that any coverage required under subsections (a), (b), or (c) of this section of the agreement is reduced, limited, or materially affected in any other manner, Consultant shall provide written notice to City at Consultant's earliest possible opportunity and in no case later than five days after Consultant is notified of the change in coverage.
- (f) City's Remedies. In addition to any other remedies City may have if Consultant fails to provide or maintain any insurance policies or policy endorsements to the extent and within the time herein required, City may, at its sole option:
- (i) Obtain such insurance and deduct and retain the amount of the premiums for such insurance from any sums due under the agreement;
 - (ii) Order Consultant to stop work under this agreement or withhold any payment which becomes due to Consultant hereunder, or both stop work and withhold any payment, until Consultant demonstrates compliance with the requirements hereof;
 - (iii) Terminate this agreement.

Exercise of any of the above remedies, however, is an alternative to other remedies City may have and is not the exclusive remedy for Consultant's failure to maintain insurance or secure appropriate endorsements.

18. Interpretation. The agreements contained herein shall not be construed in favor of or against either party but shall be construed as if all parties prepared this Agreement.

19. Licenses. If a license of any kind having terms intended to include evidence of registration is required of Consultant, its employees, agents, or subcontractors by Federal or State law, Consultant warrants that such license has been obtained, is valid and in good standing, and Consultant shall keep it in effect at all times during the terms of this agreement, and that any applicable bond has been posted in accordance with all applicable laws and regulations.

20. Modifications. This agreement may be modified only by a written agreement, approved by City Attorney, City and Consultant.

21. No Third-Party Rights. The parties intend not to create rights in, or to grant remedies to, any third party as a beneficiary of this agreement or of any duty, covenant, obligation, or undertaking established herein.

22. Notices. All notices under this Agreement shall be in writing and shall be delivered by personal service or by certified or registered mail, postage prepaid, return receipt requested, of the parties. Any written notice to any of the parties required or permitted hereunder shall be deemed to have been duly given on the date of service if served personally or if served by facsimile transmission (with confirmation of receipt), or seventy-two (72) hours after the mailing. Rejection or other refusal to accept or the inability to deliver because of changed address of which no notice was given as provided hereunder shall be deemed to be receipt of the notice, demand or request sent. Notices of the parties shall be addressed as follows:

To City: Thomas M. DeSantis, City Manager
City of Moreno Valley
14177 Frederick Street
Moreno Valley, CA 92552
tomd@moval.org

To Consultant: Robert E. Cendejas and Associates, Inc.
20955 Pathfinder Road, Suite 100
Diamond Bar, California 91765
RobertECendejas@aol.com

Each party shall provide the other party with telephone and written notice of any change in address as soon as practicable.

23. Ownership of Materials. Any and all documents, including draft documents where completed documents are unavailable, or materials prepared or caused to be prepared by Consultant pursuant to this agreement shall be the property of the City at the moment of their preparation. All materials and records of a finished nature, such as reports, analysis, and documentation of negotiations, prepared or obtained in the performance of this agreement, shall be delivered to and become the property of City. All materials of a preliminary nature, such as notes, computations and

other data, prepared or obtained in the performance of this agreement, shall be made available, upon request, to City at no additional charge and without restriction or limitation on their use consistent with the intent of the original design.

24. Severability. Should any part of this agreement be declared by a final decision by a court or tribunal of competent jurisdiction to be unconstitutional, invalid, or beyond the authority of either party to enter into or carry out, such decision shall not affect the validity of the remainder of this agreement, which shall continue in full force and effect, provided that the remainder of this agreement, absent the unexcised portion, can be reasonably interpreted to give effect to the intentions of the parties.

25. Default; Cure. In the event that Consultant is in default under the terms of this Agreement, the City shall not have any obligation or duty to continue compensating Consultant for any work performed after the date of default. Instead, the City may give notice to Consultant of the default and the reasons for the default. The notice shall include the timeframe in which Consultant may cure the default. This timeframe is presumptively thirty (30) calendar days, but may be extended, if circumstances warrant. During the period of time that Consultant is in default, the City shall hold all invoices and shall, when the default is cured, proceed with payment on the invoices. If Consultant does not cure the default, the City may take necessary steps to terminate this Agreement pursuant to the terms thereof.

26. Termination.

26.1 Prior to Expiration of Term. This Section shall govern any termination of this Agreement except as specifically provided in the following Section for termination for cause. City may, with or without cause, terminate this agreement upon fifteen (15) days written notice to Consultant, except that where termination is due to the fault of the Consultant, the period of notice may be such shorter time as may be determined by the City. In addition, Consultant may terminate this Agreement at any time, with or without cause, upon thirty (30) days' written notice to City, except that where termination is due to the fault of the City, the period of notice may be such shorter time as the Consultant may determine. Upon receipt of any notice of termination, Consultant shall immediately cease all services hereunder except such as may be specifically approved by the City. Except where the Consultant has initiated termination, Consultant shall be entitled to compensation for services performed prior to the effective date of notice of termination; provided, however, that the City may condition payment of such compensation upon Consultant's delivery to the City of any or all documents, photographs, computer software, video and audio tapes, and other materials provided to Consultant, or prepared by or for Consultant or the City in connection with this agreement and upon satisfactory completion of the services or portion thereof which the consultant has performed through the effective date of termination.

26.2 Termination for Default of Consultant. If termination is due to the failure of the Consultant to fulfill its obligations under this Agreement, City may, after

compliance with the provisions of Section 25, take over the work and prosecute the same to completion by contract or otherwise, and the Consultant shall be liable to the extent that the total cost for completion of the services required hereunder exceeds the compensation herein stipulated (provided that the City shall use reasonable efforts to mitigate such damages), and City may withhold any payments to Consultant for the purpose of set-off or partial payment of the amounts owed the City as previously stated.

27. Waiver. No delay or omission in the exercise of any right or remedy by non-defaulting party on any default shall impair such right or remedy or be construed as a waiver. A party's consent to or approval of any act by the other party requiring the party's consent or approval shall not be deemed to waive or render unnecessary the other party's consent to or approval of any subsequent act. Any waiver by either party of any default must be in writing and shall not be a waiver of any other default concerning the same or any other provision of this Agreement.

28. Whole Agreement. This Agreement including the attachments hereto is the entire, complete and exclusive expression of the understanding of the parties. It is understood that there are no oral agreements between the parties hereto affecting this Agreement and this Agreement supersedes and cancels any and all previous negotiations, arrangements, agreements and understandings, if any, between the parties, and none shall be used to interpret this Agreement.

29. Prevailing Wages. The State of California's General Prevailing Wage Rates are not applicable to this Contract.

30. Time is of the Essence. Consultant agrees to diligently carry out the services to be provided under this Agreement to completion and in accordance with any schedules specified herein. In the performance of this Agreement, time is of the essence.

31. Counterparts. This Agreement may be executed in multiple identical counterparts, each of which shall be deemed an original, but all of which together will constitute one and the same instrument but the parties agree that the Agreement on file in the office of the City Clerk is the version of the Agreement that shall take precedence should any differences exist among counterparts of the document.

32. Warranty & Representation of Non-Collusion. No official, officer, or employee of City has any financial interest, direct or indirect, in this Agreement, nor shall any official, officer, or employee of City participate in any decision relating to this Agreement which may affect his/her financial interest or the financial interest of any corporation, partnership, or association in which (s)he is directly or indirectly interested, or in violation of any corporation, partnership, or association in which (s)he is directly or indirectly interested, or in violation of any State or municipal statute or regulation. The determination of "financial interest" shall be consistent with State law and shall not include interests found to be "remote" or "non-interests" pursuant to Government Code Sections 1091 or 1091.5. Consultant warrants and represents that it has not paid or

given, and will not pay or give, to any third party including, but not limited to, any City official, officer, or employee, any money, consideration, or other thing of value as a result or consequence of obtaining or being awarded any agreement. Consultant further warrants and represents that (s)he/it has not engaged in any act(s), omission(s), or other conduct or collusion that would result in the payment of any money, consideration, or other thing of value to any third party including, but not limited to, any City official, officer, or employee, as a result of consequence of obtaining or being awarded any agreement. Consultant is aware of and understands that any such act(s), omission(s) or other conduct resulting in such payment of money, consideration, or other thing of value will render this Agreement void and of no force or effect.

33. Corporate Authority. The persons executing this Agreement on behalf of the parties hereto warrant that (i) such party is duly organized and existing, (ii) they are duly authorized to execute and deliver this Agreement on behalf of said party, (iii) by so executing this Agreement, such party is formally bound to the provisions of this Agreement, and (iv) the entering into this Agreement does not violate any provision of any other Agreement to which said party is bound. This Agreement shall be binding upon the heirs, executors, administrators, successors and assigns of the parties.

IN WITNESS WHEREOF, City and Consultant have executed this agreement in the City of Moreno Valley, California on _____ 2019.

CITY OF MORENO VALLEY,
A Municipal Corporation

By: _____
Thomas M. DeSantis
City Manager

Date: _____

APPROVED AS TO FORM:
CITY ATTORNEY

By: _____
Martin D. Koczanowicz
City Attorney

ATTEST:

By: _____
Pat Jacquez-Nares
City Clerk

ROBERT E. CENDEJAS AND ASSOCIATES, INC.
a California corporation

By: _____
Robert E. Cendejas
President

Attachments:

Exhibit A, Scope of Services, consisting of 2 pages.

Exhibit B, Schedule of Compensation, consisting of 2 pages.

EXHIBIT "A"
SCOPE OF SERVICES

For the compensation and subject to the terms provided under this Agreement, Consultant shall provide the following services to City:

A-1.1 Identify Major Retail Businesses. Consultant shall identify and based upon the City's written direction, reach out to new or existing major retail businesses ("retail business") and businesses located in City, with the goal of said businesses entering into up to 10-year, or longer as may be mutually approved by the parties in writing, agreements with the City, which will provide that the retail business locate its retail sales offices and related operations within the City and may provide for tax-sharing arrangements and rebate terms between the City and retail business ("Location Agreement"). The goal and purpose of the Location Agreements shall be that the California Department of Tax and Fee Administration ("CDTFA") allocate the retail business' local sales and use tax to the City of Moreno Valley to the fullest extent permissible pursuant to the Bradley-Burns Uniform Local Sales and Use Tax Law (Cal. Rev. & Tax. Code § 7200, et seq.) and the Transactions and Use Tax Law (Cal. Rev. & Tax. Code § 7251, et seq.), to the extent applicable. For the purposes of this Agreement, "retail businesses" shall be only those which would be subject to the City's "Sales and Use Tax Ordinance," set forth in the Moreno Valley Municipal Code and the Bradley-Burns Uniform Sales and Use Tax Law (Cal. Rev. & Tax. Code § 7200, et seq.).

A-1.2 Drafting the Location Agreement. Upon identifying a retail business as set forth in A-1.1, Consultant shall provide consulting services to the City in drafting the Location Agreement, with the understanding that the review and final approval, of the Location Agreement shall be the City's responsibility, subject to approval by the City Council, the City Attorney and the City Manager.

Such consulting services shall include, but not be limited to, determining an appropriate operations and sales structure for the retail business such that the business' local sales and use tax shall be allocated by the CDTFA to the City of Moreno Valley to the fullest extent permissible ("local sales tax allocation solution"). In furtherance of that goal, Consultant shall consult with the City and the retail business regarding how to structure, or restructure, the retail business' operations and sales process such that the place of sale, and participation in the sale, occurs in the City of Moreno Valley, as defined by Section 1802, Article 19, Chapter 4, Division 2, of Title 18 of the California Code of Regulations, as it may be amended from time to time.

- A-1.3 Negotiating the Location Agreement. Consultant shall assist in negotiating with the retail business the terms and conditions of the Location Agreement, including proposing appropriate tax rebates to incentivize the retail business to locate sales and operations in the City of Moreno Valley.
- A-1.4. City's Right to Reject Any Location Agreement. The City Council of the City of Moreno Valley expressly retains the right to, in its sole discretion, alter, amend, accept, execute, or reject any Location Agreement without incurring any liability or obligation to Consultant or the business.
- A-1.5 Implementing the Location Agreement. After the City has executed a Location Agreement with a retail business, Consultant shall assist in implementing and ensuring compliance with such Location Agreement while the Location Agreement is in effect. Such services shall include, but not be limited to: (i) consulting with the retail business to insure the local sales tax allocation solution is implemented; and (ii) representing the City in all communications with and proceedings before the CDTFA pertaining to the local sales and use tax for that retail business, as set forth in more detail below in A-1.6.
- A-1.6 Representing the City before the CDTFA. As part of the services provided for each Location Agreement, and for the duration that such Location Agreement is in effect, Consultant shall, at no extra cost to the City, represent the City in all proceedings before and communications with the CDTFA pertaining to the local sales and use tax for the retail business. Such representation shall include, but not be limited to: (i) representing the City in all meetings, conferences, and communications with the CDTFA; (ii) complying with any audit required or performed by the CDTFA; and (iii) representing the City in any CDTFA administrative proceedings, including appeals before the CDTFA. Administrative proceedings shall include communications with the CDTFA, any briefing required as part of the CDTFA proceedings, and appearing on behalf of the City at any CDTFA hearings.
- A-1.7 Services Not Included. Consultant shall not pursue or represent the City in any litigation related to a Location Agreement, other than provided for in the indemnity portion of this Agreement.

EXHIBIT "B"
SCHEDULE OF COMPENSATION

- B-1.1 Existing Business Yearly Fee. For each Location Agreement, for businesses with an existing location within the city, executed by the City as a result of the Consultant's services performed under this Agreement, Consultant shall receive a fee each year equal to 10% of the Local Sales Tax Revenues, as defined herein, actually paid by each retail business and actually received by the City ("Yearly Fee"). Consultant acknowledges and hereby agrees that it is not entitled to any compensation for Location Agreements, which originate or are secured from City's own information, knowledge, resources or contacts, whether or not Consultant was also aware of the opportunity, except when specifically assigned to Consultant to obtain a Location Agreement or increase the local tax allocation to the City from said retail business.
- B-1.2 New Business Yearly Fee. For each Location Agreement executed by the City as a result of the Consultant's services performed under this Agreement, Consultant shall receive a fee each year equal to 20% of the Local Sales Tax Revenues, as defined herein, actually paid by each retail business and actually received by the City ("Yearly Fee"). Consultant acknowledges and hereby agrees that it is not entitled to any compensation for Location Agreements, which originate or are secured from City's own information, knowledge, resources or contacts, whether or not Consultant was also aware of the opportunity, except when specifically assigned to Consultant to obtain a Location Agreement or increase the local tax allocation to the City from said retail business.
- B-2 Definitions. "Local Sales Tax Revenues" means that portion of the sales and use tax, if any, paid by the retail business upon taxable sales and uses attributable to the operations of the retail business and allocated and actually paid to, and received by, the City under the 1% (local portion of uniform statewide rate) of the Bradley-Burns Uniform Local Sales and Use Tax Law (Cal. Rev. & Tax. Code § 7200, et seq.) and the Transactions and Use Tax Law (Cal. Rev. & Tax. Code § 7251, et seq.), to the extent applicable. Local Sales Tax Revenues shall not include: (i) any portion of the sales or use tax not eligible for a rebate within the terms of the Location Agreements or this Agreement (ii) any sales or use tax rebate or other tax incentive paid by the City to a retail business pursuant to a Location Agreement, (iii) Penalty Assessments, (iv) any Sales Tax levied by, collected for or allocated to the State of California, the County of Riverside, a district or any entity (including an allocation to a statewide or countywide pool) other than the City of Moreno Valley, (v) any administrative fee charged by the CDTFA, (vi) any sales or use tax subject to any sharing, rebate, offset or other charge imposed pursuant to any applicable provision of federal, state or local (except the Cities') law, rule, or regulation, (vii) any Sales Tax attributable to any transaction not consummated within the term of this Agreement, or (viii) any Sales Tax (or other funds measured by Sales Tax) required by the State of California to be paid over to another public entity (including the State) or set

aside and/or pledged to a specific use other than for deposit into or payment from the Cities' general funds, including retroactively.

- B-3 Time for Payment. Consultant shall be paid quarterly upon submitting invoices to the City, but in no event shall the City remit any payments on an invoice until after the CDTFA's allocation of Local Sales Tax Revenues for that quarter, as described in B-2. The City shall remit payment on an invoice submitted by the Consultant no later than one-hundred and fifty (150) days following the end of the quarter which is the subject of the invoice. Each invoice shall be in an amount equal to the applicable Yearly Fee (as defined in Sections B-1.1 and B-1.2) of the Local Sales Tax Revenues, as defined above in Subsection B-2, for that quarter.
- B-4 Consultant's Continuing Right to Yearly Fee for Term of Location Agreement. Except in the case of a breach or default of this Agreement by Consultant, the Consultant's receipt of the Yearly Fee shall continue for the same duration as the period of time any Location Agreement obtained by Consultant pursuant to this Agreement is in effect. Accordingly, the provisions of this Exhibit B, entitled Schedule of Compensation, shall continue in full force and effect for the duration that any Location Agreement is in effect, and shall survive the expiration or termination of this Agreement.
- B-5 Recapture. If, at any time during or after this Agreement, the CDTFA determines that all or any portion of the local sales or use tax received by the City were improperly allocated and/or paid to the City, and if the CDTFA requires repayment of, offsets against future sales tax payments, or otherwise recaptures from the City those improperly allocated and/or paid local sales and use tax, then Consultant shall, within thirty (30) calendar days after written demand from the City, repay all payments (or applicable portions thereof) theretofore paid to Consultant which are attributable to such repaid, offset or recaptured local sales or use tax. If Consultant fails to make such repayment within thirty (30) calendar days after the City's written demand, then Consultant shall be in breach of this Agreement and such obligation shall accrue interest from the date of the City's original written demand at the then-maximum legal rate imposed by the California Code of Civil Procedure on prejudgment monetary obligations, compounded monthly, until paid. Additionally, the City may deduct any amount required to be repaid by Consultant under this Subsection B-5 from any future payments otherwise payable to Consultant under this Agreement until the amount in default is recaptured by the City. This Subsection B-5 shall survive the expiration or termination of this Agreement. The City immediately will contact Consultant regarding any communication from the CDTFA pertaining to tax allocations associated with Consultant's business. The City and Consultant agree that, should the CDTFA question the correctness of the allocation or otherwise determine that there has been an improper allocation to the City, the City may engage legal counsel to use his or her best efforts to defend such allocation in all CDTFA administrative proceedings. Any cost or expense associated with such efforts will be borne by the City. For purposes of this paragraph, administrative

proceedings include all CDTFA meetings, conferences and appeals before the CDTFA. Consultant will reasonably cooperate with the City and its attorney. Additionally, Consultant shall have the obligation to participate in any such administrative proceedings, to the extent the City consents to and requests such participation, and may engage its own legal counsel or consultant, at its own cost.

- B-6 Fixed Percentage Fee. Consultant's compensation under this Agreement is a fixed percentage fee. Consultant shall not receive any reimbursement for expenses or any amount beyond the fixed percentage as described above in this Exhibit B.



Report to City Council

TO: Mayor and City Council

FROM: Marshall Eyerman, Chief Financial Officer

AGENDA DATE: June 4, 2019

TITLE: AUTHORIZATION TO AWARD CONTRACT FOR ARMORED CAR SERVICES

RECOMMENDED ACTION

Recommendations:

1. That the City Council authorize the awarding of the contract for armored car services to Garda CL West Inc.
2. That the City Council authorize the City Manager to sign the contract and any future amendments pending the final review and approval by the City Attorney's Office.

SUMMARY

This report recommends the authorization to award a contract to Garda CL West Inc. (Garda) for the transportation of payments made by cash and checks from the various City facilities to the City's depository bank. An RFP was issued at the beginning of the year and Garda has been selected as the preferred vendor. The proposed contract will be for a five-year period beginning in July 2019.

With this new contract, the number of locations where pickups will be made will increase from the current three sites, City Hall, the Conference & Recreation Center and the Moreno Valley Utility Customer Service Center, to eight sites. The additional sites will include the Animal Shelter, the Police Department, the Main Library, the Golf Course and the Senior Center.

DISCUSSION

The City collects payments for services, recreation programs, permits and other items at a number of locations throughout the city. In order to transport the deposits from these

collection points directly to the City's bank the City utilizes armored car services. The contractor will pick up deposits from each collection site and transport the deposits to the cash vault for the bank where the City maintains its bank accounts. The utilization of armored services follows best practices related to the handling and deposit of cash and makes the transport and deposit of cash and checks more efficient. This service is part of the City's internal control program and will help ensure the safety of City staff since they will not need to physically transport deposits from the collection location to either City Hall or directly to the bank.

The City currently utilizes armored car services but in keeping with the practice of reviewing contracts every five year an RFP was issued at the beginning of the year. As a result of that RFP process Garda was selected as the successful bidder. The new contract will increase the number of locations where armored pick up will occur from the current three locations to eight locations across the city. This expansion of locations will improve the internal controls over the cash handling process. First by adding the additional pickup locations we can eliminate the need for staff to physically transport deposits to City Hall which will improve the overall safety of our employees. Second, this new process will reduce the amount of time between when the payment is accepted and when it is deposited and ultimately recorded at the bank.

This contract was reviewed by the Finance Subcommittee at their meeting on May 28, 2019.

ALTERNATIVES

1. Authorize the awarding of the contract for armored car services to Garda CL West Inc. and authorize the City Manager to sign the contract, pending final review and approval by the City Attorney's Office, and any future amendments. *This alternative is recommended since this will allow for the immediate implementation of the new deposit transportation process.*
2. Do not authorize the awarding of the contract and provide staff with additional direction. *This alternative is not recommended since it will delay the expansion of the number of the collection sites.*

FISCAL IMPACT

Costs for the current contract have been included in the current budget for Fiscal Year 2018/19 and are reflected in the adopted budget for FYs 2019/20 – 2020/21. The rates for the new contract have increased slightly and for the locations that currently have appropriations to cover this service the increase is expected to be minimal and so will be absorbed within the current budgeted levels.

During the five-year term of the contract the fees are subject to an annual increase of the lower of CPI or 3%. The following table projects the annual costs based on the 3% increase factor.

	FY 19/20	FY 20/21	FY 21/22	FY 22/23	FY 23/24
Transportation Fees	\$21,600	\$22,248	\$22,915	\$23,603	\$24,311
Gas Surcharge & Other Fees	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
Estimated Total Annual Cost	\$23,600	\$24,248	\$24,915	\$25,603	\$26,311

NOTIFICATION

Public Notice

PREPARATION OF STAFF REPORT

Prepared by:
Brooke McKinney
Treasury Operations Division Manager

Department Head Approval:
Marshall Eyerman
Chief Financial Officer/City Treasurer

CITY COUNCIL GOALS

None

CITY COUNCIL STRATEGIC PRIORITIES

1. Economic Development
2. Public Safety
3. Library
4. Infrastructure
5. Beautification, Community Engagement, and Quality of Life
6. Youth Programs

ATTACHMENTS

1. City_of_Moreno_Valley_120-688600_Legal_Approv

APPROVALS

Budget Officer Approval	<u>✓ Approved</u>	5/14/19 2:31 PM
City Attorney Approval	<u>✓ Approved</u>	5/15/19 8:28 AM
City Manager Approval	<u>✓ Approved</u>	5/30/19 12:01 PM

Garda # 28821 (120-688600)

City of Moreno Valley

AGREEMENT FOR ON-SITE AND/OR ARMORED CAR SERVICES

This Agreement for On-Site and/or Armored Car Services (the “**Agreement**”) is made by and between the City of Moreno, California, a municipal corporation, with its principal place of business at 14177 Frederick Street, Moreno Valley, CA 92552, hereinafter referred to as the “**City**”, and Garda CL West, Inc., a California corporation, with its principal place of business at 2000 NW Corporate Boulevard, Boca Raton, Florida 33431, hereinafter referred to as the “**Contractor**.”:

RECITALS

- A. Government Code Section 53060 authorizes the engagement of persons to perform special services as independent contractors;
- B. Contractor desires to perform and assume responsibility for the provision of professional armored transport services required by the City on the terms and conditions set forth in this Agreement. Contractor represents that it is experienced in providing professional armored transport services, is licensed in the State of California, if applicable;
- C. City desires to engage Contractor to render such services for the armored transport services as set forth in this Agreement;
- D. The public interest, convenience, necessity and general welfare will be served by this Agreement; and
- E. This Agreement is made and entered into effective the date the City signs this Agreement after it has been signed by Contractor (the “**Effective Date**”).

TERMS

1. DEFINITIONS:

“**Holiday**” shall mean the days designated in the Scope of Work described in “Exhibit A attached hereto and incorporated herein by this reference. Holiday Service will be provided at the prices set forth in Exhibit “A.”

“**Property**” shall mean currency, coins, precious metals, checks, notes, bonds, negotiable instruments, securities and all other things of value but excluding hazardous materials or materials for which transport is legally prohibited or restricted by applicable state or federal law.

“**Sealed**” shall mean closed in a manner that is reasonably designed to prevent easy access to the Property and that under normal circumstances would tend to reveal evidence of tampering or manipulation if unauthorized access were attempted.

“**Service(s)**” or “work” may be used interchangeable, whether capitalized or not, and shall mean to call for Sealed Shipments said to contain Property, to receipt therefore, and

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to deliver the same in like condition to a designated consignee, and to perform any other Services set forth in Exhibit "A," the Scope of Work.

"**Shipment**" shall mean the total Property in Sealed containers received by Contractor at a single location from a single consignor for delivery to one other location to a single consignee.

"**Reconstruct,**" "**Reconstructed**" and "**Reconstruction**" shall mean to identify checks only to the extent of determining the face amount of said checks and the identity of the maker and/or check numbers, account numbers, routing numbers, financial institution, and the identity of the maker and the endorser of each.

CONTRACTOR INFORMATION:

Contractor's Name: Garda CL Technical Services, Inc.
 Address: 2000 NW Corporate Boulevard
 City: Boca Raton State: FL Zip: 33431
 Business Phone: (561) 939-7000
 Other Contact Number: Extension 40176
 Business License Number: C0220764
 Federal Tax I.D. Number: 95-1085147

2. CONTRACTOR SERVICES, FEES, AND RELEVANT DATES:

- A. Scope of Work and Services. The Contractor's scope of Services is described in Exhibit "A" attached hereto and incorporated herein by this reference (the "Services
- B. City Primary Responsibilities. The City's primary responsibilities, other than payment, are described in Exhibit "B" attached hereto and incorporated herein by this reference.
- C. Payment Terms. Payment terms are provided in Exhibit "C" attached hereto and incorporated herein by this reference. City understands and agrees that Contractor reserves the right to charge the lesser of 1.5 percent or the highest rate permitted by applicable law, per month or fraction thereof, finance charge on all balances that are not paid within 30 days of the date of invoice. City further understands and agrees that Contractor shall not be responsible to issue credits for erroneous billings that are more than ninety (90) days old as of the date the credit is requested. The prices quoted in Exhibit A and C do not include state sales and transportation related taxes, local sales and transportation-related taxes or federal sales and transportation related taxes.
- D. Term and Force Majeure. The term of this Agreement shall be from the Effective Date to December 31, 2023 unless terminated earlier as provided herein. The City acknowledges that it will not unreasonably withhold approval of the Contractor's requests for extensions of time in which to complete the work required. The Contractor shall not be responsible for

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performance delays nor be liable in any capacity for damages, including, but not limited to, loss of interest, directly and/or proximately flowing from any delay in or failure to make pickups or deliveries on the City's behalf pursuant to the terms of this Agreement where caused by others or delays are beyond the Contractor's reasonable control, including, without limitation: strikes, work stoppages, lockouts, epidemics, pestilence, strikes by the City or consignee's employees, work stoppages by the City or consignee's employees, lockouts by the City or consignee, war, rebellion, insurrection, hostilities, legal process, court action, mechanical failure, accidents, fires, acts of God, storms, flood, closed transportation routes, (excluding delays caused by non-performance or unjustified delay by Contractor, his/her/its employees, or subcontractors), and such delays shall extend the time for performance of the work by the Contractor. The City understands and agrees that Contractor is not a guarantor of any pickup or delivery times that may be established from time to time by custom, practice or agreement. Any such times are mere approximations or estimates; however, Contractor agrees to use reasonable efforts to accommodate pickup and delivery times requested by the City and agreed to by Contractor.

3. **STANDARD TERMS AND CONDITIONS:**

- A. Control of Work. Contractor is solely responsible for the content and sequence of the work, and will not be subject to control and direction as to the details and means for accomplishing the anticipated results of services. The City will not provide any training to Contractor or his/her/its employees.
- B. Intent of Parties. Contractor is, and at all times shall be, an independent contractor and nothing contained herein shall be construed as making the Contractor or any individual whose compensation for services is paid by the Contractor, an agent or employee of the City, or authorizing the Contractor to create or assume any obligation or liability for or on behalf of the City, or entitling the Contractor to any right, benefit, or privilege applicable to any officer or employee of the City.
- C. Subcontracting. Contractor may retain or subcontract for the services of other necessary contractors with the prior written approval of the City. Payment for such services shall be the responsibility of the Contractor. Any and all subcontractors shall be subject to the terms and conditions of this Agreement, with the exception that the City shall have no obligation to pay for any subcontractor services rendered. Contractor shall be responsible for paying prevailing wages where required by law [See California Labor Code Sections 1770 through 1777.7].
- D. Reserved.
- E. Substitution of Key Personnel. Contractor has represented to City that certain key personnel will perform and coordinate the services under this Agreement. Should one or more of such personnel become unavailable, Contractor may substitute other personnel of at least equal competence. As discussed below, any personnel who fail or refuse to perform the services in a manner

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reasonable acceptable to the City, or who are determined by the City to be uncooperative, incompetent, a threat to the adequate or timely completion of the project or a threat to the safety of persons or property, shall be promptly removed from the project by the Contractor at the request of the City.

- F. City's Representative. The City hereby designates the City Manager, or his or her designee, to act as its representative for the performance of this Agreement (“**City's Representative**”). Contractor shall not accept direction or orders from any person other than the City's Representative or his or her designee.
- G. Contractor's Representative. Contractor hereby designates Junior Arrojo, or his or her designee, to act as its representative for the performance of this Agreement (“**Contractor's Representative**”). Contractor's Representative shall have full authority to represent and act on behalf of the Contractor for all purposes under this Agreement. The Contractor's Representative shall supervise and direct the services, using his or her best skill and attention, and shall be responsible for all means, methods, techniques, sequences and procedures and for the satisfactory coordination of all portions of the services under this Agreement.
- H. Legal Considerations. The Contractor shall comply with applicable federal, state, and local laws in the performance of this Agreement. Contractor shall be liable for all violations of such laws and regulations in connection with services. If the Contractor performs any work knowing it to be contrary to such laws, rules and regulations and without giving written notice to the City, Contractor shall be solely responsible for all costs arising therefrom. Contractor shall defend, indemnify and hold City, its officials, directors, officers, employees and agents free and harmless, pursuant to the indemnification provisions of this Agreement, from any third party claim or liability to the extent arising out of any failure or alleged failure to comply with such laws, rules or regulations.
- I. Standard of Care; Performance of Employees. Contractor shall perform all services under this Agreement in a skillful and competent manner, consistent with the standards generally recognized as being employed by professionals in the same discipline in the State of California. Contractor represents and maintains that it is skilled in the profession necessary to perform the services. Contractor warrants that all employees and subcontractor shall have sufficient skill and experience to perform the services assigned to them. Finally, Contractor represents that it, its employees and subcontractors have all licenses, permits, qualifications and approvals of whatever nature that are legally required to perform the services and that such licenses and approvals shall be maintained throughout the term of this Agreement. Any employee of the Contractor or its subcontractors who is determined by the City to be uncooperative, incompetent, a threat to the adequate or timely completion of the project, a threat to the safety of persons or property, or any employee who fails or refuses to perform the services in a manner acceptable to the City, shall be promptly removed from the project by the Contractor and shall not be re-employed to perform any of the services or to work on the project.

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- J. Contractor Indemnification. Contractor shall indemnify, defend and hold the City, the Moreno Valley Housing Authority, and the Moreno Valley Community Services District (CSD), their officers, agents and employees (collectively, the “**City Indemnitees**” and individually each a “**City Indemnitee**”) harmless from any and all third party claims, proceedings, causes of action and demands (collectively, “**Claims**”), and any resulting, damages, losses, including, without limitation, the payment of all judgments, settlements, expert witness fees, reasonable attorney’s fees and other related costs and expenses (collectively” “**Liabilities**”), to the extent caused by reason of the negligence or willful misconduct of Contractor, its employees, subcontractors or agents by this Agreement. The Contractor shall have no defense or indemnification obligation to the City Indemnitees to the extent such damage or injury is caused by the negligence or willful misconduct of any City Indemnitee. IN NO CASE SHALL THE CONTRACTOR BE LIABLE FOR OR OWE ANY DUTY OF INDEMNIFICATION WITH RESPECT TO ANY EXEMPLARY, PUNITIVE OR CONSEQUENTIAL DAMAGE CLAIMS BY ANY CITY INDEMNITEES OR ANY THIRD PARTY ARISING FROM THE LOSS OR DESTRUCTION OF PROPERTY. CONTRACTOR’S OBLIGATION WITH RESPECT TO ANY CLAIM FOR DAMAGES BY THE CITY OR ANY THIRD PARTY WITH RESPECT TO ANY PROPERTY SHALL NOT EXCEED THE MAXIMUM SHIPMENT LIABILITY, AS DETAILED IN THE SCOPE OF WORK. Acceptance of this Agreement signifies that the Contractor is not covered under the City’s general liability insurance, employee benefits, or worker’s compensation. It further establishes that the Contractor shall be fully responsible for such coverage. Contractor’s obligation to indemnify shall survive expiration or termination of this Agreement, and shall not be restricted to insurance proceeds, if any, received by the City, the Moreno Valley Housing Authority, and the CSD, and their officers, agents and employees.
- K. Additional Indemnity Obligations. Contractor shall defend at Contractor’s own cost, expense and risk, any and all third party Claims of every kind covered by Section “J” that may be brought or instituted against any City Indemnitee. The City shall have the right to approve counsel for its defense and such approval will not be reasonably withheld. Contractor shall pay and satisfy any Liabilities that may be rendered against any City Indemnitee as part of any such Claim and resulting Liabilities.
- L. Insurance Requirements. The Contractor will comply with the following insurance requirements at its sole expense. Insurance companies shall be rated (A Minus: VII—Admitted) or better in Best’s Insurance Rating Guide and shall be legally licensed and qualified to conduct business in the State of California:

The Contractor shall procure and maintain, at its sole expense, Workers’ Compensation Insurance in such amounts as will fully comply with the laws of the State of California and which shall indemnify, insure and provide legal defense for the Contractor and the City, the Housing Authority and CSD

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against any loss, claim, or damage arising from any injuries or occupational diseases happening to any worker employed by the Contractor in the course of carrying out the Agreement. This coverage may be waived if the Contractor is determined to be functioning as a sole proprietor and the city provided form “Exception to Worker’s Compensation Coverage” is signed, notarized and attached to this Agreement

- General Liability Insurance—to protect against loss from liability imposed by law for damages on account of bodily injury, including death, and/or property damage suffered or alleged to be suffered by any person or persons whomever, resulting directly or indirectly from any act or activities of the Contractor, sub-Contractor, or any person acting for the Contractor or under its control or direction. Such insurance shall be maintained in full force and effect throughout the terms of the Agreement and any extension thereof in the minimum amounts provided below:

Bodily Injury	\$1,000,000 per occurrence/ \$2,000,000 aggregate
Property Damage	\$500,000 per occurrence/ \$500,000 aggregate

- Liability and Property Damage Insurance coverage for owned and non-owned automotive equipment operated on City/CSD/Housing Authority premises. Such coverage limits shall not be less than \$1,000,000 combined single limit.

Contractor agrees at all times during the term of this Agreement to purchase and maintain insurance with a responsible insurance company to cover the loss or destruction of Property handled or protected by Contractor, its employees, subcontractors, and agents, on behalf of the City pursuant to this Agreement. Contractor agrees to furnish the City with written evidence of compliance with this provision. It is understood and agreed that Contractor shall not be liable in any capacity for loss or harm to the City’s Property or for damages directly and/or proximately flowing from loss or harm to the City’s Property while such Property is in the possession of Contractor, nor shall Contractor’s insurance carriers be required to cover such damages when same are caused by any of the following:

1. Hostile or warlike action in time of peace or war, including but not limited to, action which hinders, combats or defends against an actual, impending or expected attack by any government or sovereign power (de jure or de facto), or by any authority maintaining or using military, naval or air forces, or by military naval or air forces, or by an agent of any government power, authority or force;
2. Any weapon of war employing atomic fission or radioactive force whether in time of peace or war;
3. Any accident or catastrophe occurring at a government or private facility employing the use of atomic fission or radioactive energy whether in time of peace or war;

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4. Insurrection, rebellion, revolution, civil war, usurped power, or action taken by government authority in hindering, combating, or defending against such an occurrence, seizure or destruction under quarantine or customs regulations, confiscation by order of any government or public authority, or risks of contraband or illegal transport or trade.

A Certificate of Insurance and appropriate additional insured endorsement evidencing the above applicable insurance coverage shall be submitted to the City prior to the execution of this Agreement. The Certificate of Insurance or an appropriate binder shall bear an endorsement containing the following provisions:

Solely as respect to services done by or on behalf of the named insured for the City of Moreno Valley, it is agreed that the City of Moreno Valley, the Moreno Valley Housing Authority, and the Moreno Valley Community Services District, their officers, employees and agents are included as additional insured under this policy and the coverage(s) provided shall be primary insurance and not contributing with any other insurance available to the City of Moreno Valley, the Moreno Valley Housing Authority, and the Moreno Valley Community Services District, its officers, employees and agents, under any third party liability policy. The All Risk insurance certificate shall name the City of Moreno Valley, Moreno Valley Housing Authority, and the Moreno Valley Community Services District as a loss payee.

The terms of the insurance policy or policies issued to provide the above coverage shall neither be amended to reduce the required insurance limits and coverages nor shall such policies be canceled by the carrier without thirty (30) days prior written notice by certified or registered mail of amendment or cancellation to the City, except that cancellation for non-payment of premium shall require ten (10) days prior written notice by first class mail. In the event the insurance is canceled, the Contractor shall, prior to the cancellation date, submit new evidence of insurance in the amounts established.

M. Maximum Shipment Liability and Limitation of Liability. Except as provided above in Section L above, it is understood and agreed that Contractor and its insurance company will be liable for loss of or damage to City Property inclusive of Reconstructive damage up to the maximum sum for each Shipment as set forth in Exhibit C, which sum is the agreed maximum value of any single Shipment ("**Maximum Shipment Liability**"). The Services and liability obligations assumed by Contractor and the rates charged by Contractor are based, in part, upon the values of Shipments as declared herein by City, for the safe delivery or return of any Shipment of City's in the possession of Contractor, or in the possession of the agents or employees of Contractor pursuant to the terms of this Agreement. It is therefore expressly agreed by the City that the provisions of this Agreement dealing with

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Maximum Shipment Liability to be accepted by Contractor from the City for delivery to consignee bank, or from consignee bank, may not be waived or amended by any agent of Contractor, but that such waiver or amendment may be made only with the written consent of an officer of Contractor. Contractor will not be liable for loss or damage to Property consigned to it in excess of the Maximum Shipment Liability unless City has paid all excess liability charges to the Contractor for all Shipments of Property with a value in excess of the Maximum Shipment Liability amount as detailed in Exhibit C.

EXCEPT FOR DAMAGES OR LOSSES TO THE PROPERTY, WHICH SHALL BE CAPPED AT THE MAXIMUM SHIPMENT LIABILITY. CONTRACTOR'S LIABILITY FOR DAMAGES (WHETHER A CLAIM THEREFOR IS BASED ON WARRANTY, CONTRACT, STATUTE, OR OTHERWISE) CONNECTED WITH, OR ARISING UNDER, THIS AGREEMENT WILL BE LIMITED IN THE AGGREGATE FOR ALL CLAIMS TO AN AMOUNT EQUAL TO THE TOTAL AMOUNT OF FEES PAID BY CITY TO CONTRACTOR FOR SERVICES UNDER THIS AGREEMENT DURING THE TWELVE (12) MONTHS PRIOR TO THE OCCURRENCE OF THE FIRST EVENT THAT IS THE SUBJECT OF THE FIRST CLAIM (OR, IF TWELVE (12) MONTHS HAVE NOT YET ELAPSED SINCE THE EFFECTIVE DATE, THEN THE TOTAL AMOUNT ACTUALLY PAID BY City TO CONTRACTOR UNDER THIS AGREEMENT).

- N. Entire Agreement; Amendment; Assignment and Binding Effect. This Agreement and any exhibits attached hereto and incorporated herein, constitutes the entire agreement between the parties. There are no understandings, agreements, or representations of warranties, expressed or implied, not specified in this Agreement. Except with respect to changes to rates and the addition or removal of any locations under the Scope of Work, which may occur via electronic communication and agreement between the parties and evidenced by monthly invoices and reports, this Agreement may be modified or amended only by a subsequent written agreement signed by both parties' authorized representatives. This Agreement shall be binding in accordance with its terms upon the parties hereto and their respective transferees, assigns and successors in interest; provided, however, this Agreement may be assigned by Contractor to any parent, subsidiary, or affiliated corporation which it may hereafter acquire or with which it may be merged or consolidated, or to any corporation acquiring the business and assets of Contractor, but this Agreement shall not be otherwise assigned by either party without the prior written consent of the other party.
- O. (1) Termination. Following the first anniversary of the Effective Date of this Agreement, the City may terminate the whole or any part of this Agreement at any time without cause by giving at least ninety (90) days written notice to the Contractor. The written notice shall specify the date of

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termination. Upon receipt of such notice, the Contractor may continue work through the date of termination, provided that no work or service(s) shall be commenced or continued after receipt of the notice which is not intended to protect the interest of the City. The City shall pay the Contractor within thirty (30) days after receiving any invoice after the date of termination for all services performed by the Contractor in accordance herewith through the date of termination.

(2) Either party may terminate this Agreement for cause. The non-breaching party shall give the breaching party a written notice specifying the alleged breach and thirty (30) days to cure the material breach. If the material breach is not cured within such time, the non-breaching party may terminate the Agreement effective the next day by giving a written notice of termination. In the event the City terminates this Agreement for cause, the Contractor shall perform no further work or service(s) under the Agreement unless the notice of termination authorizes such further work.

(3) In the event this Agreement is terminated in whole or in part as provided herein, City may procure, upon such terms and in such manner as it may determine appropriate, similar to those terminated.

- P. Payment and Records. Payments to the Contractor pursuant to this Agreement as detailed in Exhibit "C" will be reported to Federal and State taxing authorities as required. The City will not withhold any sums from compensation payable to Contractor. Contractor is independently responsible for the payment of all applicable taxes. Where the payment terms provide for compensation on a time and materials basis, the Contractor shall maintain adequate records to permit inspection and audit of the Contractor's time and materials charges under the Agreement. Such records shall be retained by the Contractor for three (3) years following completion of the services under the Agreement, except that teller trash will not be retained. In addition, any video surveillance records will only be retained for a maximum of ninety (90) days from the date of recording.
- Q. Restrictions on City Employees. The Contractor shall not employ any City employee or official in the work performed pursuant to this Agreement. No officer or employee of the City shall have any financial interest in this Agreement in violation of federal, state, or local law.
- R. Choice of Law and Venue. The laws of the State of California shall govern the rights, obligations, duties, and liabilities of the parties to this Agreement, and shall govern the interpretation of this Agreement. Any legal proceeding arising from this Agreement shall be brought in the appropriate court located in Riverside County, State of California.
- S. Delivery of Notices. All notices permitted or required under this Agreement shall be given to the respective parties at the following address, or at such other address as the respective parties may provide in writing for this purpose:

Contractor:

Garda CL West, Inc.
2000 NW Corporate Boulevard
Boca Raton, FL 33431

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Attn: Contracts Department

With a copy to:

Garda CL West, Inc.
2000 NW Corporate Boulevard
Boca Raton, FL 33431
Attention: Chief Legal Officer

City:

City of Moreno Valley
14177 Frederick Street
P.O. Box 88005
Moreno Valley, CA 92552
Attn: Brooke McKinney, Treasury Operations Division

Such notice shall be deemed made when personally delivered or when mailed, forty-eight (48) hours after deposit in the U.S. Mail, first class postage prepaid and addressed to the party at its applicable address. Actual notice shall be deemed adequate notice on the date actual notice occurred, regardless of the method of service.

- T. Time of Essence. Time is of the essence for each and every provision of this Agreement. Notwithstanding the foregoing, the City acknowledges and agrees that Contractor is not a guarantor of any pickup or delivery times that may be established from time to time by custom, practice or agreement. Any such times are mere approximations or estimates; however, Contractor agrees to use reasonable efforts to accommodate pickup and delivery times requested by the City and agreed to by Contractor.
- U. City's Right to Employ Other Contractors. City reserves right to employ other contractors in connection with this project.
- V. Waiver. No waiver of any default shall constitute a waiver of any other default or breach, whether of the same or other covenant or condition. No waiver, benefit, privilege, or service voluntarily given or performed by a party shall give the other party any contractual rights by custom, estoppel, or otherwise.
- W. No Third Party Beneficiaries. There are no intended third party beneficiaries of any right or obligation assumed by the parties.
- X. Counterparts. This Agreement may be signed in counterparts, each of which shall constitute an original.
- Y. Invalidity; Severability. If any portion of this Agreement is declared invalid, illegal, or otherwise unenforceable by a court of competent jurisdiction, the remaining provisions shall continue in full force and effect.
- AA Supplementary General Conditions (for projects that are funded by Federal programs). The following provisions, pursuant to 44 Code of Federal Regulations, Part 13, Subpart C, Section 13.36, as it may be amended from

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time to time, are included in the Agreement and are required to be included in all subcontracts entered into by CONTRACTOR for work pursuant to the Agreement, unless otherwise expressly provided herein. These provisions supersede any conflicting provisions in the General Conditions and shall take precedence over the General Conditions for purposes of interpretation of the General Conditions. These provisions do not otherwise modify or replace General Conditions not in direct conflict with these provisions. Definitions used in these provisions are as contained in the General Conditions.

1. CONTRACTOR shall be subject to the administrative, contractual, and legal remedies provided in the General Conditions in the event CONTRACTOR violates or breaches terms of the Agreement.
2. CITY may terminate the Agreement for cause or for convenience, and CONTRACTOR may terminate the Agreement, as provided the General Conditions.
3. CONTRACTOR shall comply with Executive Order 11246 of September 24, 1965, entitled Equal Employment Opportunity, as amended by Executive Order 11375 of October 13, 1967, and as supplemented in Department of Labor regulations (41 CFR chapter 60). (All construction contracts awarded in excess of \$10,000 by CITY and/or subcontracts in excess of \$10,000 entered into by CONTRACTOR.)
4. CONTRACTOR shall comply with the Copeland Anti-Kickback Act (18 U.S.C. 874) as supplemented in Department of Labor regulations (29 CFR Part 3) (All contracts and subcontracts for construction or repair.)
5. CONTRACTOR shall comply with the Davis-Bacon Act (40 U.S.C. 276a to 276a7) as supplemented by Department of Labor regulations (29 CFR Part 5).
6. CONTRACTOR shall comply with Sections 103 and 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 327330) as supplemented by Department of Labor regulations (29 CFR Part 5).
7. CONTRACTOR shall observe CITY requirements and regulations pertaining to reporting included in the General Conditions.
8. Patent rights with respect to any discovery or invention which arises or is developed in the course of or under the Agreement shall be retained by the CITY.
9. Copyrights and rights in data developed in the course of or under the Agreement shall be the property of the CITY. FEMA/CalOES reserve a royalty-free, nonexclusive, irrevocable license to reproduce, publish or otherwise use or authorize to others to use for federal purposes a copyright in any work developed under the Agreement and/or subcontracts for work pursuant to the Agreement.
10. CONTRACTOR shall provide access by the City, the Federal grantor agency, the Comptroller General of the United States, or any of their duly authorized representatives to any books, documents, papers, and records of the contractor which are directly pertinent to that specific contract for the purpose of making audit, examination, excerpts, and transcriptions.

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- 11. CONTRACTOR shall retain all required records for three years after CITY makes final payments and all other pending matters relating to the Agreement are closed.
- 12. CONTRACTOR shall comply with all applicable standards, orders, or requirements issued under section 306 of the Clean Air Act (42 U.S.C. 1857(h)), section 508 of the Clean Water Act (33 U.S.C. 1368), Executive Order 11738, and Environmental Protection Agency regulations (40 CFR part 15). (This provision applies to contracts exceeding \$100,000 and to subcontracts entered into pursuant to such contracts.)
- 13. CONTRACTOR shall comply with mandatory standards and policies relating to energy efficiency which are contained in the State energy conservation plan issued in compliance with the Energy Policy and Conservation Act (Pub. L. 94163, 89 Stat. 871).

IN WITNESS HEREOF, the parties have each caused their authorized representative to execute this Agreement.

City of Moreno Valley

Garda CL West, Inc.

BY: _____
City Manager

BY: _____
TITLE: _____
(President or Vice President)

Date

Date

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<u>INTERNAL USE ONLY</u>
ATTEST:
_____ City Clerk
APPROVED AS TO LEGAL FORM:
_____ City Attorney
_____ Date
RECOMMENDED FOR APPROVAL:
_____ Department Head
_____ Date

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EXHIBIT A

SCOPE OF WORK

Garda CL West, Inc. (“Contractor”) and The City of Moreno Valley (“**City**”) agree that effective **June 01, 2019** this Scope of Work amends and is incorporated into the Agreement for On-Site and Armored Car Services between the parties (the “**Agreement**”) dated **June 01, 2019**, by adding or amending the following, schedules, lists, liabilities, days, Term and/or terms. Capitalized terms used herein and not defined shall have the meaning ascribed to them in the Agreement.

This Scope of Work shall be in full force and effect from **June 01, 2019** until December 31, 2023, unless earlier terminated as permitted under the Agreement.

Contractor will provide pickup, transport and delivery of City Property as detailed in this Scope of Work.

The Contractor shall provide, at no cost to the City, a process for receipting each Shipment of Property as detailed below.

The Contractor’s responsibility for the Property and reports shall begin when said Property is in the possession of the Contractor or its employees and shall terminate upon delivery to the City’s depository bank institution in compliance with the banks protocol and requirements for accepting deposits from armored car service providers.

The Contractor will pick up from all locations identified by the designated representative appointed by the City’s Financial & Management Services Department twice a week on days agreed upon by the City and the Contractor as detailed below.

The Contractor may provide other related services as necessary and agreed upon by both the City and the Contractor in writing signed by their authorized representatives.

Services. Contractor agrees to render Service to City at the locations, prices, frequencies and liability limits set forth in this Scope of Work and Exhibit C attached hereto. City agrees to pay Contractor for the Services, the sum set forth below, plus all additional charges associated with special Service requests as detailed in this Scope of Work and Exhibit C.

Non-deliverables. When delivery of a Shipment cannot be made for any reason, Contractor shall notify City and return the Shipment to City or to Contractor’s vault for storage. Notification of such return shall be promptly given to City.

Premise Time.: City understands that time is of the essence to Contractor’s business; therefore, City agrees that Contractor’s messenger shall be present no more than a

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maximum of five (5) minutes to make a pickup and/or delivery of Property. If said premise time exceeds the time stated herein, it is agreed that the messenger may leave and that such departure shall not be a breach of this Agreement. City may call and request that a Service call be made by Contractor subsequent to such departure. By requesting same, City agrees to pay for said additional Service call at the rate set forth in Exhibit C, such charges to be in addition to regular Service charges.

PROCEDURES:

Authorized Messengers. Contractor agrees to furnish City the Contractor's secure Authorized Agent Card procedure to conduct deposit pickup and change order delivery. City may rely upon the Authorized Agent Card as evidence of authority of the messenger. Contractor assumes no liability for Property delivered to any employee or other person, except those who display an Authorized Agent Card and arrive in full uniform.

Shipment Requirements. City agrees to cause all Shipments to be made by means of City placing City's Property in Sealed packages or containers, of a mutually agreed upon type and design, which clearly and distinctly indicates the name and address of the consignor as well as the name and address of the consignee. City further agrees to clearly and distinctly set forth the value of each Shipment on the outside of the Sealed packages or container. City agrees that Contractor, its agents or employees, shall have the right to refuse to pickup Shipments of Property which are not Sealed and properly marked by City as set forth above and that Contractor assumes no liability for any damages or loss which may result as a consequence of such refusal to make a pickup. City further agrees that Contractor shall not be liable for any mysterious disappearance of, shortage or damage to the contents of any Shipment unless the Shipment was properly Sealed at the time of delivery to Contractor and shows evidence of tampering at the time Contractor delivers said package to the consignee and the consignee immediately notes, in writing, the evidence of tampering on Contractor's receipt document. Absent notation on Contractor's receipt document by the consignee at the time of receipt, the burden of proof shall be on the City to show the Contractor is responsible for such loss or claim related to a Sealed container said to contain Property. The parties agree that, while City may keep its own receipt and log book for its own internal purposes, Contractor's receipt document shall be deemed the sole controlling document with respect to all Services rendered, including, without limitation, deposits delivered and received, timing, losses, shortages, overages, investigations, claims or litigation.

Duration of Shipment Liability. Contractor's possession of City's Shipment begins only after an authorized messenger employed by Contractor signs a receipt for and receives said Shipment into his/her physical custody, thereafter Contractor's possession of City's Property terminates when and as an agent or consignee designated by City receives physical custody (i.e. physical possession or control) of the Shipment. It is understood and agreed that Contractor's liability for the handling or protection of City's Property arises and exists solely and concurrently with Contractor's possession thereof.

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Consequential Damages. It is understood and agreed that under no circumstances or theory of liability shall Contractor and/or Contractor's insurance company be liable for any incidental or consequential damages to City or any third party directly or on behalf of City resulting from or occasioned by the loss of or damage to any Shipment of Property delivered to Contractor pursuant to this Agreement

Claims. It is understood and agreed that under no circumstances shall Contractor and/or Contractor's insurance company be liable or responsible for any claim for loss of or damages to City's Property which is not submitted in writing to the Contractor within the greater of ninety (90) days after the date that said loss or damage purportedly occurred or the minimum notice requirement under the law of the jurisdiction where the Service took place. Within thirty (30) days after the giving of written notice of a claim of loss or damage, City agrees to furnish Contractor a detailed written statement of the circumstances surrounding such loss or damages as well as detailed written proof of such loss or damages in form reasonably satisfactory to Contractor, which proof of loss shall be substantiated by the books, records and accounts of City and shall be subscribed and sworn to by City or its duly authorized officer. Failure of City to comply with the foregoing shall relieve and release Contractor of any liability to City with respect to such claimed loss or damage.

Checks. City shall maintain an accurate record of all checks placed in any Shipment given to Contractor and in the event of a loss, City agrees to promptly, diligently and completely cooperate with Contractor in the Reconstruction and replacement of lost, destroyed or stolen checks which had been contained in any such Shipment. Contractor's sole liability shall be the payment to City of: (i) reasonable costs necessary to Reconstruct the checks plus any necessary costs because of stop payment procedures; (ii) the face value of checks that cannot be Reconstructed, provided adequate proof of the value thereof is presented to Contractor, except those checks which would not be collectable at the time of loss, but not to exceed the limit of \$5,000.00 per Shipment for the unidentified checks. The maximum liability of Contractor for the checks shall in no event exceed the Maximum Shipment Liability limit set forth in Schedule A which includes the aforesaid \$5,000.00 for the unidentified checks. Complete cooperation shall include but not be limited to, recovery of hard copy or electronic records of checks including, without limitation, point of sale information created by its employees, agents or customers; as well as, requests by City to makers of the missing checks to issue duplicates and in the event the makers refuse to do so, then to assert all of its legal and equitable rights against said makers. City agrees that Contractor and Contractor's insurance company shall not be liable for damages directly or proximately flowing from City's breach of this provision. Upon payment of a loss pursuant to this Agreement, Contractor or its insurance company shall be subrogated to all City's rights and remedies of recovery therefore. The City shall assign to the Contractor, City's right to receive payment under any check(s) for which Contractor has reimbursed City and City shall execute any document necessary or reasonably desirable to perfect and accomplish such assignment.

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(II) Holidays

City acknowledges that Contractor observes the following Holidays for which a Holiday Service rate as set forth below and in Exhibit C shall apply.

- (1) New Year’s Day
- (2) Martin Luther King
- (3) Presidents Day
- (4) Easter
- (5) Memorial Day
- (6) Independence Day
- (7) Labor Day
- (8) Columbus Day
- (9) Veteran’s Day
- (10) Thanksgiving Day
- (11) Christmas Day
- (12) Family Day (NV)
- (13) Admission Day (NV)
- (14) Pioneer Day (UT)

It is understood and agreed that when a Holiday falls on a Sunday the following Monday shall constitute the Holiday; when a Holiday falls on a Saturday the preceding Friday, that Saturday, or the following Monday shall constitute the Holiday.

Status	**Effective Date	**Service Location	**Address	City	ST	**Product	**Monthly Price	Item Allowance	Liability L
Draft	6/1/19	City Hall	14177 FREDERICK STREET	Moreno Valley	CA	ARMORED TRANSPORTATION SERVICE	\$225.00	7	\$50,000
Draft	6/1/19	Conference & Recreation Center	14075 Frederick Street	Moreno Valley	CA	ARMORED TRANSPORTATION SERVICE	\$225.00	7	\$50,000
Draft	6/1/19	Moreno Valley Utility	14331 Frederick Street	Moreno Valley	CA	ARMORED TRANSPORTATION SERVICE	\$225.00	7	\$50,000
Draft	6/1/19	Moreno Valley Public Library	25480 Alessandro Blvd	Moreno Valley	CA	ARMORED TRANSPORTATION SERVICE	\$225.00	7	\$50,000
Draft	6/1/19	Moreno Valley Animal Services	14041 Elsworth Ave	Moreno Valley	CA	ARMORED TRANSPORTATION SERVICE	\$225.00	7	\$50,000
Draft	6/1/19	Moreno Valley Senior Center	25075 Fir St	Moreno Valley	CA	ARMORED TRANSPORTATION SERVICE	\$225.00	7	\$50,000
Draft	6/1/19	Cottonwood Golf Center	13671 Frederick Street	Moreno Valley	CA	ARMORED TRANSPORTATION SERVICE	\$225.00	7	\$50,000
Draft	6/1/19	Moreno Valley Police Department	22850 Calle San Juan De Los Lagos	Moreno Valley	CA	ARMORED TRANSPORTATION SERVICE	\$225.00	7	\$50,000

(** Flagged for GARDA CL internal purposes only.)

The following rate schedule applies to the service locations listed above:

**Product		
ARMORED TRANSPORTATION SERVICE		
Description	Price (\$)	Unit of Measure
OFF DAY IN-ROUTE \$	65.0000	TR
EXCESS LIABILITY (\$000's) \$	0.5000	PT
EXCESS ITEMS \$	1.9500	UN
EXCESS PREMISE TIME	3.9500	MN

* [Y By placing a “Y” in this box, City agrees and confirms that it captures such information as it deems necessary to fully reconstruct all checks in each Shipment. Accordingly, City, subject to the terms and conditions in the Agreement, declines any coverage by and waives any liability against Contractor above the amount set forth in the Maximum Shipment Liability Checks, in exchange for not being assessed any excess

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liability charges for checks included in any Shipment above the Maximum Shipment Liability Checks amount. Otherwise, by placing an "N" in this box, the terms of Sections VI(a) & VII(f), will apply and additional and excess liability charges will be assessed for amounts in excess of the Maximum Shipment Liability Checks.

(IV) Days of Services									
**Service Location	City	State	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
City Hall	Moreno Valley	CA	N	N	Y	N	Y	N	N
Conference & Recreation Center	Moreno Valley	CA	N	N	Y	N	Y	N	N
Moreno Valley Utility	Moreno Valley	CA	N	N	Y	N	Y	N	N
Moreno Valley Public Library	Moreno Valley	CA	N	N	Y	N	Y	N	N
Moreno Valley Animal Services	Moreno Valley	CA	N	N	Y	N	Y	N	N
Moreno Valley Senior Center	Moreno Valley	CA	N	N	Y	N	Y	N	N
Cottonwood Golf Center	Moreno Valley	CA	N	N	Y	N	Y	N	N
Moreno Valley Police Department	Moreno Valley	CA	N	N	Y	N	Y	N	N

Contractor

City

By:

By:

(Signature)

(Signature)

(Printed Name)

(Printed Name)

Title:

Title:

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EXHIBIT B
CITY RESPONSIBILITIES

- City staff will prepare daily deposits of Property in the manner prescribed by the Contractor.
- Deposits of Property will be ready for pickup when the Contractor arrives at the City facility so that the Contractor’s time on the premises can be minimized (less than 5 minutes).
- City does not guarantee what the dollar amount for any one pick-up and delivery of bank deposits of Property will be.

EXHIBIT C
TERMS OF PAYMENT

1. The Contractor's compensation shall not exceed \$150,000.00 over the life of the Agreement.
2. Annual pricing for standard pickup and delivery two days a week will be based on the following table:
 - Year 1 - \$225.00 per month per location under the Scope of Work.
 - Years 2 through 5 rates in the Scope of Work and detailed below will be automatically increased annually by the greater of 3% or CPI. For the purposes hereof, the term “CPI” means the Consumer Price Index for All Urban Consumers: Transportation services [CUUR0000SAS4], Index 1982-1984=100, Not Seasonally Adjusted, as reported by the US Department of Labor’s Bureau of Labor Statistics. Contractor shall have the right to charge a surcharge for fuel as set forth in the Attachment C-1 below. Contractor may also increase the charges set forth in the Scope of Work and below upon written notice to City in the event of a change in economic conditions beyond

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Contractor's reasonable control that increases the operating costs incurred by Contractor.

3. Additional Fees that may apply:

- Fuel Surcharge – See Attachment C-1 for the Fuel Surcharge Table.
- Special Trip (On-Call) - \$45.00 per trip
- Holiday Pickup - \$65.00
- Excess deposit items (limit of 7 items per trip per location)- \$2.00 per item in excess of 7 items per pickup per location
- Premises time in excess of 5 minutes - \$5.00 per minute thereafter
- Excess liability - \$0.50 per thousand over limit amount. (The Maximum Shipment Liability is set at \$150,000 cash and check combined per location per pickup)

4. The Contractor will obtain, and keep current during the term of this Agreement, the required City of Moreno Valley business license. Proof of a current City of Moreno Valley business license will be required prior to any payments by the City. Any invoice not paid because the proof of a current City of Moreno Valley business license has not been provided will not incur any fees, late charges, or other penalties. Complete instructions for obtaining a City of Moreno Valley business license are located at: http://www.moval.org/do_biz/biz-license.shtml

5. The Contractor will electronically submit an invoice to the City on a monthly basis for progress payments along with documentation evidencing services completed to date. The progress payment is based on actual time and materials expended in furnishing authorized professional services since the last invoice. The Contractor will submit all original invoices to Accounts Payable staff at AccountsPayable@moval.org

Accounts Payable questions can be directed to (951) 413-3073.

6. The Contractor agrees that City payments will be received via Automated Clearing House (ACH) Direct Deposit and that the required ACH Authorization form will be completed prior to any payments by the City. Any invoice not paid because the completed ACH Authorization Form has not been provided will not incur any fees, late charges, or other penalties. The ACH Authorization Form is located at: http://www.moval.org/city_hall/forms.shtml#bf

7. The minimum information required on all invoices is:

- A. Contractor Name, Mailing Address, and Phone Number
- B. Invoice Date
- C. Contractor Invoice Number

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- D. City-provided Reference Number (e.g. Project, Activity)
 - E. Detailed work hours by class title (e.g. Manager, Technician, or Specialist), services performed and rates, explicit portion of a contract amount, or detailed billing information that is sufficient to justify the invoice amount; single, lump amounts without detail are not acceptable.
8. The City shall pay the Contractor for all invoiced, authorized services within thirty (30) days of receipt of the invoice for same.
9. Reimbursement for Expenses. Contractor shall not be reimbursed for any expenses unless authorized in writing by City.



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EXHIBIT C-1

FUEL SURCHARGE MATRIX



Custom Fuel Surcharge Index and Methodology

Our fuel surcharge calculation method is based on the 3 week rolling average of the U. S. Energy Information Administration (eia.doe.gov). The Department of Energy website is updated every Tuesday and the National average is the benchmark used.

Each month, the 3-week rolling average will be recalculated and the surcharge will be adjusted up or down based on the following matrix:

For any 3-week U.S. National Average Diesel Fuel price over \$4.00 add an additional 1% for every \$0.25 per gallon increase.

<u>Per Gallon Price</u>	<u>Surcharge</u>
Below- \$2.50	0%
\$2.501-\$2.75	1%
\$2.751-\$3.00	2%
\$3.001-\$3.25	3%
\$3.251-\$3.50	4%
\$3.501-\$3.75	5%
\$3.751-\$4.00	6%

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Report to City Council

TO: Mayor and City Council

FROM: Michael L. Wolfe, P.E., Public Works Director/City Engineer

AGENDA DATE: June 4, 2019

TITLE: WASTE MANAGEMENT FY 2019/20 RATE ADJUSTMENT

RECOMMENDED ACTION

Recommendation:

1. Approve the request by Waste Management, Inc. ("Waste Management") to increase solid waste rates in FY2019/20 to include a new fee for Recycling Material Offset (RMO) Costs in the amount of \$0.31 per month, per residential account.

SUMMARY

The action before the City Council is to consider the request from Waste Management for a proposed FY 2019/20 solid waste rate adjustment for the City of Moreno Valley. This report provides an overview of Waste Management's proposed FY 2019/20 solid waste rate adjustment for the City of Moreno Valley. Each year, the City Council reviews and considers for approval, as applicable, Waste Management's requested rates prior to those rates being assessed on the subsequent Fiscal Year's (i.e. FY 2019/20) solid waste bills. The Waste Management Franchise Agreement indicates that upon request from the Franchisee and subject to the approval of the City Council, which approval shall not be unreasonably withheld, the Contractor Service Rates shall be adjusted to reflect changes in the Consumer Price Index (CPI). The CPI for the FY 2019/20 rate adjustments is 2.708%, while the previous year's CPI adjustment for FY 2018/19 was 3.785%.

In addition, the Franchise Agreement indicates that landfill and green waste processing costs shall be adjusted according to a direct "pass-through" of the actual Contractor's costs on a pro-rata basis to each customer.

The proposed solid waste rate adjustment will allow Waste Management to continue to provide quality comprehensive solid waste services to our community. The adjusted rates are increasing based upon changes in CPI, changes in landfill rates, and changes

in green waste processing costs, as applied to actual tonnages of trash and green waste collected in the City of Moreno Valley. Additionally, Waste Management has also proposed an additional fee for *Recycling Material Offset (RMO) Costs* and an increase in the commercial contamination charge greater than CPI for consideration.

Waste Management has also proposed that they would perform ten bulky waste collection events per year, at no additional cost to the City.

The proposed Waste Management FY 2019/20 solid waste rate adjustment for the City of Moreno Valley was reviewed with members of the Finance Subcommittee on May 28, 2019.

DISCUSSION

The City of Moreno Valley has an exclusive franchise agreement with Waste Management for the collection and handling of solid waste, green waste, and recycling within the City (collectively, “solid waste”). Per the Moreno Valley Municipal Code (“Code”), unless otherwise approved by the City for self-hauling, all premises within the City that accumulate or produce solid waste shall receive at minimum weekly solid waste services through the franchise waste hauler. Regular solid waste service is important to preserve the health, welfare, and sustainability of our community.

The four components of the residential solid waste rate are: 1) service component; 2) trash disposal component; 3) green waste disposal component; and 4) franchise fee component. The factors impacting the cost of each of these components are detailed below:

- Service Component Factors: Consumer Price Index (CPI)
- Trash Disposal Component Factors: County of Riverside landfill rate, residential trash waste tonnage, total number of residential accounts
- Green Waste Disposal Component Factors: Third-party green waste processing fee, residential green waste tonnage, total number of residential accounts
- Franchise Fees: Constant 12.13% of total solid waste rate

The changes (increase or decrease) in the factors impacting the solid waste rate are detailed below:

Table 1: Residential and Commercial Rate Component Factors

Residential/Commercial Rate Component	Factor	Percentage Increase/(Decrease)
Service Component	CPI	2.708%
Trash Disposal Component	Landfill rate	3.051%

	Tonnage – residential trash (lbs./household per week)	(6.312%)
	Tonnage – commercial trash (lbs./customer per week)	(2.377%)
Green Waste Disposal Component (only for residential rate)	Green waste processing fee	7.179%
	Tonnage – residential green waste (lbs./household per week)	2.794%

Residential Rate:

The proposed single-family residential solid waste rate for standard service in FY 2019/20 represents an increase from \$23.81 to \$24.33, which is 2.184% above the current rate.

In addition to the CPI increase outlined in the Franchise Agreement, Waste Management has proposed an additional fee for *Recycling Material Offset (RMO) Costs*, which would represent an additional \$0.31 per residential account, per month. The commodity values for recyclable materials have been negatively affected by various international policies, which has caused increased labor costs and decreased revenue for recyclables. The purpose of the additional fee for RMO Costs is to recover some of the costs associated with increased labor and to account for decreased revenue from selling recyclable materials. The proposed fee for *Recycling Material Offset Costs* would represent an additional \$0.31 to the FY 2019/20 adjusted monthly rate of \$24.33. For a single-family residential customer with standard service, this would result in a combined monthly residential rate of \$24.64. The details of this rate increase are outlined in Table 2.

Table 2: New Fee Proposed by Waste Management for Recycling Material Offset (RMO) Costs

Residential Monthly Rates					
FY 2018/19 Current Rate	Standard Proposed Annual Increase (CPI)	FY 2019/20 Proposed Rate	Proposed RMO Fee	Proposed Rate with RMO	Total Percentage Increase
\$23.81	\$0.52	\$24.33	\$0.31	\$24.64	3.486%

Commercial Rate:

Similar to residential rates, Waste Management has proposed an increase associated with the CPI outlined in the Franchise Agreement for commercial rates. For the most common commercial solid waste service, which is a 3-yard bin serviced once per week, the proposed increase is from \$165.24 to \$169.43. This is 2.536% above the current commercial rate.

State mandated regulations were implemented in California to improve efficiency and compliance for statewide recycling and waste diversion goals. Assembly Bill 939 (AB 939) established waste diversion mandates for jurisdictions, while Assembly Bill 341 (AB 341) established state mandates for Mandatory Commercial Recycling. These mandates resulted in increased usage of commercial recycling bins, which improved recycling efforts. However, if a commercial recycling bin becomes contaminated with trash, it will likely end up being processed as trash, which would then be added to the City's waste tonnage and increases the cost to Waste Management.

The State monitors the City's waste tonnage and overall program requirements, which if not met could result in fines to the City. Therefore, an important element of our recycling program is to reduce contamination of commercial recycling bins as much as possible. In an effort to reduce commercial recycling contamination, an increase in the Commercial Recycle Contamination fee is proposed by Waste Management. The current FY 2018/19 Commercial Recycle Contamination fee (\$58.66) doesn't discourage the contamination of commercial recycling bins. To help deter repeated occurrences of commercial recycling contamination, an increase from \$58.66 to \$100.00 is proposed by Waste Management.

Summary:

Details regarding the current rate, proposed rate, and increase amount/percentage, as applied to the residential rate and most common commercial rate are noted below:

Table 3: Solid Waste Rate Adjustment Examples (excluding fee for Recycling Material Offset (RMO) Costs)

Customer Category	FY 2018/2019 Current Rate ⁽²⁾	FY 2019/2020 Proposed Rate ⁽²⁾	Increase Amount ⁽²⁾	Percentage Increase
Single Family Residential	\$23.81	\$24.33	\$0.52	2.184%
Commercial 3 Yard ⁽³⁾ 1X Weekly Service	\$165.24	\$169.43	\$4.19	2.536%

⁽²⁾ Monthly rates for solid waste service. Customers are billed quarterly by Waste Management, Inc.

⁽³⁾ 3 yard 1x weekly service is the most common commercial service utilized.

Table 4: Solid Waste Rate Adjustment Examples (including fee for Recycling Material Offset (RMO) Costs for residential accounts only)

Customer Category ⁽¹⁾	FY 2018/2019 Current Rate ⁽²⁾	FY 2019/2020 Proposed Combined Rate ⁽²⁾	Increase Amount ⁽²⁾	Percentage Increase
Single Family Residential	\$23.81	\$24.64 ⁽⁴⁾	\$0.83 ⁽⁴⁾	3.486% ⁽⁴⁾
Commercial 3 Yard ⁽³⁾	\$165.24	\$169.43	\$4.19	2.536%

1X Weekly Service				
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- (1) Attachment 1 includes the FY 2019/2020 proposed solid waste rate adjustment for all customer categories.
- (2) Monthly rates for solid waste service. Customers are billed quarterly by Waste Management, Inc.
- (3) 3 yard 1x weekly service is the most common commercial service utilized.
- (4) Includes an RMO fee of an additional \$0.31, per residential account, per month.

ALTERNATIVES

1. Consistent with the Terms of the Franchise Agreement, grant the Waste Management request for the proposed solid waste rate adjustment in 2019/2020 to include the Waste Management proposed fee for Recycling Material Offset (RMO) Costs in the amount of an additional \$0.31 per month, per residential account, as detailed in the attached rate sheet. *Staff recommends this alternative as it is consistent with the terms of the Franchise Agreement.*
2. Grant the Waste Management request for FY 2019/20 proposed solid waste rate adjustment excluding the Waste Management proposed fee for Recycling Material Offset (RMO) Costs.
3. Grant the Waste Management request for the FY 2019/20 proposed solid waste rate adjustment excluding the Waste Management proposed fee for Recycling Material Offset (RMO) Costs, and a Commercial Recycling Contamination fee of \$60.25 instead of \$100.00.
4. Provide staff with alternate direction regarding the proposed FY 2019/20 proposed solid waste rate adjustment.

FISCAL IMPACT

The City receives a 12.13% franchise fee on revenue collected by Waste Management, Inc. Adjustments to solid waste rates have a proportionate effect on revenues received by the City.

Solid waste services are exempt from voting requirements under Proposition 218, Section 6(c) because the obligation to pay for solid waste service in Moreno Valley is not incident to property ownership. Property owners may choose other legal means of disposal in our City. Furthermore, unpaid solid waste fees are not an encumbrance on a property, although delinquent fees can become the subject of a judgment lien.

PREPARATION OF STAFF REPORT

Prepared By:
Kevin Teagarden
Management Analyst

Department Head Approval:
Michael L. Wolfe
Public Works Director/City Engineer

Concurred By:
Robert Lemon
Maintenance & Operations Division Manager

CITY COUNCIL GOALS

Revenue Diversification and Preservation. Develop a variety of City revenue sources and policies to create a stable revenue base and fiscal policies to support essential City services, regardless of economic climate.

Community Image, Neighborhood Pride and Cleanliness. Promote a sense of community pride and foster an excellent image about our City by developing and executing programs which will result in quality development, enhanced neighborhood preservation efforts, including home rehabilitation and neighborhood restoration.

CITY COUNCIL STRATEGIC PRIORITIES

- 1. Economic Development
- 2. Public Safety
- 3. Library
- 4. Infrastructure
- 5. Beautification, Community Engagement, and Quality of Life
- 6. Youth Programs

ATTACHMENTS

- 1. 2019 Waste Management Rate Sheet

APPROVALS

Budget Officer Approval	<u>✓ Approved</u>	5/28/19 7:26 AM
City Attorney Approval	<u>✓ Approved</u>	5/28/19 4:49 PM
City Manager Approval	<u>✓ Approved</u>	5/30/19 1:21 PM



Report to City Council

TO: Mayor and City Council

FROM: Abdul Ahmad, Fire Chief

AGENDA DATE: June 4, 2019

TITLE: AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER FIRE APPARATUS

RECOMMENDED ACTION

Recommendations:

1. Authorize the purchase of a 101' Aerial Ladder Fire Apparatus and related emergency equipment for a not to exceed amount of \$1,307,912 from General Fund Account No. 1010-40-45-30110-660322.
2. Authorize the Moreno Valley Fire Department to execute a Purchase Order for a 101' Aerial Ladder Fire Apparatus from Kovatch Mobile Equipment, dba KME Fire Apparatus, the vendor awarded through a competitive bid process conducted by Riverside County Central Purchasing Department.

SUMMARY

This report recommends the City Council authorize the Moreno Valley Fire Department to purchase (1) 101' Aerial Ladder Fire Apparatus, with needed emergency equipment, from Kovatch Mobile Equipment, dba KME Fire Apparatus. This vendor was selected through a competitive bid process conducted by the County of Riverside Central Purchasing Department. Staff is requesting approval to issue a purchase order for \$1,307,912 to Kovatch Mobile Equipment with General Funds available in the FY 18/19 Fire Departments approved budget allocation.

DISCUSSION

Since incorporation, the Riverside County Fire Department has provided fire services to the City of Moreno Valley, through a cooperative contractual agreement. There are presently seven fire stations, with seven front line fire engines, serving the community of Moreno Valley. In addition to the fire engines, there is one front line fire truck providing

additional fire support. Each fire engine is staffed with three full time personnel and the fire truck is staffed with four full time personnel. The department also has two reserve engines and one reserve fire truck to be used when the front line equipment is out of service.

Traditional truck company responsibilities include search and rescue, forcible entry, ventilation of smoke and hot gases, aerial water application as well as providing a staffing augmentation to assist engine company personnel and provide back up in primary responses when engine companies are committed to other emergencies. Truck companies also provide more equipment than can be carried on engine companies, including heavy rescue equipment, auto extrication ("Jaws of Life"), smoke removal fans, chain saws and large water delivery appliances.

In November 2006, City Council approved the purchase of a new 101' Aerial Ladder Fire Apparatus (T2), which was put in service in year 2008. This truck was assigned to Fire Station 2, allowing for the old 101' Aerial Ladder Fire Apparatus (T202) purchased in year 2003 to be placed into reserve status. Presently, T2 is one of the busiest ladder trucks in Riverside County and has become the only ladder truck operational in the department. The reserve ladder truck has experienced a multitude of mechanical issues, including engine failure, making it unfeasible to repair due to the age of the equipment.

Staff is requesting approval to purchase a new 101' Aerial Ladder Fire Apparatus from Kovatch Mobile Equipment, dba KME Fire Apparatus for \$1,307,912, including tax and delivery. This vendor was selected through a competitive bid process conducted by the Riverside County Central Purchasing Department. Since the City of Moreno Valley contracts for fire services through a cooperative agreement with the County of Riverside, we were able to piggyback on their bid to obtain better pricing for this purchase.

The City of Moreno Valley is experiencing a sustained period of almost unprecedented growth. As the City grows in size, it also increases in complexity. To meet this growth, additional equipment must be placed into service as the current equipment ages and become obsolete.

ALTERNATIVES

Council has the following alternatives:

1. Approve the purchase of a new 101' Aerial Ladder Fire Apparatus from Kovatch Mobile Equipment, the vendor selected by the Riverside County Central Purchasing Department. *Staff recommends this alternative due to the need for replacement of aging equipment and the standardization of equipment in the Riverside County Fire Department.*
2. Do not approve the purchase of a new 101' Aerial Ladder Fire Apparatus from Kovatch Mobile Equipment, the vendor selected by the Riverside County Central Purchasing Department. *Staff does not recommend this alternative.*

FISCAL IMPACT

Funds are available in the Moreno Valley Fire Departments General Fund Account No. 1010-40-45-30110-660322 and 1010-40-45-30110-660399 for FY 18/19 to execute a purchase order for \$1,307,912 to Kovatch Mobile Equipment, dba KME Fire Apparatus.

PREPARATION OF STAFF REPORT

Prepared By:
Felicia London
Public Safety Contracts Administrator

Department Head Approval:
Abdul Ahmad
Fire Chief

CITY COUNCIL GOALS

Public Safety. Provide a safe and secure environment for people and property in the community, control the number and severity of fire and hazardous material incidents, and provide protection for citizens who live, work and visit the City of Moreno Valley.

CITY COUNCIL STRATEGIC PRIORITIES

- 1. Economic Development
- 2. Public Safety
- 3. Library
- 4. Infrastructure
- 5. Beautification, Community Engagement, and Quality of Life
- 6. Youth Programs

ATTACHMENTS

- 1. FPARC-327 - Aerial Fire Apparatus Bid Packet (Final)
- 2. FPARC-327 - Aerial Fire Apparatus Bid .Addendum # 1
- 3. FPARC-07057-002-0524 KME 101' TDA FINAL Quote

APPROVALS

Budget Officer Approval	<u>✓ Approved</u>	5/23/19 8:46 AM
City Attorney Approval	<u>✓ Approved</u>	5/28/19 10:48 AM
City Manager Approval	<u>✓ Approved</u>	5/30/19 11:59 AM

REQUEST FOR PROPOSAL # FPARC-327
TRACTOR DRAWN AERIAL FIRE APPARATUS
TERMS AND CONDITIONS DOCUMENT



By:
John Miller, CPPO
Procurement Contract Specialist
Riverside County Purchasing & Fleet Services
2980 Washington Street
Riverside, CA 92504-4647
(951) 634-3090
Email: john.miller@fire.ca.gov
NIGP Code(s): 07230, 07103

This RFP is available at the following links:
www.purchasing.co.riverside.ca.us and www.publicpurchase.com

NOTE: BIDDERS ARE RESPONSIBLE TO READ ALL INFORMATION THAT IS STATED IN THIS REQUEST FOR PROPOSAL AND PROVIDE A RESPONSE AS REQUIRED

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Attachment: FPARC-327 - Aerial Fire Apparatus Bid Packet (Final) (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER FIRE

INSTRUCTIONS TO BIDDERS

1. **Vendor Registration** – Vendor Registration is a two-step process; first step is to register your company on the County's website to receive purchase orders and payments, and the second step is a 3rd party website (Public Purchase) for bidding opportunities
2. **First Step- County of Riverside Purchasing website** - Unless stated elsewhere in this document, vendors may participate in the bidding process; however, the County does encourage all bidders to register online at <http://www.purchasing.co.riverside.ca.us/Vendorsregistrationmaintenance.aspx>. If awarded a contract, bidder must be registered with the County of Riverside within five days of announced award. This will avoid delays in the purchasing and payment process.
3. **Second Step-Public Purchase** - Public Purchase is a third-party web based e-Procurement service provider utilized by the County of Riverside for RFQ's and RFP's. It will take only minutes to register and it is free. For future bidding, opportunities please also register online at: <https://www.publicpurchase.com/gems/register/vendor/register>. For all RFQ's Riverside County's Purchasing website will post a notification on its website, and will provide a direct link to PublicPurchase.com.
4. **Pricing/Delivery/Terms/Tax** - All pricing shall be quoted F.O.B. destination, (e.g., cash terms less than 20 days should be considered net) excluding applicable tax, which is a separate line item. The County reserves the right to designate method of freight. The County pays California Sales Tax and is exempt from Federal excise tax. In the event of an extension error, the unit price shall prevail.
5. **Other Terms and Conditions** - The terms and conditions as indicated in this document and/or attached are hereby included with full force and like effect as if set forth herein. Copies of the applicable Terms and Conditions may be obtained by visiting the Purchasing website at www.Purchasing.co.riverside.ca.us or by contacting Riverside County Purchasing at the number shown above and requesting a copy to be emailed.
6. **Period of Firm Pricing** - Unless stated otherwise elsewhere in this document, prices shall be firm for 120 days after the closing date, and prior to an award being made.
7. **Specification/Changes** - Wherever brand names are used, the words "or equal" shall be considered to appear and be a part of the specification. If you are quoting another make or model, cross out our nomenclature and insert yours. If no make or model is stipulated, insert yours. Attach applicable specifications and/or brochures. Variations in manufacturers, design, etc., may be acceptable, bidders are encouraged to offer them as alternatives; however, the County reserves the right to reject those alternatives as nonresponsive.
8. **Recycled Material** - Wherever possible, the County of Riverside is looking for items made from, or containing in part, recycled material. Bidders are encouraged to bid items containing recycled material as an alternative for the items specified; however, the County reserves the right to reject those alternatives as nonresponsive.
9. **Method of Award** - The County reserves the right to reject any or all offers, to waive any discrepancy or technicality and to split or make the award in any manner determined by the County to be most advantageous to the County. The County recognizes that prices are only one of several criteria to be used in judging an offer and the County is not legally bound to accept the lowest offer.
10. **Return of Bid/Closing Date/Return to** - The proposal response shall be submitted via mail or courier service to Riverside County Purchasing and Fleet Services by 1:30 PM Pacific Time on the closing date listed in the RFP. Proposals not received by County Purchasing by the closing date and time will not be accepted. The County will not be responsible for and will **not** accept late proposals.
11. **Local Preference** - The County of Riverside has adopted a local preference program for those businesses located within the County of Riverside. A five percent (5%) price preference may be applied to the total bid price during evaluation of the bid responses. If the overall low responsible and responsive business is a non local vendor, the low local vendor who is within five percent (5%) of that overall low bidder may, where applicable, be offered the opportunity to meet the overall low bidder's price and will receive the award. To qualify as a local business, the business must meet all criteria delineated in the Local Preference Affidavit 116-260 and submit the form with their

bid. If Bidder fails to provide a completed Local Business Qualification Affidavit form 116-260 with their bid submittal, the Bidder may be disqualified from obtaining local preference. It is the sole responsibility of the Bidder to identify local preference with each bid submittal. Application of this local preference may be waived if funding sources disallow it.

or

12. **Veterans Incentive Purchasing Program** – The County of Riverside has implemented a Veteran Business and Veteran Qualified Business preference policy. Where applicable, a five percent (5%) preference shall be applied to the total bid price of all quotes/bids/proposals received by the County from veteran owned business or veteran qualified business. A veteran business is one where at least 51% of the business is owned by an honorably discharged veteran. A veteran qualified business is one where at least 10% their workforce is honorably discharged veterans. If Bidder fails to provide a completed Veteran Qualified Business Qualification Affidavit form with their bid submittal, the Bidder may be disqualified from obtaining the preference and it is the sole responsibility of the Bidder to identify the preference with each bid submittal. To qualify bidders must complete the Veteran Business/Veteran Qualified Affidavit, Form 116-261. This preference does not apply to all types of bids such as public works projects and some grant funded programs.

Terms and Conditions Acknowledgement (Vendor Company Name):			
IF CHECKED, THE FOLLOWING DOCUMENTS HEREBY MADE PART OF THIS RFQ			
√ APPENDIX "A"	√ EXHIBIT(S)	PLANS/DRAWINGS	
√#116-260 Local Business Qualification Affidavit	√#116-261 Veterans Business Qualification Affidavit		
IF CHECKED, THE FOLLOWING GENERAL CONDITIONS ARE INCLUDED WITH FULL FORCE AND LIKE EFFECT AS IF SET FORTH HEREIN			
√ #116-200	General Conditions Product/Personal/Professional Services	√ #116-210	General Conditions Materials and/or Services
√ #116-230	General Conditions – Equipment	√ #116-310	Boilerplate Contract
To access any of these General Conditions go to www.purchasing.co.riverside.ca.us , located in Vendor link. If an addendum is issued for this procurement, it will be the vendor’s responsibility to retrieve all applicable addendum(s) from the Public Purchase website.			

Attachment: FPARC-327 - Aerial Fire Apparatus Bid Packet (Final) (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER FIRE

1.0 TIMELINE/IMPORTANT DATES

TIMELINE	DATES
1.1 RELEASE OF REQUEST FOR PROPOSAL	Friday, August 10, 2018
1.2 NON-MANDATORY PRE-PROPOSAL CONFERENCE Location: Riverside County Fire Department 88 East Rider Street Perris, CA 92571 Firms interested in attending the Pre-Proposal Conference are requested to confirm their attendance via e-mail to john.miller@fire.ca.gov by 1:00 PM on Wednesday, August 29 st , 2018. *Please note that attendance is limited to no more than three (3) in-person attendees per Bidder.	Wednesday, September 5 th , 2018 Time: 9:00 am Pacific Time The Pre-Proposal Conference will also be available via teleconference. The toll-free number is: 1-866-700-9668 The Access Code is: 9845839
1.3 DEADLINE FOR SUBMISSION OF QUESTIONS Bidders must submit their questions online at www.publicpurchase.com All questions submitted are located within the RFP are located on www.publicpurchase.com	Must be received in writing by: Wednesday, September 26, 2018 Responses to questions will be posted on www.publicpurchase.com no later than Wednesday, October 3, 2018
1.4 DEADLINE FOR PROPOSAL SUBMITTAL ALL PROPOSALS MUST BE DELIVERED TO: County of Riverside Purchasing and Fleet Services 2980 Washington Street Riverside, CA 92504 RFP # FPARC-327	On or before Wednesday, October 24 th , 2018 Time: <u>1:30 pm Pacific Time</u>
1.5 TENTATIVE DATE FOR AWARDING RFP Approximately 60 to 120 days after the RFP closes. The County of Riverside expects to have a contract in place on or before 12/31/2018.	The Bidders are responsible for checking the Purchasing website for notice of intent to award at: www.publicpurchase.com or www.Purchasing.co.riverside.ca.us

- 1.6 **Inquiries:** All inquiries must be submitted to the Procurement Contract Specialist in writing on or before the last day for questions. Please refer to “Section 1.0 Timeline/Dates” for the particular date. Inquiries must reference the section number and title from the RFP. Bidders must submit their questions online at www.publicpurchase.com and must be in written format. All responses to Bidders questions will be posted online at www.publicpurchase.com.

2.0 PERIOD OF PERFORMANCE

The County intends to award a contract for up to five (5) years to the most responsive, responsible bidder; whose proposal, represents the best value to the County. The contract term will include a one (1) year base period and four (4) one (1) year options renewable at the County's sole discretion. The County anticipates placing an order for up to two (2) TDA apparatus in the first year and one (1) TDA apparatus each year thereafter for a total of up to six (6) TDA apparatus over the five (5) year term. These quantities; however, may be more or less and are dependent on the availability of fiscal funding and operational needs of the county.

3.0 DEFINITIONS

- 3.1 "Addendum" refers to a change(s) to the RFP (Request for Proposals).
- 3.2 "Bid" refers to the proposal submitted by a Bidder on the Bid Form consistent with the Instructions to Bidders, to complete the work for a specified sum of money and within a specified period.
- 3.3 "Bidder" refers to an individual, firm, partnership or corporation that submits a qualified Bid for the work, either directly or through a duly authorized representative.
- 3.4 "Board of Supervisors" refers to the County of Riverside's Board of Supervisors.
- 3.5 "Contractor" refers to any employee, agent, or representative of the contract company used in conjunction with the performance of the contract. For the purposes of this RFP, Contractor, Vendor, and Bidder are used interchangeably.
- 3.6 "County" refers the County of Riverside and the Riverside County Fire Department. For purposes of this RFP, Riverside County Fire Department and County are used interchangeably.
- 3.8 "RFP" refers to Request for Proposal.
- 3.9 "MQs" shall mean minimum qualifications

4.0 EVALUATION PROCESS

- 4.1 Proposals will be evaluated based on criteria determined to be appropriate by the County, which may include, but not necessarily limited to the following:
- a) Response to Attachment "A" FPARC-327 Bidder Proposal Response.
 - b) Overall cost to the County.
 - c) Bidder/Apparatus Manufacturer's technical capability and ability to meet specifications and quality of workmanship requirements annotated in this RFP.
 - d) Bidder/Apparatus Manufacturer's experience and proven ability in building apparatus similar in Type and Specification annotated in this RFP; to include, quality of recently completed projects, adherence to schedules/deadlines and budgets.
 - e) Past Performance References. (Pass/Fail)
 - f) Clarification, Exceptions or Deviations. (Pass/Fail)
 - g) Any other factors the County determines to be appropriate.
- 4.2 All proposals will be given thorough review. All communication during the bidding process and review selection phase must go through the Procurement Contract Specialist Mr. John Miller. Attempts by the Bidder to contact any other County representative regarding this solicitation will result in disqualification of the Bidder.
- 4.3 All evaluation material will be considered confidential and not released by the County. The County reserves the right to split or make the award that is most advantageous to the County.

5.0 GENERAL PROPOSAL SUBMITTAL

- 5.1 All proposals must be submitted in accordance with the standards and specifications contained within this RFP and must contain a cover page Tab B with a certification of intent to meet the requirements specified.
- 5.2 The County reserves the right to waive, at its discretion, any irregularity, which the County deems reasonably correctable or otherwise not warranting rejection of the proposal.
- 5.3 The County shall not pay any costs incurred or associated in the preparation of this or any proposal or for participation in the procurement process.
- 5.4 Modification of Proposals, any bidder who wishes to make modifications to a proposal already received by the County must withdraw his/her proposal in order to make the modifications. All modifications must be made in ink, properly initialed by bidder's authorized representative, executed, and submitted in accordance with the terms and conditions of this solicitation. It is the responsibility of the bidder to ensure that modified proposals are resubmitted before the RFP submittal deadline.
- 5.5 Bidders may withdraw their proposals at any time prior to the due date and time by submitting notification of withdrawal signed by the bidder's authorized agent. Proposals cannot be changed or modified after the date and time designated for receipt.
- 5.6 Late proposals will not be accepted. Postmarks will not be accepted in lieu of this requirement. Proposals submitted to any other County office will be rejected.
- 5.7 Faxed or emailed proposals will not be accepted.

- 5.8 All proposals shall be signed by an authorized agent and placed in a sealed package clearly marked "RFP # FPARC-327"
- 5.9 One (1) original and five (5) additional copies, each in a 3-ring binder for ease of opening by evaluators. Bidders shall submit one (1) (Microsoft Word or PDF document formatted on a virus free thumb drive) inside the **original binder** only.
- 5.10 Binder capacity should be a minimum of 2" (two inches) to allow for ease of referencing various sections. (Small binders that are over stuffed or difficult to open may count against the bidder)
- 5.11 Proposals must be typed uniformly on letter size (8 ½" x 11") sheets of white paper, single sided or double sided, each section clearly titled, with index dividers labeled Tabs A – I, and each page clearly and consecutively numbered. Proposals must be clean and suitable for copying. Proposals must be specific unto themselves. For example, "See Enclosed Manual" will not be considered an acceptable proposal. Receipt of all addenda, if any, must be signed and included in the proposal.
- 5.12 The proposal shall be concise and to the point. Costly bindings, color plates, glossy brochures, etc. are neither necessary nor recommended. A letter format in sufficient detail to allow thorough evaluation and analysis is required.
- 5.13 All work papers prepared in connection with the contractual services will remain the property of the successful bidder; however, all reports rendered to the County are the exclusive property of the County and subject to its use and control.

6.0 CONFIDENTIALITY AND PROPRIETARY DATA

Upon submission of a proposal and after the County's evaluation, the proposals become the exclusive property of the County. Upon submission of a proposal, the submission and any pertaining documents is subject to the State of California Public Records Act. Exceptions will be those elements in the California Government Code section 6250 et. seq. (Public Records Act) and which are marked "trade secret," "confidential," or "proprietary." The County shall not be liable or responsible for the disclosure of any such records, including, without limitation, those so marked, if disclosure is required by law, or by an order issued by a court of competent jurisdiction. In the event the County is required to defend an action on a Public Records Act request for any of the aforementioned documents, information, books, records, and/or contents of a Qualification marked "trade secret", "confidential", or "proprietary" the Vendor agrees to defend and indemnify the County from all costs and expenses, including reasonable attorney's fees, in action or liability arising under the Public Records Act. Where applicable, Federal regulations may take precedence over this language. If a Contractor's proposal is accepted and an agreement is made with the County, then the Contractor will be required to sign the most current HIPAA Business Associate Addendum (If applicable). If the County revises the HIPAA Associate Addendum, the Contractor shall sign a new agreement as it becomes available and adhere to the new requirements.

7.0 INTERPRETATION OF RFP

The Contractor must make careful examination and understand all of the requirements, specifications, and conditions stated in the RFP. If any Contractor planning to submit a proposal finds discrepancies in or omissions from the RFP, or is in doubt as to the meaning, a written request for interpretation or correction must be given to the County. Any changes to the RFP will be made only by written addendum and may be posted on the Purchasing website at www.purchasing.co.riverside.ca.us and www.publicpurchase.com. The County is not responsible for any other explanations or interpretations. If any provision in this agreement is held by a court of

competent jurisdiction to be invalid, void or unenforceable, the remaining provisions will nevertheless continue in full force without being impaired or invalidated in any way. All notices regarding this procurement may be posted on the County’s purchasing website at www.purchasing.co.riverside.ca.us and www.publicpurchase.com.

8.0 CONTRACTUAL DEVELOPMENT

If a proposal is accepted, the County will enter into a contractual agreement with the selected Contractor. A sample of the standard County contract to be used for this project is attached as Exhibit A. If an agreement cannot be reached, negotiations with the second ranking Contractor shall commence.

9.0 CANCELLATION OR MODIFICATION OF PROCUREMENT PROCESS

County may cancel the procurement process at any time. All proposals become the property of the County. All information submitted in the proposal becomes “public record” as defined by the State of California upon completion of the procurement process. If any proprietary information is contained in or attached to the proposal, it must be clearly identified by the Contractor; otherwise, the Contractor agrees that all documents provided may be released to the public after contract award.

The procurement process may be canceled after opening, but prior to award if the County determines that cancellation is in the best interest of the County for reasons (but not limited to) such as:

- ✓ Inadequate, ambiguous, or otherwise deficient specifications.
- ✓ The services are no longer required.
- ✓ Proposals received are at an unreasonable cost.
- ✓ Proposal did not arrive in open competition, were collusive, or not submitted in good faith.
- ✓ The County determines, after analysis of the proposals that its needs can be satisfied through a less expensive method.

The County reserves the right to amend or modify the specifications prior to the award of contract, as necessity may dictate, and to reject any proposals hereunder. This Request for Proposal does not commit the County to award a contract or to pay any costs incurred in the preparation of a proposal in response to this request. The County reserves the right to accept or reject any or all proposals received because of this request, to negotiate with any qualified source or to cancel in part or in its entirety this Request of Proposal if it is in the best interest of the County.

10.0 COUNTY OBSERVED HOLIDAYS

HOLIDAY	DAY OBSERVED
* New Year's Day	January 1
Martin Luther King Jr's Birthday	Third Monday in January
Lincoln’s Birthday	Second Tuesday in February
Washington’s Birthday	Third Monday in February
Memorial Day	Last Monday in May
Independence Day	July 4
Labor Day	First Monday in September
Columbus Day	Second Monday in October
Veterans' Day	November 12

*Thanksgiving Day	Fourth Thursday in November
* Following Thanksgiving	Friday following the fourth Thursday in November
*Christmas Day	December 25

*** Note:**

- Thanksgiving Day, which shall be the fourth Thursday in November unless otherwise appointed.
- Friday following Thanksgiving Day.
- December 24 and 31 when they fall on Monday.
- December 26 and January 2, when they fall on Friday.
- Friday proceeding January 1, February 12, July 4, November 11 or December 25, when such date falls on Saturday, the Monday following such date when such date falls on a Sunday.

Attachment: FPARC-327 - Aerial Fire Apparatus Bid Packet (Final) (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER FIRE

EXHIBIT A

SAMPLE AGREEMENT

for

(INSERT NAME OF PROGRAM)

between

COUNTY OF RIVERSIDE

and

(INSERT COMPANY NAME)



Attachment: FPARC-327 - Aerial Fire Apparatus Bid Packet (Final) (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER FIRE

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Attachment: FPARC-327 - Aerial Fire Apparatus Bid Packet (Final) (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER FIRE

This Agreement, made and entered into this ___ day of ___, 201X, by and between (INSERT COMPANY NAME), (herein referred to as "CONTRACTOR"), and the COUNTY OF RIVERSIDE, a political subdivision of the State of California, (herein referred to as "COUNTY"). The parties agree as follows:

1. Description of Services

1.1 CONTRACTOR shall provide all services as outlined and specified in Exhibit A, Scope of Services, consisting of (INSERT # OF PAGES) pages at the prices stated in Exhibit B, Payment Provisions, consisting of (INSERT # OF PAGES) pages, and Attachment I, HIPAA Business Associate Attachment to the Agreement, consisting of (INSERT # OF PAGES) pages.

1.2 CONTRACTOR represents that it has the skills, experience, and knowledge necessary to perform under this Agreement and the COUNTY relies upon this representation. CONTRACTOR shall perform to the satisfaction of the COUNTY and in conformance to and consistent with the highest standards of firms/professionals in the same discipline in the State of California.

1.3 CONTRACTOR affirms this it is fully apprised of all of the work to be performed under this Agreement; and the CONTRACTOR agrees it can properly perform this work at the prices stated in Exhibit B. CONTRACTOR is not to perform services or provide products outside of the Agreement.

1.4 Acceptance by the COUNTY of the CONTRACTOR's performance under this Agreement does not operate as a release of CONTRACTOR's responsibility for full compliance with the terms of this Agreement.

2. Period of Performance

2.1 This Agreement shall be effective upon signature of this Agreement by both parties and continues in effect through (INSERT DATE), unless terminated earlier. CONTRACTOR shall commence performance upon signature of this Agreement by both parties and shall diligently and continuously perform thereafter. The Riverside County Board of Supervisors is the only authority that may obligate the County for a non-cancelable multi-year agreement.

3. Compensation

3.1 The COUNTY shall pay the CONTRACTOR for services performed, products provided and expenses incurred in accordance with the terms of Exhibit B, Payment Provisions. Maximum payments by COUNTY to CONTRACTOR shall not exceed (INSERT DOLLAR AMOUNT) annually including all expenses. The COUNTY is not responsible for any fees or costs incurred above or beyond the contracted amount and shall have no obligation to purchase any specified amount of services or products. Unless otherwise specifically stated in Exhibit B, COUNTY shall not be responsible for payment of any of CONTRACTOR's expenses related to this Agreement.

3.2 No price increases will be permitted during the first year of this Agreement (If applicable). All price decreases (for example, if CONTRACTOR offers lower prices to another governmental entity) will automatically be extended to the COUNTY. The COUNTY requires written proof satisfactory to COUNTY of cost increases prior to any approved price adjustment. After the first year of the award, a minimum of 30-days advance notice in writing is required to be considered and approved by COUNTY. No retroactive price adjustments will be considered. Any price increases must be stated in a written amendment to this Agreement. The net dollar amount of profit will remain firm during the period of the Agreement. Annual increases shall not exceed the Consumer Price Index- All Consumers, All Items - Greater Los Angeles, Riverside and Orange County areas \and be subject to satisfactory performance review by the COUNTY and approved (if needed) for budget funding by the Board of Supervisors.

3.3 CONTRACTOR shall be paid only in accordance with an invoice submitted to COUNTY by CONTRACTOR within fifteen (15) days from the last day of each calendar month, and COUNTY shall pay the invoice within thirty (30) working days from the date of receipt of the invoice. Payment shall be made to CONTRACTOR only after services have been rendered or delivery of materials or products, and

acceptance has been made by COUNTY. Prepare invoices in duplicate. For this Agreement, send the original and duplicate copies of invoices to:

(INSERT DEPARTMENT NAME AND ADDRESS)

- a) Each invoice shall contain a minimum of the following information: invoice number and date; remittance address; bill-to and ship-to addresses of ordering department/division; Agreement number (insert contract ID#); quantities; item descriptions, unit prices, extensions, sales/use tax if applicable, and an invoice total.
- b) Invoices shall be rendered monthly in arrears.

3.4 The COUNTY obligation for payment of this Agreement beyond the current fiscal year end is contingent upon and limited by the availability of COUNTY funding from which payment can be made, and invoices shall be rendered “monthly” in arrears. In the State of California, Government agencies are not allowed to pay excess interest and late charges, per Government Codes, Section 926.10. No legal liability on the part of the COUNTY shall arise for payment beyond June 30 of each calendar year unless funds are made available for such payment. In the event that such funds are not forthcoming for any reason, COUNTY shall immediately notify CONTRACTOR in writing; and this Agreement shall be deemed terminated, have no further force, and effect.

4. Alteration or Changes to the Agreement

4.1 The Board of Supervisors and the COUNTY Purchasing Agent and/or his/her designee are the only authorized COUNTY representatives who may at any time, by written order, alter this Agreement. If any such alteration causes an increase or decrease in the cost of, or the time required for the performance under this Agreement, an equitable adjustment shall be made in the Agreement price or delivery schedule, or both, and the Agreement shall be modified by written amendment accordingly.

4.2 Any claim by the CONTRACTOR for additional payment related to this Agreement shall be made in writing by the CONTRACTOR within 30 days of when the CONTRACTOR has or should have notice of any actual or claimed change in the work, which results in additional and unanticipated cost to the CONTRACTOR. If the COUNTY Purchasing Agent decides that the facts provide sufficient justification, may authorize additional payment to the CONTRACTOR pursuant to the claim. Nothing in this section shall excuse the CONTRACTOR from proceeding with performance of the Agreement even if there has been a change.

5. Termination

5.1. COUNTY may terminate this Agreement without cause upon 30 days written notice served upon the CONTRACTOR stating the extent and effective date of termination.

5.2 COUNTY may, upon five (5) days written notice terminate this Agreement for CONTRACTOR's default, if CONTRACTOR refuses or fails to comply with the terms of this Agreement or fails to make progress that may endanger performance and does not immediately cure such failure. In the event of such termination, the COUNTY may proceed with the work in any manner deemed proper by COUNTY.

5.3 After receipt of the notice of termination, CONTRACTOR shall:

- (a) Stop all work under this Agreement on the date specified in the notice of termination; and
- (b) Transfer to COUNTY and deliver in the manner as directed by COUNTY any materials, reports or other products, which, if the Agreement had been completed or continued, would have been required to be furnished to COUNTY.

5.4 After termination, COUNTY shall make payment only for CONTRACTOR's performance up to the date of termination in accordance with this Agreement.

5.5 CONTRACTOR's rights under this Agreement shall terminate (except for fees accrued prior to the date of termination) upon dishonesty or a willful or material breach of this Agreement by CONTRACTOR; or in the event of CONTRACTOR's unwillingness or inability for any reason whatsoever to perform the terms of this Agreement. In such event, CONTRACTOR shall not be entitled to any further compensation under this Agreement.

5.6 If the Agreement is federally or State funded, CONTRACTOR cannot be debarred from the System for Award Management (SAM). CONTRACTOR must notify the COUNTY immediately of a debarment. CONTRACTOR to reference: System for Award Management (SAM) at <https://www.sam.gov> for Central Contractor Registry (CCR), Federal Agency Registration (Fedreg), Online Representations and Certifications Application, and Excluded Parties List System (EPLS)). Excluded Parties Listing System (EPLS) (<http://www.epls.gov>) (Executive Order 12549, 7 CFR Part 3017, 45 CFR Part 76, and 44 CFR Part 17). The System for Award Management (SAM) is the Official U.S. Government system that consolidated the capabilities of CCR/FedReg, ORCA, and EPLS.

5.7 The rights and remedies of COUNTY provided in this section shall not be exclusive and are in addition to any other rights and remedies provided by law or this Agreement.

6. Ownership/Use of Contract Materials and Products

The CONTRACTOR agrees that all materials, reports or products in any form, including electronic, created by CONTRACTOR for which CONTRACTOR has been compensated by COUNTY pursuant to this Agreement shall be the sole property of the COUNTY. The material, reports or products may be used by the COUNTY for any purpose COUNTY deems to be appropriate, including, but not limit to, duplication and/or distribution within the COUNTY or to third parties. CONTRACTOR agrees not to release or circulate in whole or part such materials, reports, or products without prior written authorization of the COUNTY.

7. Conduct of Contractor

7.1 The CONTRACTOR covenants that it presently has no interest, including, but not limited to, other projects or contracts, and shall not acquire any such interest, direct or indirect, which would conflict in any manner or degree with CONTRACTOR's performance under this Agreement. The CONTRACTOR further covenants that no person or subcontractor having any such interest shall be employed or retained by CONTRACTOR under this Agreement. The CONTRACTOR agrees to inform the COUNTY of all the CONTRACTOR's interests, if any, which are or may be perceived as incompatible with the COUNTY's interests.

7.2 The CONTRACTOR shall not, under circumstances which could be interpreted as an attempt to influence the recipient in the conduct of his/her duties, accept any gratuity or special favor from individuals or firms with whom the CONTRACTOR is doing business or proposing to do business, in accomplishing the work under this Agreement.

7.3 The CONTRACTOR or its employees shall not offer gifts, gratuity, favors, and entertainment directly or indirectly to COUNTY employees.

8. Inspection of Service; Quality Control/Assurance

8.1 All performance (which includes services, workmanship, materials, supplies and equipment furnished or utilized in the performance of this Agreement) shall be subject to inspection and test by the COUNTY or other regulatory agencies at all times. The CONTRACTOR shall provide adequate cooperation to any inspector or other COUNTY representative to permit him/her to determine the CONTRACTOR's conformity with the terms of this Agreement. If any services performed or products provided by CONTRACTOR are not in conformance with the terms of this Agreement, the COUNTY shall have the right to require the CONTRACTOR to perform the services or provide the products in conformance with the terms of the Agreement at no additional cost to the COUNTY. When the services to be performed or the products to be provided are of such nature that the difference cannot be

corrected; the COUNTY shall have the right to: (1) require the CONTRACTOR immediately to take all necessary steps to ensure future performance in conformity with the terms of the Agreement; and/or (2) reduce the Agreement price to reflect the reduced value of the services performed or products provided. The COUNTY may also terminate this Agreement for default and charge to CONTRACTOR any costs incurred by the COUNTY because of the CONTRACTOR's failure to perform.

8.2 CONTRACTOR shall establish adequate procedures for self-monitoring and quality control and assurance to ensure proper performance under this Agreement; and shall permit a COUNTY representative or other regulatory official to monitor, assess, or evaluate CONTRACTOR's performance under this Agreement at any time, upon reasonable notice to the CONTRACTOR.

9. Independent Contractor/Employment Eligibility

9.1 The CONTRACTOR is, for purposes relating to this Agreement, an independent contractor and shall not be deemed an employee of the COUNTY. It is expressly understood and agreed that the CONTRACTOR (including its employees, agents, and subcontractors) shall in no event be entitled to any benefits to which COUNTY employees are entitled, including but not limited to overtime, any retirement benefits, worker's compensation benefits, and injury leave or other leave benefits. There shall be no employer-employee relationship between the parties; and CONTRACTOR shall hold COUNTY harmless from any and all claims that may be made against COUNTY based upon any contention by a third party that an employer-employee relationship exists by reason of this Agreement. It is further understood and agreed by the parties that CONTRACTOR in the performance of this Agreement is subject to the control or direction of COUNTY merely as to the results to be accomplished and not as to the means and methods for accomplishing the results.

9.2 CONTRACTOR warrants that it shall make its best effort to comply with all federal and state statutes and regulations regarding the employment of aliens and others and to ensure that employees performing work under this Agreement meet the citizenship or alien status requirement set forth in federal statutes and regulations. CONTRACTOR shall obtain, from all employees performing work hereunder, all verification and other documentation of employment eligibility status required by federal or state statutes and regulations including, but not limited to, the Immigration Reform and Control Act of 1986, 8 U.S.C. §1324 et seq., as they currently exist and as they may be hereafter amended. CONTRACTOR shall retain all such documentation for all covered employees, for the period prescribed by the law.

9.3 Ineligible Person shall be any individual or entity who: Is currently excluded, suspended, debarred or otherwise ineligible to participate in the federal health care programs; or has been convicted of a criminal offense related to the provision of health care items or services and has not been reinstated in the federal health care programs after a period of exclusion, suspension, debarment, or ineligibility.

9.4 CONTRACTOR shall screen prospective Covered Individuals prior to hire or engagement. CONTRACTOR shall not hire or engage any Ineligible Person to provide services directly relative to this Agreement. CONTRACTOR shall screen all current Covered Individuals within sixty (60) days of execution of this Agreement to ensure that they have not become Ineligible Persons unless CONTRACTOR has performed such screening on same Covered Individuals under a separate agreement with COUNTY within the past six (6) months. Covered Individuals shall be required to disclose to CONTRACTOR immediately any debarment, exclusion or other event that makes the Covered Individual an Ineligible Person. CONTRACTOR shall notify COUNTY within five (5) business days after it becomes aware if a Covered Individual providing services directly relative to this Agreement becomes debarred, excluded or otherwise becomes an Ineligible Person.

9.5 CONTRACTOR acknowledges that Ineligible Persons are precluded from providing federal and state funded health care services by contract with COUNTY in the event that they are currently sanctioned or excluded by a federal or state

law enforcement regulatory or licensing agency. If CONTRACTOR becomes aware that a Covered Individual has become an Ineligible Person, CONTRACTOR shall remove such individual from responsibility for, or involvement with, COUNTY business operations related to this Agreement.

9.6 CONTRACTOR shall notify COUNTY within five (5) business days if a Covered Individual or entity is currently excluded, suspended or debarred, or is identified as such after being sanction screened. Such individual or entity shall be promptly removed from participating in any activity associated with this Agreement.

10. Subcontract for Work or Services

No contract shall be made by the CONTRACTOR with any other party for furnishing any of the work or services under this Agreement without the prior written approval of the COUNTY; but this provision shall not require the approval of contracts of employment between the CONTRACTOR and personnel assigned under this Agreement, or for parties named in the proposal and agreed to under this Agreement.

11. Disputes

11.1 The parties shall attempt to resolve any disputes amicably at the working level. If that is not successful, the dispute shall be referred to the senior management of the parties. Any dispute relating to this Agreement, which is not resolved by the parties, shall be decided by the COUNTY's Purchasing Department's Compliance Contract Officer who shall furnish the decision in writing. The decision of the COUNTY's Compliance Contract Officer shall be final and conclusive unless determined by a court of competent jurisdiction to have been fraudulent, capricious, arbitrary, or so grossly erroneous to imply bad faith. The CONTRACTOR shall proceed diligently with the performance of this Agreement pending the resolution of a dispute.

11.2 Prior to the filing of any legal action related to this Agreement, the parties shall be obligated to attend a mediation session in Riverside County before a neutral third party mediator. A second mediation session shall be required if the first session is not successful. The parties shall share the cost of the mediations.

12. Licensing and Permits

CONTRACTOR shall comply with all State or other licensing requirements, including but not limited to the provisions of Chapter 9 of Division 3 of the Business and Professions Code. All licensing requirements shall be met at the time proposals are submitted to the COUNTY. CONTRACTOR warrants that it has all necessary permits, approvals, certificates, waivers and exemptions necessary for performance of this Agreement as required by the laws and regulations of the United States, the State of California, the County of Riverside and all other governmental agencies with jurisdiction, and shall maintain these throughout the term of this Agreement.

13. Use By Other Political Entities

The CONTRACTOR agrees to extend the same pricing, terms, and conditions as stated in this Agreement to each and every political entity, special district, and related non-profit entity in Riverside County. It is understood that other entities shall make purchases in their own name, make direct payment, and be liable directly to the CONTRACTOR; and COUNTY shall in no way be responsible to CONTRACTOR for other entities' purchases.

14. Non-Discrimination

CONTRACTOR shall not be discriminate in the provision of services, allocation of benefits, accommodation in facilities, or employment of personnel on the basis of ethnic group identification, race, religious creed, color, national origin, ancestry, physical handicap, medical condition, marital status or sex in the performance of this Agreement; and, to the extent they shall be found to be applicable hereto, shall comply with the provisions of the California Fair Employment and Housing Act (Gov. Code 12900 et. seq),

the Federal Civil Rights Act of 1964 (P.L. 88-352), the Americans with Disabilities Act of 1990 (42 U.S.C. S1210 et seq.) and all other applicable laws or regulations.

15. Records and Documents

CONTRACTOR shall make available, upon written request by any duly authorized Federal, State, or COUNTY agency, a copy of this Agreement and such books, documents and records as are necessary to certify the nature and extent of the CONTRACTOR’s costs related to this Agreement. All such books, documents and records shall be maintained by CONTRACTOR for at least five years following termination of this Agreement and be available for audit by the COUNTY. CONTRACTOR shall provide to the COUNTY reports and information related to this Agreement as requested by COUNTY.

16. Confidentiality

16.1 The CONTRACTOR shall not use for personal gain or make other improper use of privileged or confidential information which is acquired in connection with this Agreement. The term “privileged or confidential information” includes but is not limited to: unpublished or sensitive technological or scientific information; medical, personnel, or security records; anticipated material requirements or pricing/purchasing actions; COUNTY information or data which is not subject to public disclosure; COUNTY operational procedures; and knowledge of selection of contractors, subcontractors or suppliers in advance of official announcement.

16.2 The CONTRACTOR shall protect from unauthorized disclosure names and other identifying information concerning persons receiving services pursuant to this Agreement, except for general statistical information not identifying any person. The CONTRACTOR shall not use such information for any purpose other than carrying out the CONTRACTOR’s obligations under this Agreement. The CONTRACTOR shall promptly transmit to the COUNTY all third party requests for disclosure of such information. The CONTRACTOR shall not disclose, except as otherwise specifically permitted by this Agreement or authorized in advance in writing by the COUNTY, any such information to anyone other than the COUNTY. For purposes of this paragraph, identity shall include, but not be limited to, name, identifying number, symbol, or other identifying particulars assigned to the individual, such as finger or voice print or a photograph.

(Depending on the type of service “HIPAA” may or may not apply)

16.3 The CONTRACTOR is subject to and shall operate in compliance with all relevant requirements contained in the Health Insurance Portability and Accountability Act of 1996 (HIPAA), Public Law 104-191, enacted August 21, 1996, and the related laws and regulations promulgated subsequent thereto. Please refer to Attachment 1 of this agreement.

17. Administration/Contract Liaison

The COUNTY Purchasing Agent, or designee, shall administer this Agreement on behalf of the COUNTY. The Purchasing Department is to serve as the liaison with CONTRACTOR in connection with this Agreement.

18. Notices

All correspondence and notices required or contemplated by this Agreement shall be delivered to the respective parties at the addresses set forth below and are deemed submitted two days after their deposit in the United States mail, postage prepaid:

COUNTY OF RIVERSIDE

(INSERT DEPARTMENT NAME)

(INSERT ADDRESS)

CONTRACTOR

(INSERT CONTRACTOR NAME)

(INSERT ADDRESS)

Attachment: FPARC-327 - Aerial Fire Apparatus Bid Packet (Final) (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER FIRE

19. Force Majeure

If either party is unable to comply with any provision of this Agreement due to causes beyond its reasonable control, and which could not have been reasonably anticipated, such as acts of God, acts of war, civil disorders, or other similar acts, such party shall not be held liable for such failure to comply.

20. EDD Reporting Requirements

In order to comply with child support enforcement requirements of the State of California, the COUNTY may be required to submit a Report of Independent Contractor(s) form DE 542 to the Employment Development Department. The CONTRACTOR agrees to furnish the required data and certifications to the COUNTY within 10 days of notification of award of Agreement when required by the EDD. This data will be transmitted to governmental agencies charged with the establishment and enforcement of child support orders. Failure of the CONTRACTOR to timely submit the data and/or certificates required may result in the contract being awarded to another contractor. In the event a contract has been issued, failure of the CONTRACTOR to comply with all federal and state reporting requirements for child support enforcement or to comply with all lawfully served Wage and Earnings Assignments Orders and Notices of Assignment shall constitute a material breach of Agreement. If CONTRACTOR has any questions concerning this reporting requirement, please call (916) 657-0529. CONTRACTOR should also contact its local Employment Tax Customer Service Office listed in the telephone directory in the State Government section under "Employment Development Department" or access their Internet site at www.edd.ca.gov.

21. Hold Harmless/Indemnification

21.1 CONTRACTOR shall indemnify and hold harmless the County of Riverside, its Agencies, Districts, Special Districts and Departments, their respective directors, officers, Board of Supervisors, elected and appointed officials, employees, agents and representatives (individually and collectively hereinafter referred to as Indemnitees) from any liability, action, claim or damage whatsoever, based or asserted upon any services of CONTRACTOR, its officers, employees, subcontractors, agents or representatives arising out of or in any way relating to this Agreement, including but not limited to property damage, bodily injury, or death or any other element of any kind or nature. CONTRACTOR shall defend, at its sole expense, all costs, and fees including, but not limited, to attorney fees, cost of investigation, defense and settlements or awards, the Indemnitees in any claim or action based upon such alleged acts or omissions.

21.2 With respect to any action or claim subject to indemnification herein by CONTRACTOR, CONTRACTOR shall, at their sole cost, have the right to use counsel of their own choice and shall have the right to adjust, settle, or compromise any such action or claim without the prior consent of COUNTY; provided, however, that any such adjustment, settlement or compromise in no manner whatsoever limits or circumscribes CONTRACTOR'S indemnification to Indemnitees as set forth herein.

21.3 CONTRACTOR'S obligation hereunder shall be satisfied when CONTRACTOR has provided to COUNTY the appropriate form of dismissal relieving COUNTY from any liability for the action or claim involved.

21.4 The specified insurance limits required in this Agreement shall in no way limit or circumscribe CONTRACTOR'S obligations to indemnify and hold harmless the Indemnitees herein from third party claims.

22. Insurance

22.1 Without limiting or diminishing the CONTRACTOR'S obligation to indemnify or hold the COUNTY harmless, CONTRACTOR shall procure and maintain or cause to be maintained, at its sole cost and expense, the following insurance coverage's during the term of this Agreement. As respects to the insurance section only, the COUNTY herein refers to the County of Riverside,

its Agencies, Districts, Special Districts, and Departments, their respective directors, officers, Board of Supervisors, employees, elected or appointed officials, agents, or representatives as Additional Insureds.

A. Workers' Compensation:

If the CONTRACTOR has employees as defined by the State of California, the CONTRACTOR shall maintain statutory Workers' Compensation Insurance (Coverage A) as prescribed by the laws of the State of California. Policy shall include Employers' Liability (Coverage B) including Occupational Disease with limits not less than \$1,000,000 per person per accident. The policy shall be endorsed to waive subrogation in favor of The County of Riverside.

B. Commercial General Liability:

Commercial General Liability insurance coverage, including but not limited to, premises liability, unmodified contractual liability, products and completed operations liability, personal and advertising injury, and cross liability coverage, covering claims which may arise from or out of CONTRACTOR'S performance of its obligations hereunder. Policy shall name the COUNTY as Additional Insured. Policy's limit of liability shall not be less than \$1,000,000 per occurrence combined single limit. If such insurance contains a general aggregate limit, it shall apply separately to this agreement or be no less than two (2) times the occurrence limit.

C. Vehicle Liability:

If vehicles or mobile equipment is used in the performance of the obligations under this Agreement, then CONTRACTOR shall maintain liability insurance for all owned, non-owned, or hired vehicles so used in an amount not less than \$1,000,000 per occurrence combined single limit. If such insurance contains a general aggregate limit, it shall apply separately to this agreement or be no less than two (2) times the occurrence limit. Policy shall name the COUNTY as Additional Insureds.

D. Professional Liability (ONLY TO BE INCLUDED IN CONTRACTS WITH SERVICE PROVIDERS INCLUDING BUT NOT LIMITED TO ENGINEERS, DOCTORS, AND LAWYERS). Contractor shall maintain Professional Liability Insurance providing coverage for the Contractor's performance of work included within this Agreement, with a limit of liability of not less than \$1,000,000 per occurrence and \$2,000,000 annual aggregate. If Contractor's Professional Liability Insurance is written on a claims made basis rather than an occurrence basis, such insurance shall continue through the term of this Agreement and CONTRACTOR shall purchase at his/her sole expense either 1) an Extended Reporting Endorsement (also, known as Tail Coverage); or 2) Prior Dates Coverage from new insurer with a retroactive date back to the date of, or prior to, the inception of this Agreement; or 3) demonstrate through Certificates of Insurance that CONTRACTOR has Maintained continuous coverage with the same or original insurer. Coverage provided under items; 1), 2), or 3) will continue as long as the law allows.

E. General Insurance Provisions - All lines:

1) Any insurance carrier providing insurance coverage hereunder shall be admitted to the State of California and have an A M BEST rating of not less than A: VIII (A:8) unless such requirements are waived, in writing, by the County Risk Manager. If the County's Risk Manager waives a requirement for a particular insurer such waiver is only valid for that specific insurer and only for one policy term.

2) The CONTRACTOR must declare its insurance self-insured retention for each coverage required herein. If any such self-insured retention exceeds \$500,000 per occurrence each such retention shall have the prior written consent of the County Risk Manager before the commencement of operations under this Agreement. Upon notification of self-insured retention unacceptable to the COUNTY, and at the election of the Country's Risk Manager, CONTRACTOR'S carriers shall either; 1) reduce or eliminate such self-insured retention as respects this Agreement with the COUNTY, or 2) procure a bond which guarantees payment of losses and related investigations, claims administration, and defense costs and expenses.

3) CONTRACTOR shall cause CONTRACTOR'S insurance carrier(s) to furnish the County of Riverside with either 1) a properly executed original Certificate(s) of Insurance and certified original copies of Endorsements effecting coverage as required herein, and 2) if requested to do so orally or in writing by the County Risk Manager, provide original Certified copies of policies including all Endorsements and all attachments thereto, showing such insurance is in full force and effect. Further, said Certificate(s) and policies of insurance shall contain the covenant of the insurance carrier(s) that thirty (30) days written notice shall be given to the County of Riverside prior to any material modification, cancellation, expiration or reduction in coverage of such insurance. In the event of a material modification, cancellation, expiration, or reduction in coverage, this Agreement shall terminate forthwith, unless the County of Riverside receives, prior to such effective date, another properly executed original Certificate of Insurance and original copies of endorsements or certified original policies, including all endorsements and attachments thereto evidencing coverage's set forth herein and the insurance required herein is in full force and effect. CONTRACTOR shall not commence operations until the COUNTY has been furnished original Certificate (s) of Insurance and certified original copies of endorsements and if requested, certified original policies of insurance including all endorsements and any and all other attachments as required in this Section. An individual authorized by the insurance carrier shall sign the original endorsements for each policy and the Certificate of Insurance.

4) It is understood and agreed to by the parties hereto that the CONTRACTOR'S insurance shall be construed as primary insurance, and the COUNTY'S insurance and/or deductibles and/or self-insured retention's or self-insured programs shall not be construed as contributory.

5) If, during the term of this Agreement or any extension thereof, there is a material change in the scope of services; or, there is a material change in the equipment to be used in the performance of the scope of work; or, the term of this Agreement, including any extensions thereof, exceeds five (5) years; the COUNTY reserves the right to adjust the types of insurance and the monetary limits of liability required under this Agreement, if in the County Risk Manager's reasonable judgment, the amount or type of insurance carried by the CONTRACTOR has become inadequate.

6) CONTRACTOR shall pass down the insurance obligations contained herein to all tiers of subcontractors working under this Agreement.

7) The insurance requirements contained in this Agreement may be met with a program(s) of self-insurance acceptable to the COUNTY.

8) CONTRACTOR agrees to notify COUNTY of any claim by a third party or any incident or event that may give rise to a claim arising from the performance of this Agreement.

23. General

23.1 CONTRACTOR shall not delegate or assign any interest in this Agreement, whether by operation of law or otherwise, without the prior written consent of COUNTY. Any attempt to delegate or assign any interest herein shall be deemed void and of no force or effect.

23.2 Any waiver by COUNTY of any breach of any one or more of the terms of this Agreement shall not be construed to be a waiver of any subsequent or other breach of the same or of any other term of this Agreement. Failure on the part of COUNTY to require exact, full, and complete compliance with any terms of this Agreement shall not be construed as in any manner changing the terms or preventing COUNTY from enforcement of the terms of this Agreement.

23.3 In the event the CONTRACTOR receives payment under this Agreement, which is later disallowed by COUNTY for nonconformance with the terms of the Agreement, the CONTRACTOR shall promptly refund the disallowed amount to the COUNTY on request; or at its option the COUNTY may offset the amount disallowed from any payment due to the CONTRACTOR.

- 23.4** CONTRACTOR shall not provide partial delivery or shipment of services or products unless specifically stated in the Agreement.
- 23.5** CONTRACTOR shall not provide any services or products subject to any chattel mortgage or under a conditional sales contract or other agreement by which an interest is retained by a third party. The CONTRACTOR warrants that it has good title to all materials or products used by CONTRACTOR or provided to COUNTY pursuant to this Agreement, free from all liens, claims, or encumbrances.
- 23.6** Nothing in this Agreement shall prohibit the COUNTY from acquiring the same type or equivalent equipment, products, materials or services from other sources, when deemed by the COUNTY to be in its best interest. The COUNTY reserves the right to purchase more or less than the quantities specified in this Agreement.
- 23.7** The COUNTY agrees to cooperate with the CONTRACTOR in the CONTRACTOR's performance under this Agreement, including, if stated in the Agreement, providing the CONTRACTOR with reasonable facilities and timely access to COUNTY data, information, and personnel.
- 23.8** CONTRACTOR shall comply with all applicable Federal, State and local laws and regulations. CONTRACTOR will comply with all applicable COUNTY policies and procedures. In the event that there is a conflict between the various laws or regulations that may apply, the CONTRACTOR shall comply with the more restrictive law or regulation.
- 23.9** CONTRACTOR shall comply with all air pollution control, water pollution, safety and health ordinances, statutes, or regulations, which apply to performance under this Agreement.
- 23.10** CONTRACTOR shall comply with all requirements of the Occupational Safety and Health Administration (OSHA) standards and codes as set forth by the U.S. Department of Labor and the State of California (Cal/OSHA).
- 23.11** This Agreement shall be governed by the laws of the State of California. Any legal action related to the performance or interpretation of this Agreement shall be filed only in the Superior Court of the State of California located in Riverside, California, and the parties waive any provision of law providing for a change of venue to another location. In the event any provision in this Agreement is held by a court of competent jurisdiction to be invalid, void, or unenforceable, the remaining provisions will nevertheless continue in full force without being impaired or invalidated in any way.

23.12 This Agreement, including any attachments or exhibits, constitutes the entire Agreement of the parties with respect to its subject matter and supersedes all prior and contemporaneous representations, proposals, discussions and communications, whether oral or in writing. This Agreement may be changed or modified only by a written amendment signed by authorized representatives of both parties.

COUNTY:

(INSERT DEPARTMENT NAME)
(INSERT ADDRESS)

CONTRACTOR:

(INSERT CONTRACTOR NAME)
(INSERT ADDRESS)

Signature: _____

Signature: _____

Print Name: (YOUR NAME HERE) _____

Print Name: (CONTRACTOR NAME HERE) _____

Title: (INSERT TITLE) _____

Title: (INSERT TITLE) _____

Attachment: FPARC-327 - Aerial Fire Apparatus Bid Packet (Final) (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER FIRE

**ATTACHMENT A
BIDDER PROPOSAL RESPONSE**

REQUEST FOR PROPOSAL # FPARC-327

TRACTOR DRAWN AERIAL FIRE APPARATUS



By:
John Miller, CPPO
Procurement Contract Specialist
Riverside County Purchasing & Fleet Services
2980 Washington Street
Riverside, CA 92504-4647
(951) 634-3090
Email: john.miller@fire.ca.gov
NIGP Code(s): 07230, 07103

This RFP and any ensuing Addendums are available at the following links:
www.purchasing.co.riverside.ca.us and www.publicpurchase.com

**NOTE: BIDDERS ARE RESPONSIBLE TO READ ALL INFORMATION THAT IS STATED IN THIS
REQUEST FOR PROPOSAL AND PROVIDE A RESPONSE AS REQUIRED**

Appendix A

1.0 BACKGROUND

The County of Riverside Purchasing and Fleet Services Department on behalf of Riverside County Fire Department is seeking proposals from qualified firms to provide Tractor Drawn Aerial Fire Apparatus per the terms conditions and specifications stated herein.

The Riverside County Fire Department provides full service all risk emergency response coverage for the County of Riverside, California. The County of Riverside covers approximately 7,303 square miles and has a population of approximately 2.3 million people. The Riverside County Fire Department provides emergency response coverage to 21 of the County's 28 incorporated Cities and to the unincorporated County areas. The Riverside County Fire Department currently operates out of 97 Fire Stations staffed by a combination of career and reserve employees.

The Riverside County Fire Department annually responds to approximately 130,000 calls for emergency service. Some of the Riverside County Fire Department Fire Stations will exceed 5,000 calls for service per year. This high call volume combined with the extended driving distances in some of the developing and rural areas of the County, require the Riverside County Fire Department's fire apparatus to be mechanically sound and constructed in a manner that is intended for severe duty. Currently it is common to find fire apparatus in the Riverside County Fire Department fleet that will exceed 100,000 miles in a 10-year period. The intended life span of the fire apparatus within the Riverside County Fire Department is approximately 20 years.

The Riverside County Fire Department operates Fire Stations in all areas of Riverside County. This requires Fire Stations to be located in a diverse array of locations from desert areas that are below sea level near the Salton Sea to mountainous areas above 6,200 feet in elevation.

Weather commonly experienced within Riverside County will range from average winter low temperatures in the 30s to average summertime high temperatures in the 100s. But due to the diversity of Riverside County and the diverse areas where the Riverside County Fire Department Fire Stations are located, desert summertime temperatures can (and do routinely) top 120° F and mountainous wintertime temperatures can (and do routinely) fall below 0° F and snow is an annual occurrence.

The environment that the Riverside County Fire Department operates in is a rapidly developing urban, suburban and rural area. This mix of operating environments includes everything from multi-story high rise buildings to suburban housing communities to rural environments where housing units are spread out. This requires the Riverside County Fire Department to maintain a fire apparatus fleet that can adapt to all operating environments. Road conditions range from multi-lane highways to two lane country roads to unimproved dirt roads.

The Riverside County Fire Department also places a high degree of priority on the ability to be able to properly maintain the mechanical condition of its fire apparatus fleet. The Riverside County Fire Department sets a priority to be able to maintain a high percentage of its apparatus in a state of readiness and to minimize mechanical down time. The Riverside County Fire Department continues to set a goal of minimizing the out of service time of its fire apparatus fleet and requires an apparatus design that incorporates design features that will allow the Fleet Services Section the ability to meet these in-service goals.

2.0 PURPOSE

The County is soliciting proposals from qualified firms/apparatus manufacturers to build and deliver custom-built Tractor Drawn Aerial Fire Apparatus as specified in this Request for Proposal (RFP). These specifications are intended to describe, among other things, the vehicle chassis, cab, build-up, type, size, and quality of apparatus. The vehicle must meet all California emission standards and have all legal safety devices.

Tab A Proposal Checklist

Instructions:

- This section must be filled in and each item checked off to ensure all items requested by the County in this RFP have been submitted.
- Follow the instructions in each section of this RFP.
- Present all requested items in the index tabs ordered A through I as shown
- Label each item presented and include additional items on your Table of Contents
- All proposals must include a detailed description of the apparatus to be provided
- Bidders that do not follow the bid instructions found in the Terms and Conditions document "Section 6.0 General Proposal Submittal" may be found to be "non-responsive" and disqualified from the bid process

Name of Company: _____

Service to provide: (title) _____

Proposal Submission Checklist

General Bidder Information

Please provide one copy of the following items in your proposal. Indicate the page number where the item is located.

Page Number

<input type="checkbox"/> Tab A – Proposal Checklist (<i>this page</i>)	<u>3</u>
<input type="checkbox"/> Tab B – Proposal Cover Page (<i>signed by Authorized Signatory</i>)	<u>5</u>
<input type="checkbox"/> Tab C – Company Profile/ Experience	<u>6</u>
<input type="checkbox"/> Tab D – Acknowledgements.....	<u>7</u>
<input type="checkbox"/> Tab E – Specifications (Exhibits 1 – 5)	<u>8</u>
<input type="checkbox"/> Tab F – References	<u>9</u>

Attachment: FPARC-327 - Aerial Fire Apparatus Bid Packet (Final) (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER FIRE

- Tab G – Bidder Attachment 11
Any response that Bidders are finding difficulty pasting into the “Bidders Response” boxes in any section of the RFP, bidders shall paste in Tab G.

Tab H and I Sections shall only be included in the Original Proposal submittal.

- Tab H – Price Proposal (Include in Original Proposal Only) 12
- Tab I – Financial Statement (Include in Original Proposal Only) 14

Attachment: FPARC-327 - Aerial Fire Apparatus Bid Packet (Final) (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER FIRE

Tab B Proposal Cover Page

This Proposal Cover Page must be signed by an authorized representative. Signature by an authorized representative of the company on the proposal cover page shall constitute a warranty, the falsity of which shall entitle the County of Riverside to pursue any remedy authorized by law, which shall include the right, at the option of the County of Riverside, of declaring any contract made as a result thereof, to be void.

BIDDER TO COMPLETE ALL APPLICABLE AREAS

Bidders are required to register (If not already registered) on the County of Riverside Purchasing website:
WWW.PURCHASING.CO.RIVERSIDE.CA.US

The County of Riverside Purchasing Department on behalf of Riverside County Fire is soliciting proposals from qualified firms to provide:

Tractor Drawn Aerial Fire Apparatus

Pre-Proposal Conference:

Date: September 5th, 2018

Time: 9:00am

Location:

Riverside County Fire Department
88 East Rider Street
Perris, CA 92571

Confirmation:

Firms interested in attending the Pre-Proposal Conference are requested to confirm their attendance via e-mail to john.miller@fire.ca.gov by 1:00 PM on Wednesday, August 29th, 2018.

PROPOSALS SHALL BE DELIVERED TO:

County of Riverside – Purchasing and Fleet Services
Attn: RFP # FPARC-327
2980 Washington Street
Riverside, CA 92504

"Execution hereof is certification that the undersigned has read and understands the terms and conditions hereof, and that the undersigned's principal is fully bound and committed."

Company Name:

Mailing Address:

City: State: Zip:

Remit to Address:

City: State: Zip:

Phone # () FAX # ()

Contractor Website:

Name: Title:

Signature: Date:

Email:

Please Check Veteran Local Preference

Attachment: FPARC-327 - Aerial Fire Apparatus Bid Packet (Final) (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER FIRE

Tab C Company Profile/ Experience

This section of the proposal is designed to establish the bidder as an entity with the ability and experience to deliver apparatus equipment as specified in the RFP. The Company Profile should be concise and clear, and include descriptive information regarding service delivery. The following information must be provided as follows:

- 1. Business name and legal business status (i.e. partnership, corporation, etc.)

BIDDER'S RESPONSE:

- 2. Company overview of services or activities performed, including:
 - a. Company hierarchy (President, Vice President, Company Officers, etc.) and an organizational chart. The organizational chart shall clearly identify all staff members that will provide services under this contract.
 - b. The number of years in business under the present business name, as well as prior business names, and the number of years of experience providing the proposed, equivalent or related services
 - c. Company size - number of staff
 - d. Location of the office from which the work under this contract will be provided and the staff allocation at that office

BIDDER'S RESPONSE:

- a)
- b)
- c)
- d)

- 3. Please indicate whether the bidder holds controlling or interests in any other organization, or is owned or controlled by any other person or organization, if none that must be stated. Governmental agencies are exempt from this requirement.

BIDDER'S RESPONSE:

- 4. Financial interests in any other business. Individuals who are personally performing the contracted services and governmental agencies are exempt from this requirement.

BIDDER'S RESPONSE:

- 5. Names of persons with whom the Bidder has been associated in business as partners or business associates in the last five years. Governmental agencies are exempt from this requirement.

BIDDER'S RESPONSE:

- 6. An explanation of any litigation involving the Bidder or any principal officers thereof in connection with any contract.

BIDDER'S RESPONSE:

Attachment: FPARC-327 - Aerial Fire Apparatus Bid Packet (Final) (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER FIRE

Tab D Acknowledgements

1. Clarifications, Exceptions, or Deviations to Terms and Conditions Document, Exhibit A – Sample Agreement

Bidder shall describe any exception or deviation from the requirements of the sample agreement in Exhibit A of the Terms and Conditions Document. Each clarification, exceptions, or deviation must be clearly identified. If your firm has no clarification, exceptions, or deviation, a statement to that effect shall be included in this section.

The following contractual terms are **non-negotiable**.

- Indemnification
- All insurance terms prior to the start of the agreement
- Termination
- Ownership/Use of Contract Materials and Products
- Disputes
- Governing Law
- Confidentiality

Do you have any other exceptions/deviations? If so, please provide an explanation:

BIDDER'S RESPONSE:

2. Evidence of Insurability/Business Licenses

All bidder(s) shall submit evidence of all required insurance. An Accord cover page will suffice and if awarded the contract the Bidder has ten (10) calendar days to produce the required insurances including a certified endorsement naming the County as additionally insured. The bidder shall certify to the possession of any and all current required licenses or certifications. Do not purchase additional insurance until this bid has been awarded. Provide a copy of current business license or other applicable licenses.

CERTIFICATIONS

I, _____, a duly authorized agent of _____

Printed Name of Agent/Officer

Name of Organization

hereby certify that _____ by submission of this proposal in response to the
Name of Organization

Professional Services RFP, agree upon contract award to carry out the requirements specified and obligations set forth therein.

Signature _____ Date _____

Title of Agent/Officer _____

Attachment: FPARC-327 - Aerial Fire Apparatus Bid Packet (Final) (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER FIRE

Tab E Specifications

NOTICE: TECHNICAL SPECIFICATIONS – The minimum requirements acceptable are listed in Exhibits I – V of this RFP. Bidder shall confirm by checking Yes or No in the space provided in each section that the apparatus being offered meets or does not meet the RFP specifications. Any exceptions to the specifications must be clearly identified with a detailed narrative of the exception being made.

FAILURE TO COMPLETE THE BIDDER RESONSE FOR EACH SECTION MAY RESULT IN YOUR PROPOSAL BEING FOUND NON-RESPONSIVE.

SEE EXHIBITS 1 THROUGH 5

Exhibit 1	Section I General.....	19 pages
Exhibit 2	Section II Cab & Chassis.....	53 pages
Exhibit 3	Section III Pump.....	46 pages
Exhibit 4	Section IV Apparatus Body.....	23 pages
Exhibit 5	Section V Electrical.....	2 pages

Attachment: FPARC-327 - Aerial Fire Apparatus Bid Packet (Final) (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER FIRE

Tab F References

References

Bidder must provide a minimum of three (3) recent and relevant past performance references (within the last five (5) years). Past performance references should be for projects similar in scope/specification to this RFP. References cannot include Riverside County Elected Officials, County Department Directors, or other County staff. Bidder is responsible to verify that all reference information is correct.

Reference 1	
Company name:	
Address:	
Contact person:	
Email address:	
Telephone address:	
Project name:	
Dates worked performed:	
Summary of scope of services:	
Project cost:	

Reference 2	
Company name:	
Address:	
Contact person:	
Email address:	
Telephone address:	
Project name:	
Dates worked performed:	
Summary of scope of services:	
Project cost:	

Reference 3	
Company name:	
Address:	
Contact person:	
Email address:	
Telephone address:	

Attachment: FPARC-327 - Aerial Fire Apparatus Bid Packet (Final) (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER FIRE

Project name:	
Dates worked performed:	
Summary of scope of services:	
Project cost:	

1. Provide a list detailing contracts that your company has been awarded during the last five (5) years, showing year, type of apparatus, dollar amounts, contracting agency, contact name, and phone number.

BIDDER'S RESPONSE:

2. Provide details of any failure or refusal to complete a contract. If none, that must be stated.

BIDDER'S RESPONSE:

Attachment: FPARC-327 - Aerial Fire Apparatus Bid Packet (Final) (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER FIRE

Tab G Bidder Attachment

Any response that Bidders are finding difficulty pasting into the “Bidders Response” boxes in any section of the RFP, bidders shall paste in Tab G. When pasting attachments to Tab G, label the attachments “Attachment 1”, Attachment 2” and so forth. Enter the corresponding “Attachment Number” into the Bidder’s Response box below:

List all attachments included in this Section. Please use additional pages to list attachments if necessary.

Attachment Number	Document Title	Page Number
Attachment 1	_____	_____
Attachment 2	_____	_____
Attachment 3	_____	_____
Attachment 4	_____	_____
Attachment 5	_____	_____
Attachment 6	_____	_____
Attachment 7	_____	_____
Attachment 8	_____	_____
Attachment 9	_____	_____
Attachment 10	_____	_____
Attachment 11	_____	_____
Attachment 12	_____	_____
Attachment 13	_____	_____
Attachment 14	_____	_____
Attachment 15	_____	_____
Attachment 16	_____	_____
Attachment 17	_____	_____
Attachment 18	_____	_____
Attachment 19	_____	_____
Attachment 20	_____	_____

Attachment: FPARC-327 - Aerial Fire Apparatus Bid Packet (Final) (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER FIRE

Tab H Price Proposal

Please provide One (1) copy of Tab H – Price Proposal in the “original” binder only, clearly marked “Price Proposal”.

In this section, please complete and include the Price Proposal Sheet. Price Proposal’s shall be submitted in a sealed envelope and include in the “Original” proposal binder only (Please do not include or reference pricing in the copies). Price Proposals will be opened after the evaluation of the proposals has been completed by the Evaluation Committee. The County reserves the right to negotiate final fees with the selected Contractor. Proposals must fully describe all costs to be charged to the County. As stated in the Price Proposal, bidders must provide fully inclusive blended rates, which are inclusive all of the bidder’s project-related or supported expenses, including travel expenses. Expenses not included in the Line Item Budget will not be reimbursed. Bidders may also include any other documents as information to further explain their proposed costs.

- The county anticipates awarding a five (5) year contract that will include a one-year (1) base period and four (4) one-year options, exercisable at the County's sole discretion with no obligation by the County to purchase any specified amount. Adjustments to the apparatus pricing will only be allowed at the conclusion of each twelve (12) month period (base or option). The updated pricing will then remain fixed for the duration of the twelve (12) month option term. Adjustments will be based on the BLS Producer Price Index Commodity Code 1413-027 current published report. The escalation in this index will be used to adjust the base order price of the apparatus.
Comply: YES ___ NO ___

BIDDER’S RESPONSE:

- The County of Riverside reserves the right to order apparatus as specified in this solicitation over the five (5) year period of performance beginning upon the date of contract award. The price of such apparatus shall be the contracted apparatus unit price plus any adjustments in PPI for option years: two (2), three (3), four (4), and five (5). The price of any apparatus ordered by the County after the first twelve (12) month period shall be the Base Order Price plus any escalation which shall be calculated based on the following formula utilizing the U.S. Department of Labor/Bureau of Labor Statistics Producer Price Index ("PPI") Category 1413-027, "buses and firefighting vehicles, complete, produced on purchased chassis".

FORMULA EXAMPLE:

Index Point Change

PPI Index: Future PPI (start of option year):	141.1
Less PPI Index: Base PPI (start of contract):	137.6
Equals Index Point Change:	3.5

Index Percent Change

Index Point Change	3.5
Divided by PPI Index: Base PPI:	137.6
Equals	.0254
Results Multiplied by 100	.0254 x 100
Equals Percent Change	2.54%

Base Order Price	\$1,000.00
Plus Percent Change (2.54% x \$1,000)	\$25.40
Revised Price for Option Year	\$1,025.40

Attachment: FPARC-327 - Aerial Fire Apparatus Bid Packet (Final) (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER FIRE

The baseline index to be used for future option year price adjustments will be the most current PPI published at the time of the pre-construction meeting.

Comply: YES _____ NO _____

BIDDER'S RESPONSE:

- 3. Line-Item pricing shall be all-inclusive and include all costs including delivery and travel expenses per Tab E – Exhibit 1, Section 1.16 of RFP # FPARC-327 .: The Price Proposal shall reflect firm-fixed-pricing for a full one-year (12-month) period from date of contract award (estimated award date is December 2018).

Line #	Description	Unit Price
1	TDA Apparatus per the specifications of RFP # FPARC-327. Total delivered fixed-price shall include all costs and fees, including travel expenses per Tab E – Exhibit 1, Section 1.16	
2	(OPTION – Pre-Construction Travel Cost) Total all-inclusive cost for travel per Tab E - Section 1.16.3 should the County choose to bring an additional representative.	
3	(OPTION – Cab Chassis Inspection Travel Cost) Total all-inclusive individual cost for travel per Tab E - Section 1.16.4 should the County choose to bring an additional representative.	
4	(OPTION – Pre-Paint Inspection Travel Cost) Total all-inclusive individual cost for travel per Tab E - Section 1.16.5 should the County choose to bring an additional representative.	
5	(OPTION – Final Inspection) Total all-inclusive individual cost for travel per Tab E - Section 1.16.6 should the County choose to bring an additional representative.	
6	Replacements Parts per Tab E – Exhibit 1, Section 1.25	Please list as separate attachment

CERTIFICATIONS

I, _____, a duly authorized agent of _____

Printed Name of Agent/Officer

Name of Organization

hereby certify that _____ by submission of this proposal in response to the

Name of Organization

Professional Services RFP, agree upon contract award to carry out the requirements specified and obligations set forth therein.

Signature _____ Date _____

Title of Agent/Officer _____

Attachment: FPARC-327 - Aerial Fire Apparatus Bid Packet (Final) (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER FIRE

Tab I Financial Statement

Financial statements should only be included in the binder marked "Original".

Please place financials in a separate envelope mark "Financial Statement - Confidential". The financial documents shall be submitted in the "Original" binder only and not in the proposal copies. The County cannot guarantee that the financials submitted will be kept confidential.

The bidder must submit financial statements (balance sheet and income statement) for its business (and that of the apparatus manufacture, if applicable) that are dated no more than twelve (12) months prior to the date of the proposal submission and cover a period of at least one (1) year. These statements should clearly identify the financial status and condition of the bidder's entire business entity (and the apparatus manufacturer, if applicable).

Financials should provide sufficient detail to assure the County of Riverside that bidder (and apparatus manufacturer, if applicable) can support the cost for services/apparatus being offered and as a Contractor the firm will not seek early payment, expedited payments or checks delivered by any means other than regular mail through the County Auditor/Controller's Office.

BIDDER'S RESPONSE:

Attachment: FPARC-327 - Aerial Fire Apparatus Bid Packet (Final) (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER FIRE

Attachment B
Local Business Qualification Affidavit

The County of Riverside Local Business Preference may be applied to this Request for Proposal/Quotation. If you qualify for this preference, please submit this form along with your response to this RFP/Q.

Definition of Local Business

A local business shall mean a business or firm with fixed offices located within the geographical boundaries of Riverside County, and authorized to perform business within the County. In doing so, credit all sales tax from sales generated within Riverside County to the County, and who provide product or perform contracted work using employees, of whom the majority are physically located in said local offices.

Local businesses" shall have a Riverside County business street address. Post office box numbers, residential addresses, or un-staffed sales offices shall not suffice to establish status as a "local business." To qualify as a "local business" the location must be open and staffed during normal business hours and the business must establish proof that it has been located and doing business in Riverside County for at least (6) six months preceding its certification to the County as a local business.

Additional supporting documentation that may be requested by the County to verify qualification includes:

1. **A copy of their current BOE 531-A and/or BOE 530-C form** (State, Local & District Sales, and Use Tax Return Form). This is what businesses submit to the State Board of Equalization when paying the sales tax to the State of California indicating the amount of the payment to be credited to each jurisdiction (i.e. Counties, Cities).
2. **A current business license** if required for the political jurisdiction the business is located.
3. **Proof of the current business address.** The local business needs to be operating from a functional office that is staffed with the company's employees, during normal business hours.

Business Name: _____

Physical Address: _____

Phone: _____ FAX: _____ E-Mail: _____

Length of time at this location: _____ Number of Company Employees at this address: _____

If less than 6 month, list previous Riverside County location: _____

Business License # (where applicable): _____ Jurisdiction: _____

Hours of Operation: _____

Primary function of this location (i.e., sales, distribution, production, corporate, etc.):

Signature of Company Official _____ Date _____

Print Name, Title

Submittal of false data will result in disqualification of local preference and/or doing business with the Riverside County

Attachment: FPARC-327 - Aerial Fire Apparatus Bid Packet (Final) (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER FIRE

Attachment C

Veteran Business and Veteran Qualified Business Affidavit

The County of Riverside Veteran Business and Veteran Qualified Business Preference may be applied to this Request for Proposal/Quotation. If you qualify for this preference, please submit this form along with your response to this RFP/Q.

Definition of Veteran Business and Veteran Qualified Business

A **Veteran Business** shall mean a business that is at least fifty-one percent (51%) owned by one or more veterans.

A **Veteran Qualified Business** shall mean a business which can provide proof of their workforce containing no less than ten percent (10%) veterans.

Veterans as used in this policy means a person who has served or is currently serving in the U. S. armed services, reserves or active, and is serving honorably or has been honorably discharged.

Additional supporting documentation that may be requested by the County to verify qualification includes:

Please check the category you are applying for:

Veteran Business:

Company must be registered with Vet Biz at www.vetbiz.gov/cve_completed_s.jpg: This site provides verification information about Service-Disabled Veteran-Owned Small Businesses (SDVOSBs) and Veteran-Owned Small Businesses (VOSBs). Companies who want to participate in the County's Veterans Preference Program must be listed in this database in order to be eligible for veteran preferences.
Company must submit DUNS # for website verification.

Veteran Qualified Business:

Company must submit payroll records that demonstrate that 10% of your workforce is comprised of veterans. DD214 Forms must be submitted for all employees claiming veteran status.

Business Name: _____

Physical Address: _____

Phone: _____ FAX: _____ E-Mail: _____

Total Number of Company Employees (where applicable): _____ Total Number of Veteran Employees: _____

DUNS # (where applicable): _____

Hours of Operation: _____

Signature of Company Official

Date

Submittal of false data will result in disqualification of Veteran Preference and/or doing business with Riverside County.

Attachment: FPARC-327 - Aerial Fire Apparatus Bid Packet (Final) (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER FIRE

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SECTION I – GENERAL

1.1 Proposal Submission

These specifications are intended to describe, among other things, the vehicle chassis, cab, build- up, type, size, and quality of apparatus. Any clarifications or exceptions to these specifications must be clearly stated in the bidder’s response. Exceptions may be grounds for automatic and immediate rejection of the bid.

The bidder shall utilize this document in its proposal response. The bidder shall indicate if they comply with each paragraph by checking “Y” for yes (complies) or “N” for no (does not comply). For example: If the bidder complies with the specifications for a given section, the bidder will check “Y” and in the space provided in the “Bidder Response” column state “no exceptions”.

Comply with Section 1.1: YES _____ NO _____

Bidder Response Section 1.1:

1.2 Proposals which fail to follow the RFP instructions may be rejected

- 1.2.1 Proposals shall reflect the requirements and specifications identified in this RFP.
- 1.2.2 Proposals shall reference the County’s specifications using the County’s numbering system.
- 1.2.3 The County reserves the right to reject any or all bids at no cost to the County.
- 1.2.4 Bidders may include additional information or documents they feel are relevant to their proposal. Bidders are cautioned; however, that this does not constitute an invitation to submit large amounts of extraneous materials. Appendices should be relevant and brief.

Comply with Section 1.2: YES _____ NO _____

Bidder Response Section 1.2:

1.3 Proposal shall contain the following information

- 1.3.1 The total cost to the County for each apparatus, including all applicable taxes or costs associated with manufacture and delivery of the apparatus.
- 1.3.2 Delivery time frame for the first apparatus to be delivered after the contract is signed, and for all remaining apparatus thereafter.
- 1.3.3 Manufacturing location of the apparatus.

Comply with Section 1.3: YES _____ NO _____

Bidder Response Section 1.3:

1.4 General

- 1.4.1 All specifications contained herein are considered minimum requirements for the manufacturer and delivery of the new apparatus.
- 1.4.2 The apparatus shall be of the latest type, symmetrically proportioned, carefully designed and constructed with due consideration to the nature and distribution of the load to be sustained.
- 1.4.3 Details of construction and materials not otherwise specified are left to the discretion of the bidder. The bidder shall be solely responsible for the design and construction of all features.
- 1.4.4 The bidder shall provide principal dimensions and weight distribution of the fully loaded, completed vehicle.
- 1.4.5 The apparatus shall meet the requirements for automotive fire apparatus according to the current edition of the NFPA 1901 Standard’
- 1.4.6 If used in these specifications, the term “or equal” shall define the degree of determined quality level. It shall be the sole responsibility of the County to judge whether a proposed “equal” submitted

- by the bidder meets the minimum established quality level. Any proposed “equal” (as allowed in the specifications) must be described by the bidder in its bid.
- 1.4.7 Bids shall be from qualified and experienced manufacturers of motorized fire apparatus.
 - 1.4.8 Each bidder shall furnish evidence satisfactory to the County of their ability to construct the apparatus as specified; and shall state the location of the factory where the apparatus is to be built. Each bidder shall submit with their bid a list stating the locations of five (5) or more Tractor Drawn Aerials, that have been constructed and completely assembled by their firm within the last two (2) years. These Aerials must be currently in service for a full time paid fire department for at least one year. The list shall include the name and number of a contact person where these Aerials are located. NO EXCEPTIONS (Due to Riverside County’s requirement to insure product quality and workmanship)
 - 1.4.9 For each specified component, the bidder shall state in its bid the size, type, model, and make of each component.
 - 1.4.10 The bidder shall provide detailed information on the materials to be used to construct all parts of the apparatus. A bidder’s use of terms such as “intent of” are considered vague and unacceptable responses and will disqualify the bid submittal.
 - 1.4.11 The bidder shall submit with their proposal detailed engineered construction drawings of the apparatus they are offering.
 - 1.4.12 The apparatus shall conform to the requirements of the current NFPA 1901 Standard for Automotive Fire Apparatus, unless otherwise stated in these specifications. The apparatus shall comply in every respect with the California Vehicle Code, Federal Motor Vehicle Safety Standards, California Code of Regulations (Title 8, Title 13, Title 15), California Health and Safety Code, California Air Resources Board Regulations, OEM Body Builders Standards and Guidelines and Occupational Safety and Health Act.
 - 1.4.13 A plate identifying the manufacturer, gross vehicle weight, date of manufacture and all other information as specified in the National Traffic and Motor Vehicle Safety Act, Section 114, and Federal Code of Regulations, Title 49, shall be attached to the vehicle frame or body in an easily accessible location. Should a conflict arise between an NFPA Standard and any portion of these specifications, the NFPA Standard will prevail. Any test equipment required or expense incurred for the Certification Tests shall be borne by the Contractor supplying this equipment.
 - 1.4.14 The bidder shall disclose in its proposal any pending or past (within the past five years) litigation regarding the bidder’s failure or alleged failure to deliver or comply with other fire apparatus contracts.
 - 1.4.15 All materials and components used in the construction of the apparatus shall be new. Used or reconditioned material or components are not acceptable.
 - 1.4.16 Any identifying numbers on any components shall be the original equipment manufacturer’s numbers. The numbers shall be easily read and shall not be painted over.
 - 1.4.17 The bidder shall employ industry acceptable engineering criteria in the design of the apparatus; and be able to certify compliance with all applicable standards in force at the time of manufacture. Vehicle safety shall be important design criteria.

Comply with Section 1.4: YES _____ NO _____

Bidder Response Section 1.4:

1.5 Progress Reports

The bidder shall post weekly updates on the progression of the apparatus being constructed. Included will be a brief written summary of the current construction process occurring. A minimum of six (6) digital photos showing all aspects of the apparatus (ie front, left side, right side, rear, top side, pump/plumbing layout, etc.) will be included. Riverside County Fire Department will be able to view digital images of their apparatus as its being manufactured. The digital images shall be posted once a week, starting when the construction of the cab/chassis process is initiated and will continue throughout the entire construction of the apparatus. This shall include, but not limited to, production of the cab/chassis, and construction of the fire body. During the entire process additional photos may be requested at any time to ensure quality control, mitigate additional travel, and ensure compliance to Riverside

County's specification. These updates and photos will be distributed as progress reports to various entities (City Council Members, Board of Supervisors, Fire Chiefs, etc.) who have a vested interest in the production of the apparatus.

Comply with Section 1.5: YES _____ NO _____

Bidder Response Section 1.5:

1.6 Construction Drawing

The evaluation of proposals shall also be based on design, engineering reliability, and completeness of drawings. No Bidder's proposal shall be considered unless complete engineering drawings to these specifications are submitted with their proposal submittal. Failure to submit factory prepared blueprints with the bid shall result in automatic rejection. Submissions of "bid drawings" are in addition to "production drawings" which must be submitted for Riverside County Fire Department approval prior to construction. Production drawings shall be submitted after the conclusion of the pre-construction meeting. Bid drawings shall be submitted with the proposal and shall allow the Riverside County Fire Department the ability to fully evaluate required product.

The drawings shall be produced on computer aided design (CAD) equipment to assure critical tolerance and detail only available with CAD equipment. The drawings shall be on "B" size paper, 17" x 11" in size, and views must be 1/4" = 1' - 0" scale. The drawings shall be completed only by the body manufacturer, and must be exactly to Riverside County Fire Department specifications. Submission of "similar to" drawings or "statements referring to later submission of drawings after award of contract" shall be automatically rejected. Since the proposal submittals will require extensive evaluation by Riverside County Fire Department, all Bidders must submit exactly the same engineering drawings at the same scale, on the same size paper. For easy comparison of drawings, they must be on a 17" x 11" sheet as follows:

- 1.6.1 All bid drawings will be stamped BID DRAWING
- 1.6.2 All items shown on the drawing will be pre-designed with regards to layout and functionality prior to the completion of the BID DRAWING.
- 1.6.3 Two (2) 17" x 11" color drawings will be supplied with the proposal. Black and white or blue line drawings will not be accepted.
- 1.6.4 There shall be five (5) views of the truck with the doors closed (Top, Left, Right, Front, Rear), five (5) views of the apparatus with the doors open (Top, Left, Right, Rear, Front) and five (5) views of any walk-in area (Top, Left, Right, Rear, Front).
- 1.6.5 All compartment door openings and usable space shall be clearly shown in inches.
- 1.6.6 The apparatus overall length, wheelbase and cab-to-axle dimensions shall be clearly shown.
- 1.6.7 The apparatus width, width at mirrors, width with the cab doors open, width with compartment doors open and width with position shall be clearly shown.
- 1.6.8 The apparatus height and height with the cab tilted.
- 1.6.9 The angles of approach and departure and break-over angle shall be shown in the maximum loaded condition to the nearest degree.
- 1.6.10 Ground clearance shall be shown in the maximum loaded condition to the nearest inch.
- 1.6.11 All lighting packages will be clearly shown on the drawing and verified accurate per the most current NFPA standards (when applicable).
- 1.6.12 The exterior view shall show all scene lights, marker lights, speakers, horns, exhaust, tow points, exterior outlets, windows, tow hitches, exterior ladders and any other item important to the function of the vehicle.
- 1.6.13 The open view shall show all trays, shelves, air system components, hydraulic, components, tool boards, storage modules and any other items important to function of the vehicle.
- 1.6.14 The interior view for all walk-in areas shall show all seating positions, windows, tech equipment, radio locations, MDC location, Vista screens locations, dash layout, and any other item important to the function of the vehicle.

- 1.6.15 There shall be a drawing of the aerial vertical reach, horizontal reach, tip load, angle of elevation and overall width with the stabilizers deployed.

Comply with Section 1.6: YES _____ NO _____

Bidder Response Section 1.6:

1.7 Liquidated Damages

- 1.7.1 The bidder shall state the number of calendar days required for delivery of the completed apparatus after receipt of order.
- 1.7.2 Delays in delivery will severely impact the operation of the Fire Department. Should proper delivery not be completed by the promised date, liquidated damages will be assessed by the County against the amount owed to the bidder for the apparatus. An amount of one hundred and fifty dollars (\$150.00) per calendar day for each day of delay for each unit is established as the liquidated damage to the County (and not as a penalty or forfeiture). After a delay in delivery of ninety (90) days, the Fire Department may cancel the order.
- 1.7.3 Liquidated damages shall also apply in cases where delivery of non- acceptable apparatus is made.

Comply with Section 1.7: YES _____ NO _____

Bidder Response Section 1.7:

1.8 Materials Required at Delivery of Apparatus

The bidder shall provide all of the materials and documentation as stated in these specifications. The bidder shall provide two (2) printed copies and two (2) computer thumb drives for each apparatus. The documentation shall be in PDF format. The apparatus manual shall contain the following items which shall be required at the time of delivery of the apparatus:

- 1.8.1 Operation manuals for all components and accessories.
- 1.8.2 Service manuals for engine, transmission, and other major components.
- 1.8.3 Bill of materials or factory work order showing part numbers of all components on vehicle.
- 1.8.4 Engineering drawings as built.
- 1.8.5 Chassis drawing as built.
- 1.8.6 Color coded chassis air brake system drawing as built.
- 1.8.7 Color coded electrical system schematic (12-Volt) as built, large and easy to read.
- 1.8.8 Color coded chart sheet showing all points of lubrication and type/amount of lubrication.
- 1.8.9 Color coded aerial diagram to include hydraulic and electrical schematics.
- 1.8.10 Color coded engine charts.
- 1.8.11 Color coded transmission charts.
- 1.8.12 Color coded regeneration operation charts.
- 1.8.13 UL inspection and test records.
- 1.8.14 FMVSS compliance certification label.
- 1.8.15 Weight certificate. The weight certificate shall show the total apparatus weight, the front axle weight, the rear axle weight, the right front tire weight, the left front tire weight, the right rear tire weight, and the left rear tire weight.
- 1.8.16 Documents required for transferring ownership to County.
- 1.8.17 Aerial testing and certification per NFPA standards.
- 1.8.18 Performance test reports.
- 1.8.19 Operating instructions for the aerial and components.
- 1.8.20 Operating instructions for the chassis and any major components.
- 1.8.21 Precautions related to multiple configurations of aerial devices, if applicable.
- 1.8.22 Instructions regarding the frequency and procedure for recommended maintenance.

- 1.8.23 Parts list for replacement.
- 1.8.24 Operations and maintenance documents for components and equipment of the apparatus.
- 1.8.25 All required equipment, manuals, charts, and books shall accompany the apparatus at time of delivery. Failure to deliver these items shall be cause for non-acceptance of the apparatus.
- 1.8.26 All documents must be exact representations of the apparatus delivered and General drawings are not acceptable.
- 1.8.27 NFPA REQUIRED DOCUMENTATION FORMAT – Computer thumb drive. The vehicle construction details and the operations and service documentation as required per NFPA 1901 latest edition shall be provided on a computer thumb drive in PDF format. These manuals shall be divided into sections for ease of reference. There shall be two (2) copies of the computer thumb drive in PDF format provided with the completed vehicle.
- 1.8.28 A letter from the bidder attesting to the fact that the finished, fully loaded apparatus will meet all federal motor vehicle and California Vehicle Code requirements; that the axles, tires, brakes and frame are all designed to support and carry the anticipated load safely under harsh driving conditions; and that the combination of wheelbase, center of gravity, weight distribution and other factors affecting safe vehicle operation are within acceptable limits of vehicle design practice and all applicable law. The president of the bidder’s firm and their chief engineer shall jointly sign this letter.
- 1.8.29 The bidder shall furnish a copy of the record of the current certified brake horsepower curve and torque curve.
- 1.8.30 The bidder shall provide a Cummins Quick Check current year standard kit diagnostic readers and computers, with appropriate adapters and hardware. Two (2) kits will be delivered with the first apparatus completed. Subsequently, one (1) Cummins Quick Check kit shall be delivered with each apparatus ordered beginning with the second, if multiple orders are placed. The kit shall be updated with the latest software for the apparatus being delivered.
 - 1.8.31 Software updates shall be provided for each Cummins Quick Check, for the expected service life of the apparatus as specified in Appendix “A”, Section 1.0 at no additional cost.

Comply with Section 1.8: YES _____ NO _____

Bidder Response Section 1.8:

1.9 Quality of Workmanship

- 1.9.1 The bidder shall employ the latest approved automotive design practices in the design of the apparatus. Nothing in these specifications will relieve the bidder from the responsibility to provide a safe and functional vehicle. Workmanship shall be of the highest caliber in its respective field (first class)
- 1.9.2 The bidder shall comply with the following provisions:
 - 1.9.2.1 There shall be easy access to components which require routine periodic maintenance, ease and safety of operations, symmetry of design and finish quality of welding, coating, plating and fabrication work. Where threaded fasteners are used, sheet metal screws are not acceptable. Threaded fasteners shall be secured utilizing lock tight or equal to prevent screws from coming loose.
 - 1.9.2.2 Where blind attachment is necessary, expandable nut inserts or other blind attachment threaded devices shall be used.
 - 1.9.2.3 Bolted construction consisting of machine screws with nuts and lock washers shall be employed. Tapped holes, stud-welded fasteners shall be used where necessary to permit items to be removed by one person where they cannot reach the opposite side of the fastener. All fasteners shall meet SAE J429 Standards.
 - 1.9.2.4 Self-tapping machine screws may be used in the attachment of labels, trim plates and strips, provided attachment is made to steel. Blind attachment of nonferrous metals shall use alternative methods approved by the County.

- 1.9.3 In the event of a failure or breakdown during the warranty period and upon written notice from the Fire Department, action must be taken by the bidder to begin repairs or other correction within three (3) working days. The warranty vendor shall complete any and all warranty repairs within ten (10) working days after receiving apparatus. If repairs extended beyond the ten (10) working day period, vendor shall pay the Riverside County Fire Department in liquidated damages in the amount of \$150.00 per day, or the equivalent in parts credit, for each additional day the apparatus repairs are delayed. The time period payment penalty may be waived with prior approval, by the Riverside County Fire Department.
- 1.9.4 Transportation of the apparatus to and from service facilities, including apparatus driver and towing as necessary, shall be the responsibility of the bidder. The apparatus will be delivered back to County within one (1) day of completion of work at no additional cost to the County.
- 1.9.5 If the bidder does not respond as required after three (3) working days, the County may immediately proceed to have the apparatus repaired by another source. The bidder shall be liable to the County for all costs associated with such warranty work.
- 1.9.6 The bidder shall furnish the necessary documentation on any and all new and/or replacement parts to enable the County to verify warranties with original equipment manufacturer.
- 1.9.7 Defective parts will be labeled and retained by the County until parts are replaced. The bidder shall take full responsibility for returning any defective parts to their supplier.
- 1.9.8 The bidder shall provide the name and phone number of one warranty contact person at the bidder's manufacturing facility. If warranty repairs are necessary, this person and a Fire Department representative shall determine how to handle the specific repair. Options shall include the following:
 - 1.9.8.1 The bidder shall provide one point of contact for all warranty issues for the entire apparatus.
 - 1.9.8.2 The warranty contact shall be available by phone, 24 hours per day, 7 days per week, 365 days per year (including holidays).
 - 1.9.8.3 Send the apparatus to a repair facility that the bidder and the County agree upon. (Repair facility must be within a 30 mile radius of Riverside County Fire Department Headquarters in Perris, CA 92570)
 - 1.9.8.4 The County does the repair work with factory furnished parts and is reimbursed for its labor and costs.
 - 1.9.8.5 The bidder sends personnel to the apparatus location to do the repair work.
 - 1.9.8.6 The bidder shall provide a list of two (2) of the closest, approved warranty facilities to Perris Headquarters.
 - 1.9.8.7 The warranty facility shall have the ability to make warranty repairs both at their facility and in the field.
 - 1.9.8.8 The warranty facility staff shall be State or EVT certified and ASE certified to perform repairs on the specific apparatus.
- 1.9.9 The bidder shall state and list those parts of the proposed apparatus that are exclusively manufactured and sold by their company, which are not available through regular manufacturing outlets. Bidder shall maintain a parts inventory that is appropriate with the replacement needs based on the Riverside County Fire Departments fleet size in stock. A positive guarantee shall accompany bids stating that the manufacturer will make available a complete stock of all captive parts or components.

Comply with Section 1.9: YES _____ NO _____

Bidder Response Section 1.9:

1.10 Warranty Length

- 1.10.1 Components and apparatus shall be provided with a two (2) year, minimum, bumper to bumper warranty.
- 1.10.2 Compressor, five (5) years, unlimited mileage / hours.
- 1.10.3 Alternator, two (2) years, unlimited mileage (Alternator, Mounting Brackets).
- 1.10.4 Batteries three (3) years, unlimited mileage.

- 1.10.5 Belts, two (2) years, unlimited mileage
- 1.10.6 Body Paint Adhesion, five (5) years, unlimited mileage
- 1.10.7 Body ten (10) years, unlimited mileage
- 1.10.8 Cross Members: five (5) years, unlimited mileage / hours
(Coverage includes cross members)
(Gusset and Huck- Mounting Bolts)
(Attached to Gusset to Cross Members)
(Cross Member to Frail Rails)
- 1.10.9 Drivetrain including complete Transmission: five (5) years, unlimited mileage / hours
(Rear axle housing, differential housing and gears)
(Rear axle shafts, front axle beams and spindles)
(Steering gear and case, excluding delivery mileage)
- 1.10.10 Engine warranty: five (5) years, unlimited mileage / hours
(Comprehensive Components that fail under normal and severe duty service)
(Cylinder Block, Cylinder Heads, Crankshaft, Camshaft)
(Main Bearing Bolts, Flywheel Housing, Connecting Rod)
(Turbocharger, Intake and Exhaust Manifolds)
(Timing Gears and Housing, Oil Cooler Housing)
(Water Pump Housing, Air Inlet Housing, Engine Electronics)
(Fuel Pumps and Injectors and all internal parts)
(Warranty includes parts, labor, and repairs)
(Excluding delivery mileage, whichever is greater)
- 1.10.11 Engine Main Cooling System: five (5) years, unlimited mileage / hours
(Coverage Includes Radiator Core, Radiator Tanks)
(Cooling Fans, Fan Hub Assembly, Brackets, Braces)
- 1.10.12 Engine Charge Air Cooler and related Parts five (5) years, unlimited mileage / hours
- 1.10.13 Emergency Light Bar and Bulbs three (3) years, unlimited mileage / hour
(Components, LED Lights, All Bulbs, Power Supply)
(Electronic Siren, Speakers)
- 1.10.14 Frame Rails and Cross-Members: Lifetime Warranty
(Frame Rail Liners, Frame Rail Extensions)
(And Any Item(s) Factory Welded to Them)
- 1.10.15 Mirror: two (2) years, unlimited mileage
- 1.10.16 Paint (Paint Peeling, Cracking, blistering) seven (7) years, unlimited mileage
(Paint shall be covered 100% including UV Paint Fade)
- 1.10.17 Paint (Corrosion, Adhesion, Perforation) ten (10) years, unlimited mileage/hours
- 1.10.18 Radio: five (5) years, unlimited mileage / hours
- 1.10.19 Seats: two (2) years, unlimited mileage / hours
- 1.10.20 Starter: two (2) years, unlimited mileage / hours
(Starter Motor, Solenoid, Mounting Brackets)
- 1.10.21 Steering: five (5) years, unlimited mileage / hours
(Steering Pump, Steering Gear Box, Hoses)
- 1.10.22 Structure Components, Defects, Workmanship: five (5) years, unlimited mileage/hours
(Including Parts, Labor and Repairs)
- 1.10.23 Towing: two (2) years, dated when placed in service. If the apparatus has a warrantable defect and is deemed unsafe or unlawful to operate, the contractor shall be responsible for towing the apparatus to the warranty repair facility which shall be located within a 30-mile radius of Riverside County.
- 1.10.24 Transmission: shall have a five (5) year unlimited mileage / hour warranty.
- 1.10.25 The warranty period shall begin upon formal written acceptance by the county.

- 1.10.26 The manufacturer of the final product will be the single point of contact and assumes all responsibility for any/all warranty issues on the entire apparatus. NO EXCEPTIONS (This is due to eliminating any warranty contactor issues).
- 1.10.27 If any component, unit or subsystem is repaired, rebuilt or replaced during the warranty period, the remaining unexpired warranty period shall remain.

Comply with Section 1.10: YES _____ NO _____

Bidder Response Section 1.10:

1.11 Warranty Repair Parts

The Bidder shall maintain a parts inventory that is appropriate with the replacement needs based on the Riverside County Fire Departments fleet size in stock. This parts inventory shall be available to be delivered within 24 hours to Riverside County Fire Department.

Comply with Section 1.11: YES _____ NO _____

Bidder Response Section 1.11:

1.12 Warranty Item General Repairs

Warranties in this document are in addition to any statutory remedies or warranties imposed on Contractor. Consistent with this requirement, Contractor warrants to County each complete chassis, body, specific subsystems, and components as follows: The warranty is based on regular operation of the fire engine under the operating conditions prevailing in Riverside County under serve duty service and fire service environment. This warranty shall include all labor and materials required in repairing or replacing all parts.

Comply with Section 1.12: YES _____ NO _____

Bidder Response Section 1.12:

1.13 Repairs by Contractor

- 1.13.1 All repairs shall be completed in a timely manner. Contractor shall make every reasonable attempt to complete each repair upon receipt of the apparatus.
- 1.13.2 For normal warranty repair work, the contractor shall be responsible to transport the apparatus to and from the warranty facility at no cost to the County. The Chilton manual shall be utilized for chassis items. Once the apparatus is at the warranty facility, the apparatus shall not be parked awaiting service. All repairs shall be completed as soon as possible with no delays.
- 1.13.3 Contractor shall provide to the County one (1) legible copy of the warranty work order describing all work performed and parts provided; including, the total cost for repairs. For all warranty repairs, contractor shall pick-up and deliver each apparatus to one of two location determined by the County, either the Perris shop or Indio shop.
- 1.13.4 Contractor shall pick up the apparatus in need of warranty repair within twenty-four (24) hours of being notified by the County. The County may elect, at their own discretion, to deliver the apparatus to the warranty repair facility, or pick up the apparatus from the warranty repair facility as needed.

Comply with Section 1.13: YES _____ NO _____

Bidder Response Section 1.13:

1.14 Repairs made by County

1.14.1 All warranty repairs performed inhouse by County Technician's shall be considered the same as if the repairs were conducted at the Contractor's warranty facility. The repairs shall in no way negatively affect

the apparatus or component warranties. Prior to any inhouse warranty repairs, the Contractor shall provide to the County written authorization to perform the warranty repair work. This authorization shall be included in the County’s submittal to the Contractor for reimbursement of labor and parts.

- 1.14.2 Contractor shall provide and deliver to Riverside County Fire Department, all parts required for repairs within seventy-two (72) hours, upon request by Riverside County Fire Department. If Contractor fails to deliver said requested parts within seventy-two (72) hours, Riverside County Fire Department reserves the right to separately procure said required parts, from another source. Contractor shall reimburse Riverside County Fire Department for any invoiced cost, including applicable sales taxes and freight charges. Contractor shall replace and deliver to Riverside County Fire Department, all parts used for warranty repairs from Riverside County Fire Department inventory, within seventy-two (72) hours, upon request by Riverside County Fire Department. Riverside County Fire Department shall return to Contractor for pick-up, upon Contractor request, all defective parts covered under warranty and replaced by Riverside County Fire Department, for a period of not less than sixty (60) days upon completion of repairs. Riverside County Fire Department shall be reimbursed by Contractor within thirty (30) calendar days for any Riverside County Fire Department labor provided for repairs under warranty. The amount of reimbursement shall be determined by multiplying the number of man-hours allowed by O.E.M., times standards including the flat rate manual fee of one- hundred and ten (\$110.00) dollars per hour. Furthermore, Riverside County Fire Department will charge an additional cost to tow the fire engine (within the normal warranty service area) to the warranty repair facility, or to Contractor should such action be necessary.

Comply with Section 1.14: YES _____ NO _____

Bidder Response Section 1.14:

1.15 Acceptance Authority

Formal acceptance of each apparatus shall be provided in writing by the County’s Fire Chief and/or his designee and will be made after the vehicle has passed all operational tests and all identified problems have been fixed.

Comply with Section 1.15: YES _____ NO _____

Bidder Response Section 1.15:

1.16 Required Meetings

1.16.1 Cost is to be pre-set at the time of contract award and included in the base price of the apparatus. All travel shall depart and return from Palm Springs International Airport (PSP). It shall be the responsibility of the County Apparatus Committee representatives to arrive and depart from Palm Springs International Airport (PSP), all travel cost between departing from and returning to PSP shall be the responsibility of the awarded contractor. Travel costs that are the responsibility of the awarded contractor shall include:

- 1.16.1.1 All air travel
- 1.16.1.2 Baggage fees up to one checked bag per traveling Apparatus Committee member
- 1.16.1.3 Car Rental Fee
- 1.16.1.4 Lodging expenses. (Single room occupancy per person)
- 1.16.1.5 All Meals

1.16.2 Engineering Support at Pre-Construction Meeting

The Contractor shall provide an engineer to be present at the pre-construction meeting held at the factory location. The engineer will address all engineering related questions for the truck as purchased and for all proposed changes. The engineer is to remain present during the entire meeting. No Exception (Due to the Departments requirement to eliminate design oversights). The engineer will have the 2D and/or 3D AutoCAD electronic drawings projected on screen and be able to provide dimensional data for proposed

changes and proposed layouts. This will help ensure that the final design matches the County's intentions to the maximum extent possible.

1.16.3 Pre-Construction Meeting

The bidder shall provide transportation and all per diem costs for seven (7) County representatives to meet with bidder's staff as described below. These meetings typically follow an agenda of four (4) full working days and will be held at the manufacturing location. Tasks may be changed as requested by the County. The production drawings shall be available on computer aided design (CAD) equipment to assure critical tolerance and detail only available with CAD equipment. Should the County determine that the bidder has not properly interpreted the specifications or does not intend to manufacture the apparatus as specified; the County may cancel the contract at no cost to the County. No Exceptions (Due to the Departments requirement to eliminate design oversights).

- 1.16.3.1 CAD operator shall be present and fully functional during all phases of the pre-construction meeting when any discussion is taking place relating to the design and/construction of apparatus.
- 1.16.3.2 During the time when the CAD operator is required in the pre-construction meeting, the CAD operator shall project onto a large enough screen for all to clearly see, the construction drawing of the area of the apparatus being discussed. Any and all changes to the designed features shall be updated in real time while the meeting is being conducted.
- 1.16.3.3 Prior to the pre-construction meeting being completed, six (6) complete sets of CAD drawings on 17" X 11" paper shall be provided to the Riverside County Fire Department representatives. These updated construction drawings shall clearly show:
 - a. There shall be five (5) views of the truck with the doors closed (Top, Left, Right, Front, Rear), five (5) views of the apparatus with the doors open (Top, Left, Right, Rear, front) and five (5) views of any walk-in area (Top, Left, Right, Rear, Front) If applicable to current project).
 - b. All compartment door openings and usable space shall be clearly shown in inches with the door seal included
 - c. The apparatus overall length, height, width, wheelbase and cab-to-axle dimensions shall be clearly shown.
 - d. The apparatus overall length, height, width, wheelbase and cab-to-axle dimensions shall be clearly shown.
 - e. The angles of approach and departure shall be shown in the maximum loaded condition to the nearest degree.
 - f. All lighting packages will be clearly shown on the drawing and verified accurate per the most current NFPA standards (when applicable).
 - g. The exterior view shall show all scene lights, marker lights, speakers, horns, exhaust, tow points, exterior outlets, windows, tow hitches, and any other item important to the function of the vehicle
 - h. The open view shall show all trays, shelves, air system components, hydraulic components, tool boards, storage modules and any other items important to the function of the vehicle.
 - i. The interior view for all walk-in areas shall show all seating positions, windows, tech equipment, radio locations and any other item important to the function of the vehicle. Dash layout to include radios, code 3 control electronics, spot light controllers, headset communications system, Department supplied MDC (Mobile Data Computer) and transmission gear selector control unit.
 - j. There shall be a drawing of the aerial vertical reach, horizontal reach, tip load, angle of elevation and overall width with the stabilizers deployed.
- 1.16.3.4 Failure to provide a qualified and functioning CAD operator during the pre-construction meeting shall constitute an immediate cancelation of the pre-construction meeting. Another date for the pre-construction meeting will be scheduled and all representatives of Riverside County Fire Department will be transported back to PSP airport at the bidder's expense. It will be the bidder's

- responsibility to arrange for travel back to their facility for the rescheduled pre-construction meeting. The bidder shall be responsible for all expenses relating to the rescheduled meeting.
- 1.16.3.5 Confirmation of the availability of the CAD operator and his/her ability to produce all of the required materials for the scheduled pre-construction meeting shall be provide by e-mail prior to the representatives of the Riverside County Fire Department traveling to the bidders facility for the pre-construction meeting.
- 1.16.3.6 The requirement of the CAD operator and his/her ability to produce all the required drawings at the pre-construction meeting is a NO EXCEPTION ITEM (Due to the Departments requirement to eliminate design oversights). This ability shall be confirmed at the time of bid submission. Failure to comply with this requirement shall be grounds for automatic rejection of the bid proposal
- a. Body compartment layout requirement.
 - b. Compartment lights: type, size, mounting and protection.
 - c. In-cab console design, location.
 - d. Blind attachments discussion.
 - e. Dash controls and gauges (type & location).
 - f. Seating arrangement.
 - g. Emergency warning system controls, location and overall design.
 - h. Radio installation.
 - i. Aerial trailer design and configuration.
 - j. Access, ergonomics, appearance.
 - k. Turn circle data: chassis turn radius, wall-to-wall, and curb-to-curb.
 - l. Sigtronics radio/intercom system installation and interface.
 - m. Discuss printed, visual materials list.
 - n. Mounting rechargeable flashlights, pike poles, rubbish hooks.
 - o. Electrical system design and layout.
 - p. Aluminum electrolysis engineering.
- 1.16.4 **Cab Chassis Inspection**
- The bidder shall provide transportation and all per diem costs for two (2) County representatives to meet with bidder's staff as described below. The chassis inspection meeting shall be conducted inside of a clean, properly illuminated, temperature controlled apparatus bay that is intended specifically for the purposes of conducting vehicle inspections. These meetings typically follow an agenda of eight (8) hours per apparatus and will be held at the manufacturing location. The chassis will be available for inspection in a clear area, away from the production line. Tasks may be changed as requested by the County.
- 1.16.4.1 Obtain line setting sheet for chassis, filter, hose, and belt numbers for service center and shop.
 - 1.16.4.2 Dana application and certification.
 - 1.16.4.3 Alternator output curve.
 - 1.16.4.4 Spring ratings.
 - 1.16.4.5 Creeper inspection: axles, springs driveline, engine, transmission, steering.
 - 1.16.4.6 Check for unauthorized blind attachments.
 - 1.16.4.7 Still photo profile for department records.
 - 1.16.4.8 Air-conditioning mounting.
 - 1.16.4.9 Vehicle operation controls and gauges: type, location.
 - 1.16.4.10 Front and rear axle weights and total vehicle weight.
 - 1.16.4.11 The manufacturer shall make available the following items to be utilized during the chassis inspection:
 - a. Tape measure that reads in inches and is long enough to allow the length of apparatus to be measured at one time.
 - b. An operational flashlight.
 - c. Green or blue "painters type" tape.
 - d. An operational mechanics creeper.

1.16.5 Trailer & Aerial Pre-Paint Inspection

The bidder shall provide transportation and all per diem costs for three (3) County representatives to meet with bidder’s staff as described below. The pre-paint inspection meeting shall be conducted inside of a clean, properly illuminated, temperature controlled apparatus bay that is intended specifically for the purposes of conducting vehicle inspections. These meetings typically follow an agenda of a minimum of two (2) working days and will be held at the manufacturing location. Tasks may be changed as requested by the County.

- 1.16.5.1 Creeper inspection: specification compliance.
- 1.16.5.2 Compartment location, dimensions.
- 1.16.5.3 Electrical system fabrication (12-Volt & 110-Volt).
- 1.16.5.4 Paint, striping and decal scheme.
- 1.16.5.5 Radio, communications system layout.
- 1.16.5.6 Emergency warning system.
- 1.16.5.7 Cab layout, scuff protection.
- 1.16.5.8 Overall vehicle layout.
- 1.16.5.9 Documentation that UL testing has been completed.
 - a. Tape measure that reads in inches and is long enough to allow the length of apparatus to be measured at one time.
 - b. An operational flashlight.
 - c. Green or blue “painters type” tape.
 - d. An operational mechanics creeper.

1.16.6 Final Inspection

The bidder shall provide transportation and all per diem costs for four (4) County representatives to meet with bidder’s staff as described below. The final inspection meeting shall be conducted inside of a clean, properly illuminated, temperature controlled apparatus bay that is intended specifically for the purposes of conducting vehicle inspections. These meetings typically follow an agenda of two (2) full working days per apparatus and will be held at the manufacturing location. Tasks may be changed as requested by the County.

- 1.16.6.1 Creeper inspection: specification compliance.
- 1.16.6.2 Compartment location, dimensions.
- 1.16.6.3 Electrical system operations (12-Volt & generator power).
- 1.16.6.4 Finish details, workmanship
- 1.16.6.5 Paint, striping
- 1.16.6.6 Radio, communications system
- 1.16.6.7 Emergency warning system operations.
- 1.16.6.8 Performance testing: NFPA 1901 standard vehicle operational tests.
- 1.16.6.9 Cab Seating capacity tag specifying that seating for six (6) shall be provided.
- 1.16.6.10 Front and rear axle weights and total vehicle weight without personnel.
- 1.16.6.11 Trailer and aerial inspection.
- 1.16.6.12 UL Testing documentation.
- 1.16.6.13 The manufacture shall make available the following items to be utilized during the final inspection:
 - a. Tape measure that reads in inches and is long enough to allow the length of apparatus to be measured at one time.
 - b. An operational flashlight.
 - c. Green or blue “painters type” tape.
 - d. An operational mechanics creeper.

Comply with Section 1.16: YES _____ NO _____

Bidder Response Section 1.16:

1.17 Delivery

- 1.17.1 The apparatus shall be delivered from the manufacturing facility to a local vendor (located within a 50-mile radius of Riverside County Fire Departments Headquarters) service/warranty facility after successful approval by the Riverside County Fire Department at the final inspection meeting. Prior to delivering the apparatus to the Riverside County Fire Department, the vendor shall:
 - 1.17.1.1 Fully inspect the apparatus for any/all issues that may have developed during the drive between the manufacturing facility and the vendors service/warranty facility.
 - 1.17.1.2 Verify that all of the items that were noted during the final inspection meeting were properly repaired and/or addressed.
 - 1.17.1.3 Change the oil and oil filter.
 - 1.17.1.4 Change the transmission filter.
 - 1.17.1.5 Check differential fluid and change if required.
 - 1.17.1.6 Check coolant fluid level.
 - 1.17.1.7 Lube apparatus.
 - 1.17.1.8 Clean apparatus.
 - 1.17.1.9 Fill the diesel fuel tank.
 - 1.17.1.10 Fill DEF tank.
- 1.17.2 The bidder shall deliver each apparatus to the Riverside County Fire Department at a location to be determined at the pre-construction meeting for final inspection and performance testing. The bidder shall remain responsible for each apparatus until it is delivered to and accepted by the Riverside County Fire Department.
- 1.17.3 **Delivery Engineer**
 - 1.17.3.1 The apparatus shall be operated throughout all performance testing by the delivery engineer of the bidder. This delivery engineer shall also summarize the results with the County
 - 1.17.3.2 The bidder assumes all liability in connection with any accidents, injuries, or damages related to the tests, and shall hold the County, its employees, agents and representatives harmless.
 - 1.17.3.3 The bidder’s delivery engineer shall provide forty (40) hours of operation training for Fire Department personnel in a Train-the-Trainer format, at a location to be determined by the County.
 - 1.17.3.4 The bidder shall deliver onsite training for Fire Apparatus Technician’s and provide forty (40) hours of operation training for Riverside County Fire Department personnel in a Train-the-Trainer format. All training shall be conducted at the Ben Clark Training Center located at 16791 Davis Avenue, Riverside, CA. Such training shall include general maintenance, trouble shooting, repair techniques, and timesaving suggestions. A minimum level of training in each area below shall also be provided to the Fire Department Fire Apparatus Technician’s, which will include (2) shop locations one in (Perris) and one in (Indio) with an intent to provide a minimum of sixteen (16) hours per site to be determined by the County. This includes training handouts, and materials as required. The first class shall be within thirty (30) days from the first apparatus delivery. The second class shall be within six (6) months from the first apparatus delivery.
 - 1.17.3.5 The delivery engineer shall possess extensive knowledge in tractor drawn aerials construction, layout & operational capabilities.
- 1.17.4 **Delivery Schedule**
 - 1.17.4.1 The bidder shall provide a firm delivery schedule to the County within 10 days of completion of the pre-construction meeting.

Comply with Section 1.17: YES _____ NO _____

Bidder Response Section 1.17:

1.18 Performance Test and Requirements

- 1.18.1 All performance requirements and testing shall be based on the apparatus fully loaded to the manufacturer’s certified weight rating and operating in ambient temperatures from 25 degrees Fahrenheit to 115 degrees Fahrenheit, with 50 percent humidity, at elevations from sea level to 7,000 feet above sea level.
- 1.18.2 The completed apparatus shall meet the air system, brake system, air conditioning system and engine and transmission cooling system performance requirements reflected herein.
- 1.18.3 An acceptance road test shall be conducted with the apparatus loaded to the manufacturer’s certified weight rating. A continuous run of fifty (50) miles or more shall be made under any or all of the aforementioned operating conditions, during which time the apparatus shall show no loss of power or overheating. The transmission, drive shaft or shafts and rear drive axle shall run quietly and be free from abnormal vibration or noise throughout the operating range of apparatus.
- 1.18.4 The apparatus shall be capable of accelerating on a level concrete road, from a standing start to a speed of not less than 35 mph within 17 seconds.
- 1.18.5 The loaded apparatus shall be capable of starting up and ascending a 20% grade.
- 1.18.6 The loaded apparatus shall be capable of attaining a speed of not less than 4 mph from a standing start on a 20% grade.
- 1.18.7 The loaded apparatus shall be capable of ascending a continuous 6% grade, from sea level to an elevation of 7,000 feet at a speed of not less than 25 mph.
- 1.18.8 122.8 The loaded apparatus shall be electronically governed to not exceed the most current NFPA 1901 recommendation. NO EXCEPTIONS.
- 1.18.9 The service brakes, without auxiliary brakes, shall be capable of stopping the fully loaded vehicle in 30 feet at 20mph on a level concrete highway.
- 1.18.10 The service brakes shall be capable of stopping the fully loaded apparatus on a 20% grade and the parking brakes shall be capable of holding the fully loaded apparatus on a 20% grade.
- 1.18.11 The completed apparatus, as delivered, shall have equal turning diameters both left and right and shall have a maximum curb to curb diameter of 55’ and a maximum wall to wall diameter of 58’.
- 1.18.12 The manufacturer at his expense shall have the apparatus tested and approved by Underwriters Laboratories Incorporated, in accordance with the latest version of NFPA Standard 1901.
- 1.18.13 It shall be required that the apparatus be operated throughout all tests by the delivery engineer of the successful bidder, and during such tests shall have a representative to work with from Riverside County Fire Department’s Fleet Division in summarizing results of the tests. Riverside County Fire shall be notified a minimum of twenty-one (21) working days in advance of these tests and may elect to have a representative present.
- 1.18.14 A complete demonstration of how the apparatus and aerial ladder operates shall be conducted by the manufacturer during the on-site inspection of the completed apparatus.

Comply with Section 1.18: YES _____ NO _____

Bidder Response Section 1.18:

1.19 Failure to Meet Tests and Requirements

- 1.19.1 In the event the apparatus fails to meet the test requirements on first trials, second trials shall be made within thirty (30) calendar days of the first trials. Such trials shall be final and conclusive, and failure to comply with the requirements shall be cause for rejection.
- 1.19.2 Failure to make changes as the Fire Department may consider necessary to conform to these specifications, within thirty (30) calendar days after written notice is given to the bidder to make such changes and shall be cause for rejection of the apparatus.
 - 1.19.2.1 Failure of an inspection (Cab/chassis or Pre-paint) shall require a re-inspection prior to the bidder/builder moving on to the next phase of the apparatus construction. All costs of this re-inspection shall be the responsibility of the bidder. The Riverside County Fire Department shall send two (2) representatives to the re-inspection to ensure contract compliancy. The Riverside

- County Fire Department shall not allow another inspection to be scheduled until confirmation of completion has been achieved on the previous inspection has been achieved.
- 1.19.2.2 Failure of a pre-paint inspection shall require that a re-inspection take place before any finish work (application of any filler materials and/or painting) take place.
 - 1.19.2.3 Failure of the final inspection shall require a re-inspection prior to the bidder/builder delivering the apparatus. The final re- inspection shall take place at the vendors service/warranty facility. The Riverside County Fire Department shall send two (2) representatives to the re-inspection to insure contract compliancy.
 - 1.19.3 All required equipment, manuals, charts, and books shall accompany the apparatus at the time of delivery. Failure to deliver the equipment and printed material as required may be cause for non-acceptance of the apparatus.

Comply with Section 1.19: YES _____ NO _____

Bidder Response Section 1.19:

1.20 General Apparatus Construction Criteria

- 1.20.1 The design of the apparatus shall embody the latest approved SAE automotive and JIC hydraulic engineering practices and standards. The construction and workmanship throughout the apparatus shall be of the highest professional quality.
- 1.20.2 Welded construction shall not be used in the attachment of the following items: running boards, compartment hinges and fenders. Welded compartments are acceptable, but shelving within compartments must be adjustable.
- 1.20.3 All steel welding shall be performed to American Welding Society Standard D1.1-83 for structural steel welding. All aluminum welding shall be performed to American Welding Society Standard and ANSI D1.2-83 for structural welding of aluminum. All Flex cord arc welding shall use alloy rods type 7000 American Welding Society Standards A5.20-E70T1.
- 1.20.4 Welding shall not be employed in assembly of the apparatus in any manner that shall prevent the ready removal of any mechanical part or component for service or repair, including the attachment of fenders, running boards or compartment hinges.
- 1.20.5 All welding shall be neat and have uniform beads. All welding spatter shall be removed. Any torch cut metal shall have cuts ground smooth.
- 1.20.6 Anodized couplings used in connection with "Aeroquip" type lines are acceptable.
- 1.20.7 All sharp edges, burrs, etc., shall be ground or filed to a smooth radius. All exposed sharp corners of structural members shall be ground to a minimum radius of 1/2-inch or one-half the material width whichever is less.
- 1.20.8 Aluminum diamond-plate or stainless steel covering shall be used in all areas that have high exposure to paint finish damage under normal use. These areas include, but are not limited to, surface adjacent to walking or stepping surfaces, equipment mounting locations and areas subject to hose coupling and equipment damage.
- 1.20.9 The fire-body shall be built in accordance with design requirements and specifications listed in the trailer body & aerial section III.
- 1.20.10 Bolted construction consisting of machine screws with nuts and lock-washers shall be employed. Tapped holes, stud-welded fasteners or similar shall be used where necessary to permit items to be removed by one person where they cannot reach the opposite side of the fastener. All fasteners shall meet SAE J429 Standards.

Comply with Section 1.20: YES _____ NO _____

Bidder Response Section 1.20:

1.21 Finish

- 1.21.1 All exposed metal surfaces will be painted. In preparation for painting running boards, rear steps, all aluminum tread-plate, stainless steel, chrome, compartment doors, pumps panels and similar parts shall be removed from apparatus.
- 1.21.2 All metal shall be thoroughly sanded and primed. A sufficient number of filler coats shall be applied to insure a smooth pit-free surface.
- 1.21.3 The apparatus body compartment interiors and inner door panels shall have a "Line-X" two-component spray-in-place thermoplastic polyurethane coating to provide maximum protection for everyday equipment removal and shifting.
- 1.21.4 The exterior cab and apparatus body will be painted in PPG FBCH 72626 Alt special red, in all areas.
- 1.21.5 The apparatus lettering and decal will be done to meet Riverside County Fire Department specifications. Photos and vendor information will be provided at the pre-construction meeting.
- 1.21.6 The apparatus lettering and decal will be done to meet Riverside County Fire Department specifications. Photos and vendor information will be provided at the pre-construction meeting.
- 1.21.7 The entire chassis frame rails shall be properly prepared and finish painted in job color prior to installation of body brackets, stiffeners, and support members or similar items. The entire chassis, engine and other components shall be thoroughly painted and free of rust when delivered to the Fire Department.
- 1.21.8 Any accessory equipment mounted before final painting must be removed prior to painting. Drilled holes for lights, sirens, compartments or similar items shall receive the final prime and finish paint so that all the holes, cut-outs, louvers and similar are painted.
- 1.21.9 After final painting all parts that have been removed and all aluminum tread-plate overlays and running boards must be assembled with coated nuts, bolts, and coated self-tapping screws, using special tape to preclude electrolysis and gasket to inhibit rust and corrosion. The use of gaskets under the accessories is required so brackets do not dig in and break the paint.
- 1.21.10 All metal surfaces will be painted, including areas covered by aluminum tread-plate, stainless or similar.
- 1.21.11 When painting the apparatus, the engine compartment shall be masked off so that paint will be kept off fan belts, radiator hoses, wiring or other electrical appurtenance.
- 1.21.12 Chromium plating shall be of the highest quality decorative type and comply with ASTM Table II, Class 4 "Service: Very Severe"; and also shall meet ASTM-A-219-58 "Thickness" and ASTM-B-380-61T, "Corrosion Test Methods" latest editions.
- 1.21.13 The body exterior shall have no mounted components prior to painting to assure full coverage of metal treatments and paint to the exterior surfaces of the body.

Comply with Section 1.21: YES _____ NO _____

Bidder Response Section 1.21:

1.22 Paint Process

The metal is to be thoroughly cleaned and prepped in accordance with paint manufacturer's recommendations for polyurethane enamel finish. Color primer will be applied at 2 to 4- mil thickness, and a minimum of 2-3 coat finish to provide a smooth blemish free surface for a final color application of 2 to 3- mil thicknesses. Exterior paint shall average at least eighty even (87) reflectivity measured at not fewer than twelve location per the paint manufacturer's standard test method. A mirror finish is expected. No runs, sags, fish-eyes, orange-peel, foggy topcoat, or other finish defects will be accepted. Apparatus body shall be free from sharp corners, edges, burrs and other conditions hazardous to passengers, driver and maintenance personnel.

Comply with Section 1.22: YES _____ NO _____

Bidder Response Section 1.22:

1.23 Reflective Markings

- 1.23.1 A white 6-inch reflective tape will be applied on the vehicle that meets the latest NFPA 1901 Standard and must match existing County standards. Photographs and specifications will be provided to the bidder upon request.
- 1.23.2 In addition to the custom striping pattern on the apparatus, there shall be additional reflective striping applied to the entire rear of the unit. The striping shall consist of alternating red and fluorescent yellow reflective stripes. Each stripe shall be a minimum of six (6) inches in width and shall be applied to the apparatus at a 45 degree angle. Chevron striping to the entire recessed portion of the rear of the body around the T1 door and under the tiller cab.
- 1.23.3 There shall be a 1 1/2 inch strip of chevron on the edge of the inner pan of all compartments on the cab, and fire body. The colors shall be the same as the chevron striping on the rear of the apparatus.
- 1.23.4 There shall be a four (4) inch wide Red/Yellow chevron that shall be applied to the outer most edge all of the compartment interior door pans. This reflective material shall run the full height of the compartment door.
- 1.23.5 The interior of each cab door shall include high visibility reflective tape. A white reflective tape one (1) inch in width shall be provided vertically along the rear outer edge of the door. The lowest portion of each door skin shall include a reflective tape chevron with red and white stripes. The chevron tape shall measure twelve (12) inches in height.
- 1.23.6 There shall be two (2) inch reflective striping installed in the rub rail channel. The reflective striping shall be diamond grade quality material for increased visibility. The reflective tape shall be silver in color.
- 1.23.7 There shall be two (2) reflective American Flags installed on the apparatus. Location to be determined at the pre-construction meeting. All red/yellow chevron striping shall match throughout the entire apparatus

Comply with Section 1.23: YES _____ NO _____

Bidder Response Section 1.23:

1.24 Materials

All materials shall conform to the detailed specifications. When not specifically listed, materials shall be of the best quality for commercial use. Materials shall be free of all defects and imperfections that might affect the completed apparatus.

Comply with Section 1.24: YES _____ NO _____

Bidder Response Section 1.24:

1.25 Replacement Parts

- 1.25.1 The bidder shall list and attach to their proposal any proprietary parts; to include, part #'s, item description and unit price for all proprietary parts exclusively manufactured for the apparatus being offered.
- 1.25.2 Bidder shall provide a guarantee confirming the manufacturer of the apparatus will have readily available for immediate shipment to the County a complete stock of all proprietary parts for a period of twenty (20) years from date the apparatus is delivered/accepted by the County.
- 1.25.3 The manufacturer of the apparatus shall not provide any components or parts that reflect their name or logo which are not proprietary to them; thereby, preventing the County from purchasing an "exact" replacement component or part through regular supply distribution channels (i.e. manufacturing jobbers or retail outlets).

Comply with Section 1.25: YES _____ NO _____

Bidder Response Section 1.25:

1.26 Compliance

The bidder shall be liable for all costs associated with failure of the apparatus to comply with these specifications. Final acceptance of the apparatus will not be made, nor any payments made, until such time as all discrepancies are corrected to the satisfaction of the County.

Comply with Section 1.26: YES _____ NO _____

Bidder Response Section 1.26:

1.27 Vehicle Registration

- 1.27.1 Bidder shall be licensed by the California Department of Motor Vehicles as a dealer for commercial vehicles and have the ability legally register any vehicles purchased.
- 1.27.2 Contractor shall ship all vehicles with temporary registration.

Comply with Section 1.27: YES _____ NO _____

Bidder Response Section 1.27:

1.28 Quality Assurance Provisions

- 1.28.1 The County reserves the right, at the County’s expense, to maintain a representative(s) in Manufacturer’s Plant and assembly line during the production of its apparatus to observe the assembly with the intent to provide clarification to the bid specifications. The County also reserves the right, at the County’s expense, to maintain a representative(s) in Contractor’s Dealership pre-delivery preparation facility location during the pre-delivery production of its apparatus. The County shall observe the pre-delivery preparation and provide clarification of the departments bid specifications prior to delivery of apparatus to the County’s delivery and acceptance location.
- 1.28.2 The manufacturer shall build one complete apparatus prior to the construction of any others. The County’s must approve everything on the first apparatus to ensure everything has been built to the spec

Comply with Section 1.28: YES _____ NO _____

Bidder Response Section 1.28:

End of Section I – General

Attachment: FPARC-327 - Aerial Fire Apparatus Bid Packet (Final) (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER FIRE

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- 2.89 Front Suspension
- 2.90 Front End Torque
- 2.91 Steering Column/Wheel
- 2.92 Electronic Power Steering Fluid Level Indicator
- 2.93 Power Steering Pump
- 2.94 Tiller Steering Provisions
- 2.95 Front Axle Cramp Angle

- 2.96 Power Steering Gear
- 2.97 Chassis Alignment
- 2.98 Rear Axle Differential Lubrication
- 2.99 Rear Wheel Bearing Lubrication
- 2.100 Vehicle Top Speed
- 2.101 Rear Suspension
- 2.102 Rear Shock Absorbers
- 2.103 Front Tire / Trailer Steer Tire
- 2.104 Rear Drive Tire
- 2.105 Rear Axle Ratio
- 2.106 Tire Pressure Equalization System
- 2.107 Tire Pressure Indicator
- 2.108 Front Wheel
- 2.109 Rear Wheel
- 2.110 Balance Wheels and Tires
- 2.111 Wheel Trim
- 2.112 Wheel Guards
- 2.113 Rear Wheel Wells Tractor
- 2.114 Brake System
- 2.115 Front Brakes
- 2.116 Rear Brakes
- 2.117 Park Brake
- 2.118 Park Brake Control
- 2.119 Rear Brake Slack Adjuster
- 2.120 Air Dryer
- 2.121 Brake Chambers
- 2.122 Air Compressor
- 2.123 Air Governor
- 2.124 Moisture Ejectors
- 2.125 Air Supply Lines
- 2.126 Air Inlet Connection
- 2.127 Trailer Air Brake Connection Package
- 2.128 Wheelbase
- 2.129 Rear Overhang
- 2.130 Frame
- 2.131 Frame Warranty
- 2.132 Rear Tow Device
- 2.133 Frame Paint
- 2.134 Front Bumper
- 2.135 Air Horn
- 2.136 Cab Height Adjustment
- 2.137 Cab Tilt System
- 2.138 Cab Tilt Auxiliary Pump
- 2.139 Cab Tilt Control Receptacle
- 2.140 Cab Windshield
- 2.141 Glass Front Door
- 2.142 Glass Rear Door Left Hand
- 2.143 Glass Rear Door Right Hand
- 2.144 Glass Side Mid Right Hand
- 2.145 Glass Side Mid Left Hand
- 2.146 Climate Control

- 2.147 Under Cab Insulation
- 2.148 Interior Trim
- 2.149 Engine Tunnel Trim
- 2.150 Power Point Dash Mount
- 2.151 Auxiliary Power Point Engine Tunnel
- 2.152 Step Trim
- 2.153 Step Well Compartment
- 2.154 Kick Panel Compartment
- 2.155 Step Trim Kickplate
- 2.156 Interior Door Trim
- 2.157 Cab Door Trim Reflective
- 2.158 Interior Grab Handle "A" Pillar
- 2.159 Foot Rest
- 2.160 Interior Grab Handle Front Door
- 2.161 Interior Grab Handle Rear Door
- 2.162 Interior Rear Wall Compartment
- 2.163 Interior Rear Wall Compartment Interior Finish
- 2.164 Interior Rear Wall Compartment Lighting
- 2.165 Interior Soft Trim Color
- 2.166 Interior Trim Sun Visor
- 2.167 Cab Paint Interior Door Trim
- 2.168 Header Trim Interior Paint
- 2.169 Trim Center Dash Interior Paint
- 2.170 Trim Left Hand and Right Hand Dash Interior Paint
- 2.171 Switches Overhead Panel
- 2.172 Switches Dash Panel
- 2.173 Seating
- 2.174 Cab Front Underseat Storage Access
- 2.175 Seat Compartment Door Finish
- 2.176 Windshield Wiper System
- 2.177 Electronic Windshield Fluid Level Indicator
- 2.178 Cab Door Hardware
- 2.179 Door Locks
- 2.180 Grab Handles
- 2.181 Auxiliary Grab Handles
- 2.182 Rearview Mirrors
- 2.183 Exterior Trim Rear Corner
- 2.184 Trim Roof
- 2.185 Cab Fender
- 2.186 Ignition
- 2.187 Instrument Panel
- 2.188 Audible Alarms
- 2.189 Backlighting Color
- 2.190 Auxiliary Speedometer
- 2.191 Air Pressure Gauge Auxiliary Air Tank
- 2.192 Cab Exterior Protection
- 2.193 Fire Extinguisher
- 2.194 Door Keys
- 2.195 Warranty
- 2.196 Chassis Operation Manual
- 2.197 Engine and Transmission Operation Manuals

- 2.198 Engine Service Manuals
- 2.199 Transmission Service Manuals
- 2.200 Cab/Chassis As-Built Wiring Diagrams
- 2.201 Driveline Layout Confirmation
- 2.202 Overall Height
- 2.203 Overall Length
- 2.204 Chassis Wheel Base
- 2.205 Tiller Wheel Base
- 2.206 Angle of Approach
- 2.207 Angle of Departure
- 2.208 Miscellaneous Equipment Allowance
- 2.209 Hose Storage Compartment C1, Tiller Tractor
- 2.210 Compartment
- 2.211 Steps, Turntable Access, Tiller, Left
- 2.212 Steps, Turntable Access, Tiller, Right
- 2.213 Hand Lanterns
- 2.214 Cab Lift Hooks
- 2.215 Auxiliary Air Compressor
- 2.216 Mechanics Override Switch
- 2.217 Electric Cord Reels
- 2.218 Cord Reel Junction Box
- 2.219 Receptacle Junction Box
- 2.220 Volt Twist Lock, Single Receptacle
- 2.221 Generator
- 2.222 Manufacturing Labels

SECTION II – CAB & CHASSIS

2.1 Model

The chassis shall be a four-door model. The cab and chassis shall include design considerations for multiple emergency vehicle applications, rapid transit and maneuverability. The chassis shall be manufactured for heavy duty service with the strength and capacity to support a fully laden apparatus, one hundred (100) percent of the time.

Comply with Section 2.1: YES _____ NO _____

Bidder Response Section 2.1:

2.2 Country of Service

The chassis shall be put in service in the country of United States of America (USA). The chassis will meet applicable U.S.A. federal motor vehicle safety standards per CFR Title 49 Chapter V Part 571 as clarified in the incomplete vehicle book per CFR Title 49 Chapter V Part 568 Section 4 which accompanies each chassis.

Comply with Section 2.2: YES _____ NO _____

Bidder Response Section 2.2:

2.3 Cab and Chassis Labeling Language

The cab and chassis shall include the applicable caution, warning, and safety notice labels with text to be written in English.

Comply with Section 2.3: YES _____ NO _____

Bidder Response Section 2.3:

2.4 Apparatus Type

The apparatus shall be a mid-mount aerial vehicle designed for emergency service use. The apparatus shall be equipped with a mid-mount aerial ladder, minimum 100' in length.

Comply with Section 2.4: YES _____ NO _____

Bidder Response Section 2.4:

2.5 Vehicle Type

The chassis shall be manufactured for use as a tractor type vehicle, designed to accept a trailer through the use of a fifth wheel hitch. The trailer shall be supplied and installed by the apparatus manufacturer.

Comply with Section 2.5: YES _____ NO _____

Bidder Response Section 2.5:

2.6 Axle Configuration

The chassis shall feature a 4 x 2 axle configuration consisting of a single rear drive axle with a single front steer axle.

2.6.1 Front Steer Axle

The front steer axle shall be a Meritor "wide track" with a manufacturer's certified weight rating of not less than 21,500 lbs.

2.6.2 Drive Axle

The rear axle shall be a Meritor model RS-30-185 single drive axle. The axle shall include precision forged, single reduction differential gearing, and shall have a fire service rated capacity of 33,000 pounds. The axle shall be built of superior construction and quality components to provide the rugged dependability needed

to stand up to the fire industry’s demands. The axle shall include rectangular shaped, hot-formed housing with a standard wall thickness of 0.56 of an inch for extra strength and rigidity and a rigid differential case for high axle strength and reduced maintenance. The axle shall have heavy-duty Hypoid gearing for longer life, greater strength and quieter operation. Industry-standard wheel ends for compatibility with both disc and drum brakes, and unitized oil seal technology to keep lubricant in and help prevent contaminant damage will be used.

2.6.3 Rear Trailer Steer Axle

The rear trailer steer axle shall be Meritor having a manufacturer’s certified weight rating of not less than 23,000 lbs.

Comply with Section 2.6: YES _____ NO _____

Bidder Response Section 2.6:

2.7 Gross Axle Weight Ratings Front

The front gross axle weight rating (GAWR) of the chassis shall be 21,500 pounds. This front gross axle weight rating shall be adequate to carry the weight of the completed apparatus including all equipment and personnel.

Comply with Section 2.7: YES _____ NO _____

Bidder Response Section 2.7:

2.8 Gross Drive Axle Weight Rating

The rear gross axle weight rating (GAWR) of the chassis shall be 31,000 pounds. This rear gross axle weight rating shall be adequate to carry the weight of the completed apparatus including all equipment and personnel.

Comply with Section 2.8: YES _____ NO _____

Bidder Response Section 2.8:

2.9 Gross Combination Weight Rating

The gross combination weight rating (GCWR) shall be 74,500 lbs. The sum of the gross weight of the vehicle and the gross weight of the trailer intended to be towed shall not exceed this GCWR.

Comply with Section 2.9: YES _____ NO _____

Bidder Response Section 2.9:

2.10 Cab Style

The cab shall be a custom, fully enclosed, four door model with a flat roof over the driver, officer, and crew area, designed and built specifically for use as an emergency response vehicle by a company specializing in cab and chassis design for all emergency response applications. The cab shall be designed for heavy-duty service utilizing superior strength and capacity for the application of protecting the occupants of the vehicle. This style of cab shall offer up to six (6) seating positions. The cab shall incorporate a fully enclosed design with side wall roof supports, allowing for a spacious cab area with no partition between the front and rear sections of the cab. The cab shall be constructed of 5052-H32 corrosion resistant aluminum plate. The cab shall incorporate tongue and groove fitted 6061-T6 0.13 & 0.19-inch-thick aluminum extrusions for extreme duty situations. A single formed, one (1) piece extrusion shall be used for the “A” pillar, adding strength and rigidity to the cab as well as additional roll-over protection. The cab side walls and roof skin shall be 0.13-inch-thick; the rear wall skin shall be 0.09-inch-thick; the front cab structure shall be 0.19 inch thick. The exterior width of the cab shall be a minimum 99.00 inches wide with a minimum interior width of 91.00 inches. The cab interior shall be designed to afford the maximum usable interior space and attention to ergonomics with hip and leg room while seated which exceeds industry standards. The crew cab floor shall be flat across the entire walking area for ease of movement inside the cab.

Comply with Section 2.10: YES _____ NO _____

Bidder Response Section 2.10:

2.11 Cab Front Fascia

The front cab fascia shall be constructed of 5052-H32 Marine Grade, 0.13 of an inch thick aluminum plate which shall be an integral part of the cab. The cab fascia will encompass the entire front of the aluminum cab structure from the bottom of the windshield to the bottom of the cab and shall be the "Classic" design. The front cab fascia shall include two (2) molded plastic modules on each side accommodating a total of up to four (4) Hi/Low beam headlights and two (2) turn signal lights or up to four (4) warning lights. A chrome plated molded plastic bezel shall be provided on each side around each set of four lamps.

Comply with Section 2.11: YES _____ NO _____

Bidder Response Section 2.11:

2.12 Front Grille

The front cab fascia shall include a classic box style, 304 stainless steel front grille. The grille shall measure approximately 55" wide X 33" inches high X 1.50 inches deep. The upper portion of the grille shall be hinged to provide service access behind the grille. The grille shall include a minimum free air intake of approximately 750.00 square inches

Comply with Section 2.12: YES _____ NO _____

Bidder Response Section 2.12:

2.13 Cab Undercoat

There shall be a rubberized undercoating applied to the underside of the cab that provides abrasion protection, sound deadening and corrosion protection.

Comply with Section 2.13: YES _____ NO _____

Bidder Response Section 2.13:

2.14 Cab Side Drip Rail

There shall be a drip rail along the top radius of each cab side. The drip rails shall help prevent water from the cab roof running down the cab side.

Comply with Section 2.14: YES _____ NO _____

Bidder Response Section 2.14:

2.15 Cab Paint Exterior

The cab shall be painted prior to the installation of glass accessories and all other cab trim to ensure complete paint coverage and the maximum in corrosion protection of all metal surfaces. All metal surfaces on the entire cab shall be ground by disc to remove any surface oxidation or surface debris which may hinder the paint adhesion. Once the surface is machine ground a high-quality acid etching of base primer shall be applied. Upon the application of body fillers and their preparation, the cab shall be primed with a coating designed for corrosion resistance and surface paint adhesion. The maximum thickness of the primer coat shall be 2.00 mils. The entire cab shall then be coated with an intermediate solid or epoxy surfacing agent that is designed to fill any minor surface defects, provide an adhesive bond between the primer and the paint and improve the color and gloss retention of the color. The finish to this procedure shall be a sanding of the cab with 360 grit paper followed by sealing the seams with SEM brand

seam sealer. The cab shall then be painted the specific color designated by the customer with an acrylic urethane type system designed to retain color and resist acid rain and most atmospheric chemicals found on the fire ground or emergency scene. The paint shall have a minimum thickness of 2.00 mils, followed by a clear top coat not to exceed 2.00 mils. The entire cab shall then be baked at 180 degrees for one (1) hour to speed the curing process of the coatings.

Comply with Section 2.15: YES NO

Bidder Response Section 2.15:

2.16 Cab Paint Manufacturer

The cab shall be painted with PPG Industries paint.

Comply with Section 2.16: YES NO

Bidder Response Section 2.16:

2.17 Cab Paint Primary/Lower Color

The lower paint color shall be PPG FBCH 72626 ALT Red.

Comply with Section 2.17: YES NO

Bidder Response Section 2.17:

2.18 Cab Paint Roof Color

The cab roof paint color shall be PPG FBCH 72626 ALT Red.

Comply with Section 2.18: YES NO

Bidder Response Section 2.18:

2.19 Cab Roof Coating

The cab roof shall be coated with a flexible, non-skid textured truck bed type coating to the uppermost curve of the roofline so as to not be visible from the ground. Areas where attached components seal to shall be masked off. The color of the roof coating shall be white.

Comply with Section 2.19: YES NO

Bidder Response Section 2.19:

2.20 Cab Paint Warranty

The cab and chassis shall be covered by a limited manufacturer paint warranty which shall be in effect for ten (10) years from the first owner's date of purchase or in service or the first 100,000 actual miles, whichever occurs first.

Comply with Section 2.20: YES NO

Bidder Response Section 2.20:

2.21 Cab Paint Interior

The visible interior cab structure surfaces shall be painted with a black Rhino Liner type finish.

Comply with Section 2.21: YES NO

Bidder Response Section 2.21:

2.22 Cab Entry Doors

The cab shall include four (4) entry doors, two (2) front doors and two (2) crew doors designed for ease of entering and egress when outfitted with an SCBA. The doors shall be constructed of extruded aluminum with a nominal thickness of 0.13 inch. The exterior skins shall be constructed of 0.13-inch aluminum plate. The doors shall include a double rolled style automotive rubber seal around the perimeter of each door frame and door edge which ensures a weather tight fit. All door hinges shall be hidden within flush mounted cab doors for a pleasing smooth appearance and perfect fit along each side of the cab. Each door hinge shall be piano style with a 0.38-inch pin and shall be constructed of stainless steel.

Comply with Section 2.22: YES _____ NO _____

Bidder Response Section 2.22:

2.23 Cab Entry Door Type

All cab entry doors shall be barrier clear design resulting in exposed lower cab steps. The doors shall provide approximately 32.00 inches of clearance from the ground to the bottom of the door so cab doors may be opened un-hindered by most obstacles encountered, such as guard rails along interstate highways.

Comply with Section 2.23: YES _____ NO _____

Bidder Response Section 2.23:

2.24 Cab Insulation

The cab ceiling and walls shall include 1.00-inch-thick foam insulation. The insulation shall act as a barrier absorbing noise as well as assisting in sustaining the desired climate within the cab interior.

Comply with Section 2.24: YES _____ NO _____

Bidder Response Section 2.24:

2.25 Cab Structural Warranty

The cab structure shall be warranted for a period of ten (10) years which ever may occur first. The warranty period shall commence on the date the vehicle is placed into service by Riverside County Fire.

Comply with Section 2.25: YES _____ NO _____

Bidder Response Section 2.25:

2.26 Cab Test Information

The cab shall have successfully completed the preload side impact, static roof load application and frontal impact without encroachment to the occupant survival space when tested in accordance with Section 4 of SAE J2420 COE Frontal Strength Evaluation Dynamic Loading Heavy Trucks, Section 5 of SAE J2422 Cab Roof Strength Evaluation Quasi –Static Loading Heavy Trucks and ECE R29 Uniform Provisions Concerning the Approval of Vehicles with regard to the Protection of the Occupants of the Cab of a Commercial Vehicles Annex 3 Paragraph 5. The above tests have been witnessed by and attested to by an independent third party. The test results were recorded using cameras, high speed imagers, accelerometers and strain gauges. Documentation of the testing shall be provided upon request.

Comply with Section 2.26: YES _____ NO _____

Bidder Response Section 2.26:

2.27 Roof Mounted Antenna Array

Provide a sealed antenna array on top of the cab, constructed of welded 3"x3" square aluminum tubing and welded to the cab roof. The array shall be a "U" shape extending 60" along the outer sides of the cab roof and tied together across the rear. A minimum of four (4) exterior access openings shall be provided in each of the three sections (inboard on sides and outboard on rear) to allow for antenna mounting. The rear section shall be provided with no less than three drain tunnels to promote roof drainage and shall provide a through the roof transition into the rear bad communications cabinet. This transition shall be provided with a 100% welded 3/4" bulkhead trim to prevent accumulated moisture from dripping into the communications compartment.

Comply with Section 2.27: YES _____ NO _____

Bidder Response Section 2.27:

2.28 Electrical System

The chassis shall include a single starting electrical system which shall include a 12-volt direct current system, suppressed per SAE J551. The wiring shall be appropriate gauge cross link with 311-degree Fahrenheit insulation. All SAE wires in the chassis shall be color coded and shall include the circuit number and function where possible. The wiring shall be protected by 275-degree Fahrenheit minimum high temperature flame retardant loom.

Comply with Section 2.28: YES _____ NO _____

Bidder Response Section 2.28:

2.29 OEM Wiring

The wiring system shall include a custom J1939 interface harness drop provided by the chassis manufacturer designed to meet the requirements provided by the OEM. The wiring system shall also include a prewire for ECM park brake input and engine ground return circuits located behind the switch panel. The circuits shall include an extra 2 feet of wire and shall be labeled "ECM Park Brake Input".

Comply with Section 2.29: YES _____ NO _____

Bidder Response Section 2.29:

2.30 Trailer Electrical Connection

A seven (7) pin round electrical trailer electrical connection shall be provided with the chassis. The wiring shall include a ground wire which shall be in the white cavity; wiring for marker lights which shall be black; left turn signal wiring which shall be yellow, wiring for stop lights which shall be red; right turn signal wiring which shall be green, additional marker lights which shall be brown and ABS brake power which shall be in the blue cavity.

Comply with Section 2.30: YES _____ NO _____

Bidder Response Section 2.30:

2.31 Data Recording System

The chassis shall have a Class One Vehicle Data Recorder (VDR) system installed. The system shall be designed to meet NFPA 1901. The following information shall be recorded:

- a. Vehicle Speed
- b. Acceleration

- c. Deceleration
- d. Engine Speed
- e. Engine Throttle Position
- f. ABS Event
- g. Seat Occupied Status
- h. Seat Belt Status
- i. Master Optical Warning Device Switch Position
- j. Time
- k. Date

Each portion of the data shall be recorded at the specified intervals and stored for the specified length of time to meet NFPA 1901 guidelines and shall be retrievable by connecting a laptop computer to the VDR system. The laptop connection shall be a panel mounted female type B USB connection point, remotely mounted in the left side foot well of the cab.

Comply with Section 2.31: YES _____ NO _____

Bidder Response Section 2.31:

2.32 Accessory Power

The electrical distribution panel shall include two (2) power studs. The studs shall be size #10 and each of the power studs shall be circuit protected with a fuse of the specified amperage. One (1) power stud shall be capable of carrying up to a 40-amp battery direct load. One (1) power stud shall be capable of carrying up to a 15-amp ignition switched load. The two (2) power studs shall share one (1) #10 ground stud. A 225-amp battery direct power and ground stud shall be provided and installed on the chassis near the left-hand battery box for OEM body connections.

Comply with Section 2.32: YES _____ NO _____

Bidder Response Section 2.32:

2.33 Auxiliary Accessory Power

An auxiliary set of power and ground studs shall be provided and installed behind the electrical center cover with a 40-amp breaker. The studs shall be 0.38-inch diameter and capable of carrying up to a 40-amp battery direct load.

Comply with Section 2.33: YES _____ NO _____

Bidder Response Section 2.33:

2.34 Exterior Electrical Terminal Coating

All terminals exposed to the elements will be sprayed with a high visibility protective rubberized coating to prevent corrosion.

Comply with Section 2.34: YES _____ NO _____

Bidder Response Section 2.34:

2.35 Engine

The apparatus shall be equipped with a current model year Cummins ISX 15 or equal diesel engine governed at 2100RPM and rated for fire service. The following requirements shall be met:

- a. 15.0 Liter maximum displacement.
- b. 600 Minimum horsepower.
- c. 1850 lb/ft minimum torque at 1,200RPM.

The engine shall meet the current 50 State emission requirements.

Comply with Section 2.35: YES NO

Bidder Response Section 2.35:

2.36 Cab Engine Tunnel

The cab interior shall include an integrated engine tunnel constructed of 5052-H32 Marine Grade 0.19 of an inch-thick aluminum alloy plate. The tunnel shall be a maximum of 46.50 inches wide X 29.00 inches high.

Comply with Section 2.36: YES NO

Bidder Response Section 2.36:

2.37 Diesel Particulate Filter Control

There shall be two (2) controls for the diesel particulate filter. One (1) control shall be for regeneration and one (1) control shall be for regeneration inhibit.

Comply with Section 2.37: YES NO

Bidder Response Section 2.37:

2.38 Engine Programming High Idle Speed

The engine high idle control shall maintain the engine idle at approximately 1250 RPM when engaged.

Comply with Section 2.38: YES NO

Bidder Response Section 2.38:

2.39 Engine High Idle Control

The vehicle shall be equipped with a high-idle speed button on the Vista screen, which shall be pre-set to maintain the engine idle at a pre-determined rate when activated manually. This device shall operate when the master switch is activated and safely interlocked only to function when the transmission is in neutral with the parking brake set.

Comply with Section 2.39: YES NO

Bidder Response Section 2.39:

2.40 Engine Programming Road Speed Governor

The engine shall include programming which will govern the top speed of the vehicle per NFPA 1901's recommendation.

Comply with Section 2.40: YES NO

Bidder Response Section 2.40:

2.41 Auxiliary Engine Brake

A compression brake, for the six (6) cylinder engine shall be provided. A cutout relay shall be installed to disable the compression brake when in pump mode or when an ABS event occurs. The engine compression brake shall activate upon 0% accelerator when in operation mode and actuate the vehicle's brake lights. The engine shall utilize a variable geometry turbo (VGT) as an integrated auxiliary engine brake to offer a variable rate of exhaust flow, which when activated in conjunction with the compression brake shall enhance the engine's compression braking capabilities.

Comply with Section 2.41: YES _____ NO _____

Bidder Response Section 2.41:

2.42 Auxiliary Engine Brake Control

An engine compression brake control device shall be included. The electronic control device shall monitor various conditions and shall activate the engine brake only if all the following conditions are simultaneously detected:

- a. A valid gear ratio is detected.
- b. The driver has requested or enabled engine compression brake operation.
- c. The throttle is at a minimum engine speed position.
- d. The electronic controller is not presently attempting to execute an electronically controlled final drive gear shift.
- e. There is no active ABS event.

The compression brake shall be controlled through an off/low/high rocker switch on the dash.

Comply with Section 2.42: YES _____ NO _____

Bidder Response Section 2.42:

2.43 Electronic Engine Oil Level Indicator

The engine oil shall be monitored electronically and shall send a signal to activate a warning in the instrument panel when levels fall below normal. The warning shall activate in a low oil situation upon turning on the master battery and ignition switches without the engine running.

Comply with Section 2.43: YES _____ NO _____

Bidder Response Section 2.43:

2.44 Fluid Fills

The front of the chassis shall accommodate fluid fill for the engine oil through the grille. This area shall also accommodate a check for the engine oil. The transmission, power steering, and coolant fluid fills and checks shall be under the cab. The windshield washer fill shall be accessible through the front left side mid step.

Comply with Section 2.44: YES _____ NO _____

Bidder Response Section 2.44:

2.45 Engine Drain Plug

The engine shall include an original equipment manufacturer installed oil drain plug

Comply with Section 2.45: YES _____ NO _____

Bidder Response Section 2.45:

2.46 Engine Programming Idle Speed

The engine low idle speed will be programmed at 700 rpm.

Comply with Section 2.46: YES _____ NO _____

Bidder Response Section 2.46:

2.47 Engine Fan Drive

The engine cooling system fan shall incorporate a thermostatically controlled, Horton clutched type fan drive. When the clutched fan is disengaged, it shall facilitate improved vehicle performance, cab heating in cold climates, and fuel economy. The fan clutch design shall be fail safe so that if the clutch drive fails the fan shall engage to prevent engine overheating due to the fan clutch failure.

Comply with Section 2.47: YES _____ NO _____

Bidder Response Section 2.47:

2.48 Engine Cooling System

There shall be a heavy-duty aluminum cooling system designed to meet the demands of the emergency response industry. The cooling system shall have the capacity to keep the engine properly cooled under all conditions of road and pumping operations. The cooling system shall be designed and tested to meet or exceed the requirements specified by the engine and transmission manufacturer and all EPA requirements. The complete cooling system shall be mounted to isolate the entire system from vibration or stress. The individual cores of the cooling system shall be mounted in a manner to allow expansion and contraction at various rates without inducing stress into the adjoining cores. The cooling system shall be comprised of a charge air cooler to radiator serial flow package that provides the maximum cooling capacity for the specified engine as well as serviceability. The main components shall include a surge tank, a charge air cooler bolted to the front of the radiator, recirculation shields, a shroud, a fan, and required tubing. The radiator shall be a down-flow design constructed with aluminum cores, steel end tanks, and a steel frame. The radiator shall be equipped with a drain cock to drain the coolant for serviceability. The radiator shall have a sight glass visible when the cab is lifted. The sight shall eliminate the need to remove the radiator cap to check the coolant level. The cooling system shall include a one piece injected molded polymer eleven (11) blade fan with a three (3) piece fiberglass fan shroud. The cooling system shall be equipped with a surge tank that is capable of removing entrained air from the system. The surge tank shall be equipped with a low coolant probe and sight glass to monitor the level of the coolant. The sight glass shall be easily visible when the cab is raised. The surge tank shall have a dual seal cap that meets the engine manufacturer's pressure requirements, and allows for expansion and recovery of coolant into a separate integral expansion chamber. All radiator tubes shall be formed from aluminized steel tubing. Recirculation shields shall be installed where required to prevent heated air from reentering the cooling package and affecting performance. The charge air cooler shall be a cross-flow design constructed completely of aluminum with cast tanks. All charge air cooler tubes shall be formed from aluminized steel tubing and installed with silicone hump hoses and stainless steel "constant torque" style clamps meeting the engine manufacturer's requirements. The radiator and charge air cooler shall be removable through the bottom of the chassis.

Comply with Section 2.48: YES _____ NO _____

Bidder Response Section 2.48:

2.49 Engine Cooling System Protection

The engine cooling system shall include a recirculation shield designed to act as a light duty skid plate below the radiator to provide additional protection for the engine cooling system from light impacts, stones, and road debris. The skid plate shall be painted to match the frame color.

Comply with Section 2.49: YES _____ NO _____

Bidder Response Section 2.49:

2.50 Engine Coolant

The cooling package shall include Extended Life Coolant (ELC). The use of ELC provides longer intervals between coolant changes over standard coolants providing improved performance. The coolant shall contain a 50/50 mix of

ethylene glycol and de-ionized water to keep the coolant from freezing to a temperature of -34 degrees Fahrenheit. Proposals offering supplemental coolant additives (SCA) shall not be considered, as this is part of the extended life coolant makeup.

Comply with Section 2.50: YES _____ NO _____

Bidder Response Section 2.50:

2.51 Engine Cooling Recovery Tank

There shall be a non-pressurized engine coolant recovery tank.

Comply with Section 2.51: YES _____ NO _____

Bidder Response Section 2.51:

2.52 Engine Coolant Filter

An engine coolant filter with a shut-off valve for the inlet and outlet shall be installed on the chassis. The location of the filter shall allow for easy maintenance. Proposals offering engines equipped with coolant filters shall be supplied with standard non-chemical type particulate filters.

Comply with Section 2.52: YES _____ NO _____

Bidder Response Section 2.52:

2.53 Electronic Coolant Level Indicator

The instrument panel shall feature a low engine coolant indicator light which shall be located in the center of the instrument panel. An audible tone alarm shall also be provided to warn of a low coolant incident.

Comply with Section 2.53: YES _____ NO _____

Bidder Response Section 2.53:

2.54 Coolant Hoses

The cooling system hoses shall be standard black gates heater hose with rubber hoses in the cab interior. The radiator hoses shall be formed standard black gates coolant hoses with formed aluminized steel tubing. All heater hose, standard black gates coolant hose, and tubing shall be secured with stainless steel constant torque band clamps. (2) seasonal heater shutoff valves shall be installed. (location TBD at PreCon)

Comply with Section 2.54: YES _____ NO _____

Bidder Response Section 2.54:

2.55 Engine Air Intake

The engine air intake system shall include an ember separator air intake filter. This filter ember separator shall be designed to protect the downstream air filter from embers, using a combination of unique flat and crimped metal screens packaged in a corrosion resistant heavy duty galvanized steel frame. This multilayered screen shall be design traps embers and allows them to burn out before passing through the pack. The air cleaner shall utilize a replaceable filter element designed to prevent dust and debris from being ingested into the engine. The air cleaner housing and connections in the air intake system shall be designed to mitigate water intrusion into the system during severe weather conditions. The air intake system shall also include a restriction indicator light in the warning light cluster on the instrument panel, which shall activate when the air cleaner element requires replacement.

Comply with Section 2.55: YES _____ NO _____

Bidder Response Section 2.55:

2.56 Air Intake Protection

A light duty skid plate shall be supplied for the engine air intake. The skid plate shall provide protection for the air intake system from light impacts, stones, and road debris. The skid plate shall be painted to match the frame color.

Comply with Section 2.56: YES _____ NO _____

Bidder Response Section 2.56:

2.57 Engine Exhaust System

The exhaust system shall include an end-in end-out horizontally mounted single module after treatment device, downpipe from the charge air cooled turbo. The single module shall include four temperature sensors, diesel particulate filter (DPF), urea dosing module (UL2), and a selective catalytic reduction (SCR) catalyst to meet current EPA standards. The selective catalytic reduction catalyst utilizes a diesel exhaust fluid solution consisting of urea and purified water to convert NOx into nitrogen, water, and trace amounts of carbon dioxide. The solution shall be mixed and injected into the system through the between the DPF and SCR. The system shall utilize 0.07-inch-thick stainless steel exhaust tubing between the engine turbo and the DPF. Zero leak clamps seal all system joints between the turbo and DPF. The single module after treatment through the end of the tailpipe shall be connected with zero leak clamps. The discharge shall terminate horizontally on the right side of the vehicle ahead of the rear tires. The exhaust system after treatment module shall be mounted below the frame in the inboard position.

Comply with Section 2.57: YES _____ NO _____

Bidder Response Section 2.57:

2.58 Diesel Exhaust Fluid Tank

The exhaust system shall include a molded cross linked polyethylene tank for Diesel Exhaust Fluid (DEF). The tank shall have a capacity of ten (10) usable gallons and shall be mounted on the left-hand side of the chassis next to the diesel fuel fill. The DEF fill shall have a separate access door than the fuel fill. The DEF tank shall be designed with capacity for expansion in case of fluid freezing. Engine coolant, which shall be thermostatically controlled, shall be run through lines in the tank to help prevent the DEF from freezing and to provide a means of thawing the fluid if it should become frozen. The tank fill tube shall be routed under the rear of the cab with the fill neck and splash guard accessible in the top rear step.

Comply with Section 2.58: YES _____ NO _____

Bidder Response Section 2.58:

2.59 Engine Exhaust Accessories

An exhaust temperature mitigation device shall be shipped loose for installation by the body manufacturer on the vehicle. The temperature mitigation device shall lower the temperature of the exhaust by combining ambient air with the exhaust gasses at the exhaust outlet. The engine exhaust shall terminate at a 30-degree angle on the officer side with the ability to accommodate a Plymovent connection.

Comply with Section 2.59: YES _____ NO _____

Bidder Response Section 2.59:

2.60 Engine Exhaust Wrap

The exhaust tubing between the engine turbo and the diesel particulate filter (DPF) shall be wrapped with a thermal cover to retain the necessary heat for DPF regeneration. The exhaust wrap shall also help protect surrounding components from radiant heat which can be transferred from the exhaust.

Comply with Section 2.60: YES _____ NO _____

Bidder Response Section 2.60:

2.61 Heat Deflector Shield, Exhaust

Increased standards for emission have caused most exhaust temperatures to increase. To keep the exhaust heat from adversely affecting anything stored in the body, a deflector shield shall be provided to aid in dissipating the heat.

Comply with Section 2.61: YES _____ NO _____

Bidder Response Section 2.61:

2.62 Transmission

The drive train shall include an Allison model EVS 4000 torque converting, automatic transmission which shall include electronic controls. The transmission shall feature two (2) 10-bolt PTO pads located on the converter housing. The transmission shall include two (2) internal oil filters which shall offer Castrol TranSynd™ synthetic TES 295 transmission fluid which shall be utilized in the lubrication of the EVS transmission. An electronic oil level sensor shall be included with the readout located in the shift selector.

The transmission gear ratios shall be:

- a. 1st 3.51:1
- b. 2nd 1.91:1
- c. 3rd 1.43:1
- d. 4th 1.00:1
- e. 5th 0.74:1
- f. 6th 0.64:1 (if applicable)
- g. Rev 4.80:1

Comply with Section 2.62: YES _____ NO _____

Bidder Response Section 2.62:

2.63 Transmission Mode Programming

The transmission, upon start-up, will select a six (6) speed operation without the need to press the mode button.

Comply with Section 2.63: YES _____ NO _____

Bidder Response Section 2.63:

2.64 Transmission Feature Programming

The Allison Gen V-E transmission EVS group package number 127 shall contain the 227-vocational package in consideration of the duty of this apparatus for rescue. This package shall incorporate an automatic neutral with selector override. This feature commands the transmission to neutral when the park brake is applied, regardless of drive range requested on the shift selector. This requires re-selecting drive range to shift out of neutral for the override.

A transmission interface connector shall be provided in the cab. This package shall contain the following input/output circuits to the transmission control module. The Gen V-E transmission shall include prognostic diagnostic capabilities. These capabilities shall include the monitoring of the fluid life, filter change indication, and transmission clutch maintenance. Function ID Description Wire assignment:

- a. Inputs
- b. C PTO Request 143 F Aux. Function Range Inhibit (Special) 101/142
- c. Outputs
- d. G PTO Enable Output (See Input Function C) 130
- e. S Neutral Indicator for PTO 145
- f. Signal Return 103

Comply with Section 2.64: YES _____ NO _____

Bidder Response Section 2.64:

2.65 Electronic Transmission Oil Level Indicator

The transmission fluid shall be monitored electronically and shall send a signal to activate a warning in the instrument panel when levels fall below normal.

Comply with Section 2.65: YES _____ NO _____

Bidder Response Section 2.65:

2.66 Transmission Shift Selector

An Allison pressure sensitive range selector touch pad shall be provided and located to the right of the driver within clear view and easy reach. The shift selector shall have a graphical Vacuum Florescent Display (VFD) capable of displaying two lines of text. The shift selector shall provide mode indication and a prognostic indicator (wrench symbol) on the digital display. The prognostics monitor various operating parameters and shall alert you when a specific maintenance function is required.

Comply with Section 2.66: YES _____ NO _____

Bidder Response Section 2.66:

2.67 Transmission Pre-Select with Auxiliary Brake

When the auxiliary brake is engaged, the transmission shall automatically shift to a lower gear to decrease the rate of speed assisting the secondary braking system and slowing the vehicle.

Comply with Section 2.67: YES _____ NO _____

Bidder Response Section 2.67

2.68 Transmission Cooling System

The transmission shall include a water to oil cooler system located in the cooling loop between the radiator and the engine. The transmission cooling system shall meet all transmission manufacturer requirements. The transmission cooling system shall feature continuous flow of engine bypass water to maintain uninterrupted transmission cooling.

Comply with Section 2.68: YES _____ NO _____

Bidder Response Section 2.68:

2.69 Transmission Drain Plug

The transmission shall include an original equipment manufacturer installed magnetic transmission fluid drain plug.

Comply with Section 2.69: YES _____ NO _____

Bidder Response Section 2.69:

2.70 Power Take Off (PTO)

A ten (10) bolt standard duty PTO shall be installed on the transmission. Installation shall include mounting of the PTO and wiring the unit with a control switch if required for the PTO model.

Comply with Section 2.70: YES _____ NO _____

Bidder Response Section 2.70:

2.71 PTO Model

A ten (10) bolt Muncie model CS41-A1007-H3CX heavy duty transmission driven PTO shall be installed. The clutched shift PTO is designed specifically for the Allison world transmission and features a maximum torque rating of 545 lb. ft.

Comply with Section 2.71: YES _____ NO _____

Bidder Response Section 2.71:

2.72 PTO Location

The transmission shall have two (2) power take off (PTO) mounting locations.

Comply with Section 2.72: YES _____ NO _____

Bidder Response Section 2.72:

2.73 PTO Control

The power take off shall be controlled by the transmission. The power take off shall be activated by a locking on/off rocker switch which contains an integral light which shall illuminate upon a positive engagement of the power take off. This switch shall be located on dash. Required operating conditions for enabling this function are:

- a. Throttle position is low
- b. Engine speed is within customer specified constant limits
- c. Transmission output speed is within customer specified constant limits
- d. Park brake set

Comply with Section 2.73 YES _____ NO _____

Bidder Response Section 2.73:

2.74 Driveline

All drivelines shall be heavy duty metal tube and equipped with Spicer 1810 series universal joints. The shafts shall be dynamically balanced prior to installation to alleviate future vibration. In areas of the driveline where a slip shaft is required, the splined slip joint shall be coated with Glide Coat®.

Comply with Section 2.74 YES _____ NO _____

Bidder Response Section 2.74:

2.75 Driveline Retarder

A Telma electromagnetic driveline retarder shall be focal mounted on the rear axle to act as an auxiliary braking system.

Comply with Section 2.75 YES ___ NO ___

Bidder Response Section 2.75:

2.76 Driveline Retarder Control

There shall be four (4) stages of activation for the driveline retarder. The first stage shall be 25% activation, the second stage shall be 50% activation, the third stage shall be 75% activation and the fourth stage shall be 100% activation. The stages of retardation shall work off pressure applied to the service brake. The driveline retarder shall be controlled by an On/Off switch located on the dash. There shall be an auxiliary drive line retarder lever controller mounted on the dash mounted next to the ON/OFF switch. The auxiliary lever shall activate the drive line retarder in lieu of applied service brake. There shall be an indicator light mounted on the instrument panel. The indicator light shall indicate the four (4) stages of activation. The driveline retarder shall disengage in pump mode or during an ABS event. A positive activation of the driveline retarder shall activate the brake lights.

Comply with Section 2.76 YES ___ NO ___

Bidder Response Section 2.76:

2.77 Fuel Filter/Water Separator

The fuel system shall have a Racor S3238 fuel filter/water separator as a primary filter. The fuel filter shall have a drain valve and a see-through cover to allow visual inspection of fuel and filter condition. The Racor S3238 shall be a 10-micron filter capable of handling a maximum flow rate of 150 gallons per hour. A secondary fuel filter shall be included as approved by the engine manufacturer. An instrument panel lamp and audible alarm which indicates when water is present in the fuel-water separator shall also be included.

Comply with Section 2.77 YES ___ NO ___

Bidder Response Section 2.77:

2.78 Fuel Lines

The fuel system supply and return lines installed from the fuel tank to the engine shall be black textile braided lines which are reinforced with braided high tensile steel wire. The fuel lines shall be connected with reusable steel fittings.

Comply with Section 2.78 YES ___ NO ___

Bidder Response Section 2.78:

2.79 Electric Fuel Primer

Integral to the engine assembly is an electric lift pump that serves the purpose of pre-filter fuel priming.

Comply with Section 2.79 YES ___ NO ___

Bidder Response Section 2.79:

2.80 Fuel Cooler

An aluminum cross flow air to fuel cooler shall be provided to lower fuel temperature allowing the vehicle to operate at higher ambient temperatures. The fuel shall not exceed a temperature of 140 degrees with the engine running at an ambient air temperature of 115 degrees.

Comply with Section 2.80 YES _____ NO _____

Bidder Response Section 2.80:

2.81 Fuel Tank

The fuel tank shall have a capacity of seventy (70) gallons.

Comply with Section 2.81 YES _____ NO _____

Bidder Response Section 2.81:

2.82 Fuel Tank Material and Finish

The fuel tank shall be constructed of 12-gauge aluminized steel. The exterior of the tank shall be powder coated black and then painted to match the frame color. All powder coatings, primers and paint shall be compatible with all metals, pretreatments and primers used.

Comply with Section 2.82 YES _____ NO _____

Bidder Response Section 2.82:

2.83 Fuel Tank Strap Material

The fuel tank straps shall be constructed of ASTM A-36 steel.

Comply with Section 2.83 YES _____ NO _____

Bidder Response Section 2.83:

2.84 Fuel Tank Fill Port

The fuel tank fill ports shall be in-line with the left and right side.

Comply with Section 2.84 YES _____ NO _____

Bidder Response Section 2.84:

2.85 Fuel Tank Serviceability Provisions

The chassis fuel lines shall have additional length provided so the tank can be easily lowered and removed for service purposes. The additional 8.00 feet of length shall be located above the fuel tank and shall be coiled and secured. The fuel line fittings shall be pointed towards the right side (curbside) of the chassis. Fuel level sending units shall be readily accessible for easy removal without removing the fuel tank or cutting holes in the body. An easily removable access panel is acceptable.

Comply with Section 2.85 YES _____ NO _____

Bidder Response Section 2.85:

2.86 Fuel Tank Drain Plug

A 0.5 inch NPT drain plug shall be centered in the bottom of the fuel tank.

Comply with Section 2.86 YES _____ NO _____

Bidder Response Section 2.86:

2.87 Front Wheel Bearing Lubrication

The front axle wheel bearings shall be lubricated with oil. The oil level can be visually checked via clear inspection windows in the front axle hubs.

Comply with Section 2.87 YES _____ NO _____

Bidder Response Section 2.87:

2.88 Front Shock Absorbers

Two (2) Bilstein inert, nitrogen gas filled shock absorbers shall be provided and installed as part of the front suspension system. The shocks shall be a mono tubular design and fabricated using a special extrusion method, utilizing a single blank of steel without a welded seam, achieving an extremely tight peak-to-valley tolerance and maintains consistent wall thickness. The mono tubular design shall provide superior strength while maximizing heat dissipation and shock life. The ride afforded through the use of a gas shock is more consistent and shall not deteriorate with heat, the same way a conventional oil filled hydraulic shock would. The Bilstein front shocks shall include a digressive working piston assembly allowing independent tuning of the compression and rebound damping forces to provide optimum ride and comfort without compromise. The working piston design shall feature fewer parts than most conventional twin tube and “road sensing” shock designs and shall contribute to the durability and long life of the Bilstein shock absorbers. Proposals offering the use of conventional twin tube or “road sensing” designed shocks shall not be considered.

Comply with Section 2.88 YES _____ NO _____

Bidder Response Section 2.88:

2.89 Front Suspension

The front suspension shall include a nine (9) leaf spring pack in which the longest leaf measures 54.00-inch-long and 4.00 inches wide and shall include a military double wrapped front and rear eye. Both spring eyes shall have a case hardened threaded bushing installed with lubrication counter bore and lubrication land off cross bore with grease fitting. The spring capacity shall be rated at 21,500 pounds.

Comply with Section 2.89 YES _____ NO _____

Bidder Response Section 2.89:

2.90 Front End Torque

The front suspension shall include a nine (9) leaf spring pack in which the longest leaf measures 54.00-inch-long and 4.00 inches wide and shall include a military double wrapped front and rear eye. Both spring eyes shall have a case hardened threaded bushing installed with lubrication counter bore and lubrication land off cross bore with grease fitting. The spring capacity shall be rated at 21,500 pounds.

Comply with Section 2.90 YES _____ NO _____

Bidder Response Section 2.90:

2.91 Steering Column/Wheel

The cab shall include a Douglas Autotech steering column which shall include a seven (7) position tilt, a 2.25-inch telescopic adjustment, and an 18.00 inch, four (4) spoke steering wheel located at the driver’s position. The steering wheel shall be covered with black polyurethane foam padding. The steering column shall contain a horn button, self-canceling turn signal switch, four-way hazard switch and headlamp dimmer switch.

Comply with Section 2.91 YES _____ NO _____

Bidder Response Section 2.91:

2.92 Electronic Power Steering Fluid Level Indicator

The power steering fluid shall be monitored electronically and shall send a signal to activate an audible alarm and visual warning in the instrument panel when fluid level falls below normal.

Comply with Section 2.92 YES _____ NO _____

Bidder Response Section 2.92:

2.93 Power Steering Pump

The hydraulic power steering pump shall be a Vickers V20F and shall be gear driven from the engine. The pump shall be a fixed displacement vane type. The power steering system shall include an oil to air passive cooler.

Comply with Section 2.93 YES _____ NO _____

Bidder Response Section 2.93:

2.94 Tiller Steering Provisions

The chassis shall include an additional power steering pump and reservoir which is necessary with a vehicle designed for a tiller application. The pump shall be a three (3) line type with a seven (7) GPM flow control and a 2000 PSI pressure relief valve. The power steering pump shall be a type which is designed to be driven by a PTO. The body manufacturer shall be responsible for the design, installation, plumbing, and validation of the tiller cab steering system.

Comply with Section 2.94 YES _____ NO _____

Bidder Response Section 2.94:

2.95 Front Axle Cramp Angle

The chassis shall have a front axle cramp angle of 48-degrees to the left and 44-degrees to the right.

Comply with Section 2.95 YES _____ NO _____

Bidder Response Section 2.95:

2.96 Power Steering Gear

The power steering gear shall be a TRW model TAS 85 with an assist cylinder.

Comply with Section 2.96 YES _____ NO _____

Bidder Response Section 2.96:

2.97 Chassis Alignment

The chassis frame rails shall be measured to insure the length is correct and cross checked to make sure they run parallel and are square to each other. The front and rear axles shall be laser aligned. The front tires and wheels shall be aligned and toe-in set on the front tires by the chassis manufacturer.

Comply with Section 2.97 YES _____ NO _____

Bidder Response Section 2.97:

2.98 Rear Axle Differential Lubrication

The rear axle differential shall be lubricated with oil.

Comply with Section 2.98 YES ___ NO ___

Bidder Response Section 2.98:

2.99 Rear Wheel Bearing Lubrication

The rear axle wheel bearings shall be lubricated with oil.

Comply with Section 2.99 YES ___ NO ___

Bidder Response Section 2.99:

2.100 Vehicle Top Speed

The top speed of the vehicle shall meet NFPA 1901 requirements at governed engine RPM.

Comply with Section 2.100 YES ___ NO ___

Bidder Response Section 2.100:

2.101 Rear Suspension

The single rear axle shall feature a heavy-duty air suspension with a single optimized air spring mounted to a fabricated load beam trailing arm on each side with a single fixed transverse torque rod. Axle alignment is maintained using eccentric bolts at each frame bracket. Dual air height control valves shall be installed to ensure equal frame height on both sides of the vehicle regardless of the load. The rear suspension capacity shall be rated equivalent to the axle rating.

Comply with Section 2.101 YES ___ NO ___

Bidder Response Section 2.101:

2.102 Rear Shock Absorbers

Shock absorbers shall be supplied by the suspension manufacturer and installed on the rear axle suspension.

Comply with Section 2.102 YES ___ NO ___

Bidder Response Section 2.102:

2.103 Front Tire / Trailer Steer Tire

The front and rear trailer steer tires shall be Continental 425 / 65R22.5 L HTR2.

Comply with Section 2.103 YES ___ NO ___

Bidder Response Section 2.103:

2.104 Rear Drive Tire

The rear drive tires shall be Continental 315 / 80R225 L HSC1.

Comply with Section 2.104 YES ___ NO ___

Bidder Response Section 2.104:

2.105 Rear Axle Ratio

The rear axle ratio shall be 6.14:1.

Comply with Section 2.105 YES _____ NO _____

Bidder Response Section 2.105:

2.106 Tire Pressure Equalization System

There shall be a Crossfire dual tire equalization system provided on both sets of dual tires on the rear axle. The Crossfire pressure system shall equalize and monitor tire pressure through the valve which is mounted between the dual tires. This shall bolt easily to the drive axle end allowing air to flow freely from one tire to the other, maintaining equal tire pressure and load distribution. The Crossfire system shall maximize tire life, decrease rolling resistance for increased fuel mileage and improve stability braking and overall safety. The Crossfire dual tire equalization system shall be redeemed upon the vehicle manufacture's receipt of the voucher along with the vehicle in-service weight for each axle.

Comply with Section 2.106 YES _____ NO _____

Bidder Response Section 2.106:

2.107 Tire Pressure Indicator

There shall be a voucher provided with the chassis for a pop up style tire pressure indicator at the front tire valve stem. The indicator shall provide visual indication of pressure in the specific tire. The tire pressure indicators shall be redeemed upon the vehicle manufacturer's receipt of the voucher for installation by the customer.

Comply with Section 2.107 YES _____ NO _____

Bidder Response Section 2.107:

2.108 Front Wheel

The front wheels shall be Alcoa hub piloted, 22.50 inch X 12.25 inch LvL One™ polished aluminum wheels. The hub piloted mounting system shall provide easy installation and shall include two-piece flange nuts. The wheels shall feature one-piece forged strength and shall include Alcoa's Dura-Bright® finish with XBR technology as an integral part of the wheel surface. Alcoa Dura-Bright® wheels keep their shine without polishing. Brake dust, grime and road debris are easily removed by simply cleaning the wheels with soap and water.

Comply with Section 2.108 YES _____ NO _____

Bidder Response Section 2.108:

2.109 Rear Wheel

The rear wheels shall be Alcoa hub piloted, heavy duty, 22.50 inch X 9.00 inch LvL One™ polished aluminum wheels with Alcoa Dura-Bright® wheel treatment with XBR® technology as an integral part of the wheel. The hub piloted mounting system shall provide easy installation and shall include two-piece flange nuts.

Comply with Section 2.109 YES _____ NO _____

Bidder Response Section 2.109:

2.110 Balance Wheels and Tires

All the wheels and tires, including any spare wheels and tire assemblies, shall be dynamically balanced.

Comply with Section 2.110 YES _____ NO _____

Bidder Response Section 2.110:**2.111 Wheel Trim**

The front wheels shall include stainless steel lug nut covers and stainless steel baby moons shipped loose with the chassis for installation by the apparatus builder. The baby moons shall have cutouts for oil seal viewing when applicable. The rear wheels shall include stainless steel lug nut covers and band mounted spring clip stainless steel high hats shipped loose with the chassis for installation by the apparatus builder. The lug nut covers, baby moons, and high hats shall be RealWheels® brand constructed of 304L grade, non-corrosive stainless steel with a mirror finish. Each wheel trim component shall meet D.O.T. certification.

Comply with Section 2.111 YES _____ NO _____

Bidder Response Section 2.111:**2.112 Wheel Guards**

The rear dual wheels shall include a plastic isolator approximately 0.04" installed between the inner and outer wheel hub to help prevent corrosion caused by metal to metal contact. There shall also be a plastic isolator between the axle hub and the wheels on both front and rear axles.

Comply with Section 2.112 YES _____ NO _____

Bidder Response Section 2.112:**2.113 Rear Wheel Wells Tractor**

The tiller tractor rear wheel well area shall be constructed of diamond tread plate overlays, forming a fender with a seamless appearance over the wheels. The fenders shall be fitted with bolt-in removable full circular inner liners in the wheel well area for ease of cleaning and maintenance. There shall be sufficient clearance provided in the wheel well to allow the use of tire chains when the apparatus is fully loaded.

2.113.1 Rear Fenderettes

Two (2) stainless steel fenderettes shall be installed at the outboard edge of the rear wheel well area, one on each side. The fenderettes shall be bolted to the apparatus body using nylon washers to space them slightly away from the body to reduce build-up of road grime. The fenderettes shall be constructed of stainless steel that has been polished to a high-quality finish.

Comply with Section 2.113 YES _____ NO _____

Bidder Response Section 2.113:**2.114 Brake System**

A rapid build-up air brake system shall be provided. All air reservoirs provided on the chassis shall be labeled for identification. The rear axle spring brakes shall automatically apply in any situation when the air pressure falls below 25 PSI and shall include a mechanical means for releasing the spring brakes when necessary. An audible alarm shall designate when the system air pressure is below 60 PSI. A dash mounted ABS lamp shall be provided to notify the driver of a system malfunction. The speedometer screen shall be capable of reporting all active defaults using PID/SID and FMI standards.

Comply with Section 2.114 YES _____ NO _____

Bidder Response Section 2.114:

2.115 Front Brakes

The front brakes shall be Meritor EX225 Disc Plus disc brakes with 17.00 inch vented rotors.

Comply with Section 2.115 YES _____ NO _____

Bidder Response Section 2.115:

2.116 Rear Brakes

The rear brakes shall be Meritor 16.50 inch X 8.63-inch S-cam drum type. The brakes shall feature a cast iron shoe.

Comply with Section 2.116 YES _____ NO _____

Bidder Response Section 2.116:

2.117 Park Brake

Upon application of the push-pull valve in the cab, the rear brakes will engage via mechanical spring force. In addition to the mechanical rear brake engagement, the front service brakes will also engage via air pressure, providing additional braking capability. The air pressure to the front service brakes will be limited to 40 psi.

Comply with Section 2.117 YES _____ NO _____

Bidder Response Section 2.117:

2.118 Park Brake Control

A Meritor-Wabco manual hand control push-pull style valve shall operate the parking brake. The parking brake actuation valve shall be mounted to the center of the engine tunnel with easy access for both the driver and officer positions. The park brake shall be protected as to prevent accidental release of the braking system.

Comply with Section 2.118 YES _____ NO _____

Bidder Response Section 2.118:

2.119 Rear Brake Slack Adjuster

HalDEX rear brake automatic slack adjusters shall be installed on the axle.

Comply with Section 2.119 YES _____ NO _____

Bidder Response Section 2.119:

2.120 Air Dryer

The brake system shall include a Wabco System Saver 1200 air dryer with an integral heater with a Metri-Pack sealed connector.

Comply with Section 2.120 YES _____ NO _____

Bidder Response Section 2.120:

2.121 Brake Chambers

The air brake chambers shall be as provided from the brake system manufacturer to meet stopping and holding requirements. Spring actuated chambers shall apply drive and tiller axle brakes for parking.

Comply with Section 2.121 YES _____ NO _____

Bidder Response Section 2.121:

2.122 Air Compressor

The air compressor provided for the engine shall be a Wabco® SS318 single cylinder pass-through drive type compressor which shall be capable of producing 18.7 CFM at 1200 engine RPMs.

Comply with Section 2.122 YES _____ NO _____

Bidder Response Section 2.122:

2.123 Air Governor

An air governor shall be provided to control the cut-in and cut-out pressures of the engine mounted air compressor. The governor shall be calibrated to meet FMVSS requirements. The air governor shall be located on the air dryer bracket on the left frame rail behind the battery box.

Comply with Section 2.123 YES _____ NO _____

Bidder Response Section 2.123:

2.124 Moisture Ejectors

Manual pet-cock type drain valves shall be installed on all reservoirs of the air supply system.

Comply with Section 2.124 YES _____ NO _____

Bidder Response Section 2.124:

2.125 Air Supply Lines

Manual pet-cock type drain valves shall be installed on all reservoirs of the air supply system.

Comply with Section 2.125 YES _____ NO _____

Bidder Response Section 2.125:

2.126 Air Inlet Connection

An air connection for the shoreline air inlet shall be supplied.

2.126.1 Air Inlet Location

The air inlet shall be installed in the left-hand side lower front step in the forward position.

2.126.2 Air Inlet/Outlet Fitting Type

The air connector supplied shall be a 0.25-inch size Tru-Flate Interchange style manual connection which is compatible with Milton 'T' style, Myers 0.25-inch Automotive style and Parker 0.25 inch 10 Series connectors.

Comply with Section 2.126 YES _____ NO _____

Bidder Response Section 2.126:

2.127 Trailer Air Brake Connection Package

The trailer air brake connection shall be accomplished via tractor connection points provided at the rear of the chassis.

Comply with Section 2.127 YES _____ NO _____

Bidder Response Section 2.127:**2.128 Wheelbase**

The chassis wheelbase shall measure 143.00 inches.

Comply with Section 2.128 YES _____ NO _____

Bidder Response Section 2.128:**2.129 Rear Overhang**

The chassis rear overhang shall be 54.00 inches.

Comply with Section 2.129 YES _____ NO _____

Bidder Response Section 2.129:**2.130 Frame**

The frame shall consist of triple side rails and cross members forming a ladder style frame. The side rails shall be formed in the shape of a "C" channel. The frame and cross members shall carry a lifetime warranty to the original purchaser. A copy of the frame warranty shall be made available upon request. Proposals offering warranties for frames not including cross members shall not be considered.

Comply with Section 2.130 YES _____ NO _____

Bidder Response Section 2.130:**2.131 Frame Warranty**

The frame and cross members shall carry a limited lifetime warranty to the original purchaser. The warranty period shall commence on the date the vehicle is placed in service by the user.

Comply with Section 2.131 YES _____ NO _____

Bidder Response Section 2.131:**2.132 Rear Tow Device**

Two (2) heavy duty painted tow eyes shall be installed extending rearward from the frame at the rear of the chassis. The tow eyes shall be fabricated from 0.75-inch-thick #1020 ASTM-36 hot rolled steel. The inside diameter of the tow eye shall be 2.00 inches and shall have a chamfered edge. The tow eyes shall be bolted one (1) on each side to the outside of the chassis frame with grade 8 bolts. The tow eyes shall be painted to match the chassis frame.

Comply with Section 2.132 YES _____ NO _____

Bidder Response Section 2.132:**2.133 Frame Paint**

The frame shall be powder coated black prior to any attachment of components. All powder coatings, primers and paint shall be compatible with all metals, pretreatments and primers used. The chassis under carriage consisting of frame, axles, driveline running gear, air tanks and other chassis mounted components shall be painted the primary/lower cab color. Paint shall be applied prior to airline and electrical wiring installation.

Comply with Section 2.133 YES _____ NO _____

Bidder Response Section 2.133:**2.134 Front Bumper**

A one piece, two (2) rib wrap-around style, polished stainless steel front bumper shall be provided. The material shall be 10 gauge 304 stainless steel, 12" high and 104.50 inches wide.

2.134.1 Front Bumper Extension Length

The front bumper shall be extended approximately 6.00 inches ahead of the cab.

2.134.2 Front Bumper Apron

The 6.00 inch extended front bumper shall include an apron constructed of 0.19-inch-thick embossed aluminum tread plate. The apron shall be installed between the bumper and the front face of the cab affixed using stainless steel bolts attaching the apron to the top bumper flange.

2.134.3 Front Bumper Tow Eyes

The bumper shall include two (2) chrome plated tow eyes shall be installed through the front bumper. The eyes shall be fabricated from 0.75-inch-thick #1020 ASTM-A36 hot rolled steel. The inside diameter of the eye shall be 2.00 inches and include a chamfered edge.

Comply with Section 2.134 YES _____ NO _____

Bidder Response Section 2.134:**2.135 Air Horn**

The chassis shall include two (2) Grover brand Stutter Tone air horns. One shall measure 24" long and one shall measure 15" long with a 6.00-inch round flare. The air horns shall be trumpet style with a chrome finish.

2.135.1 Air Horn Location

The air horns shall be recess mounted in the front bumper face on the left side of the bumper in the inboard and outboard positions relative to the left-hand frame rail.

2.135.2 Air Horn Reservoir

One (1) air reservoir, with a 1200 cubic inch capacity, shall be installed on the chassis to act as a supply tank for operating air horns. The reservoir shall be isolated with a 90 PSI pressure protection valve on the reservoir supply side to prevent depletion of the air to the air brake system.

Comply with Section 2.135 YES _____ NO _____

Bidder Response Section 2.135:**2.136 Cab Height Adjustment**

The cab shall include 0.75-inch-thick shims raising the cab to provide additional clearance under the cab.

Comply with Section 2.136 YES _____ NO _____

Bidder Response Section 2.136:**2.137 Cab Tilt System**

The entire cab shall be capable of tilting approximately 45-degrees to allow for easy maintenance of the engine and transmission. The cab tilt pump assembly shall be located on the right side of the chassis above the battery box. The electric-over-hydraulic lift system shall include an ignition interlock and red cab lock down indicator lamp on the tilt control which shall illuminate when holding the "Down" button to indicate safe road operation. It shall be necessary to activate the master battery switch and set the parking brake to tilt the cab. As a third precaution the ignition switch must be turned off to complete the cab tilt interlock safety circuit. Two (2) spring-loaded hydraulic hold down hooks located outboard of the frame shall be installed to hold the cab securely to the frame. Once the

hold-down hooks are set in place, it shall take the application of pressure from the hydraulic cab tilt lift pump to release the hooks. Two (2) cab tilt cylinders shall be provided with velocity fuses in each cylinder port. The cab tilt pivots shall be 1.90-inch ball and be anchored to frame brackets with 1.25-inch diameter studs. A steel safety channel assembly, painted safety yellow shall be installed on the right-side cab lift cylinder to prevent accidental cab lowering. The safety channel assembly shall fall over the lift cylinder when the cab is in the fully tilted position. A cable release system shall also be provided to retract the safety channel assembly from the lift cylinder to allow the lowering of the cab.

Comply with Section 2.137 YES _____ NO _____

Bidder Response Section 2.137:

2.138 Cab Tilt Auxiliary Pump

A manual cab tilt pump module shall be attached to the cab tilt pump housing.

Comply with Section 2.138 YES _____ NO _____

Bidder Response Section 2.138:

2.139 Cab Tilt Control Receptacle

The cab tilt control cable shall include a receptacle which shall be temporarily located on the right-hand chassis rail rear of the cab to provide a place to plug in the cab tilt remote control pendant. The tilt pump shall include 8.00 feet of cable with a six (6) pin Deutsch receptacle with a cap. The remote-control pendant shall include 20.00 feet of cable with a mating Deutsch connector. The remote-control pendant shall be shipped loose with the chassis.

Comply with Section 2.139 YES _____ NO _____

Bidder Response Section 2.139:

2.140 Cab Windshield

The cab windshield shall have a surface area of approximately 2969.88 square inches and be of a two (2) piece wraparound design for maximum visibility. The glass utilized for the windshield shall include standard automotive tint. The left and right windshield shall be fully interchangeable thereby minimizing stocking and replacement costs. Each windshield shall be installed using black self-locking window rubber.

Comply with Section 2.140 YES _____ NO _____

Bidder Response Section 2.140:

2.141 Glass Front Door

The front cab doors shall include a window which is approximately 27.00 inches in width X 26.00 inches in height. These windows shall have the capability to roll down completely into the door housing. This shall be accomplished electronically utilizing a push button on the inside of the door. The driver side door shall have electronic controls for all electronically controlled windows in the cab. A reinforced window regulator assembly shall be provided for severe duty use. There shall be an irregular shaped fixed window which shall measure approximately 2.50 inches wide at the top, 8.00 inches wide at the bottom X 26.00 inches in height, more commonly known as "cozy glass" ahead of the front door roll down windows. The windows shall be mounted within the frame of the front doors trimmed with a black anodized ring on the exterior.

2.141.1 Glass Tint Front Door

The windows located in the left and right front doors shall have a standard green automotive tint which shall allow seventy-five percent (75%) light transmittance.

Comply with Section 2.141 YES _____ NO _____

Bidder Response Section 2.141:

2.142 Glass Rear Door Right Hand

The rear right hand side door shall include a window which is approximately 27.00 inches in width X 26.00 inches in height. This window shall roll up and down electronically utilizing a push button on the inside of the door. A reinforced window regulator assembly shall be provided for severe duty use.

2.142.1 Glass Tint Rear Door Right Hand

The window located in the right-hand side rear window shall include a dark gray automotive tint which shall allow forty-five percent (45%) light transmittance. The dark tint shall aid in cab cooling and help protect passengers from radiant solar energy.

Comply with Section 2.142 YES _____ NO _____

Bidder Response Section 2.142:

2.143 Glass Rear Door Left Hand

The rear left hand side door shall include a window which is approximately 27.00 inches in width X 26.00 inches in height. This window shall roll up and down electronically utilizing a push button on the inside of the door. A reinforced window regulator assembly shall be provided for severe duty use.

2.143.1 Glass Tint Rear Door Left Hand

The window located in the left-hand side rear door shall include a dark gray automotive tint which shall allow forty-five percent (45%) light transmittance. The dark tint shall aid in cab cooling and help protect passengers from radiant solar energy.

Comply with Section 2.143 YES _____ NO _____

Bidder Response Section 2.143:

2.144 Glass Side Mid Right Hand

The cab shall include a window on the right side behind the front and ahead of the crew doors which shall measure approximately 16.00 inches wide X 26.00 inches high. This window shall be capable of sliding vertically within this space and shall be rectangular. The window shall be mounted in a black anodized aluminum frame with lower drain slots. The glass utilized for the window shall include a green automotive tint unless otherwise noted.

2.144.1 Glass Tint Side Mid Right Hand

The window located on the right-hand side of the cab between the front and rear doors shall include a dark gray automotive tint which shall allow forty-five percent (45%) light transmittance. The dark tint shall aid in cab cooling and help protect passengers from radiant solar energy.

Comply with Section 2.144 YES _____ NO _____

Bidder Response Section 2.144:

2.145 Glass Side Mid Left Hand

The cab shall include a window on the left side behind the front door and ahead of the crew doors and above the wheel well which shall measure approximately 16.00 inches wide X 26.00 inches high. This window shall be capable of sliding vertically within this space and shall be rectangular. The window shall be mounted in a black anodized aluminum frame with lower drain slots. The glass utilized for this window shall include a green automotive tint unless otherwise noted.

2.145.1 Glass Tint Side Mid Left Hand

The window located on the left-hand side of the cab between the front and rear doors shall include a dark gray automotive tint which shall allow forty-five percent (45%) light transmittance. The dark tint shall aid in cab cooling and help protect passengers from radiant solar energy.

Comply with Section 2.145 YES _____ NO _____

Bidder Response Section 2.145:

2.146 Climate Control

A ceiling mounted combination defroster and cabin heating and air conditioning system shall be located above the engine tunnel area. The system covers and plenums shall be of severe duty design made of aluminum which shall be coated with a customer specified interior paint. The design of the system's covers shall provide quick access to washable air intake filters as well as easy access to other serviceable items. The air delivery plenums provide targeted airflow directly to the vehicle occupants. It shall be capable of reducing the interior cabin air temperature from 122° F (+/- 3° F) to 80° F in thirty minutes with 50% relative humidity and full solar load as described in SAE J2646. The system shall also provide heater pull up performance which meets or exceeds the performance requirements of SAE J1612 as well as defrost performance that meets or exceeds the performance requirements of SAE J381. A gravity drain system shall be provided that is capable of evacuating condensate from the vehicle while on a slope of up to a 13% grade in any direction. Any component which needs to be accessed to perform system troubleshooting shall be accessible by one person using basic hand tools. Regularly serviced items shall be replaceable by one person using basic hand tools.

2.146.1 Climate Control Activation

The heating, defrosting and air conditioning controls shall be located in the cab.

2.146.2 HVAC Overhead Cover Paint

The overhead HVAC cover shall be painted with a black texture finish.

2.146.3 A/C Condenser Location

A roof mounted A/C condenser shall be installed on the left side of the cab, mid-roof.

2.146.4 A/C Compressor

The air-conditioning compressor shall be a belt driven, engine mounted compressor. The compressor shall be compatible with R134-a refrigerant.

2.146.5 Auxiliary A/C Cab Ceiling/Roof

A 110 volt Coleman Mach 8 Roughneck low profile high capacity air conditioning system shall be provided to cool the crew area of the cab. The system shall consist of one (1) 110-volt air conditioning roof mounted unit which shall be located above the crew area and offset left of center on the cab roof above the crew area. The cover of the air conditioning unit shall be painted the upper cab color. The system shall be pre-wired with enough cable for the body builder to connect to a 110-volt power source. The air conditioning system shall be wired to a transfer switch allowing for power supplied via shorepower and/or generator. The condensation drain line shall be installed as to not have water run down the front or sides of the cab.

Comply with Section 2.146 YES _____ NO _____

Bidder Response Section 2.146:

2.147 Under Cab Insulation

The underside of the cab tunnel surrounding the engine shall be lined with multi-layer insulation, engineered for application inside diesel engine compartments. In addition, the insulation shall have a removable aluminum overlay installed to protect the insulation and assist in retaining the insulation tight against the engine tunnel surfaces. The insulation shall act as a noise barrier, absorbing noise thus keeping the decibel level in the cab well within NFPA recommendations.

Comply with Section 2.147 YES _____ NO _____

Bidder Response Section 2.147:

2.148 Interior Trim

The cab interior shall include trim on the front ceiling, rear crew ceiling, and the cab walls. It shall be easily removable to assist in maintenance. The trim shall be constructed of insulated vinyl over a hard board backing.

2.148.1 Interior Trim Floor

The floor of the cab shall be covered with a multi-layer mat consisting of 0.25-inch-thick sound absorbing closed cell foam with a 0.06-inch-thick non-slip vinyl surface with a pebble grain finish. The covering shall be held in place by a pressure sensitive adhesive and aluminum trim molding. All exposed seams shall be sealed with silicone caulk matching the color of the floor mat to reduce the chance of moisture and debris retention. The floor shall have an overlay of 3003-H22 aluminum embossed tread plate. The tread plate shall be held down with screws and aluminum trim molding.

2.148.2 Interior Trim Rear Wall

The rear wall of the cab shall be trimmed with vinyl.

2.148.3 Header Trim

The cab interior shall feature header trim over the driver and officer dash constructed of 5052-H32 Marine Grade, 0.13-inch-thick aluminum.

2.148.4 Center Dash Trim

The main center dash area shall be constructed of 5052-H32 Marine Grade, 0.13-inch-thick aluminum plate. There shall be four (4) holes located on the top of the dash near each outer edge of the electrical access cover for ventilation.

2.148.5 Trim Left Hand Dash

The left-hand dash shall be constructed of 5052-H32 Marine Grade, 0.13-inch-thick aluminum plate for a perfect fit around the instrument panel. For increased occupant protection, the extreme duty left hand dash utilizes patent pending break away technology to reduce rigidity in the event of a frontal crash. The left-hand dash shall offer lower vertical surface area to the left and right of the steering column to accommodate control panels.

2.148.6 Trim Right Hand Dash

The left-hand dash shall be constructed of 5052-H32 Marine Grade, 0.13-inch-thick aluminum plate for a perfect fit around the instrument panel. For increased occupant protection, the extreme duty left hand dash utilizes patent pending break away technology to reduce rigidity in the event of a frontal crash. The left-hand dash shall offer lower vertical surface area to the left and right of the steering column to accommodate control panels.

Comply with Section 2.148 YES _____ NO _____

Bidder Response Section 2.148:

2.149 Engine Tunnel Trim

The cab engine tunnel shall be covered with a multi-layer mat consisting of 0.25-inch closed cell foam with a 0.06-inch-thick non-slip vinyl surface with a pebble grain finish. The mat shall be held in place by pressure sensitive adhesive. The engine tunnel mat shall be trimmed with anodized aluminum stair nosing trim for an aesthetically pleasing appearance. The multi-layer mat on the lower side area of the engine tunnel at the driver and officer positions shall be provided with a brushed stainless steel kick plate. The top of each kick plate shall be even with the top of the seat risers. In addition, the multi-layer mat on the rear sloped face of the tunnel shall be covered with a brushed stainless steel overlay.

Comply with Section 2.149 YES _____ NO _____

Bidder Response Section 2.149:

2.150 Power Point Dash Mount

The cab shall include two (2) 12-volt cigarette lighter type receptacles and two (2) USB charging receptacles in the dash to provide a power source for 12-volt electrical equipment. The receptacles shall be wired battery direct.

Comply with Section 2.150 YES _____ NO _____

Bidder Response Section 2.150:

2.151 Auxiliary Power Point Engine Tunnel

The cab interior shall include two (2) 12-volt cigarette lighter type receptacles and two (2) USB charging receptacles to provide power sources for 12-volt electrical equipment. The receptacles shall be connected directly to the batteries. The receptacles shall be located on the rear of the engine tunnel near the top, one (1) near the left corner and one (1) near the right corner.

Comply with Section 2.151 YES _____ NO _____

Bidder Response Section 2.151:

2.152 Step Trim

Each cab entry door shall include a three-step entry. The first step closest to the ground shall be constructed of 14 gauge 304 stainless steel with indented perforations. The perforations shall allow water and other debris to flow through rather than becoming trapped within the stepping surface. The stainless-steel material shall have a number 7 mirror finish. The lower step shall be mounted to a frame which is integral with the construction of the cab for rigidity and strength. The middle step shall be integral with the cab construction and shall be trimmed in 0.08-inch-thick 3003-H22 embossed aluminum tread plate.

Comply with Section 2.152 YES _____ NO _____

Bidder Response Section 2.152:

2.153 Step Well Compartment

Provide a watertight removable storage compartment in the officer step well. The compartment shall be as large as possible, minimum dimensions 25" wide x 12" deep x 14" high. The dropdown door shall have a positive action, stainless steel recessed large D handle twist type single point cam latch, easily operable with a gloved hand. The horizontally hinged door shall be provided with a full length, heavy duty, stainless steel, piano type hinge and stainless steel pin. The hinge shall have a positive action. Pin shall be secured to prevent creeping.

Comply with Section 2.153 YES _____ NO _____

Bidder Response Section 2.153:

2.154 Kick Panel Compartment

Provide a bottom hinged storage box in the officer kick panel, below the dash panel. The box shall be as large as possible and have large, stainless steel locking D ring handle or paddle latch with single point lock. The lock shall be 1250.

Comply with Section 2.154 YES _____ NO _____

Bidder Response Section 2.154:**2.155 Step Trim Kickplate**

The cab steps shall include a kick plate in the rise of each step. The risers shall be trimmed in 3003-H22 bright aluminum tread-plate which is 0.07 inch thick.

Comply with Section 2.155 YES _____ NO _____

Bidder Response Section 2.155:**2.156 Interior Door Trim**

The interior doors of the cab shall include two (2) piece stainless steel trim panels. The panel material shall consist of AISI 304, 13-gauge stainless steel. The panels shall feature a brushed finish. The 2-piece configuration shall allow for ease of access to interior door hardware and wiring. The interior door panels and all sheet metal attachments shall be fastened to door with lock coated screws. The panels shall provide for easy access to the interior of the door for servicing.

Comply with Section 2.156 YES _____ NO _____

Bidder Response Section 2.156:**2.157 Cab Door Trim Reflective**

The interior of each door shall include high visibility reflective tape. A white reflective tape shall be provided vertically along the outer rear edge of each cab. The lowest portion of each cab door skin shall include a reflective tape chevron with red and yellow stripes. The chevron tape shall measure 12.00 inches in height. The chevron tape shall match throughout the entire apparatus.

Comply with Section 2.157 YES _____ NO _____

Bidder Response Section 2.157:**2.158 Interior Grab Handle "A" Pillar**

There shall be two (2) rubber covered 11.00-inch grab handles installed inside the cab, one on each "A" post at the left and right door openings.

Comply with Section 2.158 YES _____ NO _____

Bidder Response Section 2.158:**2.159 Foot Rest**

The Officer position shall have a fold up tread plate foot rest mounted on the forward bulkhead wall.

Comply with Section 2.159 YES _____ NO _____

Bidder Response Section 2.159:**2.160 Interior Grab Handle Front Door**

Each front door shall include one (1) ergonomically contoured 9.00-inch cast aluminum handle mounted diagonally on the interior door panels. The handles shall feature a textured black powder coat finish to assist personnel entering and exiting the cab.

Comply with Section 2.160 YES _____ NO _____

Bidder Response Section 2.160:

2.161 Interior Grab Handle Rear Door

Each rear door shall include one (1) ergonomically contoured 9.00-inch cast aluminum handle mounted diagonally on the interior door panels and one (1) horizontally mounted 9.00 inch cast aluminum handle. The handles shall feature a textured black powder coat finish to assist personnel entering and exiting the cab. Exact mounting locations to be determined at pre-con.

Comply with Section 2.161 YES _____ NO _____

Bidder Response Section 2.161:

2.162 Interior Rear Wall Compartment

An enclosed cab area storage compartment shall be installed on the rear wall between the rear wall forward facing flip down seats. The frame shall measure approximately 36 inches wide X 55 inches high X 22.00 inches deep (exact measurements to be determined at pre-con). The frame shall be constructed of Marine Grade 5052-H32 0.19 inch thick aluminum plate. The box shall be painted with the same color as the remaining interior. The compartment will provide full front access via a roll up door and side access to the lower approximately 20" of the compartment on both sides via roll up doors. The compartment design will include Unistrut vertically mounted to accommodate the installation of shelves trays and other miscellaneous equipment. The compartment will be ducted to the HVAC system for cooling of sensitive equipment.

The compartment shall include a 12 volt / 120 VAC shorepower outlet wired to a transfer switch allowing for power supplied via shorepower and generator.

2.162.1 EMS/Charging/Storage Roll-up Compartment Front Access

There shall be one (1) access points to the charging storage area. The access point shall be covered by a roll-up door which measures approximately 34.00 inches in width X 53.00 inches in height.

EMS/Charging/Storage Roll-up Compartment Side Access

There shall be two (2) access points to the EMS storage area, one (1) on each side of the frame. Each access point shall be covered by a roll-up door or net enclosure which measures approximately 20.00 inches in width X 20.00 inches in height when open.

2.162.2 EMS/Charging/Storage Roll-up Compartment Shelving

Three (3) adjustable extruded aluminum shelves will be provided for the compartment.

Comply with Section 2.162 YES _____ NO _____

Bidder Response Section 2.162:

2.163 Interior Rear Wall Compartment Interior Finish

The interior of the interior rear wall compartment shall have a DA sanded finish.

Comply with Section 2.163 YES _____ NO _____

Bidder Response Section 2.163:

2.164 Interior Rear Wall Compartment Lighting

There shall be a minimum two (2) Sound Off Signal brand LED strip light installed to illuminate the interior compartment at the rear wall inside the crew area of the cab. The strip light shall provide efficient lighting to illuminate the entire compartment. The light shall be activated when the compartment doors are opened.

Comply with Section 2.164 YES _____ NO _____

Bidder Response Section 2.164:

2.165 Interior Soft Trim Color

The cab interior soft trim surfaces shall be black in color.

Comply with Section 2.165 YES _____ NO _____

Bidder Response Section 2.165:

2.166 Interior Trim Sun Visor

The header shall include two (2) sun visors, one each side forward of the driver and officer seating positions above the windshield. Each sun visor shall be constructed of Masonite and covered with padded vinyl trim.

Comply with Section 2.166 YES _____ NO _____

Bidder Response Section 2.166:

2.167 Cab Paint Interior Door Trim

The inner door panel surfaces shall be painted with a black texture finish.

Comply with Section 2.167 YES _____ NO _____

Bidder Response Section 2.167:

2.168 Header Trim Interior Paint

The metal surfaces in the header area shall be coated with a black texture finish.

Comply with Section 2.168 YES _____ NO _____

Bidder Response Section 2.168:

2.169 Trim Center Dash Interior Paint

The entire center dash shall be coated with a black texture finish. Any accessory pods attached to the dash shall also be painted this color.

Comply with Section 2.169 YES _____ NO _____

Bidder Response Section 2.169:

2.170 Trim Left Hand and Right Hand Dash Interior Paint

The left-hand and right-hand dash shall be painted with a black texture finish.

Comply with Section 2.170 YES _____ NO _____

Bidder Response Section 2.170:

2.171 Switches Overhead Panel

The center dash panel shall include six (6) rocker switch positions in a single row configuration above the driver in the overhead panel. A rocker switch with a blank legend installed directly above shall be provided for any position

without a switch and legend designated by a specific option. The non-specified switches shall be two-position, black switches with a green indicator light. Each blank switch legend can be custom engraved by the body manufacturer. All switch legends shall have backlighting provided.

Comply with Section 2.171 YES _____ NO _____

Bidder Response Section 2.171:

2.172 Switches Dash Panel

The dash panel shall include five (5) switches in a three (3) over two (2) staggered switch configuration. Two (2) rocker switches, one (1) headlight switch, one (1) windshield wiper/washer control switch and one (1) instrument lamp dimmer switch shall be provided. A rocker switch with a blank legend installed directly above shall be provided for any position not designated by a specific option. The non-designated switches shall be two-position, black switches with a green indicator light. Each blank switch legend can be custom engraved by the body manufacturer. All switch legends shall have backlighting provided.

Comply with Section 2.172 YES _____ NO _____

Bidder Response Section 2.172:

2.173 Seating

2.173.1 Seat Belt Warning

A Weldon seat belt warning system, integrated with the Vehicle Data Recorder system, shall be installed for each seat within the cab. The system shall provide a visual warning indicator in the Vista display and control screen(s), an indicator light in the instrument panel, an indicator light in the switch panel, and an audible alarm. The warning system shall activate when any seat is occupied with a minimum of 60 pounds, the corresponding seat belt remains unfastened, and the park brake is released. The warning system shall also activate when any seat is occupied, the corresponding seat belt was fastened in an incorrect sequence, and the park brake is released. Once activated, the visual indicators and audible alarm shall remain active until all occupied seats have the seat belts fastened.

2.173.2 Seat Color

All seats supplied with the chassis shall be black in color. All seats shall include red seat belts

2.173.3 Seat Driver

The driver's seat shall be an USSC Valor G2A - R-Style back, ABTS seat with dual retractor 3-point seat belts. The seat shall include "Ready Reach" seatbelt extension. The seat shall feature an all belts to seat (ABTS) style of safety restraint. The ABTS feature shall include a three-point shoulder harness with the lap belt, automatic retractor and buckle as an integral part of the seat assembly. The minimum vertical dimension from the seat H-point to the ceiling for this belted seating position shall be 35.00 inches measured with the seat height adjusted to the lowest position of travel. This model of seat shall have successfully completed the static load tests set forth by FMVSS 207, 209, and 210 in effect at the time of manufacture. This testing shall include a simultaneous forward load of 3000 pounds each on the lap and shoulder belts and twenty (20) times the weight through the center of gravity. The materials used in construction of the seat shall also have successfully completed testing with regard to the flammability of materials used in the occupant compartments of motor vehicles as outlined in FMVSS 302, of which dictates the allowable burning rate of materials in the occupant compartments of motor vehicles.

2.173.3.1 Seat Back Driver

The driver's seat shall include an R-style seat back incorporating the all belts to seat feature (ABTS). The seat back shall feature a contoured head rest. The seat shall include "Ready Reach" seatbelt extension.

2.173.4 Seat Mounting Driver

The driver's seat shall be installed in an ergonomic position in relation to the cab dash.

2.173.5 Seat Officer

The officer's seat shall be an USSC Valor G2A - Dynamic back with a 95-degree back pitch, ABTS seat with dual retractor 3-point seat belts. The seat shall include "Ready Reach" seatbelt extension. The seat shall feature an all belts to seat (ABTS) style of safety restraint. The ABTS feature shall include a three-point shoulder harness with the lap belt, automatic retractor and buckle as an integral part of the seat assembly. The minimum vertical dimension from the seat H-point to the ceiling for this belted seating position shall be 35.00 inches measured with the seat height adjusted to the lowest position of travel. This model of seat shall have successfully completed the static load tests by FMVSS 207, 209, 210 and 302 in effect at the time of manufacture. This testing shall include a simultaneous forward load of 3000 pounds each on the lap and shoulder belts and twenty (20) times the weight through the center of gravity. The model of seats shall also have successfully completed the flammability of materials used in the occupant compartments of motor vehicles as outlined in FMVSS 302, of which decides the burning rate of materials in the occupant compartments of motor vehicles.

2.173.5.1 Seat Back Officer

The officer's seat back shall be a dynamic back with a 95-degree pitch and include an IMMI brand SmartDock® Gen 2 hands-free self-contained breathing apparatus (SCBA) holder.

- a. The hands-free holder shall meet NFPA 1901-03 9G dynamic requirements for cylinder restraint systems for use in crew compartments of emergency response vehicles.
- b. The bracket shall accommodate and secure most types of self-contained breathing apparatus cylinders.
- c. The hands-free holder shall consist of a back plate, bottom cradle, non-marring top claws, and claw height adjustment knob.
- d. The height adjustment knob shall allow for easy adjustment of the claws to the SCBA.
- e. The hands-free holder's claws shall lock from inertial forces to prevent the SCBA from becoming a projectile in the event of a crash to meet the NFPA 1901-03 standard for SCBA retention.
- f. The SCBA holder shall offer single-motion insertion into the claws and hands-free release when the SCBA fitted seat occupant rises.
- g. The seat back shall include a removable padded cover which shall be provided over the SCBA cavity.
- h. The seat shall include "Ready Reach" seatbelt extension

2.173.6 Seat Mounting Officer

The officer's seat shall be installed in an ergonomic position in relation to the cab dash.

2.173.7 Power Seat Wiring

The power seat or seats installed in the cab shall be wired directly to battery power.

2.173.8 Seat Belt Orientation Crew

The crew position seat belts shall follow the standard orientation which extends from the outboard shoulder extending to the inboard hip.

2.173.9 Seat Rear Facing Outer Location

The crew area shall include (2) seats in the REAR facing position which shall be USSC Valor seats dynamic back with a 95-degree back pitch. The seat shall feature a tapered and padded seat, and 20" cushion. The seat and cushion shall be "Flip and Hold" and compact in design for additional room and shall remain in the stored position until occupied. The seat shall feature an all belts to seat (ABTS) style of safety restraint. The ABTS feature shall include a three-point shoulder harness with the lap belt and automatic retractor as an integral part of the seat assembly. The buckle portion of the seat belt shall extend from the seat base towards the driver position within easy reach of the occupant. The seats shall include "Ready Reach" seatbelt extensions. The minimum vertical dimension from the seat H-point to the ceiling for each belted seating position shall be 35.00 inches.

This type of seat shall have successfully completed the static load tests by FMVSS 207/210. This testing shall include a simultaneous forward load of 3000 pounds each on the lap and shoulder belts and twenty (20) times the weight through the center of gravity. This model of seat installed in the cab model, as

specified, shall have successfully completed the dynamic sled testing using FMVSS 208 as a guide with the following accommodations. In order to reflect the larger size outfitted firefighters, the test dummy used shall be a 95th percentile hybrid III male weighing 225 pounds rather than the 50th percentile male dummy weighing 165 pounds as referenced in FMVSS 208. The model of seats shall also have successfully completed the flammability of materials used in the occupant compartments of motor vehicles as outlined in FMVSS 302, of which decides the burning rate of materials in the occupant compartments of motor vehicles.

2.173.10 Seat Back Rear Facing Outer

The crew area seat backs shall be dynamic back with a 95-degree pitch and include an IMMI brand SmartDock® Gen 2 hands-free self-contained breathing apparatus (SCBA) holder.

- a. The hands-free holder shall meet NFPA 1901-03 9G dynamic requirements for cylinder restraint systems for use in crew compartments of emergency response vehicles.
- b. The bracket shall accommodate and secure most types of self-contained breathing apparatus cylinders.
- c. The hands-free holder shall consist of a back plate, bottom cradle, non-marring top claws, and claw height adjustment knob.
- d. The height adjustment knob shall allow for easy adjustment of the claws to the SCBA.
- e. The hands-free holder's claws shall lock from inertial forces to prevent the SCBA from becoming a projectile in the event of a crash to meet the NFPA 1901-03 standard for SCBA retention.
- f. The SCBA holder shall offer single-motion insertion into the claws and hands-free release when the SCBA fitted seat occupant rises.
- g. The seat back shall include a removable padded cover which shall be provided over the SCBA cavity. The seats shall include "Ready Reach" seatbelt extensions.

2.173.11 Seat Forward Facing Outer Location

The crew area shall include two (2) forward facing outboard seats, which include one (1) located next to the outer wall of the cab on the left side of the cab and one (1) located next to the outer wall on the right side of the cab. The seat shall be manufactured by Valor seats and incorporate a back pad mounted to the rear wall of the cab. Seats shall have 3-point dual retractor seat belts.

Comply with Section 2.173 YES _____ NO _____

Bidder Response Section 2.173:

2.174 Cab Front Under Seat Storage Access

The left and right under seat storage areas shall have a vented aluminum hinged door with locking latch.

Comply with Section 2.174 YES _____ NO _____

Bidder Response Section 2.174:

2.175 Seat Compartment Door Finish

All under seat storage compartment access doors shall have a black texture finish.

Comply with Section 2.175 YES _____ NO _____

Bidder Response Section 2.175:

2.176 Windshield Wiper System

The cab shall include a dual arm wiper system which shall clear the windshield of water, ice and debris. There shall be two (2) windshield wipers which shall be affixed to a radial wet arm. The system shall include a single motor which shall initiate the arm in which both the left hand and right hand windshield wipers are attached, initiating a

back and forth motion for each wiper. The wiper motor shall be activated by an intermittent wiper control located within easy reach of the driver’s position. All windshield wipers shall turn off when the parking brakes are set.

Comply with Section 2.176 YES ___ NO ___

Bidder Response Section 2.176:

2.177 Electronic Windshield Fluid Level Indicator

The windshield washer fluid level shall be monitored electronically. When the washer fluid level becomes low the yellow “Check Message Center” indicator light on the instrument panel shall illuminate and the message center in the dual air pressure gauge shall display a “Check Washer Fluid Level” message.

Comply with Section 2.177 YES ___ NO ___

Bidder Response Section 2.177:

2.178 Cab Door Hardware

The cab entry doors shall be equipped with exterior pull handles, suitable for use while wearing firefighter gloves. The handles shall be made of aluminum with chrome plated finish and be in the vertical position. The interior exit door handles shall be flush paddle type with a black finish, which are incorporated into the upper door panel. All cab entry doors shall include locks which are keyed alike. The door locks shall be designed to prevent accidental lockout. The exterior pull handles shall include a scuff plate behind the handle constructed of polished stainless steel to help protect the cab finish.

Comply with Section 2.178 YES ___ NO ___

Bidder Response Section 2.178:

2.179 Door Locks

Each cab entry door shall include a manually operated door lock. Each door lock may be actuated from the inside of the cab by means of a red knob located on the paddle handle of the respective door or by using a TriMark key from the exterior. The door locks are designed to prevent accidental lock out.

Comply with Section 2.179 YES ___ NO ___

Bidder Response Section 2.179:

2.180 Grab Handles

The cab shall include one (1) 18.00 inch 3-peice knurled, aluminum LED lit anti-slip assist handle with red reflective stipe at each cab access door. Handle shall be 1.25-inch diameter to enable non-slip assistance with a gloved hand. Light activation will be with the ground light circuit.

Comply with Section 2.180 YES ___ NO ___

Bidder Response Section 2.180:

2.181 Auxiliary Grab Handles

There shall be an 18.00 inch 3-peice knurled, aluminum, anti-slip assist handle attached to the front fascia of the cab in the center below the windshield. The handle installation shall include steel reinforcement behind the front cab fascia.

Comply with Section 2.181 YES ___ NO ___

Bidder Response Section 2.181:

2.182 Rearview Mirrors

Ramco model 6015-FFHR-750R bus style mirrors shall be provided. The mirror heads shall be polished cast aluminum and shall measure 9.75 inches wide X 13.00 inches high with an additional top mount convex assembly. The mirrors shall be mounted one (1) on each front cab corner radius below the windshield with 15.00-inch-long polished cast aluminum arms. The mirrors shall feature a remote controlled heated full flat glass and a top mounted remote controlled convex glass. The mirror control switches shall be located within easy reach of the driver. The mirrors shall be manufactured using the finest quality non-glare glass and shall feature a rigid mounting thereby reducing vibration. The mirrors shall be corrosion free under all weather conditions.

2.182.1 Rearview Mirror Heat Switch

The heat for the rearview mirrors shall be controlled through a rocker switch on the dash in the switch panel.

Comply with Section 2.182 YES _____ NO _____

Bidder Response Section 2.182:

2.183 Exterior Trim Rear Corner

There shall be mirror finish stainless steel scuff plates on the outside corners at the back of the cab. The stainless-steel plate shall be affixed to the cab using two-sided adhesive tape.

Comply with Section 2.183 YES _____ NO _____

Bidder Response Section 2.183:

2.184 Trim Roof

The rear of the cab roof shall include 3003-H22 bright aluminum embossed tread plate which is 0.08 inches thick. This plate shall be intended for reinforcement value and shall be 48.00 inches long starting from the rear edge of the roof forward and shall be the full width of the flat portion of the roof centered left to right. The tread plate shall be held in place using stainless steel fasteners and shall be sealed with silver silicone caulk around the perimeter of the tread plate and at each mounting screw.

Comply with Section 2.184 YES _____ NO _____

Bidder Response Section 2.184:

2.185 Cab Fender

Full width wheel well liners shall be installed on the extruded cab to limit road splash and enable easier cleaning. Each two-piece liner shall consist of an inner liner 16.00 inches wide made of vacuum formed ABS composite and an outer fenderette 3.50 inches wide made of 14 gauge 304 polished stainless steel.

Comply with Section 2.185 YES _____ NO _____

Bidder Response Section 2.185:

2.186 Ignition

A master battery system with a keyless start ignition system shall be provided. Each system shall be controlled by a one-quarter turn Cole Hersee switch, both of which shall be mounted to the left of the steering wheel on the dash. A chrome push type starter button shall be provided adjacent to the master battery and ignition switches. Each

switch shall illuminate a green LED indicator light on the dash when the respective switch is placed in the “ON” position. The starter button shall only operate when both the master battery and ignition switches are in the “ON” position.

Comply with Section 2.186 YES _____ NO _____

Bidder Response Section 2.186:

2.187 Instrument Panel

- 2.187.1 The fully hinged metal instrument panel shall be non-glare black. The panel shall be provided with a stainless-steel piano type hinge and quick release attachments for maintenance.
- 2.187.2 All instruments or gauges requiring pressure or vacuum lines shall have flexible connector hoses with enough slack to allow the panel to be hinged for maintenance.
- 2.187.3 Ends of flexible hoses leaving instruments shall be fastened to securely mounted connector fittings or bars.
- 2.187.4 Panel wiring shall be connected to a terminal strip.
- 2.187.5 Instrument panel, including gauge descriptions, shall be submitted to Riverside County Fire for approval prior to the start of manufacture.
- 2.187.6 The panel shall contain the following in addition to any instruments and indicators reflected herein:
- a. Speedometer (Direct Data Bus)
 - b. Tachometer (Direct Data Bus)
 - c. Ammeter with yellow LED discharge indicator light.
 - d. Voltmeter with yellow LED low voltage indicator light. (Direct Data Bus)
 - e. Engine temperature gauge with high temperature buzzer and red LED indicator light and low coolant level indicator light. (Direct Data Bus)
 - f. Oil Pressure gauge with low pressure buzzer and red LED indicator light. (Direct Data Bus)
 - g. Air cleaner restriction gauge with indicator light.
 - h. Fuel gauge with yellow LED low fuel indicator light.
 - i. Fuel filter restriction light (yellow).
 - j. Transmission temperature gauge (measuring converter outlet temperature) and high temperature buzzer and red LED indicator light. (Direct Data Bus)
 - k. Primary and secondary air reservoir pressure gauges with low air pressure buzzer and red LED indicator lights. (Direct Data Bus)
 - l. Air application gauge (each axle).
 - m. Parking brake “ON” light.
 - n. Cab not latched indicator light.
 - o. DPF regeneration indicator light.
 - p. DEF fluid level gauge.
- 2.187.7 All instruments shall have SAE J1939 direct data bus interface. The instruments shall have black bezels, multi-color graphics, 270-degree pointer sweep, red LED backlighting, tip to hub illuminated pointers, return to zero feature and integral LED warning lights. Use of apparatus manufacturer’s face plate is unacceptable.
- 2.187.8 All data bus instrument options, i.e., programming warning light colors and activation points, dial graphics and fonts, etc., shall be approved by the County at pre-construction meeting.
- 2.187.9 The engine and transmission temperature gauge graphics shall display the temperature in 10 degree increments.
- 2.187.10 The instruments shall have English graphics and displays only. Metric graphics or displays are unacceptable.
- 2.187.11 All warning lights shall either be integral in the gauge or adjacent to its corresponding gauge.
- 2.187.12 Provide separate, standard layout diagnostic/warning light bar with seven (7) digit odometer. Odometer to read with battery on, ignition off.

- 2.187.13 Separate sending units shall be provided for the instrument panel fuel gauge. Float-type sending units with moving parts unacceptable.
- 2.187.14 Low air buzzer shall sound different than low oil pressure and high temperature buzzers. Custom buzzer options and events to be approved by Riverside County Fire at pre-con.
- 2.187.15 All panel mounted data bus instruments, warning lights and buzzers shall be activated by a pushbutton test switch mounted convenient to the vehicle operator.
- 2.187.16 Provide a matching speedometer in the officer position overhead with direct data bus input.
- 2.187.17 Provide an audible and visual warning system to alert both the driver and tiller operator when the tractor and trailer approaches the maximum allowable "jackknife" angle.

Comply with Section 2.187 YES _____ NO _____

Bidder Response Section 2.187:

2.188 Audible Alarms

Air Filter Restriction; Cab Tilt Lock; Check Engine; Check Transmission; Open Door/Compartment; High Coolant Temperature; High or Low System Voltage; High Transmission Temperature; Low Air Pressure; Low Coolant Level; Low DEF Level; Low Engine Oil Pressure; Low Fuel; Seatbelt Indicator; Stop Engine; Water in Fuel Extended Left/Right Turn Signal On; ABS System Fault.

Comply with Section 2.188 YES _____ NO _____

Bidder Response Section 2.188:

2.189 Backlighting Color

The instrumentation gauges and the switch panel legends shall be backlit using red LED backlighting. There shall be a brightness adjustment located in the instrument panel.

Comply with Section 2.189 YES _____ NO _____

Bidder Response Section 2.189:

2.190 Auxiliary Speedometer

Auxiliary speedometer shall be integrated into the Vista digital display.

Comply with Section 2.190 YES _____ NO _____

Bidder Response Section 2.190:

2.191 Air Pressure Gauge Auxiliary Air Tank

The dash panel shall include an additional air pressure gauge for the auxiliary air tank.

Comply with Section 2.191 YES _____ NO _____

Bidder Response Section 2.191:

2.192 Cab Exterior Protection

The cab face shall have a removable plastic film installed over the painted surfaces to protect the paint finish during transport to the body manufacturer.

Comply with Section 2.192 YES _____ NO _____

Bidder Response Section 2.192:

2.193 Fire Extinguisher

A 2.50-pound D.O.T approved fire extinguisher with BC rating shall be shipped loose with the cab.

Comply with Section 2.193 YES _____ NO _____

Bidder Response Section 2.193:

2.194 Door Keys

The cab and chassis shall include a total of four (4) door keys for the manual door locks.

Comply with Section 2.194 YES _____ NO _____

Bidder Response Section 2.192:

2.195 Warranty

The chassis manufacturer shall provide a limited parts and labor warranty to the original purchaser of the custom-built cab and chassis for a period of twenty-four (24) months, or the first 36,000 miles, whichever occurs first. The warranty period shall commence on the date the vehicle user places it into service.

Comply with Section 2.195 YES _____ NO _____

Bidder Response Section 2.195:

2.196 Chassis Operation Manual

There shall be one (1) Hard copy and two (2) digital copies of the chassis operation manual provided with the chassis. The digital data shall include a parts list specific to the chassis model. The digital copies shall be provided on thumb drives.

Comply with Section 2.196 YES _____ NO _____

Bidder Response Section 2.196:

2.197 Engine and Transmission Operation Manuals

The following manuals specific to the engine and transmission models ordered will be included with the chassis in the ship loose items:

- a. (2) Hard copies of the Engine Operation and Maintenance manual with CD
- b. (2) Digital copies of the Transmission Operator’s manual (thumb drives)
- c. (2) Digital copies of the Engine Owner’s manual (thumb drives)

Comply with Section 2.197 YES _____ NO _____

Bidder Response Section 2.197:

2.198 Engine Service Manuals

There shall be two (2) printed hard copy sets of Cummins ISX 15 engine service reference manuals which shall be provided with the chassis.

Comply with Section 2.198 YES _____ NO _____

Bidder Response Section 2.198:

2.199 Transmission Service Manuals

There shall be one (1) printed hard copy set of Allison 4000 transmission service manuals included with the chassis.

Comply with Section 2.199 YES ___ NO ___

Bidder Response Section 2.199:

2.200 Cab/Chassis As-Built Wiring Diagrams

The cab and chassis shall include two (2) digital copies of wiring schematics and option wiring diagrams.

Comply with Section 2.200 YES ___ NO ___

Bidder Response Section 2.200:

2.201 Driveline Layout Confirmation

During the design phase of the chassis the vendor driveline engineer shall submit the driveline layout to an OEM engineer to review the chassis design for any potential problems integrating the OEM body to the chassis. The OEM engineer shall provide approval to the driveline engineer prior to driveline bills of materials being released.

Comply with Section 2.201 YES ___ NO ___

Bidder Response Section 2.201:

2.202 Overall Height

The overall height of the vehicle shall not exceed 147" (12' 3") from the ground. This measurement shall be taken with the tires properly inflated with the apparatus in the unloaded condition. The actual measurement shall be taken that highest point of the apparatus.

Comply with Section 2.202 YES ___ NO ___

Bidder Response Section 2.202:

2.203 Overall Length

The overall length of the vehicle shall be approximately 672" (56').

Comply with Section 2.203 YES ___ NO ___

Bidder Response Section 2.203:

2.204 Chassis Wheel Base

The chassis wheel base shall be approximately 143" (11' 11"). The measurement shall be taken from the center of the tractor front axle to the center of the tractor drive axle.

Comply with Section 2.204 YES ___ NO ___

Bidder Response Section 2.204:

2.205 Tiller Wheel Base

The tiller wheel base shall be approximately 345" (28' 9"). This measurement shall be taken from the center of the tractor drive axle to the center of the tiller axle.

Comply with Section 2.205 YES ___ NO ___

Bidder Response Section 2.205:

2.206 Angle of Approach

The angle of approach shall be approximately 15 degrees.

Comply with Section 2.206 YES ___ NO ___

Bidder Response Section 2.206:

2.207 Angle of Departure

The angle of departure shall be approximately 14 degrees.

Comply with Section 2.207 YES ___ NO ___

Bidder Response Section 2.207:

2.208 Miscellaneous Equipment Allowance

The GAWR and the GCWR or GVWR of the chassis shall be adequate to carry the weight of the unequipped apparatus, with the tanks full, the specified hose load, unequipped personnel weight, ground ladders, and the miscellaneous equipment allowance of 10,000 pounds.

Comply with Section 2.208 YES ___ NO ___

Bidder Response Section 2.208:

2.209 Hose Storage Compartment C1, Tiller Tractor

There shall be a hose storage compartment located behind the chassis cab on the tiller tractor. This compartment shall be designated as C1. The compartment shall have three fixed sides constructed of treadbrite material. In addition, the compartment shall have a lid that covers the top and front of the compartment. The compartment shall be able to hold 130' of 3" hose with 2 1/2" couplings.

Comply with Section 2.209 YES ___ NO ___

Bidder Response Section 2.209:

2.210 Compartment

2.210.1 CL-1

There shall be a compartment located behind the chassis cab on the left side of the tiller tractor. This compartment shall be designated as CL1 within these specifications and any ensuing paperwork or drawings after contract execution. It shall be equipped with a single, horizontally hinged lift up, treadbrite door. Door Opening shall be a minimum of 18" Wide x 24" High. The compartment shall have a minimum usable depth of 26".

2.210.2 CL-2

A compartment shall be located behind the chassis cab on the left side of the tiller tractor. This compartment shall be designated as CL2 within these specifications and any ensuing paperwork or drawings after contract execution. It shall be equipped with a single, vertically hinged swing out door. Door Opening - 26" Wide x 30" High. The compartment shall have a usable depth of 24". There shall be

one (1) Streamlight Model Fire Vulcan LED, with 12-volt vehicle charger, mounted inside the compartment. The light shall be orange in color. There shall be one (1) Zico Walkaway SCBA bracket mounted inside the compartment.

2.210.3 **CL-3**

A compartment shall be located behind the chassis cab on the left side of the tiller tractor . This compartment shall be designated as CL3. It shall be equipped with a single, vertically hinged swing out door. Door Opening -19" Wide x 13" High. The compartment shall have a usable depth of 12"

2.210.4 **CR-1**

There shall be a compartment located behind the chassis cab on the right side of the tiller tractor. This compartment shall be designated as CR1. It shall be equipped with a single, horizontally hinged lift up, treadbrite door. Door Opening shall be a minimum of 16" Wide x 23" High. The compartment shall have a minimum usable depth of 26".

2.210.5 **CR-2**

A compartment shall be located behind the chassis cab on the right side of the tiller tractor. This compartment shall be designated as CR2. It shall be equipped with a single, vertically hinged swing out door. Door Opening shall be a minimum of 26" Wide x 30" High. The compartment shall have a minimum usable depth of 24". There shall be one (1) Streamlight Model Fire Vulcan LED, with 12-volt vehicle charger, mounted inside the compartment. The light shall be orange in color. There shall be one (1) Zico Walkaway SCBA bracket mounted inside the compartment.

2.210.6 **CR-3**

A compartment shall be located behind the chassis cab on the right side of the tiller tractor. This compartment shall be designated as CR3. It shall be equipped with a single, vertically hinged swing out door. Door Opening minimum of 19" Wide x 13" High. The compartment shall have a minimum usable depth of 12".

Comply with Section 2.210 YES _____ NO _____

Bidder Response Section 2.210:

2.211 Steps, Turntable Access, Tiller, Left

For access to the turntable from the left side of the apparatus, one set of steps shall be furnished behind the tiller tractor cab. The left side tiller tractor compartments shall be an integral part of the turntable access steps. The steps shall be constructed of aluminum grip-strut. The steps shall have a maximum stepping height which shall not exceed 18" with the exception of the ground to the first step which shall not exceed NFPA standard of 24". Steps shall be illuminated for night time operation. The lights shall be activated by the parking brake. To aid in ascending and descending the access steps, handrails shall be provided in appropriate locations.

Comply with Section 2.211 YES _____ NO _____

Bidder Response Section 2.211:

2.212 Steps, Turntable Access, Tiller, Right

For access to the turntable from the right side of the apparatus, one set of steps shall be furnished behind the tiller tractor cab. The right-side tiller tractor compartments shall be an integral part of the turntable access steps. The steps shall be constructed of aluminum grip-strut. The steps shall have a maximum stepping height which shall not exceed 18" with the exception of the ground to the first step which shall not exceed NFPA standard of 24". Steps shall be illuminated for night time operation. The lights shall be activated by the parking brake. To aid in ascending and descending the access steps, handrails shall be provided in appropriate locations.

Comply with Section 2.212 YES _____ NO _____

Bidder Response Section 2.212:

2.213 Hand Lanterns

There shall be two (2) Streamlight Model Fire Vulcan LED, with 12 volt vehicle chargers, mounted inside the cab. The lights shall be orange in color.

Comply with Section 2.213 YES _____ NO _____

Bidder Response Section 2.213:

2.214 Cab Lift Hooks

The cab shall have two (2) removable swiveling hoist rings that allow the cab to be lifted with a mechanical hoist for service operations. These lifting points will be rated sufficiently to lift the weight of the cab and all of the contents and hold in place indefinitely. The swiveling hoist rings shall be easily removable and attached by service personnel. Cab lifting points shall integral to the cabs structure and allow the mounting of an appropriately weight rated commercially available swiveling hoist ring. Hoist ring locations shall be in the upper corner areas of the rear cab walls, both right and left sides. The exterior of the cab wall in the areas of the swiveling hoist rings shall be protected by a stainless-steel plate sized appropriately to provide protection from paint damage while lifting system is in use. The hoist ring bolt hole shall be closed by a stainless steel allen pan bolt that is threaded into a grade 8 nut that is built into the cab structure. These bolts shall be sealed to prevent any water intrusion into the cab. Access to the hoist ring mount in the interior of the cab shall be designed in. Interior access shall be covered, but easily accessible. A minimum of two swiveling hoist rings shall be provided loose with the apparatus.

Comply with Section 2.214 YES _____ NO _____

Bidder Response Section 2.214:

2.215 Auxiliary Air Compressor

A Kussmaul Auto Pump 120V air compressor shall be supplied. The air compressor shall be temporarily installed behind the officer's seat with 4.00-foot additional hose length. The air compressor shall be plumbed to the air brake system to maintain air pressure.

Comply with Section 2.215 YES _____ NO _____

Bidder Response Section 2.215:

2.216 Mechanics Override Switch

A mechanics override switch shall be located in the tractor cab, below the dash, on the driver's side, in an accessible but inconspicuous location. The switch shall disengage the tiller power steering pump so the apparatus may be driven as a regular tractor trailer.

Comply with Section 2.216 YES _____ NO _____

Bidder Response Section 2.216:

2.217 Electric Cord Reels

There shall be two (2) Hannay 120-volt electric rewind cord reels, model ECR1616-17-18 installed on the apparatus with a push button labeled REEL REWIND installed for 12 volt rewinding for each cord reel. The reel shall be equipped with 200' of yellow STW Seoprene 105 degree Celsius 10/3 wire installed with a cable stop to prevent damage to cable fittings. Rollers shall be supplied to prevent damage to the electrical cable if pulled in any direction.

- a. One cord reel shall be in CL1 and one in CR1 on the tiller chassis body.

Comply with Section 2.217 YES _____ NO _____

Bidder Response Section 2.217:

2.218 Cord Reel Junction Box

There shall be two (2) Circle D model PF51G-3 electrical junction box, equipped with four (4) electrical receptacles, provided and hard wired to the cord reel. The receptacles shall be enclosed in a UL listed, NEMA Type 3R cast aluminum box with aluminum finish and NFPA required indicator light.

Comply with Section 2.218 YES _____ NO _____

Bidder Response Section 2.218:

2.219 Receptacle Junction Box

There shall be eight (8) Circle D, NEMA L5-15R DPLX, duplex twist lock type receptacles installed in the junction box. The receptacle shall be rated at 15 amps and 120 volts. Receptacles shall be installed in the following locations of the junction box: 1, 2, 3, 4.

Comply with Section 2.219 YES _____ NO _____

Bidder Response Section 2.219:

2.220 Volt Twist Lock, Single Receptacle

There shall be two (2), single outlet boxes. The box shall contain one (1) NEMA L5-15, 120-volt 15 ampere rating twist lock type receptacles wired to the generator. The receptacles shall have spring loaded weather resistant covers. The receptacles shall be located on the rear of the tiller body one on the left and one on the right.

Comply with Section 2.220 YES _____ NO _____

Bidder Response Section 2.220:

2.221 Generator

- a. A current year Onan model, hydraulic driven generator shall be installed on the apparatus. The generator shall be rated at a minimum of 10,000 watts at 120/240 volts. Current frequency shall be stable at 60 hertz.
- b. The generator shall be a modular unit, housed in stainless steel with acoustic material added for maximum sound dampening. The modular generator shall consist of a hydraulic motor, generator, blower, cooler, and all other necessary components.
- c. For ease of maintenance, there shall be accessibility for the oil reservoir and all filters contained within the generator.

Comply with Section 2.221 YES _____ NO _____

Bidder Response Section 2.221:

2.222 Manufacturing Labels

A permanent plate shall be mounted in the driver's compartment specifying the quantity and type of the following fluids that may be used in the apparatus for normal maintenance. Where a fluid is not applicable to the unit, the plate shall be marked N/A to inform the service technician who may not be familiar with the apparatus.

- a. Engine oil
- b. Engine coolant

- c. Transmission fluid
- d. Pump transmission fluid
- e. Pump primer fluid
- f. Drive axle fluid
- g. Air conditioning refrigerant
- h. Power steering fluid
- i. Cab tilt mechanism fluid
- j. Transfer case fluid
- k. Equipment rack fluid
- l. Air compressor system lubricant
- m. Generator system lubricant
- n. Front tires air pressure
- o. Rear tires air pressure

- 2.222.1 A permanent plate shall be affixed in the driver's area that states the maximum number of personnel allowed to ride on the apparatus at any time.
- 2.222.2 A sign shall be affixed in the chassis cab, in plain sight of the driver that states the overall travel height, overall length, and gross GVWR of the apparatus.
- 2.222.3 All other appropriate label to ensure safe operation of the apparatus shall be permanently affixed in conspicuous locations.

Comply with Section 2.222 YES _____ NO _____

Bidder Response Section 2.222:

End of Section II – Cab & Chassis

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- 3.134 Hydraulic Pressure Gauge
- 3.135 Reservoir Isolation Kit
- 3.136 Aerial Loadminder System
- 3.137 Aerial Ladder Load Chart
- 3.138 Emergency Pump
- 3.139 Hydraulic Swivel
- 3.140 Electrical Swivel
- 3.141 Two Station Aerial Communication System
- 3.142 Monitor Safety Interlock
- 3.143 Akron 1494 Ladder Pipe
- 3.144 Angle Indicator (Lighted)
- 3.145 Extension Indicator
- 3.146 Aerial Mounted Folding Attic Ladder Bracket

- 3.147 Roof Ladder Mounting Brackets Base Section, Behind Ladder Sign
- 3.148 Aerial Special Labels
- 3.149 Aerial Device Specification Placard
- 3.150 Aerial Ladder Signs

Attachment: FPARC-327 - Aerial Fire Apparatus Bid Packet (Final) (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER FIRE

SECTION III – AERIAL BODY & TRAILER

3.1 Trailer Structure and Components

The tiller trailer frame shall be a gooseneck design. The frame of the trailer shall be constructed of a welded "C" channel design incorporating a forward section for the aerial turntable and a rearward section for the body and tiller. The gooseneck area frame shall have a section modulus of a minimum of 452. inches cubed and a RBM of 13,560,000 inch pounds.

- 3.1.1 There shall be two (2) hard point anchors installed on each side below the turntable.
- 3.1.2 The front goose neck section of the trailer frame shall incorporate a welded torque box to support the ladder turntable and the rear section of the trailer frame shall support the body and tiller. The front goose neck section shall be constructed with an actual minimum RBM rating of 17,500,000 inch pounds and the rear section shall be constructed with an actual minimum RBM rating of 14,450,000 inch pounds. The square corner method shall not be used for calculating the RBM.
- 3.1.3 There shall be two (2) Class IV rated receivers mounted on each side of the trailer body, directly beneath the compartments. These are in addition to the anchors below the turntable.
- 3.1.4 The fifth wheel shall have a minimum 1.25" diameter ball monorace bearing, 3.88" x 34" diameter, with the mounting plate bolted to the tractor. There shall be three grease zerks spaced at 120° intervals provided.
- 3.1.5 All grease zerks shall be readily accessible for ease of maintenance. The longitudinal pivot point mounting shall utilize two, 2" diameter steel pins. A bronze bushing with full width and circumference grease groove shall be utilized with this installation.
- 3.1.6 The trailer axle shall be a Meritor model MFS20 with a weight rating of 23,000 lbs. The trailer axle shall have a DSP Ride Tech maintenance free suspension to compensate for vehicle load changes. Deflection shall be limited by a three stage urethane spring. Two double acting shock absorbers, capable of dampening the shock of the load carried, shall be supplied per axle.
- 3.1.7 The tiller axle shall be equipped with Meritor, 16.5" x 6" S-cam type brakes with automatic slack adjusters. Spring brakes are necessary on both the rear tractor and trailer axles to hold the vehicle on a 32 percent grade. A Meritor Wabco anti-lock braking system shall be installed on the Arvin Meritor axles. A dash mounted warning light shall be provided in the tractor cab to notify the driver of a system malfunction.
- 3.1.8 The trailer brakes shall be plumbed to a brake release control valve in the tractor cab within easy reach of the driver and officer seat position and shall be labeled as to its function. An "ON" indicator light shall be installed in the tractor cab dash adjacent to the control.
- 3.1.9 The trailer tiller axle 22.5 x 12.25, hub piloted wheels shall be Alcoa polished. The wheels shall be 120 psi rated. Tires shall be Continental steel belted radials 425/65R22.5 "L" HTR2.
- 3.1.10 A TRW TAS-85 hydraulic power assist steering gear with a hydraulic power assist cylinder shall be provided.
- 3.1.11 A lock bar and a tiller power steering pump override switch shall be provided so the apparatus may be driven as a regular truck and trailer.
- 3.1.12 Provisions shall be provided at the front and rear for easy lubrication, service and repair.

Comply with Section 3.1: YES _____ NO _____

Bidder Response Section 3.1:

3.2 Tiller Cab Structure and Components

A fully enclosed tiller cab that may be removed for repair in the event of cab damage shall be provided. The tiller cab shall have a maximum exterior width of 42" and a minimum interior floor to ceiling height of 55". The lower 4" of the tiller cab shall have a polished stainless steel toe kick around the walk areas.

- 3.2.1 The tiller cab roof panel assembly shall have extruded hat section supports welded to the roof skin. The roof hat sections shall be joined to the cab roof rail section to complete the upper cab

skeletal structure. The completed roof panel rails shall provide a grid for maximum roof strength. The front wall shall be designed with a double wall construction to reduce the effects of exterior noise.

- 3.2.2 Instruments and warning lights shall be conveniently located in the operator area of the cab on one of two operator control panels. The panels shall be hinged for easy access to warning light connections. All instruments and warning lights shall be easily visible to the tiller driver.
- 3.2.3 The interior of the cab shall be gray Line-X. The color of any vinyl upholstery shall match the upholstery of the cab seats.
- 3.2.4 The tiller operator's seat shall be an USSC Valor G2A - R-Style back, ABTS seat with dual retractor 3-point seat belts. The seat shall include "Ready Reach" seatbelt extension.
- 3.2.5 The seat shall feature an all belts to seat (ABTS) style of safety restraint. The ABTS feature shall include a three-point shoulder harness with the lap belt, automatic retractor and buckle as an integral part of the seat assembly.
- 3.2.6 The seat shall have a minimum of 37" from the seat H-point to the headliner. The female seat belt clasp shall extend up from the seat base 14" to be within easy reach of the occupant.
- 3.2.7 The tiller cab shall meet current NFPA standards for tiller cab roll over protection.

Comply with Section 3.2: YES _____ NO _____

Bidder Response Section 3.2:

3.3 Doors

The tiller cab shall be provided with horizontal sliding doors on each side of the cab. The door shall open so as to provide unobstructed access to the tiller cab. The door when closed shall lock in place. An aluminum drip rail shall be installed above the door to prevent water from entering. The door shall be equipped with slide open tinted automotive safety type windows. The window shall provide maximum visibility for the tiller operator. Spray applied tint shall not be acceptable. The inside of the tiller cab doors shall be covered with gray line-X.

Comply with Section 3.3: YES _____ NO _____

Bidder Response Section 3.3:

3.4 Rear Window

There shall be a rear window provided in the tiller cab that shall drop down to open. The window shall have automotive type tinted safety glass and shall provide maximum visibility for the tiller operator. Spray applied tint shall not be acceptable.

Comply with Section 3.4: YES _____ NO _____

Bidder Response Section 3.4:

3.5 Windshield

- 3.5.1 The tiller cab shall not have windshield corner posts that inhibit the tiller operator's field of vision. The windshield shall be readily available and non-proprietary.
- 3.5.2 Provide a self-parking, electric windshield wiper motor. Two speed switches to be mounted in the tiller cab's overhead switch panel. The wiper motor shall have an access panel and be easily serviceable.
- 3.5.3 A windshield washer system shall be provided. The control switch to be mounted in the tiller cab's overhead switch panel. The windshield wipers shall turn off when the parking brake is set.
- 3.5.4 The windshield shall be large enough as to provide maximum visibility for the tiller operator.

Comply with Section 3.5: YES _____ NO _____

Bidder Response Section 3.5:

3.6 Steering Column

There shall be a steering column with telescoping/tilt feature provided. The steering wheel shall be a minimum of 18 in diameter and shall align with the center of the tiller operators' seat. There shall be a high beam switch lever located on the right side of the steering column that shall activate the forward-facing tiller driving lights, and a blinker lever located on the left side of the steering column that shall activate the left and right turn tiller driving lights. All grease fittings shall be easily accessible.

Comply with Section 3.6: YES _____ NO _____

Bidder Response Section 3.6:

3.7 Turn Indicator Lights

Amber turn signal indicator lights shall be mounted in the upper right and upper left corners of the tiller cab, and on the lower tiller cab control panel. The lights shall alert the tiller operator of the tractor driver's intent.

Comply with Section 3.7: YES _____ NO _____

Bidder Response Section 3.7:

3.8 Transmission Selector Safety Switch

There shall be a pressure foot switch located on the tiller cab floor to the right of the steering column tied to the tractor transmission selector. The switch shall require a seated operator in the tiller cab to engage a foot switch before the tractor transmission can be shifted into gear. The switch shall need to be reset any time after the parking brake has been engaged. In addition there shall be a light in the tractor cab that when illuminated shall indicate to the driver that the tiller operator is not in position and the safety foot switch has not been depressed.

Comply with Section 3.8: YES _____ NO _____

Bidder Response Section 3.8:

3.9 Buzzer Signaling System

There shall be a buzzer signaling system provided between the tractor cab and the tiller cab. The signaling system shall include an activation switch and buzzer located in the tractor cab. The buzzer shall be controlled by a foot switch located on the floor to the left of the tiller drivers steering column or by a switch located in the center of the steering wheel. A switch in the tractor cab located within reach of the driver shall allow the tractor operator to reply to the tiller operator's signal. The buzzer shall not use warning devices provided for low air, ignition, or any other components. Buzzers shall be audible when headsets are worn. The switch shall be labeled 1-Stop, 2-Go, and 3-Back-up.

Comply with Section 3.9: YES _____ NO _____

Bidder Response Section 3.9:

3.10 Dimmer Switch

Provide a dimmer switch to control the tiller cabs overhead switch panel illumination. The dimmer switch shall be located in the overhead switch panel.

Comply with Section 3.10: YES _____ NO _____

Bidder Response Section 3.10:

3.11 Tiller Cab Heating and Air Conditioning System

- 3.11.1 The venting for the heating and air conditioning system shall be designed to serve the functions of heating, cooling and defrosting the tiller cab.
- 3.11.2 The tiller cab shall be equipped with a 110-volt Coleman Mach 8 Roughneck low profile high capacity air conditioning system shall be provided to cool the crew area of the cab. The system shall consist of one (1) 110-volt air conditioning roof mounted unit. The cover of the air conditioning unit shall be painted the trailer body color. The system shall be pre-wired with enough cable for the body builder to connect to a 110-volt power source. The air conditioning system shall be wired to a transfer switch allowing for power supplied via shorepower and/or generator. All components including compressor, condenser and evaporator shall be mounted in a single sound shielded aluminum case. The system shall also include a heat strip. The system controls shall be in the tiller operators upper control panel. The keypad control shall feature a plastic housing, sealed membrane keypad and electronics with anticorrosion coating. The keypad shall have a large easy to read digital display that shall show temperature, set point, and fault code warnings.

Comply with Section 3.11: YES _____ NO _____

Bidder Response Section 3.11:

3.12 Tiller Cab Rear Vents

There shall be two (2) manual vents supplied at the rear of the tiller cab to insure adequate ventilation.

Comply with Section 3.12: YES _____ NO _____

Bidder Response Section 3.12:

3.13 Defogger Fans

There shall be two (2) defogger fans located in the tiller cab. The fans shall be pointed at the front windshield of the cab.

Comply with Section 3.13: YES _____ NO _____

Bidder Response Section 3.13:

3.14 Auxiliary Fans

There shall be two (2) auxiliary fans installed inside the tiller cab.

Comply with Section 3.14: YES _____ NO _____

Bidder Response Section 3.14:

3.15 Rear View Mirror, Tiller Cab

- 3.15.1 There shall be one set of rear view mirrors installed on the tiller cab. The mirrors shall be located on the front outside portion of the tiller cab to provide the tiller operator with a maximum view of the rear of the apparatus.
- 3.15.2 There shall also be a set of rear view mirrors (round/convex style) mounted on the trailer sides above the trailer axle.

Comply with Section 3.15: YES _____ NO _____

Bidder Response Section 3.15:

3.16 Rear Axle Steering Display

Exact model shall be determined at pre-construction meeting.

Comply with Section 3.16: YES _____ NO _____

Bidder Response Section 3.16:

3.17 Steps, Tiller Cab Access, Left

For access to the tiller cab, one set of steps shall be furnished at the left rear of the apparatus at the furthest point behind the tiller trailer axle. The steps shall be constructed of aluminum grip-strut. The steps shall have a maximum stepping height which shall not exceed 18" with the exception of the ground to first step which shall not exceed NFPA standard of 24". Steps shall be illuminated for night time operation. The lights shall be activated by the parking brake. To aid in ascending and descending the access steps, handrails shall be provided on each side. The steps and handrails shall have LED lighting incorporated into each.

Comply with Section 3.17: YES _____ NO _____

Bidder Response Section 3.17:

3.18 Steps, Tiller Cab Access, Right

For access to the tiller cab, one set of steps shall be furnished at the right rear of the apparatus at the furthest point behind the tiller trailer axle. The steps shall be constructed of aluminum grip-strut. The steps shall have a maximum stepping height which shall not exceed 18" with the exception of the ground to first step which shall not exceed NFPA standard of 24". Steps shall be illuminated for night time operation. The lights shall be activated by the parking brake. To aid in ascending and descending the access steps, handrails shall be provided on each side. The steps and handrails shall have LED lighting incorporated into each.

Comply with Section 3.18: YES _____ NO _____

Bidder Response Section 3.18:

3.19 Aluminum

All body compartments shall be fabricated of 1/8", 5052-H32, smooth aluminum plate. The complete body shall be fabricated using break and bend techniques to form strong yet flexible.

Comply with Section 3.19: YES _____ NO _____

Bidder Response Section 3.19:

3.20 Body Subframe

The main body sub frame shall be constructed from galvanized steel tubing. The sub frame shall be located at the front and rear of the body and in front and rear of the wheel well opening.

- a. The compartment area behind the rear axle shall be supported by a drop frame fabricated of steel tube and angles. All drop frame structures shall be welded directly to the torque box to allow the body to be a separate structure from the chassis

Comply with Section 3.20: YES _____ NO _____

Bidder Response Section 3.20:**3.21 Vertical Hinges**

All vertical hinges shall be designed as to prevent the hinge pin from coming loose and sliding up or down.

Comply with Section 3.21: YES _____ NO _____

Bidder Response Section 3.21:**3.22 Compartments Left Side****3.22.1 Compartment LO**

There shall be a compartment located above the front stabilizer on the left side of the apparatus body. This compartment shall be designated as LO. It shall be equipped with a single, horizontally hinged lift up, treadbrite door. The compartment shall be able to hold One (1) 8' Werner NXT1A08 Type IA fiberglass single sided step ladder. The compartment shall be transverse.

3.22.2 Compartment L1

A compartment shall be located above the front stabilizers on the left side of the apparatus body. This compartment shall be designated as L1. It shall be equipped with a single, horizontally hinged lift-up treadbrite door. Door Opening minimum 30" Wide x 15" High. The compartment shall be transverse. The compartment floor shall be lined with a poly type material to allow the stokes basket to slide in and out of the compartment.

3.22.3 Compartment L2

3.22.3.1 A compartment shall be located behind the front stabilizers on the left side of the apparatus body. This compartment shall be designated as L2. It shall be equipped with a single, vertically hinged swing out door. Door Opening minimum 20" Wide x 40" High. The compartment upper portion minimum 20" wide x 11" high shall have a usable depth of minimum 23" The compartment lower portion 20" wide x 29" high shall be transverse.

3.22.3.2 The entire 120/240-volt electrical system shall be installed in compliance with NFPA 1901 newest edition. This shall include all testing, labeling, wiring methodology, and dimensional requirements. Certification of compliance shall accompany the apparatus at the time of delivery.

3.22.3.3 There shall be a 120/240-volt load center incorporated into the 120/240-volt wiring system. The load center shall include adequate circuit breakers to protect the loads specified on this apparatus.

3.22.3.4 All 120/240-volt AC wiring shall be done in accordance with NFPA 1901 newest edition as well as nationally accepted electrical codes.

3.22.3.5 The compartment shall have branch circuit overcurrent protection in accordance with NFPA 1901 newest version. The load center shall be equipped with a non-GFI two pole main breaker when the six or more individual branch circuits are present. Over current protection devices shall be marked with labels to identify the function of the circuit they protect.

3.22.3.6 There shall be a FROG D provided with the generator. The FROG D shall automatically sense a generator signal and begin displaying information. The digital meter display shall constantly monitor and display voltage, frequency and current draw on two separate lines. The display shall be capable of displaying total accumulated run time hours when the MODE button is pressed. The information shall be stored in a non-erasable memory. The FROG display shall be located next to the load center in L-2.

3.22.4 Compartment L3

A compartment shall be located behind the front stabilizers on the left side of the apparatus body. This compartment shall be designated as L3. It shall be equipped with double vertically hinged swing-out doors. Door Opening minimum 35" Wide x 60" High. The compartment upper portion minimum 35" wide x 16" high shall be transverse. The compartment intermediate portion minimum 35" wide x 13" high shall have a

usable depth of minimum 23". The compartment lower portion minimum 35" wide x 29" high shall be transverse.

3.22.5 Compartment L4

There shall be a full height compartment located behind the front stabilizers on the left side of the apparatus body. This compartment shall be designated as L4. It shall be equipped with double, vertically hinged swingout doors. Door Opening - 35" Wide x 60" High. The compartment upper portion 35" wide x 16" high shall be transverse. The compartment intermediate portion 35" wide x 13" high shall have a usable depth of 23" The compartment lower portion 35" wide x 29" high shall be transverse.

3.22.6 Compartment L5

There shall be a full height compartment located behind the front stabilizers on the left side of the apparatus body. This compartment shall be designated as L5. It shall be equipped with double, vertically hinged swingout doors. Door Opening - 35" Wide x 60" High. The compartment upper portion 35" wide x 12" high shall be transverse. The compartment intermediate portion 35" wide x 35" high shall have a usable depth of 13.5" The compartment lower portion 35" wide x 13" high shall be transverse.

3.22.7 Compartment L6

There shall be a full height compartment located behind the front stabilizers on the left side of the apparatus body. This compartment shall be designated as L6. It shall be equipped with double, vertically hinged swingout doors. Door Opening minimum 35" Wide x 60" High. The compartment upper portion minimum 35" wide x 12" high shall be transverse. The compartment intermediate portion minimum 35" wide x 35" high shall have a usable depth of minimum 13.5" The compartment lower portion minimum 35" wide x 13" high shall be transverse.

3.22.8 Compartment L7

There shall be a compartment located in front of the rear trailer axle on the left side of the apparatus body. This compartment shall be designated as L7. It shall be equipped with a single, vertically hinged swing-out door. Door Opening minimum 26" Wide x 29" High. The compartment shall have a usable depth of minimum 20".

3.22.9 Compartment L8

There shall be a compartment located behind the rear trailer axle on the left side of the apparatus body. This compartment shall be designated as L8. It shall be equipped with a single, vertically hinged swing-out door. Door Opening minimum 32" Wide x 39" High. The compartment upper portion shall have a minimum usable depth of 13.5". The compartment lower portion shall have a minimum usable depth of 24".

3.22.10 Compartment L9

There shall be a compartment located in front of the rear trailer axle above compartment L7 on the left side of the apparatus body. This compartment shall be designated as L9. It shall be equipped with a single, horizontally hinged flip-down door. Door Opening minimum 24" Wide x 15" High. The compartment shall be transverse.

Comply with Section 3.22: YES _____ NO _____

Bidder Response Section 3.22:

3.23 Compartments Right Side

3.23.1 Compartment RO

There shall be a compartment located above the front stabilizer on the right side of the apparatus body. This compartment shall be designated as RO. It shall be equipped with a single, horizontally hinged lift up, treadbrite door. The compartment shall be able to hold One (1) 8' Werner NXT1A08 Type IA fiberglass single sided step ladder. The compartment shall be transverse.

3.23.2 Compartment R1

A compartment shall be located above the front stabilizers on the right side of the apparatus body. This compartment shall be designated as L1. It shall be equipped with a single, horizontally hinged lift-up treadbrite door. Door Opening minimum 30" Wide x 15" High. The compartment shall be transverse. The

- compartment floor shall be lined with a poly type material to allow the stokes basket to slide in and out of the compartment.
- 3.23.3 **Compartment R2**
A compartment shall be located behind the front stabilizers on the right side of the apparatus body. This compartment shall be designated as R2. It shall be equipped with a single, vertically hinged swing out door. Door Opening minimum 20" Wide x 40" High. The compartment upper portion minimum 20" wide x 11" high shall have a usable depth of minimum 23". The compartment lower portion minimum 20" wide x 29" high shall be transverse.
- 3.23.4 **Compartment R3**
A compartment shall be located behind the front stabilizers on the right side of the apparatus body. This compartment shall be designated as R3. It shall be equipped with double vertically hinged swing-out doors. Door Opening minimum 35" Wide x 60" High. The compartment upper portion minimum 35" wide x 16" high shall be transverse. The compartment intermediate portion minimum 35" wide x 13" high shall have a usable depth of minimum 23". The compartment lower portion minimum 35" wide x 29" high shall be transverse.
- 3.23.5 **Compartment R4**
There shall be a full height compartment located behind the front stabilizers on the right side of the apparatus body. This compartment shall be designated as R4. It shall be equipped with double, vertically hinged swingout doors. Door Opening minimum 35" Wide x 60" High. The compartment upper portion minimum 35" wide x 16" high shall be transverse. The compartment intermediate portion minimum 35" wide x 13" high shall have a minimum usable depth of 23" The compartment lower portion minimum 35" wide x 29" high shall be transverse.
- 3.23.6 **Compartment R5**
There shall be a full height compartment located behind the front stabilizers on the right side of the apparatus body. This compartment shall be designated as R5. It shall be equipped with double, vertically hinged swingout doors. Door Opening minimum 35" Wide x 60" High. The compartment upper portion minimum 35" wide x 12" high shall be transverse. The compartment intermediate portion minimum 35" wide x 35" high shall have a minimum usable depth of 13.5" The compartment lower portion minimum 35" wide x 13" high shall be transverse.
- 3.23.7 **Compartment R6**
There shall be a full height compartment located behind the front stabilizers on the right side of the apparatus body. This compartment shall be designated as R6. It shall be equipped with double, vertically hinged swingout doors. Door Opening minimum 35" Wide x 60" High. The compartment upper portion minimum 35" wide x 12" high shall be transverse. The compartment intermediate portion minimum 35" wide x 35" high shall have a usable depth of minimum 13.5" The compartment lower portion minimum 35" wide x 13" high shall be transverse.
- 3.23.8 **Compartment R7**
There shall be a compartment located in front of the rear trailer axle on the right side of the apparatus body. This compartment shall be designated as R7. It shall be equipped with a single, vertically hinged swing-out door. Door Opening minimum 26" Wide x 29" High. The compartment shall have a usable depth of minimum 20".
- 3.23.9 **Compartment R8**
There shall be a compartment located behind the rear trailer axle on the right side of the apparatus body. This compartment shall be designated as R8. It shall be equipped with a single, vertically hinged swing-out door. Door Opening minimum 32" Wide x 39" High. The compartment upper portion shall have a minimum usable depth of 13.5" The compartment lower portion shall have a minimum usable depth of 24"
- 3.23.10 **Compartment R9**
There shall be a compartment located in front of the rear trailer axle above compartment R7 on the right side of the apparatus body. This compartment shall be designated as R9. It shall be equipped with a single, horizontally hinged flip-down door. Door Opening minimum 24" Wide x 15" High. The compartment shall be transverse.

Comply with Section 3.23: YES _____ NO _____

*Bidder Response Section 3.23:***3.24 Compartment Scuff Platers**

Anodized aluminum angle scuff plates shall be installed in the bottom sill area of all major equipment carrying compartments to reduce paint damage from equipment. The scuff plates shall be attached using a permanent bonding double sided tape.

Comply with Section 3.24: YES _____ NO _____

*Bidder Response Section 3.24:***3.25 Sweep-Out Construction**

Compartment floors shall have a "sweep-out" design with the door opening threshold positioned lower than compartment floor, permitting easy cleaning of compartments.

Comply with Section 3.25: YES _____ NO _____

*Bidder Response Section 3.25:***3.26 Compartment Door Construction**

The lap type compartment doors shall be of double panel construction. The outer panel shall be fabricated of .190, 5052-H32 aluminum and the inner panel of .125, 3003-H14 aluminum. There shall be a heavy-duty automotive type extruded rubber molding installed on the overlap area of the doors to insure a weatherproof seal and prevent water from collecting in the door sills. All of the compartment doors shall have a polished stainless steel continuous hinge connected to both the body and the door with stainless steel bolts and nuts. The hinge pin shall be stainless steel with a minimum diameter of 1/4".

Comply with Section 3.26: YES _____ NO _____

*Bidder Response Section 3.26:***3.27 Compartment Locking Door Handles, Double Pan Doors**

Exterior door latches shall incorporate a polished LOCKING D-paddle handle with rotary style latch. For ease of operation, the D-handle opening shall be large enough to accommodate a gloved hand. There shall be a safety latch with striker plate included with the door handle assembly. No lock shall be installed on compartment where cab lift control is located.

Comply with Section 3.27: YES _____ NO _____

*Bidder Response Section 3.27:***3.28 Compartment Door Holders Gas Struts**

3.28.1 Gas strut with dampeners door holders shall be furnished on all vertically hinged, swing-open compartment doors to hold the door in either the fully open or partially closed position. The door holder shall close the door automatically when it is positioned past center or return the door to the fully open position if the center point is not reached and the door is released.

3.28.2 On compartments having double doors, the secondary door shall have a latch mechanism to secure the door when the primary door is opened

Comply with Section 3.28: YES _____ NO _____

Bidder Response Section 3.28:

3.29 Compartment Door Holders, Gas Struts

Gas strut with dampeners door holders shall be furnished on all horizontally hinged, lift-up compartment doors to hold the door in either the fully open or partially closed position and assist in raising it. The door holder shall close the door automatically when it is positioned past center or return the door to the fully open position if the center point is not reached and the door is released.

Comply with Section 3.29: YES _____ NO _____

Bidder Response Section 3.29:

3.30 Rear Compartment, Tiller

There shall be a compartment located at the rear of the apparatus. The compartment shall have a single horizontally hinged lift up door. The compartment shall extend in depth to the front of the torque box assembly and shall have a framework installed to hold the proper compliment of ladders and tools specified in sections 301.75 and 301.76.

Comply with Section 3.30: YES _____ NO _____

Bidder Response Section 3.30:

3.31 Storage Compartment, Rear, Below Torque Box Compartment T4

There shall be a compartment located at the rear of the apparatus below the torque box compartment. This compartment shall be designated as T4. The compartment shall have a horizontally hinged flip down door. Door Opening minimum 30" wide x 9" high. The compartment shall have a usable depth of minimum 72".

Comply with Section 3.31: YES _____ NO _____

Bidder Response Section 3.31:

3.32 Aluminum Tray(s) for Pike Pole Storage

There shall be four (4) aluminum tray(s) for storage of pike pole(s) installed in the storage compartment located below the torque box compartment. The following pike poles shall be supplied with the apparatus.

- a. Two (2) 6' Aluminum D-Handle Fiberglass Rubbish Hook, Nupla RH-6DA
- b. Two (2) 4' Aluminum D-Handle Fiberglass Ceiling & Wall Hook, Nupla CWH-4YDA

Comply with Section 3.32: YES _____ NO _____

Bidder Response Section 3.32:

3.33 Storage Compartment, Tiller, Right Side, Rear Compartment T3

There shall be a storage compartment located on the right rear of the tiller body. This compartment shall be designated as T3. The compartment shall have a vertically hinged treadbrite door with a pop latch. Door Opening minimum 9" wide x 18" high. The compartment shall have a minimum usable depth of 15". The compartment shall not have any venting into any other compartment as this compartment is designed for portable fuel storage.

Comply with Section 3.33: YES _____ NO _____

Bidder Response Section 3.33:

3.34 Storage Compartment, Tiller, Left Side, Rear Compartment T2

There shall be a storage compartment located on the left rear of the tiller body. This compartment shall be designated as T2. The compartment shall have a vertically hinged treadbrite door with a pop latch. Door Opening minimum 9" wide x 18" high. The compartment shall have a minimum usable depth of 15". There shall be a female air connection located in the compartment to allow for connecting an air hose.

Comply with Section 3.34: YES _____ NO _____

Bidder Response Section 3.34:

3.35 Door Handle, Locking Single Pan Lap Type Door

- 3.35.1 Exterior door latches shall incorporate a polished LOCKING D-paddle handle with rotary style latch. For ease of operation, the D-handle opening shall be large enough to accommodate a gloved hand.
- 3.35.2 Double doors shall utilize concealed rotary latches on the secondary door, actuated by a recessed stainless steel paddle handle. The door design shall not impede into the compartment opening when in the open position. The watertight door seal shall exceed the current KKK-1822 water infiltration standards.

Comply with Section 3.35: YES _____ NO _____

Bidder Response Section 3.35:

3.36 NFPA Step Requirements

All steps shall have a surface area of at least 35 square inches and shall be able to withstand a load of at least 500 pounds. Steps shall be provided at any area that personnel may need to climb and shall be adequately lighted.

Comply with Section 3.36: YES _____ NO _____

Bidder Response Section 3.36:

3.37 Stokes Basket Storage

Provisions shall be provided on the R1/L1 compartment for storage of one (1) Stokes Basket, and one backboard.

Comply with Section 3.37: YES _____ NO _____

Bidder Response Section 3.37:

3.38 Frame Ladder Storage (Inside Compartment)

Storage provisions shall be provided in a transverse compartment for the following ladder (s):

- a. One (1) 8' Werner NXT1A08 Type IA fiberglass single sided step ladder shall be provided with the apparatus. The ladder shall be stored in the RO compartment above the stabilizers.

Comply with Section 3.38: YES _____ NO _____

Bidder Response Section 3.38:

3.39 Compartment Venting

Each body compartment shall be properly vented in a manner that will reduce the amount of dirt and water that may enter the compartment. Venting shall be directly to the atmosphere rather than into another compartment, which would only spread moisture throughout the body rather than dissipate it. Additionally, each compartment shall be equipped with drain holes to allow standing water to exit.

Comply with Section 3.39: YES _____ NO _____

Bidder Response Section 3.39:

3.40 Ultra Stainless Screws

Stainless steel screws shall be provided throughout the body in locations such as overlays and other numerous hardware mounting locations.

Comply with Section 3.40: YES _____ NO _____

Bidder Response Section 3.40:

3.41 Stepping, Standing, Walking Surfaces

All exterior surfaces designated by the manufacturer as stepping, standing, or walking areas shall be constructed of Grip Strut or Textured Treadbrite and shall provide a highly slip resistant surface, even when the surface is wet. All interior surfaces designated by the manufacturer as stepping, standing, or walking areas shall be slip resistant when the surface is dry. The degree of slip resistance shall be in compliance with the intent of NFPA 1901 newest version. It is the desire of the fire department to purchase an apparatus that utilizes aluminum treadplate as an overlay of the main apparatus body structure. Aluminum treadplate may also be utilized in the construction of enclosure doors, lids and covers where applicable. Aluminum treadplate is not to be utilized as a main structural member of the apparatus body or pump enclosure.

Comply with Section 3.41: YES _____ NO _____

Bidder Response Section 3.41:

3.42 Walkways and Overlays

The running boards and walkways shall be constructed of structural sheet metal that is integral with the body. They shall be overlaid with aluminum tread plate material to provide a slip resistant surface, resulting in a full 1/4" thickness for maximum strength. Overlays shall be installed that are totally insulated from the apparatus with nylon shoulder washers that extend into holes in the body. Stainless steel cap nuts shall be employed where bolt ends may damage equipment or cause injury. After the apparatus is painted and the overlays are reinstalled, they shall be additionally sealed at the edges with a caulking compound.

Tread plate overlays shall be provided in the following areas:

- a. All walkways and running board
- b. The entire rear surface of the body below the tiller cab.
- c. Gooseneck portion of the tiller trailer.
- d. The top surface of the tiller trailer, bending over the outside edge to form a drip rail.
- e. The fifth wheel area of the tiller tractor forming a complete cover over the chassis frame.

Comply with Section 3.42: YES _____ NO _____

Bidder Response Section 3.42:

3.43 Mud Flaps

Two (2) mud flaps (black no writing) shall be installed on the apparatus to the rear of the wheel well. The mud flaps shall be a minimum of 3/8" thick to prevent "sailing".

Comply with Section 3.43: YES _____ NO _____

Bidder Response Section 3.43:

3.44 Rear Wheel Wells Tiller Trailer

The fenders shall be integral with the body sides and compartments with a seamless appearance. The fenders shall be fitted with bolt-in removable full circular inner liners in the wheel well area for ease of cleaning and maintenance.

Comply with Section 3.44: YES _____ NO _____

Bidder Response Section 3.44:

3.45 Rear Fenderettes

Two (2) stainless steel fenderettes shall be installed at the outboard edge of the rear wheel well area, one on each side. The fenderettes shall be bolted to the apparatus body using nylon washers to space them slightly away from the body to reduce build-up of road grime. The fenderettes shall be constructed of stainless steel that has been polished to a high-quality finish.

Comply with Section 3.45: YES _____ NO _____

Bidder Response Section 3.45:

3.46 Body Rub Rails

Rub rails shall be installed beneath the compartment doors to protect them from damage should the body be brushed or rubbed against another object. The rub rails shall be 3/16 inch aluminum channel, 2-1/2 inch x 1 inch. The rub rails shall be highly polished and then Bright Dip anodized. It shall be installed on the body utilizing non-corrosive nylon spacers and secured with stainless steel bolts. The outside edge of the rub rails shall be even with the fenderettes and bolt-on steps to prevent snagging.

Comply with Section 3.46: YES _____ NO _____

Bidder Response Section 3.46:

3.47 Two Rear Tow Eyes

There shall be two (2) chrome plated tow eyes installed at the rear of the apparatus. The tow eyes shall be bolted to a heavy-duty assembly that is welded to the torque box. The tow eyes shall have a 2-1/2" ID hole.

Comply with Section 3.47: YES _____ NO _____

Bidder Response Section 3.47:

3.48 Handrails, Grab Rails and Steps

Handrails shall be stainless steel tubing of not less than 1-1/4" in diameter covered with ribbed rubber grips. All railing shields and brackets shall be chrome plated, and bolted with stainless steel bolts. The lower bracket on all vertical handrails shall have a drain hole drilled in it at the lowest point. Handrails shall be provided in the following areas:

- a. Handrail(s) for left and right turntable access steps.
- b. Vertical handrail on left and right tiller cab access steps.

Comply with Section 3.48: YES _____ NO _____

Bidder Response Section 3.48:

3.49 Dri-Dek Tiles

There shall be Dri-Dek tiles provided with the apparatus. The tiles shall be black in color. When installed in compartments, yellow leading edges shall be provided.

Comply with Section 3.49: YES _____ NO _____

Bidder Response Section 3.49:

3.50 Shelving Channels

There shall be twenty (20) Strut channels installed in twenty (20) standard height compartment(s) for future shelves.

Comply with Section 3.50: YES _____ NO _____

Bidder Response Section 3.50:

3.51 Adjustable Shelves

There shall be twenty-five (25) adjustable shelves installed on the apparatus. The shelves shall be constructed of 3/16" aluminum sheet with 2" lips. The shelves shall have an abraded finish. The shelves shall be designed in such a manner that will allow liquids to readily drain when spilled. The shelves shall be installed in the EMS compartment supplied with the chassis cab.

Comply with Section 3.51: YES _____ NO _____

Bidder Response Section 3.51:

3.52 Roll Out Equipment Tray(s)

There shall be eight (8) rollout tray(s) installed on the apparatus. Each tray shall be provided with a SlideMaster™ model SM3-MP roller type assembly. The roller assembly shall have a rated capacity of 600lb distributed load, and shall have 100% extension capabilities. A mechanical lock assembly shall be provided to lock the tray in the extended position and the retracted position. The tray(s) shall be constructed of 3/16" aluminum sheet with 3" lips. The tray(s) shall have an abraded finish. The tray roller assembly shall have a power coated finish for added corrosion protection.

Comply with Section 3.52: YES _____ NO _____

Bidder Response Section 3.52:

3.53 Wheel Well Storage

3.53.1 There shall be a compartment on the right and left side in the rear wheel well area on the front side of the trailer axle. The compartment shall be able to accommodate two (2) 60-minute carbon fiber cylinders with valve (Scott Part # 804723-01). The compartment shall have drain holes towards the rear wall. The rear wall of the compartment shall have rubber padding to prevent damage when the bottle comes in contact with the wall. The compartment doors shall be vertically hinged, weather stripped and shall be painted to match the trailer.

3.53.2 There shall also be a compartment on the right and left side in the rear wheel well area on the rear side of the trailer axle. The compartment on the right side shall be able to accommodate two (2) 2.5-gallon pressurized water extinguishers. The compartment on the left side shall be able to accommodate a 20lb Ansul cartridge dry chemical fire extinguisher. The compartment doors shall be vertically hinged, weather stripped and shall be painted to match the trailer.

Comply with Section 3.53: YES _____ NO _____

Bidder Response Section 3.53:

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3.54 Ground Ladders, Tiller

- 3.54.1 All ground ladders, unless otherwise specified herein, shall be individually mounted vertically, side by side, on their beams, in a ground ladder storage compartment accessible from the rear of the trailer. The compartment shall be fully enclosed and shielded from underside road debris and moisture. All ladders shall be capable of being removed independently without removing another and shall be mounted according to length.
- 3.54.2 Each ladder shall be supported in four (4) continuous full length PTFE Teflon or approved equal UV resistant 3"x3" angle ways. The ladder ways shall have forward ladder stops, tapered pockets and hold down rollers and all ladder ends shall be even at the rear of the trailer when stowed.
- 3.54.3 A hinged locking gate with hold down rollers shall be provided for the vertically mounted ladders. Neoprene covered nylon or approved equal UV resistant rollers or nylon pads shall be provided as necessary in the compartment to protect the ladders from damage.
- 3.54.4 The access door to the torque box ladder storage compartment shall be constructed of smooth aluminum for overlay of Chevron reflective material. The ladder bay shall be able to hold the following ladder compliment:
 - a. Three (3) 10' folding attic ladders, Duo Safety 585A
 - b. Two (2) 16' roof ladders, Duo Safety 875A
 - c. One (1) 18' roof ladder, Duo Safety 875A
 - d. One (1) 20' roof ladder, Duo Safety 875A
 - e. Two (2) 28' two section extension ladders, Duo Safety 1200A
 - f. Two (2) 35' two section extension ladders, Duo Safety 1200A

Comply with Section 3.54: YES _____ NO _____

Bidder Response Section 3.54:

3.55 Pike Poles and Hooks

- Pike poles & hooks shall be stored in individual tubes within the torque box, adjacent to the ladders. The following fiberglass handled pike poles shall be supplied with the apparatus at the time of delivery:
- a. Two (2) 10' Fiberglass Pike Pole(s), Nupla YPD-10
 - b. One (1) 12' Fiberglass Pike Pole(s), Nupla YPD-12
 - c. One (1) 18' Fiberglass Pike Pole(s), Nupla YPD-18
 - d. Three (3) 6' Rubbish Hook(s), Nupla RH-6DA (Aluminum "D" Handle)
 - e. One (1) 4' Rubbish Hook(s), Nupla RH-4DA (Aluminum "D" Handle)
 - f. Two (2) 6' New York Roof Hook, Fire Hooks Unlimited
 - g. Two (2) 4' New York Roof Hook, Fire Hooks Unlimited

Comply with Section 3.55: YES _____ NO _____

Bidder Response Section 3.55:

3.56 Thermoplastic Coating

- In the designated areas, a Line X or equivalent system shall be used for maximum protection of the body and equipment. The system shall utilize flexible 100% solids applied with high pressure impingement-mix polyurethane dispensing equipment.
- a. The coating shall be a fast cure, textured surface, multi-purpose material designed for commercial and industrial applications. It shall exhibit excellent adhesion to the body and serve as a protective, abrasion resistant liner where applied.

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- b. The density of the material shall be a minimum of 70 PCF as measured using ASTM test method D-1622. The taber abrasion resistance shall be a minimum of 0.03% per 1000 cycles as measured utilizing ASTM test method D-4060.
- c. The minimum tensile strength as measured using ASTM D-2370 shall be 1540 pounds per square inch.

Comply with Section 3.56: YES _____ NO _____

Bidder Response Section 3.56:

3.57 Body Compartment Coating

The interior of the body compartments shall be coated with a gray thermo-plastic polyurethane coating. The coating shall be durable enough to withstand everyday abuse of equipment removal and shifting.

Comply with Section 3.57: YES _____ NO _____

Bidder Response Section 3.57:

3.58 Body Compartmentation Door Pans Coating

The body compartment door pans shall be constructed of stainless steel.

Comply with Section 3.58: YES _____ NO _____

Bidder Response Section 3.58:

3.59 Body Paint Preparation

After the body and components have been fabricated and assembled they shall then be disassembled prior to painting so when the apparatus is completed there shall be finish paint beneath the removable components. The apparatus body and components shall be metal finished as follows to provide a superior substrate for painting:

- a. All aluminum sections of the body shall undergo a thorough cleaning process starting with a phosphoric acid solution to begin the etching process followed by a complete rinse. The next step shall consist of a chemical conversion coating applied to seal the metal substrate and become part of the aluminum surface for greater film adhesion.
- b. After the cleaning process the body and its components shall be primed with a High Solids primer and the seams shall be caulked.
- c. All bright metal fittings, if unavailable in stainless steel or polished aluminum, shall be heavily chrome plated. Iron fittings shall be copper under plated prior to chrome plating.

Comply with Section 3.59: YES _____ NO _____

Bidder Response Section 3.59:

3.60 Paint Process

The paint process shall follow the strict standards as set forth by PPG Fleet Finish Guidelines. The body shall go through a three-stage paint process: Primer Coat, Base Coat (Color), and Clear Coat. In the first stage of the paint process the body shall be coated with PPG F3980 Low VOC I High Solids primer to achieve a total thickness of 2-4 mills. In the second stage of the paint process the body shall be painted with PPG FBCH Delfleet™ High Solids Polyurethane Base Coat. A minimum of two to three coats of paint shall be applied to achieve hiding. In the final stage of the paint process the body shall be painted with PPG DCU-2002 Clear Coat. A minimum of two to three coats shall be applied to achieve a total dry film thickness of 2-3 mills. As part of the curing process the painted

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body shall go through a Force Dry I Bake Cycle process. The painted components shall be baked at 185 degrees for 3 hours to achieve a complete coating cure on the finished product.

Comply with Section 3.60: YES _____ NO _____

Bidder Response Section 3.60:

3.61 Hand Polished

After the force dry I bake cycle and ample cool down time, the coated surface shall be sanded using 3M 1000, 1200, and or 1500 grit sandpaper to remove surface defects. In the final step, the surface shall be buffed with 3M Superduty compound to add extra shine to coated surface. No more than .5 mil of clear shall be removed in this process.

Comply with Section 3.61: YES _____ NO _____

Bidder Response Section 3.61:

3.62 Aerial Component Protection/Paint

All aerial device components above the rotation point that are not chrome plate bright aluminum treadplate or stainless steel shall be painted. All areas to be painted shall be sanded to remove any metal flakes and smooth any rough surfaces. All surfaces to be painted shall be phosphatized to remove metal impurities, aid paint adhesion and inhibit rust. The components shall be prime painted with a Low V.O.C. high solids non-isocyanate primer and finish painted with a Low V.O.C. extremely durable, single stage ultra-high solids high gloss polyurethane paint. The support structure and components below the rotation point shall be painted black.

The extending stabilizer beams, inner jack cylinder protective tubes, and stabilizer pads shall be hot dip galvanized as follows:

- a. The extending stabilizer beams, inner jack tubes, and stabilizer pads shall be wheel-a-braided to remove any mill scale, or contamination prior to galvanizing.
- b. Following this preparation, the individual components shall be hot dip galvanized. The galvanizing process shall require that the entire assembly be completely submerged. Following the galvanizing process, the surface shall be ground smooth to remove dross. This preparation shall provide maximum protection for these critical components. Following surface preparation, components shall be coated with Black water base self-etching coating. No Exceptions .
- c. To enhance durability and appearance, the high gloss polyurethane paint applied to the aerial ladder sections and other components above the rotation point, shall be cured at an elevated temperature for a period not less than 2 hours. The temperature shall not be less than 180 degrees F. Curing of the paint shall promote a chemical reaction within the substrate that shall harden the paint. The curing shall be performed in a clean, sealed, controlled atmosphere. The atmosphere shall comply with all environmental standards and any air entering the chamber shall be filtered.

Comply with Section 3.62: YES _____ NO _____

Bidder Response Section 3.62:

3.63 Aerial Device Paint Color

The aerial device shall be painted with PPG Delfleet polyurethane enamel paint. The color shall be (White) PPG# FOG -2185.

Comply with Section 3.63: YES _____ NO _____

Bidder Response Section 3.63:

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3.64 Aerial Ladder Egress Paint Color

The aerial ladder egress shall be painted with PPG Delfleet polyurethane enamel paint. The color shall be meet current NFPA recommendations.

Comply with Section 3.64: YES _____ NO _____

Bidder Response Section 3.64:

3.65 Aerial Torque Box Paint

The aerial torque box shall be painted with PPG polyurethane enamel paint. The color shall be (Black) PPG# MTK - 9000.

Comply with Section 3.65: YES _____ NO _____

Bidder Response Section 3.65:

3.66 Apparatus Body Color

The apparatus shall be painted with PPG polyurethane enamel paint PPG # FBCH-72626-ALT, color red.

Comply with Section 3.66: YES _____ NO _____

Bidder Response Section 3.66:

3.67 Touch-up Paint

here shall be three (3) paint sticks supplied per color with each apparatus for touch up.

Comply with Section 3.67: YES _____ NO _____

Bidder Response Section 3.67:

3.68 Reflective Lettering

- 3.68.1 There shall be thirty-eight (38) reflective letters provided and installed on the apparatus. The letters shall be approximately 3" tall with black outline and shadow.
 - a. "RIVERSIDE COUNTY"- Arched above door emblem
 - b. " FIRE" - Straight below door Emblem
- 3.68.2 There shall be sixteen (16) reflective letters provided and installed on the apparatus; The letters shall be approximately 6" tall with black outline and shadow. Lettering shall be installed on vehicle lettering mounting plates per County's direction.
- 3.68.3 There shall be reflective letters provided and installed on the aerial signs, left and right. The letters shall be approximately 12" tall with black outline and shadow.

Comply with Section 3.68: YES _____ NO _____

Bidder Response Section 3.68:

3.69 Custom Door Decals

There shall be a pair of custom door decals provided. The decals shall be installed as per the customer specifications at pre-paint inspection.

Comply with Section 3.69: YES _____ NO _____

Bidder Response Section 3.69:

3.70 Reflective "S" Ribbon

There shall be one (1) reflective "S" located in the reflective stripe on each side of the apparatus. The "S" portion of the stripe shall be shaded and highlighted to give it a ribbon effect.

Comply with Section 3.70: YES ___ NO ___

Bidder Response Section 3.70:

3.71 NFPA Compliant Reflective Striping

Reflective striping shall be applied to the exterior of the apparatus in a manner consistent with the National Fire Protection Association Pamphlet 1901, latest edition. It shall consist of a 6" wide stripe low across the front of the chassis and along the sides up to the first compartment on each side where it shall then angle up and back to a point above the wheel well area where it shall then run level to the back edge of the body. The reflective striping shall be white in color.

Comply with Section 3.71: YES ___ NO ___

Bidder Response Section 3.71:

3.72 Chevron Reflective Striping on Rear Torque Box Ladder Access Door

In addition to the custom striping pattern supplied on the apparatus, there shall be additional reflective striping applied to the torque box ladder access door on the rear of the apparatus. The striping shall consist of alternating 4" red and yellow reflective stripes applied in a "Chevron" pattern. Chevron reflective material shall be applied to the entire rear face of the trailer body (not the tiller box).

Comply with Section 3.72: YES ___ NO ___

Bidder Response Section 3.72:

3.73 Rub Rail Reflective Striping

There shall be 2" reflective striping installed in the rub rail channel. The reflective striping shall be diamond grade quality material for increased visibility. The reflective shall be silver in color.

Comply with Section 3.73: YES ___ NO ___

Bidder Response Section 3.73:

3.74 Paint Aerial Underside

The underside of the aerial shall be painted.

Comply with Section 3.74: YES ___ NO ___

Bidder Response Section 3.74:

3.75 Wheel Chocks & Mounting

There shall be two (2) pairs of Zico #SAC-44 wheel chocks provided with the apparatus. The chocks shall be mounted in Zico #SQCH-44-H mounting brackets in locations that are easily accessible under both the right and left sides of the body.

Comply with Section 3.75: YES ___ NO ___

Bidder Response Section 3.75:

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3.76 Third Party Certifications

- 3.76.1 All bids shall include copies of the certification of testing of the aerial device. The County desires a device that has been tested by a third party for compliance with the 2 to 1 safety factor specified by NFPA Pamphlet 1901, latest edition. Devices that have not been certified by an engineer that is independent of the manufacturer shall not be acceptable.
- 3.76.2 Welds shall be tested using two (2) Non-Destructive methods by a third-party inspection firm. Steel and aluminum ladders shall, at a minimum, have all welds tested using two (2) separate NOT methods.
- 3.76.3 Aerial structures shall have 100 % of all structural welds tested using both magnetic particle method and visual testing method. Aerials that are fabricated of aluminum shall have 100% of all structural welds tested using dye penetrant method and visual method. Manufacturers who rely only on visual inspection (performed in-house or by any third party) as a primary method of testing shall not be considered and their bid shall be rejected.

Comply with Section 3.76: YES _____ NO _____

Bidder Response Section 3.76:

3.77 NFPA Aerial Stability Factors & Testing

3.77.1 A one and one half to one (1.5:1) stability factor shall be provided. These capabilities shall be established in an unsupported configuration. Since the device is rated while flowing water, stability testing shall account for the distributed weight of water in a full waterway and water reactionary force as required by NFPA 1901. The following are specific descriptions of what tests are to be performed, and conditions they shall be performed under. The aerial manufacturer shall strictly adhere to these tests and conditions as set forth in these specifications and NFPA 1901, newest revision.

- a. For both of the following tests, the only obstructions to a full 360-degree rotation with the aerial at 0 degrees' elevation and full extension; shall be presented by the apparatus itself (if any), and NOT external obstructions at the manufacturer's test location(s). This shall mean that the aerial device manufacturer shall ensure that the testing grounds present no obstruction (trees, buildings, etc..) to the full 360-degree rotation at 0 degrees' elevation and full extension, which may cause the need to raise the aerial to clear the obstruction.
- b. Additionally, the apparatus shall be tested for stability only after the entire apparatus is complete. This requirement is specified in NFPA 1901 as the apparatus being in "service ready condition". There shall be No Exception to this requirement since it would be unlikely that actual weight distribution could be accurately simulated for the stability testing. "Counter weighting" shall not be allowed under any circumstance in place of the actual body and equipment.

3.77.2 Test One (1)

After the above conditions have been satisfied, the aerial shall be subjected to the following test in the presence of the third-party testing company that is in compliance with these specifications. Specifically, the aerial device shall be placed on level ground with the stabilizers deployed per manufacturer recommendations. The aerial device shall then have 1.5 times the rated capacity placed at the tip of the aerial, with the device at full extension and at 0 degrees' elevation; which is the most stringent configuration. The device shall be rotated 360 degrees, raising and lowering the aerial as needed to clear the cab of the apparatus. The aerial shall prove to be stable during the entire test and no component of the aerial shall permanently deform.

3.77.3 Test Two (2)

After the above conditions have been satisfied, the aerial shall be subjected to the following test in the presence of the third-party testing company that is in compliance with these specifications. Specifically, the aerial device shall be placed on a 5-degree downward slope with the stabilizers deployed per manufacturer recommendations. The aerial device shall then have 1.33 times the rated capacity placed at the tip of the aerial, with the device at full extension and at 0 degrees' elevation; which is the most stringent configuration. The device shall be rotated 360 degrees, raising and lowering the aerial as needed to clear

the cab of the apparatus. The aerial shall prove to be stable during the entire test and no component of the aerial shall permanently deform.

Comply with Section 3.77: YES _____ NO _____

Bidder Response Section 3.77:

3.78 Inspection Certificate (NFPA 1901 Compliance)

A third-party inspection certificate for the aerial device shall be furnished upon delivery of the aerial device. The purpose of this NFPA 1901 compliance inspection shall be to serve as proof to the customer that all applicable standards have been met or exceeded by the responsible aerial manufacturer. The following objectives shall be achieved as a result {this listing shall not be construed as being all inclusive):

- a. Ensure that understanding of all parties respective responsibilities have been addressed by the actual referencing of NFPA 1901 and the amendments in these specifications and the purchase contract and documentation.
- b. Ensure that only structural materials complying with appropriate standards and codes, are used for construction.
- c. Ensure that applicable standards of design and manufacture have been met or exceeded.
- d. Ensure that Safety Factors have been met or exceeded where required.
- e. Ensure that applicable standards for testing and inspection have been met or exceeded by personnel with the appropriate qualifications, experience, and certifications.
- f. Ensure that where applicable; components, equipment, and loose equipment carry the appropriate characteristics, classifications, and I or certifications.
- g. Ensure that in general and whole, all applicable requirements set forth in NFPA 1901, newest revision; and those codes, standards, and specifications referenced by said; are met, exceeded, and I or addressed.

Comply with Section 3.78: YES _____ NO _____

Bidder Response Section 3.78:

3.79 Illustrated Aerial Operation/Maintenance Manuals

Four (4) thumb drives and two (2) hard copies containing operation and maintenance manuals shall be provided at the time of delivery. These manuals shall be written in a "step by step" format for ease of reference.

- a. Information included in the manuals shall include, but no be limited to the following:
- b. Manufacturer Defined Terminology; {to help impart full understanding of terminology used in the manuals}
- c. Safety Information & Warnings; (to warn of dangerous conditions I personnel injury I equipment damage)
- d. Complete Rated Capacities Information; {allowable loads & GPM flows}
- e. Complete & Detailed Operating Systems Descriptions; (to impart understanding of operation I capabilities I working principles)
- f. Instruction for Manufacturer Recommended Deployment & Operation of All Systems During All Specific Conditions; {to ensure safer- more efficient operation of the aerial device) Current, Actual Illustrations of Aerial Components Throughout the Manual; (to aid in location of specific components, being addressed in the manual)
- g. Complete Maintenance Instructions I Methods I Materials /Intervals I And Inspections.

Comply with Section 3.79: YES _____ NO _____

Bidder Response Section 3.79:

3.80 Special Tools Package

Special tools required for periodic maintenance of the aerial device shall be provided with the apparatus at the time of delivery. These tools shall be as follows:

- a. One (1) 1/2" drive, torque wrench
- b. One (1) 1/2" drive, 15/16" socket
- c. One (1) combination 1/2" x 9/16" box end wrench

- d. One (1) set of allen wrenches (5/64", 3/32", 1/8", 5/32", 3/16", 7/32", 1/4")
The special tools package above shall be provided as standard equipment by the aerial manufacturer.

Comply with Section 3.80: YES _____ NO _____

Bidder Response Section 3.80:

3.81 Manual Rotation Drive Tool

As required by NFPA 1901, newest revision, one (1) manual rotation drive tool shall be provided to rotate the turntable in the unlikely event of power loss. This drive tool shall be provided as standard equipment, and shall not be "optional" equipment.

Comply with Section 3.81: YES _____ NO _____

Bidder Response Section 3.81:

3.82 Aerial Device Instruction Provided

3.82.1 A factory authorized aerial apparatus engineer shall instruct the fire department personnel in the safe operation and maintenance of the entire apparatus. The instruction shall last for a period of five (5) days. During the instruction period, users shall observe operation of the aerial device as well as themselves operating it. Instruction/demonstration shall take place covering the following items (this list is not intended to be all inclusive).

- a. Aerial rated load capacity /load minder.
- b. Acceptable aerial operational performance parameters and characteristics.
- c. Proper aerial device deployment conditions.
- d. Safety during aerial operations.
- e. Aerial device care and maintenance.
- f. Use of the operation and maintenance manuals.

3.82.2 The instruction period and content shall be so designed to provide department personnel with basic fundamental aerial training as recommended by the aerial manufacturer. This training period may include a "classroom" type of instruction as well as "hands-on" training of the apparatus. Training aids utilized by the instructor, which are to be considered in addition to the operations and maintenance manuals are encouraged. Upon completion of the training course, all attendees will have been provided the proper instructional training, which shall provide the operational knowledge necessary in order to feel comfortable with the aerial operations and continue additional training as set forth by the department training officer.

Comply with Section 3.82: YES _____ NO _____

Bidder Response Section 3.82:

3.83 Twenty Year Aerial Warranty

The aerial device shall have a twenty (20) year warranty, parts and labor. The warranty shall be provided with the apparatus at the time the apparatus is placed in service by Riverside County Fire.

Comply with Section 3.83: YES _____ NO _____

Bidder Response Section 3.83:

3.84 Aerial Corrosion Protection

3.84.1 The majority of the internal structural members of the aerial structure shall be 100% concealed from oxygen. Totally concealed members are not subject to the possibility of corrosion attacking the metal from the interior. Structural tubing of the aerial structure that contains drilled holes or is exposed to outside air

and elements shall be protected to eliminate the possibility of corrosion occurring from the inside of the tube.

- 3.84.2 The interior of exposed tubing shall be coated with a compound labeled NWAC 120-4. The application of the coating shall be applied after the welding process of the aerial structure is complete and shall cover 100% of the interior of the structural tube.
- 3.84.3 NWAC 120-4 is an effective cavity corrosion inhibitor that provides long-term protection for both ferrous and non-ferrous metals. The resulting water-repellant, flexible, air-dried film has a remarkable crevice penetrating, spreading and clinging characteristic. The product dries to a nearly transparent film and provides maximum corrosion protection for all void spaces subject to humidity and condensation.
- 3.84.4 Use of this process shall constitute a 20-year internal corrosion warranty for the aerial structure.

Comply with Section 3.84: YES _____ NO _____

Bidder Response Section 3.84:

3.85 NFPA Safety Factor and Rated Capacities

The methodology, definitions, testing, and criteria used by the aerial manufacturer to determine the preceding and following Safety Factor and Rated Capacity of the aerial device shall be in strict compliance with the definitions of such, as found in NFPA 1901, newest edition and these specifications.

Comply with Section 3.85: YES _____ NO _____

Bidder Response Section 3.85:

3.86 Aerial Device Safety Factor & Rated Capacity

The County desires to purchase with these specifications, an aerial device with a minimum 2.0:1 Safety Factor as required and defined by NFPA 1901 newest edition. Therefore, the aerial manufacturer shall hereby certify, by submitting a bid for these specifications; that the aerial device meets or exceeds the following requirements. The design stress or primary stress within all structural load supporting members of the aerial device shall not exceed 50% of the minimum as welded yield strength of the material based on the combination of the dead load of the aerial + the rated capacity of 750 LBS. at the tip of the aerial; at a 90 degree angle to ladder centerline; with the structural load supporting members of the aerial device at either; an ambient temperature of 75 degrees F or an elevated temperature of 350 degrees F- thereby exhibiting a minimum 2.0:1 Safety Factor in all feasible operational conditions. These capabilities shall be valid and true when the apparatus is deployed in the unsupported configuration, based upon 360 degree rotation, up to full extension, and at any degree of elevation (-11 to +72) that the aerial can achieve.

Comply with Section 3.86: YES _____ NO _____

Bidder Response Section 3.86:

3.87 Aerial Device Safety Factor Service Life

The County desires to purchase with these specifications, an aerial device with a safety factor that remains NFPA compliant and constant throughout the life of the aerial device. The Safety Factor of every structural load bearing member in the aerial device shall remain above 2.0:1 for a "Safety Factor Service Life" of up to 20 years minimum.

Comply with Section 3.87: YES _____ NO _____

Bidder Response Section 3.87:

3.88 Tiller Aerial Construction Standards

- 3.88.1 The aerial ladder shall be of the mid mount design with the turntable mounted directly behind the cab of the apparatus, and the ladder extending toward the rear of the apparatus when in the bedded position.
- 3.88.2 The aerial ladder shall be comprised of four sections and shall extend to a nominal height of 100' at 72 degrees, measured in a vertical plane from the top rung of the fly section (not including the egress) to the ground.

Comply with Section 3.88: YES _____ NO _____

Bidder Response Section 3.88:

3.89 Operational Envelope/Reach

The aerial ladder shall have an operations range of -5 degrees elevation to +72 degrees elevation. The aerial device shall have a minimum horizontal reach of 100' and shall be measured from the turntable centerline to the outermost rung on the outermost fly section, with the aerial at full extension and at 0 degrees elevation. Reach and height shall be measured in accordance with the requirements set forth in NFPA 1901, latest edition.

Comply with Section 3.89: YES _____ NO _____

Bidder Response Section 3.89:

3.90 Structural Material

- 3.90.1 The primary load support members of the ladder shall be constructed of certified 70,000 PSI yield strength (minimum) steel tubing. Each section shall be trussed diagonally, vertically, and horizontally using welded steel tubing. All critical points shall be reinforced for extra rigidity and to provide a high strength to weight ratio.
- 3.90.2 All ladder rungs shall constructed of A606 Type 4 certified steel tested per ASTM A370 standards. A606 Type 4 exhibits superior corrosion resistance over regular carbon steel as a result of the development of a protective oxide film on the on the surface. A606 Type 4 shall meet a minimum 6.0 Atmospheric Corrosion Factor. The ladder rungs shall be round and welded to each section utilizing "K" bracing for torsional rigidity.

Comply with Section 3.90: YES _____ NO _____

Bidder Response Section 3.90:

3.91 Lifting Eyes

Two (2) lifting eyes will be provided at the end of the ladder fly section. The lifting eyes will give the fire department the capabilities to perform short haul and high point rescuer systems from the ladder fly section. The lifting eyes shall be third party tested and certified with the device for a minimum capacity of 250lbs each. The rating will include a 2:1 safety factor. The lifting eyes shall not be mounted onto the egress section at the tip of the ladder.

Comply with Section 3.91: YES _____ NO _____

Bidder Response Section 3.91:

3.92 Primary Dimensions

- 3.92.1 The inside dimensions of the ladder shall be as follows: (Minimum width)
 - a. Base Section – 42.25”
 - b. First Fly Section – 34”
 - c. Second Fly Section – 27.50”
 - d. Last Fly Section - 22”
- 3.92.2 The height of the handrails above the center line of the rungs shall be as follows: (Minimum height)

- a. Base Section - 29.25"
- b. First Fly Section – 24"
- c. Second Fly Section – 20.25"
- d. Last Fly Section – 17.25"

Comply with Section 3.92: YES _____ NO _____

Bidder Response Section 3.92:

3.93 Rung Coverings

Each rung shall be covered with secure, heavy duty, deep serrated rubber sheathing. Attachment of the sheathing to the rung shall be by mechanical means and an adhesive application. Under no circumstance shall the rung covers turn when a rung is at ambient temperature (75 degrees F) or at an elevated temperature (350 degrees F); there shall be No Exception to this requirement for the safety of persons climbing the ladder sections. The sheathing shall be easily replaceable if the rubber becomes worn, however the rung covers shall be designed, constructed, and installed with lifetime service as the objective.

Comply with Section 3.93: YES _____ NO _____

Bidder Response Section 3.93:

3.94 Bolt-on Egress

- 3.94.1 A bolt on removable egress shall be installed on the tip of the fly section. Only certified structural fasteners shall be utilized to attach the egress to the tip of the fly section. Additionally, the fasteners shall be stainless steel. This design shall allow for easy replacement should the egress become damaged during rescue operations. This shall prevent the department from experiencing serious downtime, as is common with welded on egresses. For this reason, a design that allows the egress to be welded to the fly section shall not be acceptable.
- 3.94.2 When the ladder is at 0 degrees' elevation, the rung(s) on the egress shall be on a plane of -11 degrees. This shall provide a smoother transition onto the ladder when it is at a high angle elevation.
- 3.94.3 Additionally, the egress shall have handrails that match the fly section handrails for an unnoticeable transition between the two. The egress handrails shall have a radius design at the tip to eliminate two comer joints, increase strength, and provide a professional appearance.
- 3.94.4 The rung(s) on the egress shall be held to the same design load criteria as the rungs of the aerial ladder sections. This shall mean that each egress rung shall be able to support a design load of 750 lbs. Minimum, distributed across the rung, as specified in NFPA 1901, newest revision. This shall be more than that required by the afore mentioned standard. No Exceptions shall be allowed to this requirement.
- 3.94.5 The bolt on egress color shall meet current NFPA requirements.

Comply with Section 3.94: YES _____ NO _____

Bidder Response Section 3.94:

3.95 Turntable

The turntable shall be designed in such a manner as to allow a generous working area, regardless of the position of the aerial. The turntable shall allow ample working room, within the perimeter hand-rail with the aerial positioned at maximum elevation. The turntable shall also be designed to allow for the most efficient use of space on the apparatus body as follows:

- a. The turntable shall be a minimum of 95" side to side and 95" forward to aft. It shall be covered with Treadbrite decking to allow the walking surface to shed liquids with unparalleled ease and comply with NFPA intent, so as to provide secure footing for the operator in all weather conditions.

- b. A downward lip shall "skirt" the turntable decking around the entire circumference to provide protection from hazards.
- c. The three handrails shall each be of one piece construction and provide large sweep corners at the edge of the turntable. Each shall be 42" high and be covered with deeply serrated rubber sheathing for maximum grip in all environments. The handrails shall be installed around the rear 180 degree perimeter of the turntable for operator and personnel safety. Each individual handrail shall be secured to the turntable by the use of two (2) minimum 5/8" anchor bolts on the underside of the turntable. Additionally, chrome plated stanchions with rubber gaskets shall be provided on the top surface of the turntable where each railing meets the decking surface.
- d. A stainless-steel swing arm which swings inward and upward shall, be installed in the two gaps between the handrails. These swing arms shall be permanently attached at one end.
- e. All hoses and electrical lines shall be routed under removable covers so they do not present a tripping hazard. The covers shall also be designed to prevent damage from occurring to these components. Likewise, the center of the turntable shall have a removable step cover to prevent tripping hazards as well as provide for easier transition to the first rung of the aerial ladder.

Comply with Section 3.95: YES _____ NO _____

Bidder Response Section 3.95:

3.96 Aerial Pivot Pins

The aerial device pivot pins shall be located on the turntable and shall attach the aerial device base section to the turntable. To maintain a suitable safety factor, the pivot pins shall be composed of certified structural steel, thereby ensuring structural integrity. In the interest of safety, the pivot pins shall be located as low as possible, and shall be at the aerial device base rails. This shall keep the pivot points away from the areas where persons egressing to and from the aerial base section, might place their hand(s). Aerial pivot pins shall be installed with a means provided to keep the pins in place. The design shall not inhibit the pins from being removed by a trained mechanic.

Comply with Section 3.96: YES _____ NO _____

Bidder Response Section 3.96:

3.97 Turntable Work Lighting

The turntable shall be lighted for night time operation as follows:

- a. Minimum of three (3) LED work lights which shall be automatically activated by the aerial master switch (day or night). The work lights shall be so positioned that the light shall be directed toward the decking.
- b. The lights shall have integral chrome hoods to keep light from glaring upward into the operator's eyes.
- c. An additional light shall be recess mounted in the front access door of the control stand.
- d. The turntable shall have LED strip lighting incorporated into the handrailing. The handrail lighting shall come on with the battery switch in the "ON" position and shall turn off when the parking brake is released.

Comply with Section 3.97: YES _____ NO _____

Bidder Response Section 3.97:

3.98 Fly Section Folding Steps

The fly section on the aerial shall have two (2) sets of folding steps incorporating toe stops with a 2" flange and no-skid surface. The steps shall be installed approximately 42" and 70" below the top rung. When deployed, the stepping surfaces shall be perpendicular to the ladder base section. The steps shall be as large as design shall permit but far enough apart to allow clearance for a charged 3" water hose. The steps shall be easily foot actuated by a firefighter wearing turnout boots.

Comply with Section 3.98: YES _____ NO _____

Bidder Response Section 3.98:

3.99 Aerial Tip Floodlights

Two (2) Federal COMLS15K-NH LED floodlights shall be provided, one (1) light to be mounted on the left and right tip of the ladder. Each light shall be provided with a switch and operated independently from the turntable. Provide impact guards whenever lights are susceptible to damage from roof operations.

Comply with Section 3.99: YES _____ NO _____

Bidder Response Section 3.99:

3.100 Heavy Duty Ladder Travel Support

A heavy-duty ladder rest shall be provided for support of the ladder in the travel position. The travel support shall be fabricated from heavy duty steel tubing. The travel support shall be designed to be easily removable to allow for ease of maintenance and repair when necessary. The base section of the ladder shall contain stainless steel scuff plates shall where the ladder comes into contact with the ladder support. An indicator light shall be provided on the turntable to indicate when the ladder is aligned with the travel support and may be lowered into it. The ladder rest shall be attached to the torque box for added stability. The ladder rest shall be illuminated for night time operation. The illumination light shall automatically turn on with the aerial master switch.

Comply with Section 3.100: YES _____ NO _____

Bidder Response Section 3.100:

3.101 Bed Zone Indicators

There shall be fixed bed zone indicators mounted on the deck and the turntable.

Comply with Section 3.101: YES _____ NO _____

Bidder Response Section 3.101:

3.102 Ladder Hold-Down Mechanism

There shall be a hold-down mechanism install on each side of the ladder travel support that shall keep the aerial structure from bouncing and banging due to road hammer. The system shall be designed in such a manner as to automatically unlatch the hold-downs when the aerial hydraulic system is activated. The hold-downs shall automatically lock in the road position when the hydraulic system is shut down.

Comply with Section 3.102: YES _____ NO _____

Bidder Response Section 3.102:

3.103 Elevation System

3.103.1 Two (2) double acting lift cylinders shall be utilized to provide smooth precise elevation from 5 degrees below horizontal to 75+ degrees above horizontal. The lift cylinders shall have a 6" internal diameter (bore) and a 2.5" solid cylinder rod. The lift cylinders shall be equipped with integral holding valves located on the cylinder to prevent the unit from lowering should the charged lines be severed at any point within the hydraulic system.

3.103.2 The lowering of the ladder shall be controlled by a pressure limiting valve so as to limit the downward pull of the ladder when it is bedded. Both raising and lowering functions shall be influenced by flow

compensation which shall maintain ladder tip speed within the design speed regardless of load, angle, or extension. Ladder tip speed shall be decelerated above 65 degrees in order to reduce "tip-lash". Ladder lowering shall be controlled on the down motion to prevent the cylinders from completely retracting, thus allowing a cushion of oil for continuous ladder load readout.

- 3.103.3 Elevation cylinder upper and lower pivot pins shall be installed with a means provided to keep the pins in place. The design shall not inhibit the pins from being removed by a trained mechanic.

Comply with Section 3.103: YES _____ NO _____

Bidder Response Section 3.103:

3.104 Extension/Retraction System

3.104.1 A full hydraulic powered extension and retraction system shall be provided using two sets of siamese hydraulic cylinders and cables. Each set shall be capable of operating the ladder in the event of a failure of the other. The extension cylinders shall each have a 3.5" internal diameter (bore) and a 1.5" diameter solid rod. Extension and retraction of the telescopic sections shall be internally limited within the cylinders, eliminating excess strain on the cables, sheaves, and ladder structure. Each of the cylinder, cable, and sheave assemblies shall be completely independent of the other, so as provide a safety factor wherein a failure of one assembly will not affect the function and operation of the other. The extension cylinders shall be equipped with counter balance holding valves to synchronize the cylinders for smoother operation and prevent the unit from retracting should the charged lines be severed at any point within the hydraulic system.

3.104.2 The reeling of the cable shall be such as to provide synchronized, simultaneous movement of all sections from full extension to full retraction. All pulleys and sheaves shall be enclosed as an added safety feature as well as to prevent personnel on the ladder from becoming entangled in them.

Comply with Section 3.104: YES _____ NO _____

Bidder Response Section 3.104:

3.105 Certified Cable Swaged Shackles

All swaged shackles ends shall have a certification test from the manufacturer of the assembly.

Comply with Section 3.105: YES _____ NO _____

Bidder Response Section 3.105:

3.106 Wear Pads/Bearing Surfaces

3.106.1 Nylon wear pads impregnated with molybdenum disulfide and high in molecular weight shall be used between the telescoping sections for maximum weight distribution, strength, and smoothness of operation. This impregnation shall provide a lubricating function. Stainless steel adjustment screws shall be provided on the wear pads to permit proper side tension.

3.106.2 Stainless steel adjustment screws shall be provided on the wear pads to permit proper side tension. Plates shall be installed on the side(s) of the slide pads where adjustment screws come into contact with them. No Exceptions shall be allowed to this requirement to keep the adjustment screws from embedding themselves into the pads which may cause the pad to crack and fail. The manufacturer shall provide one (1) set of replacement wear pads.

Comply with Section 3.106: YES _____ NO _____

Bidder Response Section 3.106:

3.107 Retraction Safety System

An integral part of the extension/retraction system shall be a safety system to prevent injury to personnel on the end of the fly section while the ladder is being retracted. This system shall be designed in such a manner as to prevent retraction of the aerial device any time the folding steps at the end of the fly section are in overlap with the rungs of another section. When the steps are in an overlap condition, retraction shall only be accomplished by an operator at the primary control station depressing and holding a momentary switch while the retraction control is operated.

Comply with Section 3.107: YES _____ NO _____

Bidder Response Section 3.107:

3.108 Rotation Bearing

- 3.108.1 A 44-inch diameter external tooth, swing circle bearing shall be used for the rotation system. The bearing shall provide 360-degree continuous rotation. The bearing shall be designed specifically for the aerial device in lieu of the aerial device being designed to accommodate a particular bearing.
- 3.108.2 The turntable shall be bolted to the bearing using forty (40), SAE grade 8, .625" diameter bolts. The bearing shall be bolted to the base support structure with sixty (60), Grade 8, .625" diameter bolts. Welding on the bearing in any manner shall not be acceptable.
- 3.108.3 The turntable base and the torque box bearing plate surfaces that contact the bearing shall be machined to prevent loading the bearing when the attaching bolts are brought to full torque. Machining of the surfaces shall be done after all welding to assure no further distortion of the material.
- 3.108.4 Shims shall not be acceptable as they shall reduce the surface contact area significantly thereby causing a concentration of forces at the shims.

Comply with Section 3.108: YES _____ NO _____

Bidder Response Section 3.108:

3.109 Bolt Torquing From Top Side

All rotation bearing bolts shall be able to be torqued from the top side of the turntable without the bolt or nut being held under the turntable by a person. This shall require a design that shall stop all chance of the bolt "spinning" while torque is being applied to the fastener. Application of Loctite or a similar compound alone, without any other means provided to hold the fastener; shall not be acceptable. Additionally, this design feature shall not incorporate drilling, bending, welding on, or in any way; modifying the structural fastener, nut, or washers.

Comply with Section 3.109: YES _____ NO _____

Bidder Response Section 3.109:

3.110 Rotation Gear Reduction Box

- 3.110.1 A hydraulically driven planetary gear box with a drive speed reducer shall be used to provide infinite and minute rotation control throughout the entire rotational travel. The Rotation gear reduction box shall be installed on the top side of the turntable so that it is easily accessible, yet it shall be installed so that it does not provide an obstruction or tripping hazard to persons on the turntable. Specifically, it shall be installed toward the front of the turntable, under the aerial ladder base section. Under no circumstance shall the gear box present any interference with the aerial device, even at low elevations.
- 3.110.2 A spring applied, hydraulically released disc type swing brake shall be furnished to provide positive braking of the turntable assembly.
- 3.110.3 Provisions shall be made for manual operation of the rotation system should complete loss of hydraulic power occur. These provisions shall include a hand crank supplied with the unit.

- 3.110.4 The hydraulic system shall be equipped with pressure relief valves which shall limit the rotational torque to a nondestructive power. All moving parts of the rotation gear reduction box shall be enclosed or under the turntable decking so that no safety hazards are present.

Comply with Section 3.110: YES _____ NO _____

Bidder Response Section 3.110:

3.111 Rotation Interlocking System

- 3.111.1 The aerial device shall be equipped with a rotation interlock system to prevent the ladder from being rotated to any side where the stabilizers are not sufficiently extended to provide for the full tip load rating.
- 3.111.2 The system shall monitor the stabilizers for extension. When a stabilizer is not sufficiently extended (short jacked) to provide full tip load rating, the system shall prevent the aerial from being rotated more than 12 degrees past the front or rear centerline into the short-jacked side of the apparatus.
- 3.111.3 Once activated, the system shall prevent the aerial from being rotated past the front or rear corner of the apparatus where a stabilizer is not properly deployed.
- 3.111.4 A slowdown feature shall be built into the rotation interlock system. When the aerial is operating in a short-jacked mode, the rotational speed shall be automatically reduced, by approximately 50%, when the aerial is rotated to within approximately 10 degrees of the front or rear centerline of the apparatus. The rotational speed shall remain reduced throughout an arc of approximately 20-degrees over the front or rear of the apparatus, regardless of the direction of the rotation movement.
- 3.111.5 The rotation function shall automatically stop when the aerial approaches the front or rear corner area of the short-jacked side of the apparatus.
- 3.111.6 The rotation interlock system shall allow for normal operation on the side of the apparatus where the stabilizers are sufficiently extended for full tip load rating.
- 3.111.7 Whenever the manual override is activated and aerial is rotated into the short-jack side of the apparatus, the rotation speed shall be automatically reduced by approximately 50%. All secondary controls, other than those on the main pedestal, shall be locked out and become inoperative when the rotation interlock override is activated.

Comply with Section 3.111: YES _____ NO _____

Bidder Response Section 3.111:

3.112 Apparatus Body Damage Control Interlock System

- 3.112.1 A safety feature shall be included in the aerial operational system that minimizes the possibility of damage to the apparatus body at all angles for all standard (non-override) operational modes.
- 3.112.2 The system shall automatically stop the downward movement of the aerial at a preset angle of elevation unless the aerial has been rotated left or right, from the center of the ladder support. Once this rotation point is reached, full range downward movement (to minus 8 degrees) shall be allowed.
- 3.112.3 The aerial manufacturer shall determine and set the angle of elevation where downward aerial movement is stopped. The highest point of an apparatus, in relation to the distance from the turntable, shall be used to determine the preset elevation angle stopping point.
- 3.112.4 The system shall also minimize the possibility of accidental damage to the apparatus body from aerial rotation whenever the aerial elevation is below the preset elevation angle stopping point.
- 3.112.5 Rotational speed shall be reduced by approximately 50% when the aerial is rotated to within a minimum of 10 degrees of a body avoidance stopping point. Aerial rotation shall automatically stop before the aerial contacts the body of the apparatus.
- 3.112.6 The body damage interlock system shall have no effect on aerial operation when the aerial is raised above the preset downward movement stopping point.

Comply with Section 3.112: YES _____ NO _____

Bidder Response Section 3.112:

3.113 Aerial Stow Operation Interlock System

A safety feature shall be included in the aerial operational system that limits the possibility of damage to the apparatus when stowing the aerial. The stow-zone shall be approximately 2-degrees of rotation to the left and right side of the center of the aerial bed support. Once this stow-zone envelope is attained and aerial is fully retracted, downward movement of the aerial shall be allowed for proper positioning into the bed-support. An indicator light shall be located at the turntable control station to inform the aerial operator when the stow-zone envelope is attained.

Comply with Section 3.113: YES _____ NO _____

Bidder Response Section 3.113:

3.114 Torque Box

A "torsion box" sub-frame shall be installed on the tiller trailer frame rails, integral with the stabilizers. The torque box shall be constructed of .375" steel plate with the exception of the turntable area which shall be .50" steel plate. The standard dimensions of the torque box shall be 43" wide x 26" high x 248" long, these dimensions may vary. The torque box sub-frame assembly shall be capable of withstanding all torsional and horizontal loads when the unit is on the stabilizers. The torque box shall be bolted in place to the chassis frame rails using twenty-four (24) .62" SAE grade 8 bolts with nuts. The torque box shall have a section modulus of 516.9 In³ and a resistance to bending moment of 18,611,273 inch pounds.

Comply with Section 3.114: YES _____ NO _____

Bidder Response Section 3.114:

3.115 Front Stabilizers, Tiller

- 3.115.1 One (1) set of stabilizers shall be installed for stability. The set of stabilizers shall have a minimum of 16' spread and shall be of an Extending Box Beam "H" Style.
- 3.115.2 The stabilizers shall be located in the forward section of the tiller trailer. The stabilizers shall be an integral part of the torque box. A heavy-duty undersling assembly shall attach the stabilizers to the front portion of the torque box. The undersling assembly shall be constructed of 6" x 10" x 1/2" square tubing, 1/4" & 3/8" steel gussets and 1/2" mounting plates. The overlap of the undersling and the torque box shall be a minimum of 24". The bottom side of the tubes shall contain a truss assembly that shall maximize the torsional strength of the undersling assembly.
- 3.115.3 The stabilizers and torque box shall be attached to the trailer frame in six (6) separate locations, three (3) each side of the apparatus, utilizing 1/2" steel plate. The mounting plates shall be located directly under the front stabilizers utilizing eight (8) grade 8 .625" size bolts per side and under the front torque box area utilizing six (6) grade 8 .625" bolts per side.
- 3.115.4 The stabilizers shall be of the double box tube design with jack cylinders that have a 5" internal diameter (bore) and a 2.5" diameter solid cylinder rod. The jack cylinders shall be equipped with integral holding valves which shall hold the cylinders either in the stowed or the working position should a charged line be severed at any point within the hydraulic system.
- 3.115.5 Vertical jack cylinder rods shall be fully enclosed by a telescoping inner box to protect the cylinder rods, seal glands and pistons against damage from nicks, abrasion, and chrome damage. All vertical stabilizer cylinders shall be removable through the top of the box tube. Vertical stabilizers that require cylinders to be removed from the bottom shall not be acceptable. The inner double box system shall be further designed to stabilize the column load imparted upon the cylinder rod, thereby also protecting against damage which may occur from lateral loading which may be caused by side slopes, shifting or sliding of

the apparatus on icy or unstable surfaces, sudden sinking of one or more jack pads, or on scene collision while the aerial device is deployed.

- 3.115.6 The stabilizers shall be connected to the hazard light circuit to warn the driver if they are not stowed when the parking brake is released.

Comply with Section 3.115: YES _____ NO _____

Bidder Response Section 3.115:

3.116 Stabilizer Stroke

The stroke of the stabilizers shall be a minimum of 25". The stabilizer pad shall be maintained at a stored height of approximately 12" to 15" (dependent on required ground clearance and angle of departure) resulting in a minimum ground penetration of 10" or greater.

Comply with Section 3.116: YES _____ NO _____

Bidder Response Section 3.116:

3.117 Hot Dip Galvanizing

The extending front stabilizer beams, inner jack tubes, and stabilizer pads shall be wheel-a-braided to remove any mill scale, or contamination prior to galvanizing. Following this preparation, the individual components shall be hot dip galvanized. The galvanizing process shall require that the entire assembly be completely submerged. Following the galvanizing process, the surface shall be ground smooth to remove dross. This preparation shall provide maximum protection for these critical components. No exceptions shall be allowed to this requirement due to stabilizers being exposed to salt spray and road debris.

Comply with Section 3.117: YES _____ NO _____

Bidder Response Section 3.117:

3.118 Stabilizer Extension System

Extension of the stabilizer horizontal beams shall be activated by dual extension cylinders which shall each have a 2" internal diameter (bore) and a 1.25" diameter cylinder rod. The extension cylinders shall be totally enclosed within the extension beams to prevent damage to the rod and hoses. The extension beams shall be 6.00" x 8.00" x .375" wall steel tubing with a .62" steel plate welded to the top and bottom of each beam.

Comply with Section 3.118: YES _____ NO _____

Bidder Response Section 3.118:

3.119 Wear Pads/Bearing Surfaces

- 3.119.1 Nylon wear pads impregnated with molybdenum disulfide and high in molecular weight shall be used between the stabilizer housing assembly and the extension tube for maximum smoothness of operation.
- 3.119.2 Two (2) Nylatron wear pads shall be installed in each stabilizer extension system. There shall be one wear pad located on the top back portion of the extension tube assembly that shall glide on the inner wall of the top housing tube wall. There shall be an additional pad located on the inner wall of the bottom housing tube wall that shall separate the bottom side of the extension tube and the bottom wall of the housing tube. The pads shall be installed in such a manner as to reduce friction for ease of operation and to reduce the amount of metal to metal contact.
- 3.119.3 Each stabilizer down-jack housing tube shall contain four wear pads, one (1) on each side of the tubes.

Comply with Section 3.119: YES _____ NO _____

Bidder Response Section 3.119:

3.120 Mechanical Stabilizer Locks

- 3.120.1 Each vertical jack cylinder shall be equipped with a mechanical pin lock to hold it in the working position. The pin shall be zinc plated and shall have a yellow dipped vinyl handle for increased visibility. The locking system shall be incorporated with the protective tubing used to prevent damage to the jack cylinder rod. The inner and outer jack tubes shall be double thickness in the pinning area for additional strength.
- 3.120.2 Safety is of the utmost concern. It is the intent of the fire department to purchase an apparatus that utilizes mechanical stabilizer locks in addition to the hydraulic holding valves integral to the stabilizer jacks. Should a mechanical failure occur with the stabilizer system or hydraulic seepage cause a stabilizer to drift, the mechanical locks shall keep the desired "stabilizer set-up" intact without compromising aerial capabilities or safety. There shall be no exception allowed to this requirement.

Comply with Section 3.120: YES _____ NO _____

Bidder Response Section 3.120:

3.121 Stabilizer Lights

- 3.121.1 **Stabilizer Work Lights**
Federal Signal Commander 750-SQ LED flood lights shall be provided at each stabilizer location to illuminate the surrounding area. The lights shall be activated by the aerial master switch.
- 3.121.2 **Stabilizer Arm Warning Lights**
Two (2) Federal Signal Micropulse LED red flashing lights shall be mounted below each stabilizer beam, facing front and rear. These warning lights shall be activated by the aerial master switch.
- 3.121.3 **Stabilizer Cover Warning Lights**
There shall be one (1) Federal Signal Quadraflare 4x6" LED flashing light installed on each extending stabilizer cover panel. These lights shall be red in color and activated by the aerial master switch.

Comply with Section 3.121: YES _____ NO _____

Bidder Response Section 3.121:

3.122 Manual Angle Level System, Tiller

The fire truck leveling system shall consist of two manual angle level gauges located at each stabilizer control station. One of the gauges shall measure the side to side angle of the apparatus and the other shall measure the fore to aft angle of the apparatus. The gauges shall have a sight bubble that shall measure the angle in two degree increments.

Comply with Section 3.122: YES _____ NO _____

Bidder Response Section 3.122:

3.123 Auxiliary Stabilizer Pads

An auxiliary pad for additional load distribution on soft surfaces shall be supplied for each stabilizer. The stabilizer pads shall have an aluminum "U" shaped slot installed on the pad to allow pad to be placed on the stabilizer prior to ground engagement to aid in positioning the stabilizer pad.

Comply with Section 3.123: YES _____ NO _____

Bidder Response Section 3.123:

3.124 Cradle Interlock System

A cradle interlock system shall be provided to prevent the lifting of the ladder from the nested position until the operator has positioned all of the stabilizers in a load supporting configuration. A switch shall be installed at the cradle to prevent operation of the stabilizers once the aerial has been elevated from the nested position. There shall be a manual override switch that allows the ladder to be lifted from the cradle when the aerial is set up in the "Short-Jacked" configuration.

Comply with Section 3.124: YES _____ NO _____

Bidder Response Section 3.124:

3.125 Ground Control Station

3.125.1 A control station shall be located in close proximity to the stabilizer controls, on each side of the tiller body, in an easily accessible area. The control panel shall be illuminated for night time operation. The following items shall be furnished at the control console, clearly identified and located for ease of operation and viewing:

- a. Individual stabilizer down indicator lights
- b. Aerial PTO engaged indicator light
- c. High idle switch with indicator light
- d. Emergency hydraulic pump control with indicator light
- e. Fifth wheel interlock light

A weather proof compartment shall be furnished behind the control panel and shall contain the aerial circuit breakers, interlock components and control circuit distribution terminals.

3.125.2 **Hydraulic Stabilizer Controls**

- a. The controls shall be designed to allow the stabilizers to be operated independently so that the vehicle may be set up in a restricted area or uneven terrain. No Exceptions.
- b. An automatic diverter valve shall be provided in conjunction with the stabilizer controls as a safety device. The diverter valve shall allow the hydraulic fluid to flow either to the stabilizer circuit or the turntable and ladder circuit, but not both simultaneously.
- c. A stabilizer deployment warning alarm shall be provided at each stabilizer to warn personnel. The warning alarm shall deactivate only when all stabilizers are in the load supporting configuration.
- d. There shall be a manual override switch that allows the ladder to be lifted from the cradle when the aerial is set up in the "Short-Jacked" configuration.

Comply with Section 3.125: YES _____ NO _____

Bidder Response Section 3.125:

3.126 Diverter Valve

There shall be an automatic electric over hydraulic three (3) position diverter valve located at the left side of the apparatus. This diverter valve will divert hydraulic fluid to either the aerial ladder controls or the outrigger controls.

- a. To prevent accidental operation of the ladder prior to the outrigger being set properly, the diverter valve will only allow hydraulic fluid to the outrigger controls until the outriggers are set properly.
- b. To prevent accidental operation of the outrigger system during the aerial ladder operation, the diverter valve will only allow hydraulic fluid to the ladder controls when the aerial device is raised from the aerial travel support. In the event of electrical failure, the operator will be able to move the diverter valve to the ladder or outrigger position for continuous uninterrupted operation.

Comply with Section 3.126: YES _____ NO _____

Bidder Response Section 3.126:**3.127 Turntable Control Console**

- 3.127.1 The turntable control console shall be located on the left-hand side of the turntable (driver's side of the apparatus). The console shall be illuminated for night time operation and shall have a hinged cover that hinges to the right side. Pressurized gas filled cylinder shall be furnished on cover to hold it in the open position. The gas filled cylinder shall assist in closing the cover automatically when it is positioned over center.
- 3.127.2 The console surface shall be angled toward the operator so controls may be viewed and operated ergonomically. Rubber bumpers shall be provided so that when the control console lid is closed, the lid and the control panel will be protected from each other (no metal to metal contact).
- 3.127.3 Three (3) handles for the ladder hydraulic functions (elevation, rotation, and extension) shall be installed at the control console. The controls shall be manual for safety and durability reasons. A cast alloy plate with openings cast into it for the ladder hydraulic function levers to extend through, shall be provided to encircle the aerial ladder hydraulic function levers. The function of each control lever shall be cast into the plate under the appropriate lever.
- 3.127.4 The controls shall be capable of being operated independently or simultaneously with a gloved hand. The speed of movement caused by moving any control shall be minimally affected when multiple controls are moved.
- 3.127.5 A systems engagement control shall be installed at the control pedestal. The control shall energize the hydraulic system for ladder function and provide flow of hydraulic fluid to the master valve bank.
- 3.127.6 A dead man foot pedal control at the pedestal control shall be connected to the Hobs hour meter when depressed.
- 3.127.7 Each item provided on the console not labeled from the manufacturer, shall be provided with a permanent cast alloy label. The information on the label shall be stamped or professionally engraved for lasting durability.
- 3.127.8 A hinged door shall be provided on the front of the control console. This door shall be provided with a lift and tum latch. Opening of this door shall allow access to the inner components for inspection purposes. A recessed work light shall be provided in the access door.
- 3.127.9 There shall be a hinged access door provided on the outboard side of the control panel. The door shall be provided with a spring loaded, slotted head latch. The opening shall allow access to the electrical components for service purposes.
- 3.127.10 The following items shall be furnished at the console, clearly identified and located for ease of operation and viewing:
- a. Elevation, Extension and Rotation Controls
 - b. Lighted Push/Pull Button to Deactivate Hydraulic & Electrical System
 - c. Fast Idle Button
 - d. Panel Light Mounted in Cover (LED)
 - e. Rung Alignment light (LED)
 - f. Ladder light Switches (LED)
 - g. Ladder Overload Warning Horn
 - h. System Pressure Gauge (LED)
 - i. LoadMinder
 - j. Emergency Pump Unit Switch and Light (LED)
 - k. Sigtronics jack with push to talk button and weather proof speaker for Kenwood radio.
 - l. Intercom with Controls
 - m. Operators Load Chart
 - n. Warning Signs
 - o. Auto Ignition Control / Remote Start

Comply with Section 3.127: YES _____ NO _____

Bidder Response Section 3.127:

3.128 Hour Meter

There shall be an hour meter installed at the turntable control station, connected to the system engagement control for the aerial. The meter shall register the total hours of aerial use for scheduling periodic maintenance. Hour meter shall only run when dead man pedal is depressed. The hour meter shall be installed through the side of the turntable control console so it can be read without opening the console door.

Comply with Section 3.128: YES _____ NO _____

Bidder Response Section 3.128:

3.129 Power Take-Off

The apparatus shall be equipped with a power takeoff (PTO) driven by the chassis transmission and actuated by an electric shift, located inside the cab. The PTO which drives the hydraulic pump shall meet all the requirements for the aerial unit operations. An amber light shall be installed on the cab instrument panel to notify the operator that the PTO is engaged.

Comply with Section 3.129: YES _____ NO _____

Bidder Response Section 3.129:

3.130 "Thru-Drive" Hydraulic Pump

- 3.130.1 The hydraulic system shall be supplied by a pressure compensated, load sensing, variable gallonage type pump. The pump shall provide adequate fluid volume to allow all ladder functions to operate simultaneously, without noticeable loss of speed. The pump shall supply oil only when the ladder is in motion, thereby preventing overheating of the hydraulic oil.
- 3.130.2 The pump shall be a "Thru-Drive" design. This design shall be provided for applications that require a power source for additional hydraulically operated accessories or tools.
- 3.130.3 An interlock shall be provided that shall allow operation of the aerial device PTO shift only after the chassis spring brake has been set and the chassis transmission has either been placed in the neutral position or the drive position if the driveline has been disengaged from the rear axle.

Comply with Section 3.130: YES _____ NO _____

Bidder Response Section 3.130:

3.131 Hot Shift PTO Generator

The PTO shall be capable of being operated while in "Drive". All generator powered lighting shall turn off when the transmission is put into Drive. The auxiliary A/C units shall continue to work off the generator while in drive.

Comply with Section 3.131: YES _____ NO _____

Bidder Response Section 3.131:

3.132 Hydraulic System

- 3.132.1 The tubing and hoses used in the hydraulic system shall have a high-pressure rating, with the tubing having a minimum burst pressure of 9,600 to 17,400 PSI and the hoses being a minimum of 8,000 to 13,000 PSI.

- 3.132.2 The hydraulic oil tank shall have:
 - a. 50-gallon capacity (approximate) and a dipstick to check the oil level.
 - b. The oil fill shall be furnished with a cap that shall act as a ventilator provide clean fresh air into the oil tank and a 40 micron filter to provide positive protection from contaminates.
 - c. A magnetic drain plug shall be provided in a low point of the oil tank.
 - d. An easily accessible 10 micron replaceable oil filter shall be installed on the hydraulic oil tank.
 - e. The hydraulic oil tank shall be furnished with two pick-up tubes, one tube being used for normal operation and the other for emergency operation.
 - f. The emergency pick-up tube shall extend further down into the oil tank to provide for some reserve oil in case a hydraulic line is broken.
 - g. A sight tube shall also be located adjacent to the hydraulic tank to indicate the fluid level.
 - h. An electronic hydraulic fluid level indicator shall be mounted near the pedestal controls.
- 3.132.3 The hydraulic system shall be protected from possible hydraulic pump malfunctions by a relief valve which shall route the excess oil into the oil tank when the pressure in the hydraulic system exceeds 3,500 PSI. The hydraulic control valves shall also be protected by being plumbed to a pressure relief valve to protect them from high pressure.

Comply with Section 3.132: YES _____ NO _____

Bidder Response Section 3.132:

3.133 Hydraulic Oil Level Gauge (Electronic)

There shall be an electronic hydraulic oil level gauge supplied and installed on the hydraulic oil system of the aerial. The Gauge shall consist of a sending unit located in the hydraulic oil tank and a four-light gauge display. the gauge shall read:

- a. Level 4 "Acceptable"
- b. Level 3 "Full"
- c. Level 2 "ADD"
- d. Level 1 "Stop Operation"

Comply with Section 3.133: YES _____ NO _____

Bidder Response Section 3.133:

3.134 Hydraulic Pressure Gauge

There shall be a pressure gauge at the ground level control station to monitor the hydraulic system pressure. The gauge shall be liquid filled to prevent gauge shock when the hydraulic system is energized. The liquid shall not be vulnerable to freezing in subzero temperatures. Shall be located in L-2.

Comply with Section 3.134: YES _____ NO _____

Bidder Response Section 3.134:

3.135 Reservoir Isolation Kit

There shall be 1/4 turn ball valves installed on the hydraulic reservoir to isolate it from the hydraulic system. This shall minimize hydraulic fluid loss when changing filter elements during routine maintenance.

Comply with Section 3.135: YES _____ NO _____

Bidder Response Section 3.135:

3.136 Aerial LoadMinder System

- 3.136.1 There shall be a LoadMinder at the operator's pedestal that indicates the load(s) on the aerial device. The display shall be in the form of an LED illuminated bar graph. The instrument shall be readable in day and night conditions. The display shall be a "real time" display, thereby giving immediate readings to the operator. Additionally, a color-coded bar shall be above and below the actual LED bar graph, to surround the actual reading given to the operator; thereby making the display easier and faster to read. The color-coded bars shall progress from Green to Yellow, and finally to Red. When the LED bar graph illuminates, representing a load on the aerial ladder, the operator need only glance at the display to determine the load applied to the aerial device - in relation to 100% rated aerial device capacity.
- 3.136.2 The readout given by the display shall be continuous, shall be relative to the NFPA compliant aerial device rated capacity as stated in these specifications, and shall including (but not be limited to) the following items:
 - a. Accumulated equipment on any and all ladder sections, or at the tip including manufacturer installed items or customer installed items.
 - b. Accumulated personnel on any and all ladder sections or at the tip.
 - c. Accumulated ice buildup on any and all ladder sections or at the tip.
 - d. The total load suspended from any load lifting I rappelling eye installed by the manufacturer.
 - e. Any load reaction from dynamic loads placed on or realized by the aerial structure.
 - f. Any water weight or reactionary force realized by the aerial structure.
 - g. Any combination of the above items.
- 3.136.3 The LoadMinder as described shall be designed in such a manner that the operator will not have to refer to an angle indicator, extension tape, or load chart; or be required to guess at, or try to calculate the loads or forces applied to, or interacting with the aerial device at any given time, and in any situation. This shall be in compliance with NFPA 1901 newest revision. Systems that require the use of a load chart, angle indicator or extension tape shall not be acceptable for safety reasons.
- 3.136.4 The LoadMinder shall be connected to a 100-dba alarm at the operator's control station that shall sound when the ladder load is above the rated capacity. This alarm system shall also be connected to two (2) strobe lights on the end of the base section, one on each side, to provide further notice to the operator of an unsafe condition.

Comply with Section 3.136: YES _____ NO _____

Bidder Response Section 3.136:

3.137 Aerial Ladder Load Chart

There shall be a load chart installed at the turntable control console of the aerial ladder. The load chart shall cover the full operating range of the ladder.

Comply with Section 3.137: YES _____ NO _____

Bidder Response Section 3.137:

3.138 Emergency Pump

- 3.138.1 The apparatus shall be equipped with one (1) emergency hydraulic pump electrically driven from the chassis battery system. The emergency pump shall be capable of providing adequate ladder functions to stow the unit in case of main hydraulic pump failure.
- 3.138.2 Two (2) control switches for this emergency pump shall be provided. One switch shall be installed at each one of the following two (2) control stations; The Turntable Control Console and the Stabilizer Control Station.
- 3.138.3 Each control shall be a spring loaded momentary switch. A red indicator light shall be mounted adjacent to each switch to indicate activation of the emergency pump.

Comply with Section 3.138: YES _____ NO _____

Bidder Response Section 3.138:

3.139 Hydraulic Swivel

The aerial device shall be equipped with a hydraulic swivel which shall connect the hydraulic lines from the hydraulic pump and reservoir to the aerial control bank at the turntable, above the point of rotation. The hydraulic swivel shall allow for 360 degrees of continuous rotation of the aerial device with no loss of speed or capacity in functions.

Comply with Section 3.139: YES _____ NO _____

Bidder Response Section 3.139:

3.140 Electrical Swivel

The ladder shall be equipped with an electrical swivel to allow for 360 degrees of continuous rotation of the aerial while connecting all electrical circuits through the rotation point A minimum of thirty-two (32) collector rings shall be provided.

Comply with Section 3.140: YES _____ NO _____

Bidder Response Section 3.140:

3.141 Two Station Aerial Communication System

3.141.1 There shall be a two (2) station FRC Always Clear Talking (ACT) or equal digital Intercom Annunciator system installed. The system shall have two (2) remote control panels, an automatically triggered annunciator and two (2) 115 db speakers. The annunciator/speakers shall be mounted in a protected environment. The main control station, located in the operators pedestal control console, shall normally monitor the aerial ladder tip and shall be provided with push to talk capabilities. The station at the ladder tip shall only have provisions for hands free operation.

3.141.2 Provide a separate double shielded aerial ladder communications cable for the Intercom/Annunciator system to minimize noise. The communication and lighting cables shall be routed through the ladder section to the fly tip or secured along the main and fly ladder sections, suspended between the ladder trusses between the top of the main section and bottom of the fly section. The cables shall be provided with a take-up feature to eliminate cable slack. The cables shall be provided with adequate number and size conductors to operate all communications and lighting equipment, etc.

Comply with Section 3.141: YES _____ NO _____

Bidder Response Section 3.141:

3.142 Monitor Safety Interlock

The monitor safety interlock shall prevent the monitor or nozzle from coming into contact with the tiller operator's cab windshield, roof, etc. The safety interlock shall automatically stop the operator from lowering the aerial into the cradle until the monitor has been completely removed, to prevent damage. In addition, the blue bed zone indicator shall not illuminate until the ladder is aligned with the cradle and the monitor has been completely removed.

Comply with Section 3.142: YES _____ NO _____

Bidder Response Section 3.142:

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3.143 Akron 1494 Ladder Pipe

There shall be one (1) 1000gpm Akron Model 1494 ladder pipe and ladder pipe storage bracket provided and mounted with the apparatus. Exact mounting location shall be determined at pre-construction.

Comply with Section 3.143: YES _____ NO _____

Bidder Response Section 3.143:

3.144 Angle Indicator (Lighted)

There shall be a liquid filled angle indicator mounted on the base section of the aerial ladder. The indicator shall give accurate elevation in degrees from -20 to +80 degrees in relation to level. The liquid shall be of proper viscosity and composition to stay in liquid form even when exposed to below zero temperatures. Reading of the indicator shall be accomplished by observing the position of a suspended ball in relation to the degrees of elevation as marked on the indicator housing. The indicator shall be lighted for nighttime operations.

Comply with Section 3.144: YES _____ NO _____

Bidder Response Section 3.144:

3.145 Extension Indicator

3.145.1 There shall be numerals affixed to the inside of the handrail of the base section, opposite the turntable control console. The numerals shall be at appropriate intervals, indicating total aerial extension in 5 foot increments. A band on the first fly section shall align with these marks at the appropriate extension distance.

3.145.2 The extension indicator color shall be black reflective. This shall make the length of aerial extension easily readable by the operator by merely glancing at the indicators. Numerals indicating length of extension shall be placed adjacent to indicating bands.

Comply with Section 3.145: YES _____ NO _____

Bidder Response Section 3.145:

3.146 Aerial Mounted Folding Attic Ladder Bracket

There shall be one (1) mounting bracket on the fly section for a 10' folding attic ladder.

Comply with Section 3.146: YES _____ NO _____

Bidder Response Section 3.146:

3.147 Roof Ladder Mounting Brackets Base Section, Behind Ladder Sign

Roof ladder brackets shall be provided on the outside of the base section for a roof ladder. The brackets shall be installed between the aerial base section and the ladder signs. The brackets shall be formed using break and bend techniques for added strength and an outstanding appearance. To enhance durability, the brackets shall be coated with Line-X or equal.

- a. Where the ladder rack is bolted to the aerial section or ladder sign, stainless steel fasteners shall be employed.
- b. When installed in the brackets, the roof ladder shall be retained so that it will not come out of the brackets unexpectedly.
- c. There shall be a total of two roof ladder brackets, one on the right side and one on the left side of the aerial.
- d. Two (2) 14' roof ladder, Duo Safety 775DR (Special Width) shall be provided.

Comply with Section 3.147: YES _____ NO _____

Bidder Response Section 3.147:

3.148 Aerial Special Labels

Legible, permanent signs shall be installed in positions readily visible to the operator to provide operational directions, warnings, and cautions. The signs shall describe the function of each control and provide operating instructions. Warning and caution signs shall indicate hazards inherent in the operation of the aerial device. These hazards shall include, but shall not be limited to:

- a. Electrical hazards involved where the aerial device does not provide protection to the personnel from contact with, or near proximity to, an electrically charged conductor.
- b. Electrical hazards involved where the aerial device does not provide protection to ground personnel who might contact the vehicle when in contact with energized electrically charged conductors.
- c. Hazards from stabilizer motion.
- d. Hazards that can result from failure to follow the manufacturer's operating instructions.

Comply with Section 3.148: YES _____ NO _____

Bidder Response Section 3.148:

3.149 Aerial Device Specification Placard

A permanent label shall disclose the following information relative to the aerial device:

- a. Make
- b. Model
- c. Insulated or non-insulated
- d. Serial number
- e. Date of manufacture
- f. Rated capacity (s)
- g. Rated vertical height
- h. Rated horizontal reach
- i. Maximum hydraulic system pressure
- j. Hydraulic oil type and capacity

All other appropriate labels to ensure safe operation of the aerial device shall be permanently affixed in conspicuous locations.

Comply with Section 3.149: YES _____ NO _____

Bidder Response Section 3.149:

3.150 Aerial Ladder Signs

There shall be two (2) signs measuring 16" tall x 133" long installed on the base section of the aerial ladder, one on each side. The signs shall be fabricated of 1/8" aluminum plate and shall be painted to match the aerial. The signs shall be large enough to accept a maximum lettering size of 12" high.

Comply with Section 3.150: YES _____ NO _____

Bidder Response Section 3.150:

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End of Section III – Aerial Body & Trailer

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SECTION IV – ELECTRICAL

4.1 Battery

The single start electrical system shall include six (6) Harris BCI 31 925 CCA batteries with a 210-minute reserve capacity and 4/0 welding type dual path starter cables per SAE J541.

Comply with Section 4.1: YES _____ NO _____

Bidder Response Section 4.1:

4.2 Battery Tray

The batteries shall be installed within two (2) steel battery housings with integrated slide-out trays located on the left side and right side of the chassis, securely bolted to the frame rails. The battery trays shall be coated with the same material as the frame. The battery trays shall include drain holes in the bottom for sufficient drainage of water. A durable, non-conducting, interlocking mat made by Dri-Dek shall be installed in the bottom of the trays to allow for air flow and help prevent moisture build up. The batteries shall be held in place by non-conducting phenolic resin hold down boards. The design for the slide-out feature shall include remote terminal studs for the battery cables to improve ease of maintenance.

Comply with Section 4.2: YES _____ NO _____

Bidder Response Section 4.2:

4.3 Battery Box Cover

Each battery box shall include a steel cover which protects the top of the batteries. Each cover shall include flush latches which shall keep the cover secure as well as a black powder coated handle for convenience when opening.

Comply with Section 4.3: YES _____ NO _____

Bidder Response Section 4.3:

4.4 Battery Cable

The starting system shall include cables which shall be protected by 275-degree F. minimum high temperature flame retardant loom, sealed at the ends with heat shrink and sealant.

Comply with Section 4.4: YES _____ NO _____

Bidder Response Section 4.4:

4.5 Battery Jumper Stud

The starting system shall include battery jumper studs. These studs shall be located in the forward most portion of the driver's side lower step. The studs shall allow the vehicle to be jump started, charged, or the cab to be raised in an emergency in the event of battery failure.

Comply with Section 4.5: YES _____ NO _____

Bidder Response Section 4.5:

4.6 Alternator

The charging system shall include a 320 amp Delco Remy 40SI 12-volt alternator. The alternator shall include a self-exciting integral regulator.

Comply with Section 4.6: YES _____ NO _____

Bidder Response Section 4.6:

4.7 Battery Conditioner

A Kussmaul 35/10 battery conditioner shall be supplied. The battery conditioner shall provide a 35-amp output for the chassis batteries and a 10-amp battery saver output. The battery conditioner shall be mounted in the cab in the LH rear facing outer seating position.

Comply with Section 4.7: YES _____ NO _____

Bidder Response Section 4.7:

4.8 Battery Conditioner

A Kussmaul battery conditioner display shall be supplied. The battery conditioner display shall be mounted in the cab, viewable through the cab mid side window behind the left front door.

Comply with Section 4.8: YES _____ NO _____

Bidder Response Section 4.8:

4.9 Electrical Inlet

4.9.1 A Kussmaul 20-amp super auto-eject electrical receptacle shall be supplied. It shall automatically eject the plug when the starter button is depressed. A single item or an addition of multiple items must not exceed the rating of the electric inlet that it's connected to.

4.9.2 **Amp Draw Reference List:**

- a. Kussmaul 1000 Charger - 3.5 Amps
- b. Kussmaul 1200 Charger - 10 Amps
- c. Kussmaul 35/10 Charger - 10 Amps
- d. 1000W Engine Heater - 8.33 Amps
- e. 1500W Engine Heater - 12.5 Amps
- f. 120V Air Compressor - 4.2 Amps

4.9.3 **Electrical Inlet Connection**

The electrical inlet shall be connected to the battery conditioner.

4.9.4 **Electrical Inlet Color**

The electrical inlet connection shall include a red cover.

Comply with Section 4.9: YES _____ NO _____

Bidder Response Section 4.9:

4.10 Auxiliary Electrical Inlet

4.10.1 An auxiliary Kussmaul 20-amp super auto-eject electrical receptacle shall be supplied. It shall automatically eject the plug when the starter button is depressed. A single item or an addition of multiple items must not exceed the rating of the electric inlet that it's connected to.

4.10.2 **Amp Draw Reference List:**

- a. Kussmaul 1000 Charger - 3.5 Amps
- b. Kussmaul 1200 Charger - 10 Amps
- c. Kussmaul 35/10 Charger - 10 Amps
- d. 1000W Engine Heater - 8.33 Amps
- e. 1500W Engine Heater - 12.5 Amps
- f. 120V Air Compressor - 4.2 Amps

4.10.3 Auxiliary Electrical Inlet Location

An auxiliary electrical inlet shall be installed on the left-hand side of the cab ahead of the front door.

4.10.4 Auxiliary Electrical Inlet Connection

The auxiliary electrical inlet shall be connected to the 110V A/C unit.

4.10.5 Auxiliary Electrical Inlet Color

The auxiliary electrical inlet connection shall include a blue cover

Comply with Section 4.10: YES _____ NO _____

Bidder Response Section 4.10:

4.11 Siren Control Head

A Federal PA300, 200-watt siren control head shall be provided and installed in the dash panel. The siren shall feature 200-watt output, wail, yelp, air horn, PA and radio broadcast. The siren shall include a noise cancelling microphone.

Comply with Section 4.11: YES _____ NO _____

Bidder Response Section 4.11:

4.12 Mechanical Siren

A Federal Signal Q2B mechanical siren shall be installed on the front bumper. The siren shall be controlled by a foot pedal on the left-hand side for the driver. The siren shall also be controlled by a push button on the right-hand side for the officer. The siren brake shall have a push button located next to the officer side siren control.

Comply with Section 4.12: YES _____ NO _____

Bidder Response Section 4.12:

4.13 Horn Button Selector Switch

A rocker switch shall be installed in the switch panel between the driver and officer to allow control of either the electric horn or the electronic siren from the steering wheel horn button. The electric horn shall sound by default when the selector switch is in either position to meet FMCSA requirements.

Comply with Section 4.13: YES _____ NO _____

Bidder Response Section 4.13:

4.14 Air Horn Activation

The air horn activation shall be accomplished by one (1) Linemaster model SP491-S81 foot switches located on the left-hand side for the driver. On the right-hand side for the officer will be a push button. An air horn activation circuit shall be provided to the chassis harness pump panel harness connector.

Comply with Section 4.14: YES _____ NO _____

Bidder Response Section 4.14:

4.15 Electronic Siren Auxiliary Activation

The electronic siren shall include activation by the steering wheel horn button.

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Comply with Section 4.15: YES _____ NO _____

Bidder Response Section 4.15:

4.16 Back-up Alarm

An ECCO model 575 backup alarm shall be installed at the rear of the chassis with an output level of 107 db. The alarm shall automatically activate when the transmission is placed in reverse. A virtual button shall be provided on the Vista display and control screen to disable the backup alarm.

Comply with Section 4.16: YES _____ NO _____

Bidder Response Section 4.16:

4.17 Wiring Harnesses

4.17.1 Wiring harnesses shall be the automotive type, engineered specifically for the builder's apparatus, and shall meet the following criteria. Under no circumstances shall diodes, resistors, or fusible links be located within the wiring harness. All such components shall be located in an easy to access wiring junction box or the main circuit breaker area. All wire shall meet white book, baseline advanced design transit coach specification and Society of Automotive Engineers recommended practices. It shall be stranded copper wire core with cross linked polyethylene insulation complying with SAE specification J 1128. Each wire shall be hot stamp function coded every three inches starting one inch from the end and continuing throughout the entire harness. In addition to function coding, each wire shall be number and color coded.

4.17.2 All terminals on the ends of the wiring harness shall be soldered unless a crimping tool or machine is used that gives an even and precise pressure for the terminal being used. All terminals shall be pull tested to insure their integrity.

Comply with Section 4.17: YES _____ NO _____

Bidder Response Section 4.17:

4.18 V-Mux Electrical Management System

4.18.1 The apparatus shall be equipped with a V-MUX Multiplex System, no substitutes accepted. The Manufacture of the Multiplex system shall provide at a minimum three cities of reference that have at least 10 trucks operational for over a one year period. The Multiplex system hardware that is being put into the apparatus of this bid shall be field proven for a minimum of two years. Any multiplex system that has less than 200 systems in vehicles with less than two years' field time on the identical hardware that shall be put into the apparatus shall be excluded from this bid process. Any Multiplex system with a warranty higher than 1% over the past 2 years shall be excluded. There are several key benefits to multiplexing, one is to reduce the number of connections in a vehicles electrical system, because of this it is important to limit the number of modules that control certain functions of the vehicle, therefore wherever it is stated that an "add-on" module will not be acceptable, there shall be No Exceptions.

4.18.2 Outputs: The outputs shall perform all the following items without added modules to perform any of the tasks.

4.18.2.1 **Load Shedding:** The System shall have the capability to Load Shed with 8 levels any output. This means you can specify which outputs (barring NFPA restrictions) you would like Load Shed. Level 1 12.9v, Level 2 12.5V, Level 3- 12.1V, Level 4- 11.7V, Level 5 11.3V, Level 6 10.9V, Level 7 10.5, Level 8 10.1. Unlike conventional load shedding devices, you can assign a level to any or all outputs. No add-on modules shall be acceptable; the module with the outputs must perform this function.

4.18.2.2 **Load Sequencing:** The System shall be able to sequence from 0 8 levels any output. With 0 being no delay and 1 being a 1 second delay, 2 being a 2 second delay and so on. Sequencing

- reduces the amount of voltage spikes and drops on your vehicle, and can help limit damage to your charging system. No add-on modules shall be acceptable; the module with the outputs must perform this function.
- 4.18.2.3 **Output Device:** The System shall have solid-state output devices. Each solid-state output shall be a MOS-FET (Metal Oxide Semiconductor- Field Effect Transistors); MOS-FETs are solid-state devices with no moving parts to wear out. A typical relay when loaded to spec has a life of 100,000 cycles. The life of a FET is more than 100 times that of a relay. No add-on modules shall be acceptable; the module with the outputs must perform this function.
 - 4.18.2.4 **Flashing Outputs:** The System shall be able to flash any output in either A or B phase, and logic is used to shut down needed outputs in park, or any one of several combined interlocks. The flash rate can be selected at either 80, or 160 FPM. This means any light can be specified with a multiplex truck with no need to add flashers. Flashing outputs can also be used to warn of problems or other unique idea you may come up with. No add-on modules shall be acceptable; the module with the outputs must perform this function.
 - 4.18.2.5 **PWM:** The modules shall have the ability to PWM at some outputs so that a Headlight PWM module is not needed. No add-on modules shall be acceptable; the module with the outputs must perform this function.
 - 4.18.2.6 **Diagnostics:** An output shall be able to detect either a short or open circuit. The System shall be able report in "real time" a text based message that points the maintenance person to a specific output.
Inputs:
 - a. The inputs shall have the ability to switch by a ground or battery signal.
 - b. The inputs shall be filtered for noise suppression via hardware and software so that RF or dirty power will not trick an input into changing its status.
 - 4.18.2.7 **Auto-Throttle:** The Multiplex system shall be able to perform automatic high idle via a network gateway or by using an existing output on a module to provide the proper signals to an OEM Engine ECU. This task shall be handled with existing inputs and outputs. No add-on modules shall be acceptable; the module with the outputs must perform this function.
 - 4.18.2.8 **Displays:** There shall be a total of two Vista screen displays, one on the driver side dash, facing the driver and one on the officer side dash, facing the officer. Displays shall provide real time information regarding Load Shedding and System Status, such as network traffic/errors or shorts and open circuits.
 - 4.18.2.9 **System Network:** The Multiplex system shall contain a Peer-to-Peer network. A Master Slave Type network is not suitable for the Fire/Rescue industry. A Peer-to-Peer network means that all the modules are equal on the network; a Master is not needed to tell other nodes when to talk.
 - 4.18.2.10 **System Reliability:** The Multiplex system shall be able to perform in extreme temperature conditions, from 40° to +85° C (-40° to +185° F.) The system shall be sealed against the environment, moisture, humidity, salt or fluids such as diesel fuel, motor oil or brake fluid. The enclosures shall be rugged to withstand being mounted in various locations or compartments around the vehicle. The modules shall be protected from over voltage and reverse polarity.
 - 4.18.2.11 **Warranty Information:** The Multiplex (V-Mux) system of Weldon, when installed correctly is warranted against mechanical, electrical and physical defects for the period defined in the table below per module. The period is defined as the date of manufacture from Weldon: each V-Mux carries its own date of manufacture.

<u>Part Numbers</u>	<u>Parts Period</u>	<u>Weldon Repair Parts Labor Period</u>
6000-0000-02 or -03 Hercules	4 years	4 years
6010-0000-00 Mini 4x12	4 years	4 years
6020-0000-00 Mini 16	4 years	4 years

Attachment: FPARC-327 - Aerial Fire Apparatus Bid Packet (Final) (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER FIRE

6201-XXXX-XX Vista I Display Nodes		
Internal Displays	1 year	1 year
Internal Electronics	4 years	4 years
6231-XXXX-XX Vista III Display Nodes	1 year	1 year
	1 year	1 year
6300-XXXX-XX Switch Panels		
6400-0000-00 Gateway Node	4 years	4 years
ORB0-0614-00 Shunt interface Module	1 year	1 year
	1 year	1 year
OU10-0715-00 VFD 2 Line Display		
OR13-0614-00 Temp sensor	30 days	30 days
611X-0000-00 Transceiver Serial or USB	1 year	1 year
613X-0000-00 Diag Kit, Serial or USB	1 year	1 year
	30 days	30 days
Cables or other accessories		

Nodes need to be installed in the ceiling of the body compartments for improved access for maintenance, or in a location that would be easy to access. Engineering to determine best location.

Comply with Section 4.18: YES _____ NO _____

Bidder Response Section 4.18:

4.19 Weatherproof Door Switches

4.19.1 Due the harsh environment and susceptibility to moisture on the fire ground, the fire apparatus compartment doors shall utilize weatherproof switches. Two different types of switches shall be used. Weatherproof proximity switches shall be utilized where space permits. In tight locations, mechanical weatherproof switches shall be used. No Exceptions.

4.19.2 The switches shall be used for activation of the compartment lights and shall provide a signal to the door open circuit in the cab.

Comply with Section 4.19: YES _____ NO _____

Bidder Response Section 4.19:

4.20 Volt System Schematic

A complete electrical schematic for the apparatus shall be provided. This schematic shall be specifically prepared for this individual unit rather than a generic schematic designed to accommodate all apparatus.

Comply with Section 4.20: YES _____ NO _____

Bidder Response Section 4.20:

4.21 Volt System Test

After completion of the unit, the 12-volt electrical system shall undergo a battery of tests as listed in the latest addition of NFPA Pamphlet 1901. These tests shall include, but not be limited to: a reserve capacity test, alternator performance test at idle, alternator performance test at full load, and a low voltage alarm test Certification of the results shall be supplied with the apparatus at the time of delivery.

Comply with Section 4.21: YES _____ NO _____

Bidder Response Section 4.21:

4.22 Headlights

The headlights shall be clear LED, rectangular style, mounted on the face of the cab, in dual-headlight housings. The headlights shall be mounted in a chrome bezel.

Comply with Section 4.22: YES _____ NO _____

Bidder Response Section 4.22:

4.23 Front Turn Signals

There shall be Federal Model QL64Z-ARROW amber LED, and arrow-pattern turn-signals mounted above the headlights in a separate chrome bezel, outboard of the front warning lights; one on each side.

Comply with Section 4.23: YES _____ NO _____

Bidder Response Section 4.23:

4.24 Headlight Location

The headlights shall be located on the front fascia of the cab directly below the front warning lights.

Comply with Section 4.24: YES _____ NO _____

Bidder Response Section 4.24:

4.25 Side Turn/Marker Lights

The sides of the cab shall include two (2) LED round side marker lights which shall be provided just behind the front cab radius corners.

Comply with Section 4.25: YES _____ NO _____

Bidder Response Section 4.25:

4.26 Marker and ICC Lights

In accordance with FMVSS, there shall be five (5) LED cab marker lamps designating identification, center and clearance provided. These lights shall be installed on the face of the cab within full view of other vehicles from ground level.

Comply with Section 4.26: YES _____ NO _____

Bidder Response Section 4.26:

4.27 Headlight and Marker Light Activation

The headlights and marker lights shall be controlled through the Vista screens. The headlamps shall be equipped with the "Daytime Running" light feature, which shall illuminate the headlights to 80% brilliance when the battery master switch is in the "On" position and the parking brake is released. The Vista screen control shall feature "On", "Marker Lights" and "Off".

Comply with Section 4.27: YES _____ NO _____

Bidder Response Section 4.27:

4.28 Auxiliary Marker/Turn Lights

The cab shall include two (2) Truck-Lite model 10075Y round LED lamps which shall include an amber cover. The lights shall operate as a side clearance marker and turn signal. The lights shall be mounted one (1) on each side of the cab just above the wheel well.

Comply with Section 4.28: YES ___ NO ___

Bidder Response Section 4.28:

4.29 Ground Lights

Each door shall include a Federal Model 607141-05 LED ground light mounted to the underside of the cab step below each door. The lights shall include a polycarbonate lens, a housing which is vibration welded and LEDs which shall be shock mounted for extended life. The ground lighting shall be activated by the respective door as well as in the Vista screen.

Comply with Section 4.29: YES ___ NO ___

Bidder Response Section 4.29:

4.30 Lower Cab Step Lights

The middle step located at each door shall include a recess mounted Federal Model 607141-05 LED light which shall activate with the opening of the respective door.

Comply with Section 4.30: YES ___ NO ___

Bidder Response Section 4.30:

4.31 Intermediate Step Lights

The intermediate step well area at each door shall include an LED light within chrome housing. The Egress step lights shall provide visibility to the step well area for the first step exiting the vehicle. The Egress step lights shall activate with Entry step lighting.

Comply with Section 4.31: YES ___ NO ___

Bidder Response Section 4.31:

4.32 Engine Compartment Lights

There shall be an LED NFPA compliant light mounted under the engine tunnel for area work lighting on the engine. The light shall include a polycarbonate lens, a housing which is vibration welded and a bulb which shall be shock mounted for extended life. The light shall activate automatically when the cab is tilted.

Comply with Section 4.32: YES ___ NO ___

Bidder Response Section 4.32:

4.33 Tiller Cab Interior Lights

There shall be a Weldon style 8080, item 8080-8000-13, interior/dome series LED light provided. The lens shall be clear on one side and red on the other. The interior clear light shall be activated by the door opening or by a push

button on/off switch located on the light. The red dome light shall be activated by a push button on/off switch located on the light. The light shall be located on the tiller cab ceiling above the tiller operator.

Comply with Section 4.33: YES ___ NO ___

Bidder Response Section 4.33:

4.34 Tiller Guide Lights

There shall be a Perko model 0455002CHR round navigation light mounted to the roof of the cab. The light shall be 12.00-inch vertical height allowing all around visibility for use as a center guide by the tiller operator.

Comply with Section 4.34: YES ___ NO ___

Bidder Response Section 4.34:

4.35 Emergency Lighting Activation

All emergency warning lights shall be controlled by the E-Master button on the Vista display.

Comply with Section 4.35: YES ___ NO ___

Bidder Response Section 4.35:

4.36 Side Scene Lights

There shall be two (2) each Federal Model QL97LEDCENE cab scene lights installed; one on each side between the cab doors. The lights shall activate when the cab doors are opened from the same type of switchgear as the side-body scene lights and shall also be controlled by the Vista screen.

Comply with Section 4.36: YES ___ NO ___

Bidder Response Section 4.36:

4.37 Brow Lights

There shall be a total of two (2) Federal Signal Contour Mount COMLS15K800-03-11 scene lights brow area lights mounted to the front of the apparatus. One (1) shall be mounted directly above the windshield on the driver side, centered. One (1) shall be mounted directly above the windshield on the passenger side, centered. The lights shall be installed in a contour brow mount.

Comply with Section 4.37: YES ___ NO ___

Bidder Response Section 4.37:

4.38 Side Scene Light Location

The scene lighting shall be located on the left and right sides of the cab

Comply with Section 4.38: YES ___ NO ___

Bidder Response Section 4.38:

4.39 Side Scene Light Activation

The scene lights shall be activated by the Vista screen.

Comply with Section 4.39: YES ___ NO ___

Bidder Response Section 4.39:

4.40 Interior Overhead Lights

- 4.40.1 The cab shall include a two-section, red and clear Weldon LED dome lamp located over each door. The dome lamps shall be rectangular and shall measure approximately 7.00 inches in length X 3.00 inches in width with a black colored bezel. The clear portion of each lamp shall be activated by opening the respective door and both the red and clear portion can be activated by individual push lenses on each lamp.
- 4.40.2 An additional incandescent three (3) light module with dual map lights shall be located over the engine tunnel which can be activated by individual switches on the lamp.

Comply with Section 4.40: YES _____ NO _____

Bidder Response Section 4.40:

4.41 Master Warning Switch

A master switch shall be included, as a virtual button on the Vista display and control screen which shall be labeled "E Master" for identification. The button shall feature control over all devices wired through it. Any warning device switches left in the "ON" position when the master switch is activated shall automatically power up.

Comply with Section 4.41: YES _____ NO _____

Bidder Response Section 4.41:

4.42 Map Lights

Two (2) Sunnex swivel map lights with red lens and control switch on the base mounted on the overhead HVAC cover, one (1) on each side ILO one (1) Federal Signal 18.00-inch gooseneck style map light with clear lens, sliding red filter, and rheostat control switch located on the right-hand side of the dash as originally specified.

Comply with Section 4.42: YES _____ NO _____

Bidder Response Section 4.42:

4.43 Do Not Move Apparatus Lights

The front headliner of the cab shall include a flashing red Whelen Ion LED light clearly labeled "Do Not Move Apparatus". In addition to the flashing red light, an audible alarm shall be included which shall sound while the light is activated. The flashing red light shall be located centered left to right for greatest visibility. The light and alarm shall be interlocked for activation when either a cab door is not firmly closed or an apparatus compartment door is not closed. The light and alarm shall be disabled when the parking brake is set.

Comply with Section 4.43: YES _____ NO _____

Bidder Response Section 4.43:

4.44 Inboard Front Warning Lights

The cab front fascia shall include two (2) Federal Signal Quadra Flare LED front warning lights in the left and right inboard positions. The lights shall be mounted to the front fascia of the cab within a chrome bezel. The lights shall flash alternating red/red when. The lights shall activate through the E-Master switch.

- 4.44.1 **Inboard Front Warning Lights Color:** The warning lights mounted on the cab front fascia in the inboard positions shall be red.

Comply with Section 4.44: YES _____ NO _____

Bidder Response Section 4.44:**4.45 Intersection Warning Lights**

The chassis shall include two (2) Federal Signal Quadra Flare 6x4 LED intersection warning lights, one (1) each side. The lights shall flash red until the parking brake is released, in which the lights will flash alternating red/clear.

4.45.1 **Intersection Warning Light Location:** The intersection lights shall be mounted on the side of the bumper in the rearward position.

Comply with Section 4.45: YES _____ NO _____

Bidder Response Section 4.45:**4.46 Side Warning Lights**

The cab sides shall include two (2) Federal Signal Quadra Flare LED warning lights, one (1) on each side. The lights shall feature advanced Solaris technology and include a built-in flasher capable of multiple flash patterns. The lights shall be mounted to the sides of the cab within a chrome bezel. The lights shall flash red until the parking brake is released, in which the lights will flash alternating red/clear.

4.46.1 **Side Warning Light Location:** The warning lights on the side of the cab shall be mounted over the front wheel well directly over the center of the front axle.

Comply with Section 4.46: YES _____ NO _____

Bidder Response Section 4.46:**4.47 Interior Door Open Warning Lights**

The interior of each door shall include one (1) red 4.00-inch diameter Truck-Lite LED warning light located on the door panel. Each light shall activate with a flashing pattern when the door is in the open position to serve as a warning to oncoming traffic.

Comply with Section 4.47: YES _____ NO _____

Bidder Response Section 4.47:**4.48 Rear Work Light Switch**

A switch shall be installed above the tail light bezel on the left side. The switch shall be wired to the backup lights to provide additional work lighting. The rear work light circuit shall be deactivated when the park brake is disengaged. In addition to the lights being activated by the above switch, the lights shall also come on when the transmission is placed in reverse.

Comply with Section 4.48: YES _____ NO _____

Bidder Response Section 4.48:**4.49 Midship Turn Signal (LED)**

There shall be Two (2) Truck-Lite model 21LED midship auxiliary / turn signal lights installed in the rub rail, on each side of the body.

Comply with Section 4.49: YES _____ NO _____

Bidder Response Section 4.49:

4.50 Midship Turn Signal, Tiller

There shall be one (1) Whelen model 700 LED turn signal lights, part number 70AOOTAR with chrome flange, installed above the rear wheel well area, on each side of the tiller trailer.

Comply with Section 4.50: YES _____ NO _____

Bidder Response Section 4.50:

4.51 LED Clearance Lights

Truck-Lite model 30 LED clearance lights shall be installed on the rear of the body as necessary to be in full compliance with applicable ICC and DOT codes and regulations.

4.51.1 Additional LED Clearance Lights

Six (6) Truck-Lite model 30 LED amber clearance lights shall be installed on the body in addition to applicable ICC and DOT codes and regulations. Three (3) on the left side of the body and three (3) on the right side of the body.

4.51.2 LED Clearance Lights (Side Marker)

There shall be four (4) truck-Lite model 35075R LED clearance lights with aluminum bracket installed on the apparatus. Four (4) side marker lights, two (2) on each rear corner shall be a Truck-Lite model 35075R Red LED with mounting bracket.

Comply with Section 4.51: YES _____ NO _____

Bidder Response Section 4.51:

4.52 Ground Lighting – LED

4.52.1 Federal Model 607141-05 LED lights shall be installed beneath the apparatus in areas where personnel may be expected to climb on and off the apparatus. The lights shall illuminate the ground within 30" of the apparatus to provide visibility of any obstructions or hazards. These areas shall include, but not be limited to, cab doors, side running boards, and the rear step area.

4.52.2 Additional Ground Lighting – LED

Additional Federal Model 607141-05 LED lights shall be installed beneath the apparatus. The lights shall illuminate the ground within 30" of the apparatus to provide visibility of any obstructions or hazards. in the following areas:

- a. Two (2) below the body compartments left - One (1) below L5/ L7, One (1) below L2/ L3
- b. Two (2) below the body compartments right - One (1) below R5/ R7, One (1) below R2/ R3

Comply with Section 4.52: YES _____ NO _____

Bidder Response Section 4.52:

4.53 Walkaway Lights

Lights shall be mounted in a manner that illuminates all walkways and steps for safe operation of the apparatus. These lights shall become illuminated when the parking brake is engaged. Walkway lights to be Federal Signal Micro Pulse Wide Angle LED. The color shall be clear.

Comply with Section 4.53: YES _____ NO _____

Bidder Response Section 4.53:

4.54 Scene Lights, Rear Facing, Tiller Cab

There shall be two rear facing Federal Signal Quadraflare 7"x3" 12-volt scene lights installed in a bezel and located at the top rear corner of the tiller cab.

4.54.1 Rear Facing Tiller Scene Light Switch in Cab

The rear facing scene lights shall be controlled by a switch located in the tiller cab within reach of the driver. The switch shall have an indicator which shall illuminate when the switch is in the "ON" position. The switch shall be labeled " REAR SCENE."

4.54.2 Rear Scene Light Switch Location

The rear scene lights shall be controlled by a switch located in the chassis within reach of the driver. The switch shall have an indicator which shall illuminate when the switch is in the "ON" position. One switch shall control all rear scene lights if multiple scene lights are selected. The switch shall be labeled "REAR SCENE." In addition to the switch located in the cab, the rear scene lights shall be activated by the rear work light switch, and when the apparatus is placed in reverse.

Comply with Section 4.54: YES _____ NO _____

Bidder Response Section 4.54:

4.55 Scene Lights Forward Facing, Tiller Cab

There shall be two forward facing Federal Quadraflare 7"x3" 12-volt scene lights installed in a bezel and located at the top front corner of the tiller cab. The color shall be CLEAR.

4.55.1 Forward Facing Tiller Scene Light Switch in Cab

The forward-facing scene lights shall be controlled by a switch located in the tiller cab within reach of the driver. The switch shall have an indicator which shall illuminate when the switch is in the "ON" position. The switch shall be labeled "FRONT SCENE".

Comply with Section 4.55: YES _____ NO _____

Bidder Response Section 4.55:

4.56 AMDOR Compartment Lighting, Freedom Package

4.56.1 All side compartments of the apparatus shall be equipped with AMDOR Luma Bar, LED compartment lighting. The Luma Bar shall have wide angle 120° surface mount LED installed on a printed circuit board for shock and vibration resistance. The lighting shall be enclosed in a high impact poly carbonate enclosure. Current draw shall not exceed 130mA per foot or 20mA per LED.

4.56.2 Lighting shall be installed in the left and right side compartments of the tiller tractor and the tiller trailer. The configuration of some small compartments may not allow for LED lighting, in those cases an appropriate substitute shall be used.

4.56.3 An automatic door switch shall activate the compartment lights. In the case of transverse compartments lights on both sides shall be activated by opening either door.

4.56.4 The compartment lights shall be located as follows:

- a. LO and RO shall have one horizontal light bar installed at the top of the compartment.
- b. L1 and R1 shall have one horizontal light bar installed at the top of the compartment.
- c. L2 and R2 shall have one vertical light bar installed along the side of the door.
- d. L3 and R3 shall have one vertical light bar installed on each side of the door.
- e. L4 and R4 shall have one vertical light bar installed on each side of the door.
- f. L5 and R5 shall have one vertical light bar installed on each side of the door.
- g. L6 and R6 shall have one vertical light bar installed on each side of the door.
- h. L7 and R7 shall have one vertical light bar installed along the side of the door.
- i. L8 and R8 shall have one vertical light bar installed along the side of the door.
- j. L9 and R9 shall have one horizontal light bar installed at the top of the compartment.
- k. C1 shall have one horizontal light bar installed at the top, back of the compartment.
- l. CL1 and CR1 shall have one horizontal light bar installed at the top of the compartment.
- m. CL2 and CR2 shall have one vertical light bar installed along the side of the door.

n. CL3 and CR3 shall have one vertical light bar installed along the side of the door.

Comply with Section 4.56: YES _____ NO _____

Bidder Response Section 4.56:

4.57 Tail Lights

The tail lights shall have one (1) Federal Model QL64Z4V-LED-LEFT and one (1) QL64Z4V-LED-RIGHT, LED tail light assemblies. This assembly shall include one (1) red LED stop/tail light, one (1) amber LED turn light, one (1) clear LED back-up lights and one (1) red LED flashing light. The brake lights shall be activated by the brake pedal application and upon the secondary (Jake) brake application.

Comply with Section 4.57: YES _____ NO _____

Bidder Response Section 4.57:

4.58 12 Volt Accessory Outlet in the Cab

There shall be four (4) 12-volt accessory outlets with USB provided in the cab. One (1) mounted on the driver side engine tunnel; One (1) mounted on the officer side engine tunnel; Two (2) mounted in the rear cab area. The exact mounting location shall be determined at pre-con.

Comply with Section 4.58: YES _____ NO _____

Bidder Response Section 4.58:

4.59 Streamlight Rechargeable Lights

Five (5) Streamlight Fire Vulcan LED flash lights, orange in color with 12volt vehicle charger mounts. The lights shall be wired direct to the chassis batteries.

Comply with Section 4.59: YES _____ NO _____

Bidder Response Section 4.59:

4.60 Tiller Driving Lights

There shall be a Zico model ZQL-SS-H7614 tiller driving light installed forward of the tiller trailer fender wells, one on each side of the apparatus. The lights shall be controlled by the dimmer switch located on the tiller operators steering wheel. The light shall be angled toward the front of the apparatus.

Comply with Section 4.60: YES _____ NO _____

Bidder Response Section 4.60:

4.61 Tiller Turning Lights

There shall be a Zico model ZQL-SS-H7614 tiller turning light installed behind the tiller trailer fender wells, one on each side of the apparatus. The lights shall be controlled by the turn indicator switch located on the tiller operators steering wheel. The light shall be directed outward from the sides of the apparatus.

Comply with Section 4.61: YES _____ NO _____

Bidder Response Section 4.61:

4.62 Go-Light Remote Control Search Light

There shall be two (2) LED GOLIGHT Model GL-30204 remote control searchlights mounted to the top of the cab towards the front corners rear of the lightbar. Go-lights shall be mounted on an angled pedestal to allow for clearance above the roof mounted lightbar. Each light shall be equipped with two (2) hard wired remote controls located in the chassis cab.

Comply with Section 4.62: YES _____ NO _____

Bidder Response Section 4.62:

4.63 Pedestal Mount LED Light

There shall be four (4) Federal Signal COM120 scene top mount fixed pedestal light(s) installed on the apparatus. The pedestal shall allow the lamp head to rotate 450 degrees and have a self-adjusting friction brake to prevent arbitrary rotation. The pedestal shall have a round mounting base. Wiring shall extend from the pedestal bottom. Lamp head and brackets shall be powder coated white. The non-telescopic lights shall be installed:

- a. One (1) Above L3
- b. One (1) Above L6
- c. One (1) Above R3
- d. One (1) Above R6

The above 120-volt light shall be controlled with the circuit breaker.

Comply with Section 4.63: YES _____ NO _____

Bidder Response Section 4.63:

4.64 Visual Warning

4.64.1 Upper Zone A Visual Warning: A Federal Signal 87” Navigator light bar system, Part #: 1532275834 shall be supplied and permanently mounted on the cab roof, as far forward as possible.

- a. The light bar shall be equipped with two (5) forward facing linear "Red" LED's, one to be STEADY RED, two (2) RED rotating lights on each end, and two (2) mid mounted RED/CLEAR rotating lights.
- b. The light bars shall be equipped with clear lenses. All clear LED's in the light bar shall be deactivated in the Blocking Right of Way mode.
- c. Opticom Emitter, 3M Installed: There shall be an infrared Opticom Emitter installed in the Federal Navigator Series Light bar.

4.64.2 Upper Zone C Visual Warning: Two (2) Federal SLR LED rotating beacons installed high at the rear of the apparatus. One rotator shall have an amber lens and one rotator shall have a red lens.

4.64.3 Lower Zone B Visual Warning: Three (3) Federal 4x6 Quadraflare QL64XFC-RC LED lights with QL64MC chrome bezel shall be surface mounted in the lower warning zone. The lights shall have clear lenses. The clear flashing LED light shall be disabled when the parking brake is set.

4.64.4 Lower Zone C Visual Warning: Two (2) Federal 4x6 Quadraflare QL64XFC-RR LED lights with QL64MC chrome bezel shall be surface mounted in the lower warning zone. The lights shall have a red lens.

4.64.5 Lower Zone D Visual Warning: Three (3) Federal 4x6 Quadraflare QL64XFC-RC LED lights with QL64MC chrome bezel shall be surface mounted in the lower warning zone. The lights shall have clear lenses. The clear flashing LED light shall be disabled when the parking brake is set.

Comply with Section 4.64: YES _____ NO _____

Bidder Response Section 4.64:

4.65 Federal "LED" Traffic Advisor

There shall be a Federal Model 320810-42 42" signal master mounted on the rear of the apparatus. There shall be a third brake light built into this traffic advisor. The traffic advisor shall be recess mounted on the rear of the body above the rear compartment. The traffic advisor shall be controlled through the Vista screen.

Comply with Section 4.65: YES _____ NO _____

Bidder Response Section 4.65:

4.66 Aerial Spotlight

4.66.1 Two (2) Federal Signal Commander 1220-SQ shall be installed. The "tracking" lights shall be mounted under the base section of the ladder. The lights shall be switched by a switch on each light head, and from the operator control station at the base of the ladder.

4.66.2 Two (2) Federal Signal Commander 1220-SQ shall be installed. The "tip" lights shall be mounted on the fly section of the ladder. The lights shall be mounted below the handrails so as not to increase the overall height of the unit. The lights shall be switched by a switch on each light head, and from the operator's control station at the base of the ladder.

Comply with Section 4.66: YES _____ NO _____

Bidder Response Section 4.66:

4.67 Ladder Tip LED Lights

There shall be two (2) Federal Signal COMLS15K-NH LED scene lights mounted at the tip of the fly section. The lights shall be connected to the 12-volt system on the apparatus. The lights shall have weather proof on/off switches located at each light head and at the pedestal controls.

Comply with Section 4.67: YES _____ NO _____

Bidder Response Section 4.67:

4.68 Aerial Mounted 120 Volt Receptacle

There shall be one (1) 120 Volt receptacle mounted on the end of the fly section. The receptacle shall be wired through the electrical swivel, and shall be controlled from the breaker box located in the body. The receptacle shall be a Twist Lock Type NEMA L5-15, 120 Volt 15 Ampere with a spring-loaded weather resistant cover.

Comply with Section 4.68: YES _____ NO _____

Bidder Response Section 4.68:

4.69 Blue LED Rung Illumination Lighting

4.69.1 The aerial ladder sections shall be equipped with permanently installed blue LED rung illumination lights. The lights shall be mounted on the inside of the ladder sections, facing inward; on each aerial section in a "staggered" configuration. The blue colored lens shall serve to illuminate climbing rungs without inducing any glare, which would hinder safety.

4.69.2 The lights shall be energized by a switch on the Turntable Control Station. Each light shall be equipped with an integral guard to protect it from damage. The light itself shall be positioned such that all light shall be directed inward toward the rungs of the aerial sections, maximizing safety for all climbers during night operations. The lights shall also aid the operator in locating aerial ladder section in conditions of reduced visibility.

4.69.3 Tape type products will not be acceptable for blue rung lighting. NO EXCEPTION.

Comply with Section 4.69: YES _____ NO _____

Bidder Response Section 4.69:

4.70 Onan Hydraulic Generator Set

- 4.70.1 An Onan model CMHG 10000, hydraulic driven generator set shall be installed on the apparatus. The generator shall be rated at 10,000 watts at 120/240 volts. Current frequency shall be stable at 60 hertz.
- 4.70.2 The power generating unit shall be modular unit, housed in stainless steel with an acoustical material added for maximum sound dampening. The module shall consist of the hydraulic motor, generator, blower, cooler, and all other necessary components.
- 4.70.3 The generator shall be located in the open storage area above the body. The generator activation switch shall be located in the chassis cab.
- 4.70.4 For ease of maintenance, the only part of the system that shall require accessibility shall be the oil reservoir which shall be located to facilitate periodic checks and the adding of hydraulic fluids.

Comply with Section 4.70: YES _____ NO _____

Bidder Response Section 4.70:

4.71 Generator Warranty Period

Generator shall be free from defects in material and workmanship for a period of five (5) years or one thousand (1,000) hours, whichever comes first, from the date of delivery to the County. Generator warranty shall include all parts and labor, including diagnostic labor, to repair the generator. Repair or replacement parts shall be warranted for ninety (90) days from date of purchase. Any part repaired or replaced during the warranty period assumes the remainder of the warranty or ninety (90) days, whichever is greater.

Comply with Section 4.71: YES _____ NO _____

Bidder Response Section 4.71:

4.72 Frog Display

There shall be a FROG D provided with the generator. The FROG D shall automatically sense a generator signal and begin displaying information. The digital meter display shall constantly monitor and display Voltage, Frequency (accurate to within 1 decimal point), and Current Draw on two separate lines. The display shall be capable of displaying total accumulated run time hours when the MODE button is pressed. This information shall be stored in a non-erasable memory. The frog display shall be located next to the load center.

Comply with Section 4.72: YES _____ NO _____

Bidder Response Section 4.72:

4.73 GFI Load Center

- 4.73.1 The entire 120/240-volt electrical system shall be installed in strict compliance with NFPA Pamphlet 1901, newest edition. This shall include all testing, labeling, wiring methodology, and dimensional requirements. Certification of compliance shall accompany the apparatus at the time of delivery.
- 4.73.2 There shall be a 120/240-volt load center incorporated into the 120/240-volt wiring system. The load center shall include adequate circuit breakers to protect the loads specified on this apparatus.
- 4.73.3 All 120/240 volt A.C. Wiring shall be done in accordance with NFPA Pamphlet 1901 as well as nationally accepted electrical codes.
- 4.73.4 The GFI load center shall be located all in one compartment, L-3.

Comply with Section 4.73: YES _____ NO _____

Bidder Response Section 4.73:

4.74 Branch Circuit Overcurrent Protection

Over current protection devices shall be provided for circuits in accordance with NFPA 1901 newest version. The load center shall be equipped with a non-GFI two pole main breaker when the six or more individual branch circuits are present. Over current protection devices shall be marked with labels to identify the function of the circuit they protect. The load center shall be located forward bulkhead of L2.

Comply with Section 4.74: YES _____ NO _____

Bidder Response Section 4.74:

4.75 Electric Cord Reels

There shall be two (2) Hannay 120-volt electric rewind cord reel(s) model ECR1616-17-18 installed on the apparatus with a push button labeled REEL REWIND installed for 12-volt rewinding of each cord reel. The reel shall be equipped with 200' of yellow STW Seoprene 105 degree Celsius 10/3 wire installed with a cable stop to prevent damage to cable fittings. Rollers shall be supplied to prevent damage to the electrical cable if pulled in any direction. The cord reel shall be located One (1) CL1, One (1) CR1 on the tiller chassis body.

Comply with Section 4.75: YES _____ NO _____

Bidder Response Section 4.75:

4.76 Cord Reel Junction Box

There shall be two (2) Circle-D model PF51G-3 electrical junction box, equipped with four (4) electrical receptacles, provided and hard wired to the cord reel. The receptacles shall be enclosed in a UL listed, NEMA Type 3R cast aluminum box with aluminum finish and NFPA required indicator light.

Comply with Section 4.76: YES _____ NO _____

Bidder Response Section 4.76:

4.77 Receptacle Junction Box, Duplex NEMA L5-15R

There shall be eight (8) Circle-D, NEMA L5-15R DPLX, duplex twist lock type receptacle(s) installed in the junction box. The receptacle shall be rated at 15 amps and 120 volts. Receptacles shall be installed in the following locations of the junction box: 1,2,3,4.

Comply with Section 4.77: YES _____ NO _____

Bidder Response Section 4.77:

4.78 Volt Twist Lock, Single Receptacle

There shall be two (2), single outlet box(es). The box shall contain one (1) NEMA L5-15, 120 Volt 15 ampere rating Twist Lock type receptacle wired to the generator. The receptacle(s) shall have spring loaded weather resistant covers. The receptacle(s) shall be located on the rear of the tiller body one left one right.

Comply with Section 4.78: YES _____ NO _____

Bidder Response Section 4.78:

4.79 Kenwood Radio System

- 4.79.1 A Kenwood TK-5710, VER 3 (1024 channels) with firmware version 6E0E, 50W remote mount VHF (136-174 MHz) mobile radio with full feature control head shall be contractor supplied, installed, and tested for proper operation with FCC compliance.
- 4.79.2 The radio transceiver shall be mounted within the rear radio compartment and connected to battery switched power as provided in the radio compartment and fused with a 15A ATC fuse.
- 4.79.3 The Kenwood radio shall have a Kenwood Part # KLF-2 DC line filter installed.
- 4.79.4 The Kenwood full feature control head shall be mounted on the dash board with location finalized at pre-construction.
- 4.79.5 The Kenwood radio shall include one KMC-28 DTMF microphone.
- 4.79.6 Two Kenwood KES-5 mobile radio speakers shall be contractor supplied and installed with the location finalized at pre-construction.
- 4.79.7 A PCTEL part# MWB-1320 antenna tuned to 157 MHz shall be contractor supplied and roof mounted with a Larsen NMOKHFUDMPL antenna cable kit labeled "VHF" on the cable end and terminated to the Kenwood transceiver in the radio compartment.
- 4.79.8 A Comtronix Communications BKRA-1RVC radio intercom adaptor shall be contractor supplied and interfaced between the Kenwood radio and Sigtronics headset system.
- 4.79.9 A water proof amplified radio speaker with volume control shall be contractor supplied and installed at the pedestal control box. The speaker shall be connected to the BKRA-1RVC "siren radio rebroadcast" output for fixed audio to the pedestal speaker.

Comply with Section 4.79: YES _____ NO _____

Bidder Response Section 4.79:

4.80 Intercom, Sigtronics, US-12S (Up To 12 Positions)

There shall be a Sigtronics model US-12S intercom system supplied and installed on the apparatus. The intercom system shall interface with the apparatus mobile radio to allow for radio transmit from designated PTT (push to talk) locations. The System shall have the following capabilities:

- a. Driver: Intercom/PTT
- b. Officer: Intercom/PTT
- c. Tiller Cab Intercom/PTT
- d. Tiller Cab (Training Seat) Intercom Only
- e. Turn Table Intercom/PTT
- f. Four (4) Rear Crew Intercom Only

Comply with Section 4.80: YES _____ NO _____

Bidder Response Section 4.80:

4.81 Intercom Headset

There shall be five (5) Sigtronics model SE-8 intercom headsets included with the intercom system. The headsets shall have a soft head strap designed to be worn under a helmet, a flex microphone boom that rotates 180 degrees for use on either side, and an easy grab volume adjustment knob. The microphone shall be noise canceling with a wind screen and shall be voice activated.

- 4.81.1 **Headset Jack, Interior Mount** - There shall be a Sigtronics headset plug-in jack, part number 800120, provided. The headset jack shall be designed for interior mounting and shall be compatible with Sigtronics headsets
- 4.81.2 **Headset Jack with Splash Cover** - There shall be a Sigtronics headset plug-in jack, part number 800121, with a spring-loaded cover provided. The headset jack shall allow for exterior mounting and shall be compatible with Sigtronics headsets

- 4.81.3 **Intercom Push to Talk Switch** - There shall be a Sigtronics push to talk switch, part number 800122, provided. The switch shall allow for mobile radio transmission through the Sigtronics intercom system with the use of a Sigtronics headset.

Comply with Section 4.81: YES _____ NO _____

Bidder Response Section 4.81:

4.82 PSEC Radio System

- 4.82.1 Two Larsen NMOKHFUDMPL antenna cable kits shall be installed in the roof and routed to the Radio Compartment with “N” type RF connectors terminated. The first cable shall be labeled “700 MHz” on the cable end and a Larsen part# NMOQW700 antenna installed on the roof. The second cable shall be labeled PSEC on the cable end. Antenna locations shall be finalized at pre-construction.
- 4.82.2 A lighted rocker switch shall be installed in the cab console and labeled “PSEC”. The switch shall be powered by the cab console battery “hot all the time” circuit and fused with a 3A ATC fuse. The output of the switch shall be routed to the radio compartment unterminated with a 2’ pigtail. 16-gauge orange stranded wire shall be used and the cable end labeled “PSEC”.

Comply with Section 4.82 YES _____ NO _____

Bidder Response Section 4.82:

4.83 Radio Equipment Mounting

- 4.83.1 An aluminum base mounting plate with minimum mounting dimensions of 20” W X 32”H for communications equipment mounting shall be installed in the cab.
- 4.83.2 Two 12 VDC circuits shall be provided for communications use and terminated on the mounting plate. One circuit shall be battery “hot all the time” and one circuit shall be switched on with the master battery switch. Each circuit shall be 6-gauge red stranded wire, terminated with ¼-20 stud type junction blocks, and each circuit protected with 40 Amp circuit breakers. In addition, one 6-gauge black chassis ground shall be supplied and terminated with a ¼-20 stud type junction block.

Comply with Section 4.83: YES _____ NO _____

Bidder Response Section 4.83:

4.84 Mobile Data Computer (MDC)

- 4.84.1 A Gamber Johnson MDC mount and docking station shall be contractor supplied, assembled and installed to the cab console as follows:
 - a. 1 each. Part# DS- UPPER-M Gamber Johnson - Standard-Adjustable Upper Pole
 - b. 1 each. Part# 7160-0049 Gamber Johnson - Screen Support Vehicle mounting kit
 - c. 1 each. Part# 7160-0750 Gamber Johnson - VESA 75mm Clevis
 - d. 1each. Part# 7160-0264-02 Gamber Johnson – Docking Station
 - e. 1each. Part# BR305-USB2 US Global Sat – USB Cable Set
 - f. 1each. Part# WXR-1850-TN Laird – 2.4 GHz Antenna
- 4.84.2 A US Global Sat GPS antenna Part# MR-350P shall be contractor supplied and roof mounted. The antenna location shall be determined at pre-construction. The GPS antenna cable shall be connected to the Gamber Johnson MDC docking station.

- 4.84.3 Two (2) 12 VDC circuits shall be provided for MDC and communications use and terminated in the cab console. One circuit shall be battery “hot all the time” and one circuit shall be switched on with the master battery switch. Each circuit shall be 8-gauge red stranded wire, terminated with ¼-20 stud type junction blocks, and each circuit protected with 25 Amp circuit breakers. In addition, one 8-gauge black chassis ground shall be supplied and terminated with a ¼-20 stud type junction block.
- 4.84.4 Lind Electronics Part# PA1555-968 shall be installed with Lind Electronics Part# ASMTL-00332 power supply mounting rail within the cab console.
- 4.84.5 The power supply input shall be connected to the above mentioned 12VDC battery “hot all the time” circuit and fused with a 10A ATC fuse.
- 4.84.6 A lighted rocker switch shall be in line with the power supply input circuit and be mounted in the cab console and labeled “MDC”. The output of the power supply shall be connected to the Gamber Johnson docking station.

Comply with Section 4.84: YES _____ NO _____

Bidder Response Section 4.84:

End of Section IV – Electrical

Attachment: FPARC-327 - Aerial Fire Apparatus Bid Packet (Final) (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER FIRE

TAB E – EXHIBIT 5
TABLE OF CONTENT

Section V – Equipment

5.1 Equipment

Attachment: FPARC-327 - Aerial Fire Apparatus Bid Packet (Final) (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER FIRE

SECTION V – EQUIPMENT

5.1 Equipment

5.1.1 The following equipment will be provided by the builder and shipped with the apparatus upon delivery. The equipment listed is also mentioned in the previous sections.

5.1.2 Ladders:

- a. One (1) 8' Werner NXT1A08 Type IA fiberglass single sided step ladder
- b. Two (2) 14' roof ladder, Duo Safety 775DR (Special Width)
- c. Three (3) 10' folding attic ladders, Duo Safety 585A
- d. Two (2) 16' roof ladders, Duo Safety 875A
- e. One (1) 18' roof ladder, Duo Safety 875A
- f. One (1) 20' roof ladder, Duo Safety 875A
- g. Two (2) 28' two section extension ladders, Duo Safety 1200A
- h. Two (2) 35' two section extension ladders, Duo Safety 1200A

5.1.3 Fire Equipment:

- a. Three (3) 6' Aluminum D-Handle Fiberglass Rubbish Hook, Nupla RH-6DA
- b. Two (2) 4' Aluminum D-Handle Fiberglass Ceiling & Wall Hook, Nupla CWH-4YDA
- c. One (1) 4' 6' Aluminum D-Handle Fiberglass Rubbish Hook, Nupla RH-4DA
- d. Two (2) 10' Fiberglass Pike Pole(s), Nupla YPD-10
- e. One (1) 12' Fiberglass Pike Pole(s), Nupla YPD-12
- f. One (1) 18' Fiberglass Pike Pole(s), Nupla YPD-18
- g. Two (2) 6' New York Roof Hook, Fire Hooks Unlimited
- h. Two (2) 4' New York Roof Hook, Fire Hooks Unlimited
- i. One (1) An Akron Brass Style 1494 all-electric ladder pipe rated for 1000gpm, constructed of lightweight Pyrolite and a weight not to exceed 35lbs shall be provided. The monitor shall be 36" in length and have a vertical rotation of 135° with three adjustable stops. The monitor shall have a fully enclosed motor and gears with manual over-ride for the vertical rotation. The control box shall be totally encapsulated to prevent moisture intrusion and use locking IP 67 rated electrical connectors for all motor control outputs and control inputs. The control system shall have one environmentally sealed USB port to facilitate control system updates. The control system shall have a built in wireless transceiver (900 MHz) to facilitate operation from wireless remote control devices. The ladder pipe shall have mounting clamps that are adjustable to fit up to 16" rung spacing. Configuration shall be:
 - 1. Inlet: 2.5" NH
 - 2. Outlet: 2.5" NH
 - 3. Voltage: 12 Volt
- j. Five (5) Streamlight Fire Vulcan LED flash lights, orange in color with 12-volt vehicle charger mounts.
- k. Two (2) 130' Section Continuous 3" Angus Hose with 2 1/2" couplings
- l. One (1) 4 inch female to 4 inch male Task Force Tips Jumbo Gate Valve - PN: AG5NP-NP-01

Comply with Section 5.1: YES _____ NO _____

Bidder Response Section 5.1:

End of Section V – Equipment

COUNTY OF RIVERSIDE

RFP # FPARC-327

TRACTOR DRAWN AERIAL FIRE APPARATUS



ADDENDUM NO. 1
October 4, 2018

CERTIFICATION OF RECEIPT OF ADDENDUM

I certify that I have received this addendum on behalf of the company listed below.

Signed: _____ Dated: _____

Name and title: _____

Company: _____

Attachment: FPARC-327 - Aerial Fire Apparatus Bid .Addendum # 1 (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER FIRE

ADDENDUM NO. 1
TO RFP # FPARC-327

- 1.0** The information in this Addendum is primarily the result of the pre-proposal conference held on September 5, 2018 and written questions submitted by vendors prior to the deadline for submission of questions.

This addendum is part of the Request for Proposal (RFP). All other terms of the RFP remain unchanged and in effect. This addendum is intended to provide additional information and/or to change requirements in the above referenced RFP. Any information contained herein will be considered part of the RFP and as such will be used in the evaluation of proposals. Attention all potential Bidders, if you have already submitted your proposal prior to the RFP closing date, please review this addendum and re-submit your proposal should this addendum modify your initial response.

2.0 Modification to Tab E - Specifications:

Please refer to Exhibit A of this Addendum for details.

3.0 Response to Vendor Written Questions:

Please refer to Exhibit B of this Addendum for details.

4.0 Pre-Proposal Meeting Minutes:

Please refer to Exhibit C of this Addendum for details.

RFP # FPARC-327
Addendum No. 1 – Exhibit A
Changes to Tab E – Apparatus Specifications

Modification to Tab E – Apparatus Specifications:

1.0 Please remove Paragraph 2.35 and replace with Paragraph 2.35A below:

2.35A Engine

The apparatus shall be equipped with a current model year Cummins X15 diesel engine governed at 2100RPM and rated for fire service. The following requirements shall be met:

- a. 15.0 Liter maximum displacement.
- b. 600 Minimum horsepower.
- c. 1850 lb/ft minimum torque at 1,200RPM.

The engine shall meet the current 50 State emission requirements

Comply with Section 2.35A: YES ___ NO ___

Bidder Response Section 2.35A:

2.0 Please remove Paragraph 2.58 and replace with Paragraph 2.58A below:

2.58A Diesel Exhaust Fluid Tank

The exhaust system shall include a molded cross linked polyethylene tank for Diesel Exhaust Fluid (DEF). The tank shall have a capacity of ten (10) usable gallons and shall be mounted on the left-hand side located mid chassis underneath the cab door to provide easy access to the DEF filler.

Comply with Section 2.58A: YES ___ NO ___

Bidder Response Section 2.58A:

3.0 Please remove Paragraph 2.59 and replace with 2.59A below:

2.59A Engine Exhaust Accessories

An exhaust temperature mitigation device shall be shipped loose for installation by the body manufacturer on the vehicle. The temperature mitigation device shall lower the temperature of the exhaust by combining ambient air with the exhaust gasses at the exhaust outlet. The engine exhaust shall terminate at a 90-degree angle on the officer side with the ability to accommodate a Plymovent connection.

Comply with Section 2.59A: YES ___ NO ___

Bidder Response Section 2.59A:

4.0 Please remove Paragraph 2.62 and replace with Paragraph 2.62A below:

2.62A Transmission

The drive train shall include an Allison model EVS 4500 torque converting, automatic transmission which shall include electronic controls. The transmission shall feature two (2) 10-bolt PTO pads located on the converter housing. The transmission shall include two (2) internal oil filters which shall offer Castrol

TranSynd™ synthetic TES 295 transmission fluid which shall be utilized in the lubrication of the EVS transmission. An electronic oil level sensor shall be included with the readout located in the shift selector.

The transmission gear ratios shall be:

- a. 1st 3.51:1
- b. 2nd 1.91:1
- c. 3rd 1.43:1
- d. 4th 1.00:1
- e. 5th 0.74:1
- f. 6th 0.64:1 (if applicable)
- g. Rev 4.80:1

Comply with Section 2.62A: YES ___ NO ___

Bidder Response Section 2.62A:

5.0 Please remove Paragraph 2.90 and replace with Paragraph 2.90A below:

2.90A Front End Torque

All front-end suspension components shall be re-torqued to the manufacturers specifications once delivered to the local California warranty facility.

Comply with Section 2.90A YES ___ NO ___

Bidder Response Section 2.90A:

6.0 Please remove Paragraph 2.125 and replace with Paragraph 2.125A below:

2.125A Air Supply Lines

The air system on the chassis shall be plumbed with color coded reinforced nylon tubing air lines. Brass compression type fittings shall be used on the nylon tubing. All drop hoses shall be fiber reinforced neoprene covered hoses. All nylon air tubing on the chassis shall be covered with high temperature plastic split loom.

Comply with Section 2.125A YES ___ NO ___

Bidder Response Section 2.125A:

7.0 Please remove Paragraph 2.146 and replace with Paragraph 2.146A below:

2.146A Climate Control

A ceiling mounted combination defroster and cabin heating and air conditioning system shall be located above the engine tunnel area. The system covers and plenums shall be of severe duty design made of aluminum which shall be coated with a customer specified interior paint. The design of the system's covers shall provide quick access to washable air intake filters as well as easy access to other serviceable items. The air delivery plenums provide targeted airflow directly to the vehicle occupants. It shall be capable of reducing the interior cabin air temperature from 122° F (+/- 3° F) to 80° F in thirty minutes with 50% relative humidity and full solar load as described in SAE J2646. The system shall also provide heater pull up performance which meets or exceeds the performance requirements of SAE J1612 as well as defrost performance that meets or exceeds the performance requirements of SAE J381. A gravity drain system shall be provided that is capable of evacuating condensate from the vehicle while on a slope of up to a 13% grade in any direction. Any component which

needs to be accessed to perform system troubleshooting shall be accessible by one person using basic hand tools. Regularly serviced items shall be replaceable by one person using basic hand tools.

2.146.1A Climate Control Activation

The heating, defrosting and air conditioning controls shall be located in the cab.

2.146.2A HVAC Overhead Cover Paint

The overhead HVAC cover shall be painted with a black texture finish.

2.146.3A A/C Condenser Location

A roof mounted A/C condenser shall be installed on the left side of the cab, mid-roof.

2.146.4A A/C Compressor

The air-conditioning compressor shall be a belt driven, engine mounted compressor. The compressor shall be compatible with R134-a refrigerant.

2.146.5A Auxiliary A/C Cab Ceiling/Roof

A Bergstrom Model # BSP00029AC24 24-volt. The system shall consist of one (1) 110-volt air conditioning roof mounted unit which shall be located above the crew area and offset left of center on the cab roof above the crew area. The cover of the air conditioning unit shall be painted red (job/body color). The system shall be pre-wired with enough cable for the body builder to connect to a 110-volt power source. The air conditioning system shall be wired to a transfer switch allowing for power supplied via the following: shorepower, batteries, inverter, converters and/or generator, in order to provide uninterrupted (no idle) A/C to the cab. The condensation drain line shall be installed as to not have water run down the front or sides of the cab.

with Section 2.146A YES _____ NO _____

Bidder Response Section 2.146A:

8.0 Please remove Paragraph 2.208 in its entirety

9.0 Please add Paragraph 3.151 to Section III – Aerial Body & Trailer

3.151 Wireless Aerial Camera

A Fire Research inView™ TrueSight™ model BCA211-A00 kit shall include: (1) one 130° wireless camera with 9 infrared illuminators and (1) one 7" InCab Wireless Monitor. The Monitor and Camera shall connect wirelessly through the built-in Wireless Transmitters. The Wireless Transmitter shall have up to 70 feet of transmission. The camera and monitor shall have the capability of being paired inside of the cab through the Auto Pair function. The 130° Camera shall include the following features: ¼" Sharp Color CCD Sensor, 250,000 pixels for Picture Elements and Gamma Correction with R=0.45 to 1.0. The Image Sensor shall provide 540 TV Lines PAL: 752(H) *582(V), NTSC: 769(H) x 494(V). The 2.1MM Lens shall have a 130° Viewing Angle. The Waterproof rating shall be IP68K. The kit shall include an Internal Synchronization Sync System. The Infrared Distance shall be 50 Ft. (9 Infrared IR). The Usable Illumination shall be 0 Lux (with IR ON). The Power Source shall be DC 12V/3A (+/-10%). Signal-to-Noise ratio (S/N Ratio) shall be rated for higher than 48DB. The Electronic Iris rating shall be 1/50, 1/60-1/100,000 seconds. Video Output rating shall be 1VP.P 75 Ω. The IR Switch Control shall have ACDS Automatic Control. Vibration and Impact Rating shall be 20G/100G. The Operating Temperature rating shall be -22°F ~ +176°F / RH 95% Max. The Storage Temperature rating shall be -22°F ~ +140°F / RH 95% Max.

The model BCA211-A00 kit also shall include (1) one 7" Wireless InCab Digital Color TFT LCD Monitor. The specifications shall be as follows for the monitor:

- Dot Resolution: 800 x 3 (RGB) x 480
- Display Format/Contrast: 16:9 / 500:1
- Display Brightness: 400 CD/m2
- Viewing Angle: U:50° D:60° L/R:70°
- 2 Channel Video Input (for dual screen/mirror image capabilities)
- Distance Grid Lines
- 1 VP-P, 75Ω
- Power Supply: DC 12V-24V (+/-10%)
- Power Consumption: 5W
- Operating Temperature: -22°F ~ +176°F
- Video System: Auto NTSC/PAL
- Overall Dimensions: 7" (L) x 5" (H) x 1" (D)
- Weight: 400G
- Vibration Rating: 5G
- Dot Pitch: 0.192 (H) x 0.1805 (V)
- Internal Sync System

Location of the 130° wireless camera with 9 infrared illuminators shall be installed on the tip of the aerial and the 7" InCab wireless monitor shall be located on the turn table next to the aerial controls. The exact location of the camera and monitor shall be determined at the pre-construction meeting.

Comply with Section 3.151 YES NO

Bidder Response Section 3.151:

10.0 Please remove Paragraph 4.80 and replace with 4.80A below:

4.80A Intercom Headset

There shall be a Sigtronics model US-12S intercom system supplied and installed on the apparatus. The intercom system shall interface with the apparatus mobile radio to allow for radio transmit from designated PTT (push to talk) locations.

The System shall have the following capabilities:

- Driver: Intercom/PTT
- Officer: Intercom/PTT
- Tiller Cab: Intercom/PTT
- Tiller Cab: (Training Seat) Intercom Only
- Turn Table: Intercom/PTT
- Four (4) Rear Crew Intercom Only

Comply with Section 4.80A YES NO

Bidder Response Section 4.80A:

11.0 Please remove Paragraph 4.81 and replace with Paragraph 4.81A

4.81A Intercom Headset

There shall be five (5) Sigtronics model SE-8-RVC intercom headsets included with the intercom system. The headsets shall have a soft head strap designed to be worn under a helmet, a flex microphone boom that rotates

180 degrees for use on either side, and an easy grab volume adjustment knob. The microphone shall be noise canceling with a wind screen and shall be voice activated.

4.81.1A Headset Jack, Interior Mount - There shall be a Sigtronics headset plug-in jack, part number 800120, provided. The headset jack shall be designed for interior mounting and shall be compatible with Sigtronics headsets

4.81.2A Headset Jack with Splash Cover - There shall be a Sigtronics headset plug-in jack, part number 800121, with a spring-loaded cover provided. The headset jack shall allow for exterior mounting and shall be compatible with Sigtronics headsets

4.81.3A Intercom Push to Talk Switch - There shall be a Sigtronics push to talk switch, part number 800122, provided. The switch shall allow for mobile radio transmission through the Sigtronics intercom system with the use of a Sigtronics headset.

Comply with Section 4.81A: YES ___ NO ___

Bidder Response Section 4.81A:

Attachment: FPARC-327 - Aerial Fire Apparatus Bid .Addendum # 1 (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER FIRE

RFP # FPARC-327
Addendum No. 1 – Exhibit B
Response to Vendor Written Questions

Question # 1

1.18.11 - Performance tests and requirements; request you add a requirement for bidders to provide a turning ability report for their proposed apparatus. Also reference section 2.95 Front Axle Cramp Angle.

County Response: *Please include as a separate attachment in your proposal the maximum turning radius of the apparatus being proposed.*

Question # 2

2.18/2.19/2.184 - Cab Roof; based on pre-bid meeting, these sections need to be modified to reflect; 1) deletion of the aluminum treadplate overlay, 2) white Line-X over entire flat surface of the roof and 3) radiused sides of the roof (visible from the ground) will be red (job/body color).

County Response: *Please delete Paragraph 2.184 – Trim Roof in its entirety.
Clarification, Paragraph 2.19 please provide white Line-X type material over the entire flat surface of the roof (not visible from the ground).
Clarification, Paragraph 2.18 the roof radiuses to remain red (job/body color).*

Question # 3

2.58 - DEF tank location; two locations indicated in spec. Confirm the desired location.

County Response: *The specification has been modified to read as follows:
The exhaust system shall include a molded cross linked polyethylene tank for Diesel Exhaust Fluid (DEF). The tank shall have a capacity of ten (10) usable gallons and shall be mounted on the left-hand side located mid chassis underneath the cab door to provide easy access to the DEF filler.

Please see Amendment # 1, Exhibit A for details.*

Question # 4

2.89/2.90 - Front Suspension/Front End Torque; both sections have the same verbiage and no reference to torque value.

County Response: *Section 2.90 has been changed to read as follows:
All front-end suspension components shall be re-torqued to the manufacturers specifications once delivered to the local California warranty facility.

Please see Amendment # 1, Exhibit A for details.*

Question # 5

2.125 - Air Supply Lines; same verbiage as 2.124 Moisture Ejectors

County Response: *Section 2.125 has been changed to read as follows:
The air system on the chassis shall be plumbed with color coded reinforced nylon tubing air lines. Brass compression type fittings shall be used on the nylon tubing. All drop hoses shall be fiber reinforced neoprene covered hoses. All nylon air tubing on the chassis shall be covered with high temperature plastic split loom.*

Please see Addendum # 1, Exhibit A for details.

Question # 6

2.208 Misc Equipment Allowance; provide a more detailed description of what is and is not included in the 10,000 lbs misc equip allowance. Also, the unequipped apparatus and personnel weight verbiage is confusing.

County Response: *Please delete this section in its entirety.*

Question # 7

2.216 - Mechanic Override Switch; provide a more defined explanation of what is desired; include a mechanical means of securing/eliminating the steering of the tiller axle.

County Response: *Please refer to Section 3.111.1 for details.*

Question # 8

3.22.1 - Cmpt L0; confirm this is a duplicate of the item in 3.38 Frame Ladder Storage.

County Response: *Yes, this is a duplicate.*

Question # 9

3.22.2/3.23.2 - Cmpt R0; confirm this is a duplicate of item 3.37 Stokes Basket Storage

County Response: *Yes, this is a duplicate.*

Question # 10

Question #8 clarification; this will be for 3.23.1 Cmpt R0 as well.

County Response: *Yes, this side will be identical to the LO compartment specified in Section 3.22.1.*

Question # 11

Question #9 clarification; this will be for Cmpt L1 & R1.

County Response: *Yes, this will also be for compartment L1 and R1.*

Question # 12

3.64 - Aerial Egress Paint Color; confirm that this will now be body/job color (red).

County Response: *Yes, Aerial Egress Paint Color – Red (job/body color).*

Question # 13

4.42 - Map Lights; confirm deletion of the 18" Federal Signal light and that the two (2) Sunnex lights are all that is required.

County Response: *Yes, delete the 18" Federal Signal light, retain the (2) Sunnex lights.*

Question # 14

4.59 - Streamlight Vulcan Lights; confirm a total of five (5) lights and provide general locations (# in cab, # in compartment(s), # in tiller cab, etc.)

County Response: *Yes, quantity of 5 lights, exact location to be determined at pre-construction meeting.*

Question # 15

4.79 - Kenwood Radio System; update what will be fire department supplied and if bidders will be providing installation, etc.

County Response: *The county is still determining what make/model VHF radio will be installed. The county will provide the radio, and all required accessories to the vendor. The vendor will be providing the installation. The radio will most likely be a remote mount style radio, with the control head installed in the dash, and the radio pack installed in another location. The county will provide all the required remote cables needed for the install. The county will also provide (for vendor install) the headset radio interface adaptor.*

Question # 16

4.80 - Intercom, Sigtronics; confirm this will be deleted and provide updated requirements if available.

County Response: *There shall be a Sigtronics model US-12S intercom system supplied and installed on the apparatus. The intercom system shall interface with the apparatus mobile radio to allow for radio transmit from designated PTT (push to talk) locations.*

The System shall have the following capabilities:

Driver: Intercom/PTT

Officer: Intercom/PTT

Tiller Cab: Intercom/PTT

Tiller Cab: (Training Seat) Intercom Only

Turn Table: Intercom/PTT

Four (4) Rear Crew Intercom Only

Please see Addendum # 1, Exhibit A for details.

Question # 17

4.81 - Intercom Headsets; confirm this will be deleted and provide updated requirements if available.

County Response: *There shall be five (5) Sigtronics model SE-8-RVC intercom headsets included with the intercom system. The headsets shall have a soft head strap designed to be worn under a helmet, a flex microphone boom that rotates 180 degrees for use on either side, and an easy grab volume adjustment knob. The microphone shall be noise canceling with a wind screen and shall be voice activated.*

Please see Addendum # 1, Exhibit A for details

Question # 18

4.84 - MDC; specified docking station is no longer available. Provide updated information if available.

County Response: *The County requires the Gamber Johnson Tablet Display Mount for F110 (7160-0494), Getac Lind DC Vehicle Power Supply with Bare Wires (GAD2L1). All other parts listed in this paragraph remain unchanged.*

Question # 19

3.34 - Compartment T2; provide additional detail with regard to the air supply required. Is there a standard female quick-connect coupling that needs to be provided?

County Response: *County shall supply the coupling. The exact location of the air connection will be determined at the pre-construction meeting.*

Question # 20

3.1.6 - Trailer axle suspension calls for DSP Ride Tech suspension. Can you provide more specific information for this suspension.

County Response: *The County requires an air ride suspension design that will allow the apparatus to safely travel at highway speeds over improved road surfaces as per NFPA standards for a Tractor Drawn Aerial. The suspension shall provide minimal transfer of road shock and vibration to the apparatus crew compartment (Tiller Cab).*

Attachment: FPARC-327 - Aerial Fire Apparatus Bid .Addendum # 1 (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER FIRE

**RFP # FPARC-327
Addendum No. 1 – Exhibit C
Pre-Proposal Meeting Minutes**

Attachment: FPARC-327 - Aerial Fire Apparatus Bid .Addendum # 1 (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER FIRE

**Request for Proposal RFP # FPARC-327
Riverside County Fire Department
Tractor Drawn Aerial Fire Apparatus
Minutes of Pre-Proposal Conference
September 5, 2018**

PRESENT

John Miller	Procurement Contract Specialist, Riverside County Purchasing and Fleet Services
Justin McGough	Cal Fire Battalion Chief
Dan Olson	Cal Fire Battalion Chief
Justin Scribner	Cal Fire Battalion Chief
Jose Gallardo	Fire Department Fleet Manager
Gus Nava	Fire Department Fleet Supervisor East
Randy Baker	Fire Department Fleet Supervisor West
Scott Merrill	Fire Department Sr. Heavy Equipment Mechanic
Peter Lent	Fire Department Communications Technician

(Reference Attached List for Complete Attendance Roster)

The meeting was called to order at 9:00 a.m., with introductions made by John Miller, Procurement Contract Specialist for the RFP. It was stated that the County will accept written questions/clarifications until 1:30 p.m., prevailing local time on Wednesday, September 26, 2018 and will respond to those questions by the deadline of Wednesday, October 3, 2018 COB. All questions/clarifications must be submitted in writing via the Public Purchase website. No oral changes or communications are binding. Any questions/clarifications approved for one Bidder will be approved for all Bidders. The RFP closing date is October 24, 2018 at 1:30 p.m. All responses to the RFP shall be delivered to the address listed in Appendix A, Paragraph 1.4 prior to the deadline for submission of proposals.

Mr. Miller reviewed key sections of the RFP terms and conditions, scope of work, attachments, contact information, and key dates as follows:

Specific review of the RFP:

- All inquiries relating to this solicitation shall be directed to John Miller. Please do not contact other County Staff in connection with this solicitation. Failure to do so may result in your proposal being deemed non-responsive. Questions must be submitted in writing via the Public Purchase website. Verbal communication is not binding.
- Mr. Miller began with stating the purpose of the Pre-Proposal Conference was to go over the solicitation document and provide an opportunity for questions/clarifications and open dialog so interested firms would have a complete understanding of the requirement and how to properly submit their proposal. Mr. Miller stated that responses provided at the pre-proposal conference were for clarification purposes only and were not binding. Questions relating to changes to the specifications, scope, or terms and conditions must be submitted in writing prior to the deadline for submission of questions. Mr. Miller also stated that as a result of this RFP the County intends to award a contract for up to five (5) year to the most responsive, responsible Bidder; whose proposal, represents the best value to the County.

- Mr. Miller went over the structure of the RFP document and where pertinent information can be found and stated the RFP consists of two documents, the Terms and Conditions Document (23 pages) and Bidder Proposal Response Document (159 pages).
- Mr. Miller reviewed the RFP timeline and important dates and reminded everyone to make sure to read all sections of the RFP carefully.
- Mr. Miller briefly went over the content of the Terms and Conditions Document, Appendix A with specific review of the following sections:
 - Instructions to Bidders (Page 3 of 23)
 - Section 1.0 Timeline/Important Dates (Page 5 of 23)
 - Section 2.0 Period of Performance (Page 6 of 23)
 - Section 4.0 Evaluation Process (Page 7 of 23)
 - Section 5.0 General Proposal Submittal (Page 7 of 23) with specific attention to sub-paragraph 5.6, 5.7, 5.8 and 5.9.
 - Section 8.0 Contractual Development (Page 9 of 23)
 - Exhibit A – Sample Agreement (Page 11-23)

Mr. Miller also stated that any exception or deviations to the terms and conditions or sample agreement must be clearly stated in the proposal response and depending on the exception or deviation it could result in a Bidder's proposal being found non-responsive.

- Mr. Miller then went over the content and structure of the Bidder Proposal Response Document consisting of 159 pages with specific attention to the following areas:
 - Appendix A, Section 2.0 Purpose
 - Tab A – Proposal Checklist
 - Tab B – Proposal Cover Page
 - Tab F – References
 - Tab H – Price Proposal
 - Tab I – Financial Statement
- The majority of the meeting consisted of an in-depth review of Tab E – Specifications. At this time, Mr. Miller turned over the meeting to the Apparatus Committee. During this review, Mr. Miller read out loud the title of each paragraph/section in Tab E. When a question was asked, or the County wanted to provide additional clarifying remarks, Mr. Miller would stop and read the specific paragraph/section in its entirety prior to the Apparatus Committee responding.
- The following Sections of Tab E received clarifying questions from firms in attendance or the County provided additional clarifying remarks:

Section I – General:

- 1.1 – Proposal Submission
- 1.3 – Proposal Information
- 1.6 – Construction Drawings
- 1.10 – Warranty Length
- 1.11 – Warranty Repair Parts
- 1.12 – Warranty Item General Repairs
- 1.15 – Acceptance Authority
- 1.17 – Delivery

- 1.18 – Performance Test and Requirements
- 1.20 – General Apparatus Construction Criteria
- 1.25 – Replacement Parts

Section II – Cab and Chassis:

- 2.4 – Apparatus Type
- 2.10 – Cab Style
- 2.35 – Engine
- 2.58 – Diesel Exhaust Fluid Tank
- 2.62 – Transmission
- 2.76 – Driveline Retarder Control
- 2.90 – Front End Torque
- 2.94 – Tiller Steering Provisions
- 2.95 – Front Axle Cramp Angle
- 2.108 – Front Wheel
- 2.109 – Rear Wheel
- 2.124 – Moisture Ejectors
- 2.125 – Air Supply Lines
- 2.132 – Rear Tow Device
- 2.133 – Frame Paint
- 2.146 – Climate Control
- 2.162 – Interior Rear Wall Compartment
- 2.164 – Interior Rear Wall Compartment Lighting
- 2.173 – Seating
- 2.184 – Trim Roof
- 2.203 – Overall Length
- 2.208 – Miscellaneous Allowance
- 2.216 – Mechanics Override Switch

Section III – Aerial Body & Trailer:

- 3.1 – Trailer Structure and Components
- 3.5 – Windshield
- 3.8 – Transmission Selector Safety Switch
- 3.11 – Tiller Cab Heating and Air Conditioning System
- 3.22 – Compartment Left Side
- 3.29 – Compartment Door Holders, Gas Struts
- 3.34 – Storage Compartment, Tiller, Left Side, Rear Compartment T2
- 3.37 – Stokes Basket Storage
- 3.38 – Frame Ladder Storage (Inside Compartment)
- 3.47 – Two Rear Tow Eyes
- 3.52 – Roll Out Equipment Tray(s)
- 3.64 – Aerial Ladder Egress Paint Color
- 3.79 – Illustrated Aerial Operation/Maintenance Manuals
- 3.80 – Special Tools Package
- 3.82 – Aerial Device Instruction Provided
- 3.91 – Lifting Eyes
- 3.92 – Primary Dimensions
- 3.115 – Front Stabilizers, Tiller

- 3.143 – Akron 1494 Ladder Pipe

Section IV – Electrical:

- 4.1 – Battery
- 4.18 – V-Mux Electrical Management System
- 4.19 – Weatherproof Door Switches
- 4.37 – Brow Lights
- 4.42 – Map Lights
- 4.59 – Streamlight Rechargeable Lights
- 4.79 – Kenwood Radio System
- 4.80 – Intercom, Sigtronics, US-12S (up to 12 positions)
- 4.81 – Intercom Headset
- 4.84 – Mobile Data Computer (MDC)

Section V – Equipment:

No clarifying remarks or questions were asked or addressed to Section V - Equipment.

Mr. Miller reminded Bidders that they must submit all required documents, including acknowledgement of any Addenda to the RFP when submitting their proposal. The specifications annotated in the RFP are the requirements of the County; however, if a Bidder is unable to comply based on their manufacturing process or their designed approach, the bidder is to check “no” and in the space provided include details/supporting documentation of their alternative approach.

The County will consider slight deviations to the specifications provided the deviations do not negatively alter the form, fit and function of the required apparatus. At this time, the county will not accept multiple proposals from a single Bidder. Bidders shall consider their initial proposal as their best and final offer as the County may choose to award without entering into discussions or negotiations.

Mr. Miller concluded the meeting with restating that answers provided to the questions were for clarification purposes only and are not binding. Any question to the terms, conditions and specifications of the RFP need to be submitted in writing via Public Purchase prior to 1:30 p.m. on September 26, 2018.

Mr. Miller adjourned the meeting at 11:39 a.m.

Sincerely,

John Miller, Procurement Contract Specialist

JM:
cc: All Bidders
Procurement File





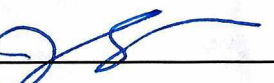



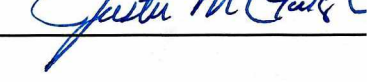
RIVERSIDE COUNTY FIRE DEPARTMENT PRE-PROPOSAL CONFERENCE

County

A.19.b

RFP # FPARC-327 TRACTOR DRAWN AERIAL FIRE APPARATUS

September 5, 2018 @ 9:00AM

Name (Please Print)	Company	Telephone	E-Mail	Signature
John Miller	Fire	951-634-3090	john.miller@fire.ca.gov	
DAN OLSON	CAL FIRE	951 837-1615	DAN.OLSON@fire.ca.gov	
Scott Merrill	RRU Indio Shop	760-272-8077	scott.merrill@fire.ca.gov	
Peter Lent	RVC Fire - COM	951-442-5485	Peter.Lent@fire.ca.gov	
Justin Scribner	CAL FIRE	951-581-2373	Justin.Scribner@fire.ca.gov	
Randy Baker	RVC	951-435 9897	randy.baker@fire.ca.gov	
Jose Gallardo	Cal Fire	602-679-9577	jose.gallardo@fire.ca.gov	
GUS NAVA	RVC FIRE	760-272-8072	Gus.Nava@fire.ca.gov	
JUSTIN McLaughlin	CAL FIRE - B3118	951-840-8155	justin.mclaughlin@fire.ca.gov	

Attachment: FPARC-327 - Aerial Fire Apparatus Bid .Addendum # 1 (3359 : AUTHORIZATION TO

RIVERSIDE COUNTY FIRE DEPARTMENT PRE-PROPOSAL CONFERENCE

Vendors

A.19.b

RFP # FPARC-327 TRACTOR DRAWN AERIAL FIRE APPARATUS

September 5, 2018 @ 9:00AM

Name (Please Print)	Company	Telephone	E-Mail	Signature
Cran Pentz	Socal Fleet Services	951-751-1584	opentz@socalfl.com	
Tim Olley	South Coast Fire	951-294-1686	Tim@SouthCoastFire.net	
TRAVIS GRINSTEAD	EMERGENCY VEHICLE GROUP	949-292-0792	TGRINSTAD@EVGIND.NET	
James Weber	Emergency Vehicle Group	714-749-7978	weber@evginc.net	
ROB WIRTZ	VSSC GROUP (VALLEY STATES)	570 578 7965	RWIRTZ@VSSCGROUP.COM	
JOE LAROCCA	ROSENBAUER	951-642-1281	jlarocca@wsfireequip.com	
Marc Mazza	KME	570 249 7401	mmazza@kmeffire.com	
BRANDON GOMEZ	KME	909-917-4339	bgomez@kmeffire.com	
MICHAEL DERRIN	FERRARA	225-907-7101	MIKE@FERRARAFIRE.COM	
TREVOR MATRIZO	SO CAL TURT	951-377-4492	T.MATRIZO@SOCIALSECT.COM	

Attachment: FPARC-327 - Aerial Fire Apparatus Bid .Addendum # 1 (3359 : AUTHORIZATION TO

PROCUREMENT AGREEMENT

for

101' TRACTOR DRAWN AERIAL FIRE TRUCK

between

COUNTY OF RIVERSIDE

and

KOVATCH MOBILE EQUIPMENT

DBA KME FIRE APPARATUS



Attachment: FPARC-07057-002-0524 KME 101' TDA FINAL Quote [Revision 1] (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER

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Attachment: FPARC-07057-002-0524 KME 101' TDA FINAL Quote [Revision 1] (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER

This Agreement, made and entered into this 1st day of May, 2019, by and between Kovatch Mobile Equipment DBA KME Fire Apparatus (herein referred to as "CONTRACTOR"), and the COUNTY OF RIVERSIDE, a political subdivision of the State of California, (herein referred to as "COUNTY"). The parties agree as follows:

1. Description

1.1 CONTRACTOR shall provide 101' Tractor Drawn Aerial Fire Apparatus as specified in Exhibit A, at the prices stated in Exhibit B, Payment Provisions.

1.2 CONTRACTOR represents that it has the skills, experience, and knowledge necessary to perform under this Agreement and the COUNTY relies upon this representation. CONTRACTOR shall perform to the satisfaction of the COUNTY and in conformance to and consistent with the highest standards of firms in the same discipline in the State of California.

1.3 CONTRACTOR affirms this it is fully apprised of all of the work to be performed under this Agreement; and the CONTRACTOR agrees it can properly perform this work at the prices stated in Exhibit B. CONTRACTOR is not to perform services or provide additional products outside of the Agreement.

1.4 Acceptance by the COUNTY of the CONTRACTOR's performance and deliverables under this Agreement does not operate as a release of CONTRACTOR's responsibility for full compliance with the terms of this Agreement.

2. Period of Performance

2.1 This Agreement shall be effective upon signature by both parties and will continue in effect until April 30th, 2024, unless terminated earlier. The COUNTY's shall place individual Purchase Orders against this contract for the apparatus specified in Exhibit A at the prices stipulated in Exhibit B. The Riverside County Board of Supervisors is the only authority that may obligate the County for a non-cancelable multi-year agreement.

3. Compensation

3.1 The COUNTY shall pay the CONTRACTOR for the apparatus specified in Exhibit A in accordance with the terms of Exhibit B, Payment Provisions. Maximum payments by COUNTY to CONTRACTOR shall not exceed the per unit price of the apparatus, including all expenses. The COUNTY is not responsible for any fees or costs incurred above or beyond the contracted amount and shall have no obligation to purchase any specified amount. Unless otherwise specifically stated in Exhibit B, COUNTY shall not be responsible for payment of any of CONTRACTOR's expenses related to this Agreement.

3.2 No price increases will be permitted during the first year of this Agreement. All price decreases (for example, if CONTRACTOR offers lower prices to another governmental entity) will automatically be extended to the COUNTY. The COUNTY requires written proof satisfactory to COUNTY of cost increases prior to any approved price adjustment. After the first year of the award, a minimum of 30-days advance notice in writing is required to be considered and approved by COUNTY. No retroactive price adjustments will be considered. Any price increases must be stated in a written amendment to this Agreement. The Annual increases shall not exceed the Producer Price Index 1413-027 – Buses and firefighting vehicles, complete, produced on purchased chassis and be subject to satisfactory performance review by the COUNTY and approved (if needed) for budget funding by the Board of Supervisors.

3.3 CONTRACTOR shall be paid in accordance with a proper invoice submitted to the COUNTY by CONTRACTOR, and COUNTY shall pay the invoice within thirty (30) working days from the date of receipt of the invoice or acceptance of the apparatus, whichever is later. Payment shall be made to CONTRACTOR only after delivery and acceptance has been made by COUNTY. Prepare invoices in duplicate. For this Agreement, send the original and duplicate copies of invoices to:

Riverside County Fire Department
Attn: Accounts Payable
210 West San Jacinto Ave.
Perris, CA 92570

- a) Each invoice shall contain a minimum of the following information: invoice number and date; remittance address; bill-to and ship-to addresses; Agreement number (FPARC-07057-002-05/24); purchase order number; quantities; item descriptions, unit prices, extensions, sales/use tax if applicable, and an invoice total.

3.4 The COUNTY obligation for payment of this Agreement beyond the current fiscal year end is contingent upon and limited by the availability of COUNTY funding from which payment can be made. In the State of California, Government agencies are not allowed to pay excess interest and late charges, per Government Codes, Section 926.10. No legal liability on the part of the COUNTY shall arise for payment beyond June 30 of each calendar year unless funds are made available for such payment. In the event that such funds are not forthcoming for any reason, COUNTY shall immediately notify CONTRACTOR in writing; and this Agreement shall be deemed terminated, have no further force, and effect.

4. Alteration or Changes to the Agreement

4.1 The Board of Supervisors and the COUNTY Purchasing Agent and/or his designee are the only authorized representatives who may alter this Agreement. Any alteration to the terms, conditions and pricing of this Agreement shall only be authorized via a written Amendment to this Agreement issued by the COUNTY.

5. Termination

5.1. COUNTY may terminate this Agreement without cause upon 30 days written notice served upon the CONTRACTOR stating the extent and effective date of termination.

5.2 COUNTY may, upon five (5) days written notice terminate this Agreement for CONTRACTOR's default, if CONTRACTOR refuses or fails to comply with the terms of this Agreement or fails to make progress that may endanger performance and does not immediately cure such failure.

5.3 CONTRACTOR's rights under this Agreement shall terminate (except for fees accrued prior to the date of termination) upon dishonesty or a willful or material breach of this Agreement by CONTRACTOR; or in the event of CONTRACTOR's unwillingness or inability for any reason whatsoever to perform the terms of this Agreement. In such event, CONTRACTOR shall not be entitled to any further compensation under this Agreement.

5.4 If the Agreement is federally or State funded, CONTRACTOR cannot be debarred from the System for Award Management (SAM). CONTRACTOR must notify the COUNTY immediately of a debarment. Reference: System for Award Management (SAM) at <https://www.sam.gov> for Central Contractor Registry (CCR), Federal Agency Registration (Fedreg), Online Representations and Certifications Application, and Excluded Parties List System (EPLS)). Excluded Parties Listing System (EPLS) (<http://www.epls.gov>) (Executive Order 12549, 7 CFR Part 3017, 45 CFR Part 76, and 44 CFR Part 17). The System for Award Management (SAM) is the Official U.S. Government system that consolidated the capabilities of CCR/FedReg, ORCA, and EPLS.

5.5 The rights and remedies of COUNTY provided in this section shall not be exclusive and are in addition to any other rights and remedies provided by law or this Agreement.

6. Ownership/Use of Contract Materials and Products

The CONTRACTOR agrees that all materials, reports or products in any form, including electronic, created by CONTRACTOR for which CONTRACTOR has been compensated by COUNTY pursuant to this Agreement shall be the sole property of the COUNTY. The material, reports or products may be used by the COUNTY for any purpose that the COUNTY deems to be appropriate. CONTRACTOR agrees not to release or

circulate in whole or part such materials, reports, or products without prior written authorization of the COUNTY.

7. Conduct of Contractor

7.1 The CONTRACTOR covenants that it presently has no interest, including, but not limited to, other projects or contracts, and shall not acquire any such interest, direct or indirect, which would conflict in any manner or degree with CONTRACTOR's performance under this Agreement. The CONTRACTOR further covenants that no person or subcontractor having any such interest shall be employed or retained by CONTRACTOR under this Agreement. The CONTRACTOR agrees to inform the COUNTY of all the CONTRACTOR's interests, if any, which are or may be perceived as incompatible with the COUNTY's interests.

7.2 The CONTRACTOR shall not, under circumstances which could be interpreted as an attempt to influence the recipient in the conduct of his/her duties, accept any gratuity or special favor from individuals or firms with whom the CONTRACTOR is doing business or proposing to do business, in accomplishing the work under this Agreement.

7.3 The CONTRACTOR or its employees shall not offer gifts, gratuity, favors, and entertainment directly or indirectly to COUNTY employees.

8. Inspection of Service; Quality Control/Assurance

8.1 All performance (which includes services, workmanship, materials, supplies and equipment furnished or utilized in the performance of this Agreement) shall be subject to inspection and test by the COUNTY or other regulatory agencies at all times. The CONTRACTOR shall provide adequate cooperation to any inspector or other COUNTY representative to permit him/her to determine the CONTRACTOR's conformity with the terms of this Agreement. If any services performed or products provided by CONTRACTOR are not in conformance with the terms of this Agreement, the COUNTY shall have the right to require the CONTRACTOR to perform the services or provide the products in conformance with the terms of the Agreement at no additional cost to the COUNTY. When the services to be performed or the products to be provided are of such nature that the difference cannot be corrected; the COUNTY shall have the right to: (1) require the CONTRACTOR immediately to take all necessary steps to ensure future performance in conformity with the terms of the Agreement; and/or (2) reduce the Agreement price to reflect the reduced value of the services performed or products provided. The COUNTY may also terminate this Agreement for default and charge to CONTRACTOR any costs incurred by the COUNTY because of the CONTRACTOR's failure to perform.

8.2 CONTRACTOR shall establish adequate procedures for self-monitoring and quality control and assurance to ensure proper performance under this Agreement; and shall permit a COUNTY representative or other regulatory official to monitor, assess, or evaluate CONTRACTOR's performance under this Agreement at any time, upon reasonable notice to the CONTRACTOR.

9. Independent Contractor/Employment Eligibility

9.1 The CONTRACTOR is, for purposes relating to this Agreement, an independent contractor and shall not be deemed an employee of the COUNTY. It is expressly understood and agreed that the CONTRACTOR (including its employees, agents, and subcontractors) shall in no event be entitled to any benefits to which COUNTY employees are entitled, including but not limited to overtime, any retirement benefits, worker's compensation benefits, and injury leave or other leave benefits. There shall be no employer-employee relationship between the parties; and CONTRACTOR shall hold COUNTY harmless from any and all claims that may be made against COUNTY based upon any contention by a third party that an employer-employee relationship exists by reason of this Agreement. It is further understood and agreed by the parties that CONTRACTOR in the performance of this Agreement is subject to the control or direction of COUNTY merely as to the results to be accomplished and not as to the means and methods for accomplishing the results.

9.2 CONTRACTOR warrants that it shall make its best effort to fully comply with all federal and state statutes and regulations regarding the employment of aliens and others and to ensure that employees performing work under this Agreement meet the citizenship or alien status requirement set forth in federal statutes and regulations. CONTRACTOR shall obtain, from all employees performing work hereunder, all verification and other documentation of employment eligibility status required by federal or state statutes and regulations including, but not limited to, the Immigration Reform and Control Act of 1986, 8 U.S.C. §1324 et seq., as they currently exist and as they may be hereafter amended. CONTRACTOR shall retain all such documentation for all covered employees, for the period prescribed by the law.

9.3 Ineligible Person shall be any individual or entity who: Is currently excluded, suspended, debarred or otherwise ineligible to participate in the federal health care programs; or has been convicted of a criminal offense related to the provision of health care items or services and has not been reinstated in the federal health care programs after a period of exclusion, suspension, debarment, or ineligibility.

9.4 CONTRACTOR shall screen prospective Covered Individuals prior to hire or engagement. CONTRACTOR shall not hire or engage any Ineligible Person to provide services directly relative to this Agreement. CONTRACTOR shall screen all current Covered Individuals within sixty (60) days of execution of this Agreement to ensure that they have not become Ineligible Persons unless CONTRACTOR has performed

such screening on same Covered Individuals under a separate agreement with COUNTY within the past six (6) months. Covered Individuals shall be required to disclose to CONTRACTOR immediately any debarment, exclusion or other event that makes the Covered Individual an Ineligible Person. CONTRACTOR shall notify COUNTY within five (5) business days after it becomes aware if a Covered Individual providing services directly relative to this Agreement becomes debarred, excluded or otherwise becomes an Ineligible Person.

9.5 CONTRACTOR acknowledges that Ineligible Persons are precluded from providing federal and state funded health care services by contract with COUNTY in the event that they are currently sanctioned or excluded by a federal or state law enforcement regulatory or licensing agency. If CONTRACTOR becomes aware that a Covered Individual has become an Ineligible Person, CONTRACTOR shall remove such individual from responsibility for, or involvement with, COUNTY business operations related to this Agreement.

9.6 CONTRACTOR shall notify COUNTY within five (5) business days if a Covered Individual or entity is currently excluded, suspended or debarred, or is identified as such after being sanction screened. Such individual or entity shall be promptly removed from participating in any activity associated with this Agreement.

10. Subcontract for Work or Services

No contract shall be made by the CONTRACTOR with any other party for furnishing any of the work or services under this Agreement without the prior written approval of the COUNTY; but this provision shall not require the approval of contracts of employment between the CONTRACTOR and personnel assigned under this Agreement, or for parties named in the proposal and agreed to under this Agreement.

11. Disputes

11.1 The parties shall attempt to resolve any disputes amicably at the working level. If that is not successful, the dispute shall be referred to the senior management of the parties. Any dispute relating to this Agreement, which is not resolved by the parties, shall be decided by the COUNTY's Purchasing Department's Compliance Contract Officer who shall furnish the decision in writing. The decision of the COUNTY's Compliance Contract Officer shall be final and conclusive unless determined by a court of competent jurisdiction to have been fraudulent, capricious, arbitrary, or so grossly erroneous to imply bad faith. The CONTRACTOR shall proceed diligently with the performance of this Agreement pending the resolution of a dispute.

11.2 Prior to the filing of any legal action related to this Agreement, the parties shall be obligated to attend a mediation session in Riverside County before a neutral third party mediator. A second mediation session shall be required if the first session is not successful. The parties shall share the cost of the mediations.

12. Licensing and Permits

CONTRACTOR shall comply with all State or other licensing requirements, including but not limited to the provisions of Chapter 9 of Division 3 of the Business and Professions Code. All licensing requirements shall be met at the time proposals are submitted to the COUNTY. CONTRACTOR warrants that it has all necessary permits, approvals, certificates, waivers and exemptions necessary for performance of this Agreement as required by the laws and regulations of the United States, the State of California, the County of Riverside and all other governmental agencies with jurisdiction, and shall maintain these throughout the term of this Agreement.

13. Use By Other Political Entities

The CONTRACTOR agrees to extend the same pricing, terms, and conditions as stated in this Agreement to each and every political entity, special district, and related non-profit. It is understood that other entities shall make purchases in their own name, make direct payment, and be liable directly to the CONTRACTOR; and COUNTY shall in no way be responsible to CONTRACTOR for other entities' purchases. Government agencies interested in "piggybacking" against this Agreement and who would like to utilize this "piggyback" option, must receive written approval from the COUNTY authorizing their agency contractual rights through assignment of this contract.

14. Non-Discrimination

CONTRACTOR shall not be discriminate in the provision of services, allocation of benefits, accommodation in facilities, or employment of personnel on the basis of ethnic group identification, race, religious creed, color, national origin, ancestry, physical handicap, medical condition, marital status or sex in the performance of this Agreement; and, to the extent they shall be found to be applicable hereto, shall comply with the provisions of the California Fair Employment and Housing Act (Gov. Code 12900 et. seq), the Federal Civil Rights Act of 1964 (P.L. 88-352), the Americans with Disabilities Act of 1990 (42 U.S.C. S1210 et seq.) and all other applicable laws or regulations.

15. Records and Documents

CONTRACTOR shall make available, upon written request by any duly authorized Federal, State, or COUNTY agency, a copy of this Agreement and such books, documents and records as are necessary to certify the nature and extent of the CONTRACTOR's costs related to this Agreement. All such books, documents and

records shall be maintained by CONTRACTOR for at least five years following termination of this Agreement and be available for audit by the COUNTY. CONTRACTOR shall provide to the COUNTY reports and information related to this Agreement as requested by COUNTY.

16. Confidentiality

16.1 The CONTRACTOR shall not use for personal gain or make other improper use of privileged or confidential information which is acquired in connection with this Agreement. The term “privileged or confidential information” includes but is not limited to: unpublished or sensitive technological or scientific information; medical, personnel, or security records; anticipated material requirements or pricing/purchasing actions; COUNTY information or data which is not subject to public disclosure; COUNTY operational procedures; and knowledge of selection of contractors, subcontractors or suppliers in advance of official announcement.

16.2 The CONTRACTOR shall protect from unauthorized disclosure names and other identifying information concerning persons receiving services pursuant to this Agreement, except for general statistical information not identifying any person. The CONTRACTOR shall not use such information for any purpose other than carrying out the CONTRACTOR’s obligations under this Agreement. The CONTRACTOR shall promptly transmit to the COUNTY all third party requests for disclosure of such information. The CONTRACTOR shall not disclose, except as otherwise specifically permitted by this Agreement or authorized in advance in writing by the COUNTY, any such information to anyone other than the COUNTY. For purposes of this paragraph, identity shall include, but not be limited to, name, identifying number, symbol, or other identifying particulars assigned to the individual, such as finger or voice print or a photograph.

17. Administration/Contract Liaison

The COUNTY Purchasing Agent, or designee, shall administer this Agreement on behalf of the COUNTY. The Purchasing Department is to serve as the liaison with CONTRACTOR in connection with this Agreement.

18. Notices

All correspondence and notices required or contemplated by this Agreement shall be delivered to the respective parties at the addresses set forth below and are deemed submitted two days after their deposit in the United States mail, postage prepaid:

COUNTY OF RIVERSIDE

Riverside County Fire Department

Attn: Mr. John Miller

CONTRACTOR

Kovatch Mobile Equipment

DBA KME Fire Apparatus

210 West San Jacinto Ave
San Jacinto, CA 92570

5400 E. Jurupa Street
Ontario, CA 91761

19. Force Majeure

If either party is unable to comply with any provision of this Agreement due to causes beyond its reasonable control, and which could not have been reasonably anticipated, such as acts of God, acts of war, civil disorders, or other similar acts, such party shall not be held liable for such failure to comply.

20. EDD Reporting Requirements

In order to comply with child support enforcement requirements of the State of California, the COUNTY may be required to submit a Report of Independent Contractor(s) form **DE 542** to the Employment Development Department. The CONTRACTOR agrees to furnish the required data and certifications to the COUNTY within 10 days of notification of award of Agreement when required by the EDD. This data will be transmitted to governmental agencies charged with the establishment and enforcement of child support orders. Failure of the CONTRACTOR to timely submit the data and/or certificates required may result in the contract being awarded to another contractor. In the event a contract has been issued, failure of the CONTRACTOR to comply with all federal and state reporting requirements for child support enforcement or to comply with all lawfully served Wage and Earnings Assignments Orders and Notices of Assignment shall constitute a material breach of Agreement. If CONTRACTOR has any questions concerning this reporting requirement, please call (916) 657-0529. CONTRACTOR should also contact its local Employment Tax Customer Service Office listed in the telephone directory in the State Government section under "Employment Development Department" or access their Internet site at www.edd.ca.gov.

21. Hold Harmless/Indemnification

21.1 CONTRACTOR shall indemnify and hold harmless the County of Riverside, its Agencies, Districts, Special Districts and Departments, their respective directors, officers, Board of Supervisors, elected and appointed officials, employees, agents and representatives (individually and collectively hereinafter referred to as Indemnitees) from any liability, action, claim or damage whatsoever, based or asserted upon any services of CONTRACTOR, its officers, employees, subcontractors, agents or representatives arising out of or in any way relating to this Agreement, including but not limited to property damage, bodily injury, or death or any other element of any kind or nature. CONTRACTOR shall defend the Indemnitees at its sole expense including all costs and fees (including, but not limited, to attorney fees, cost of investigation, defense and settlements or awards) in any claim or action based upon such acts, omissions or services.

21.2 With respect to any action or claim subject to indemnification herein by CONTRACTOR, CONTRACTOR shall, at their sole cost, have the right to use counsel of their own choice and shall have the right to adjust, settle, or compromise any such action or claim without the prior consent of COUNTY; provided, however, that any such adjustment, settlement or compromise in no manner whatsoever limits or circumscribes CONTRACTOR indemnification to Indemnitees as set forth herein.

21.3 CONTRACTOR'S obligation hereunder shall be satisfied when CONTRACTOR has provided to COUNTY the appropriate form of dismissal relieving COUNTY from any liability for the action or claim involved.

21.4 The specified insurance limits required in this Agreement shall in no way limit or circumscribe CONTRACTOR'S obligations to indemnify and hold harmless the Indemnitees herein from third party claims.

22. Insurance

22.1 Without limiting or diminishing the CONTRACTOR'S obligation to indemnify or hold the COUNTY harmless, CONTRACTOR shall procure and maintain or cause to be maintained, at its sole cost and expense, the following insurance coverage's during the term of this Agreement. As respects to the insurance section only, the COUNTY herein refers to the County of Riverside, its Agencies, Districts, Special Districts, and Departments, their respective directors, officers, Board of Supervisors, employees, elected or appointed officials, agents, or representatives as Additional Insureds.

A. Workers' Compensation:

If the CONTRACTOR has employees as defined by the State of California, the CONTRACTOR shall maintain statutory Workers' Compensation Insurance (Coverage A) as prescribed by the laws of the State of California. Policy shall include Employers' Liability (Coverage B) including Occupational Disease with limits not less than \$1,000,000 per person per accident. The policy shall be endorsed to waive subrogation in favor of The County of Riverside.

B. Commercial General Liability:

Commercial General Liability insurance coverage, including but not limited to, premises liability, unmodified contractual liability, products and completed operations liability, personal and advertising injury, and cross liability coverage, covering claims which may arise from or out of CONTRACTOR'S performance of its obligations hereunder. Policy shall name the COUNTY as Additional Insured. Policy's limit of liability shall not be less than \$1,000,000 per occurrence combined single limit. If such insurance contains a general aggregate limit, it shall apply separately to this agreement or be no less than two (2) times the occurrence limit.

C. Vehicle Liability:

If vehicles or mobile equipment is used in the performance of the obligations under this Agreement, then CONTRACTOR shall maintain liability insurance for all owned, non-owned, or hired vehicles so used in an amount not less than \$1,000,000 per occurrence combined single limit. If such insurance contains a general aggregate limit, it shall apply separately to this agreement or be no less than two (2) times the occurrence limit. Policy shall name the COUNTY as Additional Insureds.

E. General Insurance Provisions - All lines:

1) Any insurance carrier providing insurance coverage hereunder shall be admitted to the State of California and have an A M BEST rating of not less than A: VIII (A:8) unless such requirements are waived, in writing, by the County Risk Manager. If the County's Risk Manager waives a requirement for a particular insurer such waiver is only valid for that specific insurer and only for one policy term.

2) The CONTRACTOR must declare its insurance self-insured retention for each coverage required herein. If any such self-insured retention exceeds \$500,000 per occurrence each such retention shall have the prior written consent of the County Risk Manager before the commencement of operations under this Agreement. Upon notification of self-insured retention unacceptable to the COUNTY, and at the election of the County's Risk Manager, CONTRACTOR'S carriers shall either; 1) reduce or eliminate such self-insured retention as respects this Agreement with the COUNTY, or 2) procure a bond which guarantees payment of losses and related investigations, claims administration, and defense costs and expenses.

3) CONTRACTOR shall cause CONTRACTOR'S insurance carrier(s) to furnish the County of Riverside with either 1) a properly executed original Certificate(s) of Insurance and certified original copies of Endorsements effecting coverage as required herein, and 2) if requested to do so orally or in writing by the County Risk Manager, provide original Certified copies of policies including all Endorsements and all attachments thereto, showing such insurance is in full force and effect. Further, said Certificate(s) and policies of insurance shall contain the covenant of the insurance carrier(s) that thirty (30) days written notice shall be given to the County of Riverside prior to any material modification, cancellation, expiration or reduction in coverage of such insurance. In the event of a material modification, cancellation, expiration, or reduction in coverage, this Agreement shall terminate forthwith, unless the County of Riverside receives, prior to such effective date, another properly executed original Certificate of Insurance and original copies of endorsements or certified original policies, including all endorsements and attachments thereto evidencing coverage's set forth herein and the insurance required herein is in full force and effect. CONTRACTOR shall not commence operations until the COUNTY has been furnished original Certificate (s) of Insurance and certified original copies of endorsements and if requested, certified original policies of insurance including all endorsements and

any and all other attachments as required in this Section. An individual authorized by the insurance carrier shall sign the original endorsements for each policy and the Certificate of Insurance.

4) It is understood and agreed to by the parties hereto that the CONTRACTOR'S insurance shall be construed as primary insurance, and the COUNTY'S insurance and/or deductibles and/or self-insured retention's or self-insured programs shall not be construed as contributory.

5) If, during the term of this Agreement or any extension thereof, there is a material change in the scope of services; or, there is a material change in the equipment to be used in the performance of the scope of work; or, the term of this Agreement, including any extensions thereof, exceeds five (5) years; the COUNTY reserves the right to adjust the types of insurance and the monetary limits of liability required under this Agreement, if in the County Risk Manager's reasonable judgment, the amount or type of insurance carried by the CONTRACTOR has become inadequate.

6) CONTRACTOR shall pass down the insurance obligations contained herein to all tiers of subcontractors working under this Agreement.

7) The insurance requirements contained in this Agreement may be met with a program(s) of self-insurance acceptable to the COUNTY.

8) CONTRACTOR agrees to notify COUNTY of any claim by a third party or any incident or event that may give rise to a claim arising from the performance of this Agreement.

23. General

23.1 CONTRACTOR shall not delegate or assign any interest in this Agreement, whether by operation of law or otherwise, without the prior written consent of COUNTY. Any attempt to delegate or assign any interest herein shall be deemed void and of no force or effect.

23.2 Any waiver by COUNTY of any breach of any one or more of the terms of this Agreement shall not be construed to be a waiver of any subsequent or other breach of the same or of any other term of this Agreement. Failure on the part of COUNTY to require exact, full, and complete compliance with any terms of this Agreement shall not be construed as in any manner changing the terms or preventing COUNTY from enforcement of the terms of this Agreement.

23.3 In the event the CONTRACTOR receives payment under this Agreement, which is later disallowed by COUNTY for nonconformance with the terms of the Agreement, the CONTRACTOR shall promptly refund the disallowed amount to the COUNTY on request; or at its option the COUNTY may offset the amount disallowed from any payment due to the CONTRACTOR.

23.4 CONTRACTOR shall not provide partial delivery or shipment of services or products unless specifically stated in the Agreement.

23.5 CONTRACTOR shall not provide any services or products subject to any chattel mortgage or under a conditional sales contract or other agreement by which an interest is retained by a third party. The CONTRACTOR warrants that it has good title to all materials or products used by CONTRACTOR or provided to COUNTY pursuant to this Agreement, free from all liens, claims, or encumbrances.

23.6 Nothing in this Agreement shall prohibit the COUNTY from acquiring the same type or equivalent equipment, products, materials or services from other sources, when deemed by the COUNTY to be in its best interest. The COUNTY reserves the right to purchase more or less than the quantities specified in this Agreement.

23.7 The COUNTY agrees to cooperate with the CONTRACTOR in the CONTRACTOR's performance under this Agreement, including, if stated in the Agreement, providing the CONTRACTOR with reasonable facilities and timely access to COUNTY data, information, and personnel.

23.8 CONTRACTOR shall comply with all applicable Federal, State and local laws and regulations. CONTRACTOR will comply with all applicable COUNTY policies and procedures. In the event that there is a conflict between the various laws or regulations that may apply, the CONTRACTOR shall comply with the more restrictive law or regulation.

23.9 CONTRACTOR shall comply with all air pollution control, water pollution, safety and health ordinances, statutes, or regulations, which apply to performance under this Agreement.

23.10 CONTRACTOR shall comply with all requirements of the Occupational Safety and Health Administration (OSHA) standards and codes as set forth by the U.S. Department of Labor and the State of California (Cal/OSHA).

23.11 This Agreement shall be governed by the laws of the State of California. Any legal action related to the performance or interpretation of this Agreement shall be filed only in the Superior Court of the State of California located in Riverside, California, and the parties waive any provision of law providing for a change of venue to another location. In the event any provision in this Agreement is held by a court of competent jurisdiction to be invalid, void, or unenforceable, the remaining provisions will nevertheless continue in full force without being impaired or invalidated in any way.

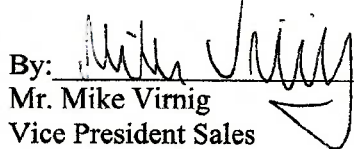
23.12 This Agreement, including any attachments or exhibits, constitutes the entire Agreement of the parties with respect to its subject matter and supersedes all prior and contemporaneous representations, proposals, discussions and communications, whether oral or in writing. This Agreement may be changed or modified only by a written amendment signed by authorized representatives of both parties.

IN WITNESS WHEREOF, the Parties hereto have caused their duly authorized representatives to execute this Agreement.

COUNTY OF RIVERSIDE, a political subdivision of the State of California

CONTRACTOR NAME HERE

By: 
Mr. John Miller
Procurement Contract Specialist

By: 
Mr. Mike Virnig
Vice President Sales

Dated: 5-1-2019

Dated: 5-1-19

Attachment: FPARC-07057-002-0524 KME 101' TDA FINAL Quote [Revision 1] (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER

EXHIBIT A
CONTRACT SPECIFICATION
101' TRACTOR DRAWN AERIAL FIRE APPARATUS
(Please see Exhibit A – Attachment # 2 for details in CONTRACTOR bid exceptions)

Attachment: FPARC-07057-002-0524 KME 101' TDA FINAL Quote [Revision 1] (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER

EXHIBIT A – SECTION I**TABLE OF CONTENTS****Section I - General**

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SECTION I – GENERAL

1.1 Scope

These specifications are intended to describe, among other things, the vehicle chassis, cab, build- up, type, size, and quality of apparatus required by the COUNTY. The apparatus proposed by the CONTRACTOR shall conform to these specifications and shall meet the specified standards. At the COUNTY's discretion, any conflicts between the Contract Specifications and the CONTRACTOR's Build Specification (Exhibit C) the Contract Specification shall prevail.

1.2 Contract Specification - 101' Tractor Drawn Aerial Fire Apparatus

Exhibit A consist of the following contract specification documents:

- 1.2.1 Attachment # 1
 - 1.2.1.1 Section I – General (19 pages)
 - 1.2.1.2 Section II – Cab and Chassis (42 pages)
 - 1.2.1.3 Section III – Aerial Body and Trailer (38 pages)
 - 1.2.1.4 Section IV – Electrical (19 pages)
 - 1.2.1.5 Section V – Equipment (2 pages)
- 1.2.2 Attachment # 2, CONTRACTOR's exceptions to COUNTY's specifications (6 pages)
- 1.2.3 Attachment # 3, CONTRACTOR's technical proposal clarifications (6 pages)
- 1.2.4 Attachment # 4, Pre-Construction changes (16 pages)
- 1.2.5 Attachment # 5, Drawings
 - 1.2.5.1 Drawing # 1 – 101' TDA Model
 - 1.2.5.2 Drawing # 2 – DOT Lighting (1 page)
 - 1.2.5.3 Drawing # 3 – Warning Lights (1 page)
 - 1.2.5.4 Drawing # 4 – Driver Side Compartment Layout (1 page)
 - 1.2.5.5 Drawing # 5 – Officer Side Compartment Layout (1 page)
 - 1.2.5.6 Drawing # 6 – TDA Body Doors Open (1 page)
 - 1.2.5.7 Drawing # 7 – Dash Layout (1 page)
- 1.2.6 Attachment # 6 – Aerial Reach Chart (1 page)
- 1.2.7 Attachment # 7 – AMP Report (1 page)

1.3 Payment and Annual Price Escalation

- 1.3.1 Total fixed price to the COUNTY for each apparatus, including all applicable taxes, fees, travel or any other costs associated with manufacture and delivery of the apparatus.
- 1.3.2 Price increases shall take place at the conclusion of each contract year based on the most current Producer Price Index published by the U.S. Bureau of Labor Statistics. Annual price increases shall be calculated using Commodity Code 1413-027 – Buses and firefighting vehicles, complete, produced on purchased chassis. The baseline index to be used for price escalation shall be 121.2 (published March 2019). Price increases shall remain fixed for each given contract year.

1.4 General

- 1.4.1 All specifications contained herein are considered minimum requirements for the manufacturer and delivery of the new apparatus.
- 1.4.2 The apparatus shall be of the latest type, symmetrically proportioned, carefully designed and constructed with due consideration to the nature and distribution of the load to be sustained.
- 1.4.3 Details of construction and materials not otherwise specified are left to the discretion of the CONTRACTOR. The CONTRACTOR shall be solely responsible for the design and construction of all features.
- 1.4.4 The CONTRACTOR shall provide principal dimensions and weight distribution of the fully loaded, completed vehicle.

- 1.4.5 The apparatus shall meet the requirements for automotive fire apparatus according to the current edition of the NFPA 1901 Standard'
- 1.4.6 If used in these specifications, the term "or equal" shall define the degree of determined quality level. It shall be the sole responsibility of the COUNTY to judge whether a proposed "equal" submitted by the CONTRACTOR meets the minimum established quality level.
- 1.4.7 The apparatus shall conform to the requirements of the current NFPA 1901 Standard for Automotive Fire Apparatus, unless otherwise stated in these specifications. The apparatus shall comply in every respect with the California Vehicle Code, Federal Motor Vehicle Safety Standards, California Code of Regulations (Title 8, Title 13, Title 15), California Health and Safety Code, California Air Resources Board Regulations, OEM Body Builders Standards and Guidelines and Occupational Safety and Health Act.
- 1.4.8 A plate identifying the manufacturer, gross vehicle weight, date of manufacture and all other information as specified in the National Traffic and Motor Vehicle Safety Act, Section 114, and Federal Code of Regulations, Title 49, shall be attached to the vehicle frame or body in an easily accessible location. Should a conflict arise between an NFPA Standard and any portion of these specifications, the NFPA Standard will prevail. Any test equipment required or expense incurred for the Certification Tests shall be borne by the Contractor supplying this equipment.
- 1.4.9 All materials and components used in the construction of the apparatus shall be new. Used or reconditioned material or components are not acceptable.
- 1.4.10 Any identifying numbers on any components shall be the original equipment manufacturer's numbers. The numbers shall be easily read and shall not be painted over.
- 1.4.11 The CONTRACTOR shall employ industry acceptable engineering criteria in the design of the apparatus; and be able to certify compliance with all applicable standards in force at the time of manufacture. Vehicle safety shall be important design criteria.

CONTRACTOR Complies with Section 1.4: YES

1.5 Progress Reports

The CONTRACTOR shall post weekly updates on the progression of the apparatus being constructed. Included will be a brief written summary of the current construction process occurring. A minimum of six (6) digital photos showing all aspects of the apparatus (ie front, left side, right side, rear, top side, pump/plumbing layout, etc.) will be included. Riverside County Fire Department will be able to view digital images of their apparatus as its being manufactured. The digital images shall be posted once a week, starting when the construction of the cab/chassis process is initiated and will continue throughout the entire construction of the apparatus. This shall include, but not limited to, production of the cab/chassis, and construction of the fire body. During the entire process additional photos may be requested at any time to ensure quality control, mitigate additional travel, and ensure compliance to Riverside County's specification. These updates and photos will be distributed as progress reports to various entities (City Council Members, Board of Supervisors, Fire Chiefs, etc.) who have a vested interest in the production of the apparatus.

CONTRACTOR Complies with Section 1.5: YES

1.6 Construction Drawing

Production drawings shall be submitted after the conclusion of the pre-construction meeting.

The drawings shall be produced on computer aided design (CAD) equipment to assure critical tolerance and detail only available with CAD equipment. The drawings shall be on "B" size paper, 17" x 11" in size, and views must be 1/4" = 1' - 0" scale. The drawings shall be completed only by the body manufacturer and must be exactly to the specifications. For easy of reviewing drawings, they must be on a 17" x 11" sheet as follows:

- 1.6.1 There shall be five (5) views of the truck with the doors closed (Top, Left, Right, Front, Rear), five (5) views of the apparatus with the doors open (Top, Left, Right, Rear, Front) and five (5) views of any walk-in area (Top, Left, Right, Rear, Front).
- 1.6.2 All compartment door openings and usable space shall be clearly shown in inches.

- 1.6.3 The apparatus overall length, wheelbase and cab-to-axle dimensions shall be clearly shown.
- 1.6.4 The apparatus width, width at mirrors, width with the cab doors open, width with compartment doors open and width with position shall be clearly shown.
- 1.6.5 The apparatus height and height with the cab tilted.
- 1.6.6 The angles of approach and departure and break-over angle shall be shown in the maximum loaded condition to the nearest degree.
- 1.6.7 Ground clearance shall be shown in the maximum loaded condition to the nearest inch.
- 1.6.8 All lighting packages will be clearly shown on the drawing and verified accurate per the most current NFPA standards (when applicable).
- 1.6.9 The exterior view shall show all scene lights, marker lights, speakers, horns, exhaust, tow points, exterior outlets, windows, tow hitches, exterior ladders and any other item important to the function of the vehicle.
- 1.6.10 The open view shall show all trays, shelves, air system components, hydraulic, components, tool boards, storage modules and any other items important to function of the vehicle.
- 1.6.11 The interior view for all walk-in areas shall show all seating positions, windows, tech equipment, radio locations, MDC location, Vista screens locations, dash layout, and any other item important to the function of the vehicle.
- 1.6.12 There shall be a drawing of the aerial vertical reach, horizontal reach, tip load, angle of elevation and overall width with the stabilizers deployed.

CONTRACTOR Complies with Section 1.6: YES

1.7 Liquidated Damages

- 1.7.1 The CONTRACTOR shall state the number of calendar days required for delivery of the completed apparatus after receipt of order.
- 1.7.2 Delays in delivery will severely impact the operation of the Fire Department. Should proper delivery not be completed by the promised date, liquidated damages will be assessed by the County against the amount owed to the CONTRACTOR for the apparatus. An amount of one hundred and fifty dollars (\$150.00) per calendar day for each day of delay for each unit is established as the liquidated damage to the County (and not as a penalty or forfeiture). After a delay in delivery of ninety (90) days, the Fire Department may cancel the order.
- 1.7.3 Liquidated damages shall also apply in cases where delivery of non- acceptable apparatus is made.

CONTRACTOR Complies with Section 1.7: YES

1.8 Materials Required at Delivery of Apparatus

The CONTRACTOR shall provide all of the materials and documentation as stated in these specifications. The CONTRACTOR shall provide two (2) printed copies and two (2) computer thumb drives for each apparatus. The documentation shall be in PDF format. The apparatus manual shall contain the following items which shall be required at the time of delivery of the apparatus:

- 1.8.1 Operation manuals for all components and accessories.
- 1.8.2 Service manuals for engine, transmission, and other major components.
- 1.8.3 Bill of materials or factory work order showing part numbers of all components on vehicle.
- 1.8.4 Engineering drawings as built.
- 1.8.5 Chassis drawing as built.
- 1.8.6 Color coded chassis air brake system drawing as built.
- 1.8.7 Color coded electrical system schematic (12-Volt) as built, large and easy to read.
- 1.8.8 Color coded chart sheet showing all points of lubrication and type/amount of lubrication.
- 1.8.9 Color coded aerial diagram to include hydraulic and electrical schematics.
- 1.8.10 Color coded engine charts.
- 1.8.11 Color coded transmission charts.
- 1.8.12 Color coded regeneration operation charts.
- 1.8.13 UL inspection and test records.
- 1.8.14 FMVSS compliance certification label.

- 1.8.15 Weight certificate. The weight certificate shall show the total apparatus weight, the front axle weight, the rear axle weight, the right front tire weight, the left front tire weight, the right rear tire weight, and the left rear tire weight.
- 1.8.16 Documents required for transferring ownership to County.
- 1.8.17 Aerial testing and certification per NFPA standards.
- 1.8.18 Performance test reports.
- 1.8.19 Operating instructions for the aerial and components.
- 1.8.20 Operating instructions for the chassis and any major components.
- 1.8.21 Precautions related to multiple configurations of aerial devices, if applicable.
- 1.8.22 Instructions regarding the frequency and procedure for recommended maintenance.
- 1.8.23 Parts list for replacement.
- 1.8.24 Operations and maintenance documents for components and equipment of the apparatus.
- 1.8.25 All required equipment, manuals, charts, and books shall accompany the apparatus at time of delivery. Failure to deliver these items shall be cause for non-acceptance of the apparatus.
- 1.8.26 All documents must be exact representations of the apparatus delivered and General drawings are not acceptable.
- 1.8.27 NFPA REQUIRED DOCUMENTATION FORMAT – Computer thumb drive. The vehicle construction details and the operations and service documentation as required per NFPA 1901 latest edition shall be provided on a computer thumb drive in PDF format. These manuals shall be divided into sections for ease of reference. There shall be two (2) copies of the computer thumb drive in PDF format provided with the completed vehicle.
- 1.8.28 A letter from the CONTRACTOR attesting to the fact that the finished, fully loaded apparatus will meet all federal motor vehicle and California Vehicle Code requirements; that the axles, tires, brakes and frame are all designed to support and carry the anticipated load safely under harsh driving conditions; and that the combination of wheelbase, center of gravity, weight distribution and other factors affecting safe vehicle operation are within acceptable limits of vehicle design practice and all applicable law. The president of the CONTRACTOR's firm and their chief engineer shall jointly sign this letter.
- 1.8.29 The CONTRACTOR shall furnish a copy of the record of the current certified brake horsepower curve and torque curve.
- 1.8.30 The CONTRACTOR shall provide a Cummins Quick Check current year standard kit diagnostic readers and computers, with appropriate adapters and hardware. Two (2) kits will be delivered with the first apparatus completed. Subsequently, one (1) Cummins Quick Check kit shall be delivered with each apparatus ordered beginning with the second, if multiple orders are placed. The kit shall be updated with the latest software for the apparatus being delivered.
- 1.8.31 Software updates shall be provided for each Cummins Quick Check, for the expected service life of the apparatus as specified in Appendix "A", Section 1.0 at no additional cost.

CONTRACTOR Complies with Section 1.8: YES

1.9 Quality of Workmanship

- 1.9.1 The CONTRACTOR shall employ the latest approved automotive design practices in the design of the apparatus. Nothing in these specifications will relieve the CONTRACTOR from the responsibility to provide a safe and functional vehicle. Workmanship shall be of the highest caliber in its respective field (first class)
- 1.9.2 The CONTRACTOR shall comply with the following provisions:
 - 1.9.2.1 There shall be easy access to components which require routine periodic maintenance, ease and safety of operations, symmetry of design and finish quality of welding, coating, plating and fabrication work. Where threaded fasteners are used, sheet metal screws are not acceptable. Threaded fasteners shall be secured utilizing lock tight or equal to prevent screws from coming loose.
 - 1.9.2.2 Where blind attachment is necessary, expandable nut inserts or other blind attachment threaded devices shall be used.

- 1.9.2.3 Bolted construction consisting of machine screws with nuts and lock washers shall be employed. Tapped holes, stud-welded fasteners shall be used where necessary to permit items to be removed by one person where they cannot reach the opposite side of the fastener. All fasteners shall meet SAE J429 Standards.
- 1.9.2.4 Self-tapping machine screws may be used in the attachment of labels, trim plates and strips, provided attachment is made to steel. Blind attachment of nonferrous metals shall use alternative methods approved by the County.
- 1.9.3 In the event of a failure or breakdown during the warranty period and upon written notice from the Fire Department, action must be taken by the CONTRACTOR to begin repairs or other correction within three (3) working days. The warranty vendor shall complete any and all warranty repairs within ten (10) working days after receiving apparatus. If repairs extended beyond the ten (10) working day period, vendor shall pay the Riverside County Fire Department in liquidated damages in the amount of \$150.00 per day, or the equivalent in parts credit, for each additional day the apparatus repairs are delayed. The time period payment penalty may be waived with prior approval, by the Riverside County Fire Department.
- 1.9.4 Transportation of the apparatus to and from service facilities, including apparatus driver and towing as necessary, shall be the responsibility of the CONTRACTOR. The apparatus will be delivered back to County within one (1) day of completion of work at no additional cost to the County.
- 1.9.5 If the CONTRACTOR does not respond as required after three (3) working days, the County may immediately proceed to have the apparatus repaired by another source. The CONTRACTOR shall be liable to the County for all costs associated with such warranty work.
- 1.9.6 The CONTRACTOR shall furnish the necessary documentation on any and all new and/or replacement parts to enable the County to verify warranties with original equipment manufacturer.
- 1.9.7 Defective parts will be labeled and retained by the County until parts are replaced. The CONTRACTOR shall take full responsibility for returning any defective parts to their supplier.
- 1.9.8 The CONTRACTOR shall provide the name and phone number of one warranty contact person at the CONTRACTOR's manufacturing facility. If warranty repairs are necessary, this person and a Fire Department representative shall determine how to handle the specific repair. Options shall include the following:
- 1.9.8.1 The CONTRACTOR shall provide one point of contact for all warranty issues for the entire apparatus.
- 1.9.8.2 The warranty contact shall be available by phone, 24 hours per day, 7 days per week, 365 days per year (including holidays).
- 1.9.8.3 Send the apparatus to a repair facility that the CONTRACTOR and the County agree upon. (Repair facility must be within a 30 mile radius of Riverside County Fire Department Headquarters in Perris, CA 92570)
- 1.9.8.4 The County does the repair work with factory furnished parts and is reimbursed for its labor and costs.
- 1.9.8.5 The CONTRACTOR sends personnel to the apparatus location to do the repair work.
- 1.9.8.6 The CONTRACTOR shall provide a list of two (2) of the closest, approved warranty facilities to Perris Headquarters.
- 1.9.8.7 The warranty facility shall have the ability to make warranty repairs both at their facility and in the field.
- 1.9.8.8 The warranty facility staff shall be State or EVT certified and ASE certified to perform repairs on the specific apparatus.
- 1.9.9 CONTRACTOR shall maintain a parts inventory that is appropriate with the replacement needs based on the Riverside County Fire Departments fleet size in stock. A positive guarantee shall accompany bids stating that the manufacturer will make available a complete stock of all captive parts or components.

CONTRACTOR Complies with Section 1.9: YES

1.10 Warranty Length

- 1.10.1 Components and apparatus shall be provided with a two (2) year, minimum, bumper to bumper warranty.
- 1.10.2 Compressor, five (5) years, unlimited mileage / hours.
- 1.10.3 Alternator, two (2) years, unlimited mileage (Alternator, Mounting Brackets).
- 1.10.4 Batteries three (3) years, unlimited mileage.
- 1.10.5 Belts, two (2) years, unlimited mileage
- 1.10.6 Body Paint Adhesion, five (5) years, unlimited mileage
- 1.10.7 Body ten (10) years, unlimited mileage
- 1.10.8 Cross Members: five (5) years, unlimited mileage / hours
(Coverage includes cross members)
(Gusset and Huck- Mounting Bolts)
(Attached to Gusset to Cross Members)
(Cross Member to Frail Rails)
- 1.10.9 Drivetrain including complete Transmission: five (5) years, unlimited mileage / hours
(Rear axle housing, differential housing and gears)
(Rear axle shafts, front axle beams and spindles)
(Steering gear and case, excluding delivery mileage)
- 1.10.10 Engine warranty: five (5) years, unlimited mileage / hours
(Comprehensive Components that fail under normal and severe duty service)
(Cylinder Block, Cylinder Heads, Crankshaft, Camshaft)
(Main Bearing Bolts, Flywheel Housing, Connecting Rod)
(Turbocharger, Intake and Exhaust Manifolds)
(Timing Gears and Housing, Oil Cooler Housing)
(Water Pump Housing, Air Inlet Housing, Engine Electronics)
(Fuel Pumps and Injectors and all internal parts)
(Warranty includes parts, labor, and repairs)
(Excluding delivery mileage, whichever is greater)
- 1.10.11 Engine Main Cooling System: five (5) years, unlimited mileage / hours
(Coverage Includes Radiator Core, Radiator Tanks)
(Cooling Fans, Fan Hub Assembly, Brackets, Braces)
- 1.10.12 Engine Charge Air Cooler and related Parts five (5) years, unlimited mileage / hours
- 1.10.13 Emergency Light Bar and Bulbs three (3) years, unlimited mileage / hour
(Components, LED Lights, All Bulbs, Power Supply)
(Electronic Siren, Speakers)
- 1.10.14 Frame Rails and Cross-Members: Lifetime Warranty
(Frame Rail Liners, Frame Rail Extensions)
(And Any Item(s) Factory Welded to Them)
- 1.10.15 Mirror: two (2) years, unlimited mileage
- 1.10.16 Paint (Paint Peeling, Cracking, blistering) seven (7) years, unlimited mileage
(Paint shall be covered 100% including UV Paint Fade)
- 1.10.17 Paint (Corrosion, Adhesion, Perforation) ten (10) years, unlimited mileage/hours
- 1.10.18 Radio: five (5) years, unlimited mileage / hours
- 1.10.19 Seats: two (2) years, unlimited mileage / hours
- 1.10.20 Starter: two (2) years, unlimited mileage / hours
(Starter Motor, Solenoid, Mounting Brackets)
- 1.10.21 Steering: five (5) years, unlimited mileage / hours
(Steering Pump, Steering Gear Box, Hoses)
- 1.10.22 Structure Components, Defects, Workmanship: five (5) years, unlimited mileage/hours
(Including Parts, Labor and Repairs)

- 1.10.23 Towing: two (2) years, dated when placed in service. If the apparatus has a warrantable defect and is deemed unsafe or unlawful to operate, the contractor shall be responsible for towing the apparatus to the warranty repair facility which shall be located within a 30-mile radius of Riverside County.
- 1.10.24 Transmission: shall have a five (5) year unlimited mileage / hour warranty.
- 1.10.25 The warranty period shall begin upon formal written acceptance by the county.
- 1.10.26 The manufacturer of the final product will be the single point of contact and assumes all responsibility for any/all warranty issues on the entire apparatus. NO EXCEPTIONS (This is due to eliminating any warranty contractor issues).
- 1.10.27 If any component, unit or subsystem is repaired, rebuilt or replaced during the warranty period, the remaining unexpired warranty period shall remain.

CONTRACTOR Complies with Section 1.10: YES

1.11 Warranty Repair Parts

The CONTRACTOR shall maintain a parts inventory that is appropriate with the replacement needs based on the Riverside County Fire Departments fleet size in stock. This parts inventory shall be available to be delivered within 24 hours to Riverside County Fire Department.

CONTRACTOR Complies with Section 1.11: YES

1.12 Warranty Item General Repairs

Warranties in this document are in addition to any statutory remedies or warranties imposed on Contractor. Consistent with this requirement, Contractor warrants to County each complete chassis, body, specific subsystems, and components as follows: The warranty is based on regular operation of the fire engine under the operating conditions prevailing in Riverside County under serve duty service and fire service environment. This warranty shall include all labor and materials required in repairing or replacing all parts.

CONTRACTOR Complies with Section 1.12: YES

1.13 Repairs by Contractor

- 1.13.1 All repairs shall be completed in a timely manner. Contractor shall make every reasonable attempt to complete each repair upon receipt of the apparatus.
- 1.13.2 For normal warranty repair work, the contractor shall be responsible to transport the apparatus to and from the warranty facility at no cost to the County. The Chilton manual shall be utilized for chassis items. Once the apparatus is at the warranty facility, the apparatus shall not be parked awaiting service. All repairs shall be completed as soon as possible with no delays.
- 1.13.3 Contractor shall provide to the County one (1) legible copy of the warranty work order describing all work performed and parts provided; including, the total cost for repairs. For all warranty repairs, contractor shall pick-up and deliver each apparatus to one of two location determined by the County, either the Perris shop or Indio shop.
- 1.13.4 Contractor shall pick up the apparatus in need of warranty repair within twenty-four (24) hours of being notified by the County. The County may elect, at their own discretion, to deliver the apparatus to the warranty repair facility, or pick up the apparatus from the warranty repair facility as needed.

CONTRACTOR Complies with Section 1.13: YES

1.14 Repairs made by County

- 1.14.1 All warranty repairs performed inhouse by County Technician's shall be considered the same as if the repairs were conducted at the Contractor's warranty facility. The repairs shall in no way negatively affect the apparatus or component warranties. Prior to any inhouse warranty repairs, the Contractor shall provide to the County written authorization to perform the warranty repair work. This authorization shall be included in the County's submittal to the Contractor for reimbursement of labor and parts.
- 1.14.2 Contractor shall provide and deliver to Riverside County Fire Department, all parts required for repairs within seventy-two (72) hours, upon request by Riverside County Fire Department. If Contractor fails to deliver said requested parts within seventy-two (72) hours, Riverside County Fire Department

reserves the right to separately procure said required parts, from another source. Contractor shall reimburse Riverside County Fire Department for any invoiced cost, including applicable sales taxes and freight charges. Contractor shall replace and deliver to Riverside County Fire Department, all parts used for warranty repairs from Riverside County Fire Department inventory, within seventy-two (72) hours, upon request by Riverside County Fire Department. Riverside County Fire Department shall return to Contractor for pick-up, upon Contractor request, all defective parts covered under warranty and replaced by Riverside County Fire Department, for a period of not less than sixty (60) days upon completion of repairs. Riverside County Fire Department shall be reimbursed by Contractor within thirty (30) calendar days for any Riverside County Fire Department labor provided for repairs under warranty. The amount of reimbursement shall be determined by multiplying the number of man-hours allowed by O.E.M., times standards including the flat rate manual fee of one-hundred and ten (\$110.00) dollars per hour. Furthermore, Riverside County Fire Department will charge an additional cost to tow the fire engine (within the normal warranty service area) to the warranty repair facility, or to Contractor should such action be necessary.

CONTRACTOR Complies with Section 1.14: YES

1.15 Acceptance Authority

Formal acceptance of each apparatus shall be provided in writing by the County's Fire Chief and/or his designee and will be made after the vehicle has passed all operational tests and all identified problems have been fixed.

CONTRACTOR Complies with Section 1.15: YES

1.16 Required Meetings

1.16.1 Cost is to be pre-set at the time of contract award and included in the base price of the apparatus. All travel shall depart and return from Palm Springs International Airport (PSP). It shall be the responsibility of the County Apparatus Committee representatives to arrive and depart from Palm Springs International Airport (PSP), all travel cost between departing from and returning to PSP shall be the responsibility of the awarded contractor. Travel costs that are the responsibility of the awarded contractor shall include:

1.16.1.1 All air travel

1.16.1.2 Baggage fees up to one checked bag per traveling Apparatus Committee member

1.16.1.3 Car Rental Fee

1.16.1.4 Lodging expenses. (Single room occupancy per person)

1.16.1.5 All Meals

1.16.2 Engineering Support at Pre-Construction Meeting

The Contractor shall provide an engineer to be present at the pre-construction meeting held at the factory location. The engineer will address all engineering related questions for the truck as purchased and for all proposed changes. The engineer is to remain present during the entire meeting. No Exception (Due to the Departments requirement to eliminate design oversights). The engineer will have the 2D and/or 3D AutoCAD electronic drawings projected on screen and be able to provide dimensional data for proposed changes and proposed layouts. This will help ensure that the final design matches the County's intentions to the maximum extent possible.

1.16.3 Pre-Construction Meeting

The CONTRACTOR shall provide transportation and all per diem costs for five (5) County representatives to meet with CONTRACTOR's staff as described below. These meetings typically follow an agenda of four (4) full working days and will be held at the manufacturing location. Tasks may be changed as requested by the County. The production drawings shall be available on computer aided design (CAD) equipment to assure critical tolerance and detail only available with CAD equipment. Should the County determine that the CONTRACTOR has not properly interpreted the specifications or does not intend to manufacture the apparatus as specified; the County may cancel the

- contract at no cost to the County. No Exceptions (Due to the Departments requirement to eliminate design oversights).
- 1.16.3.1 CAD operator shall be present and fully functional during all phases of the pre-construction meeting when any discussion is taking place relating to the design and/construction of apparatus.
 - 1.16.3.2 During the time when the CAD operator is required in the pre- construction meeting, the CAD operator shall project onto a large enough screen for all to clearly see, the construction drawing of the area of the apparatus being discussed. Any and all changes to the designed features shall be updated in real time while the meeting is being conducted.
 - 1.16.3.3 Prior to the pre-construction meeting being completed, six (6) complete sets of CAD drawings on 17" X 11" paper shall be provided to the Riverside County Fire Department representatives. These updated construction drawings shall clearly show:
 - a. There shall be five (5) views of the truck with the doors closed (Top, Left, Right, Front, Rear), five (5) views of the apparatus with the doors open (Top, Left, Right, Rear, front) and five (5) views of any walk-in area (Top, Left, Right, Rear, Front) If applicable to current project).
 - b. All compartment door openings and usable space shall be clearly shown in inches with the door seal included
 - c. The apparatus overall length, height, width, wheelbase and cab-to-axle dimensions shall be clearly shown.
 - d. The apparatus overall length, height, width, wheelbase and cab-to-axle dimensions shall be clearly shown.
 - e. The angles of approach and departure shall be shown in the maximum loaded condition to the nearest degree.
 - f. All lighting packages will be clearly shown on the drawing and verified accurate per the most current NFPA standards (when applicable).
 - g. The exterior view shall show all scene lights, marker lights, speakers, horns, exhaust, tow points, exterior outlets, windows, tow hitches, and any other item important to the function of the vehicle
 - h. The open view shall show all trays, shelves, air system components, hydraulic components, tool boards, storage modules and any other items important to the function of the vehicle.
 - i. The interior view for all walk-in areas shall show all seating positions, windows, tech equipment, radio locations and any other item important to the function of the vehicle. Dash layout to include radios, code 3 control electronics, spot light controllers, headset communications system, Department supplied MDC (Mobile Data Computer) and transmission gear selector control unit.
 - j. There shall be a drawing of the aerial vertical reach, horizontal reach, tip load, angle of elevation and overall width with the stabilizers deployed.
 - 1.16.3.4 Failure to provide a qualified and functioning CAD operator during the pre-construction meeting shall constitute an immediate cancelation of the pre-construction meeting. Another date for the pre-construction meeting will be scheduled and all representatives of Riverside County Fire Department will be transported back to PSP airport at the CONTRACTOR's expense. It will be the CONTRACTOR's responsibility to arrange for travel back to their facility for the rescheduled pre-construction meeting. The CONTRACTOR shall be responsible for all expenses relating to the rescheduled meeting.
 - 1.16.3.5 Confirmation of the availability of the CAD operator and his/her ability to produce all of the required materials for the scheduled pre-construction meeting shall be provide by e-mail prior to the representatives of the Riverside County Fire Department traveling to the CONTRACTORS facility for the pre-construction meeting.
 - 1.16.3.6 The requirement of the CAD operator and his/her ability to produce all the required drawings at the pre-construction meeting is a NO EXCEPTION ITEM (Due to the Departments

requirement to eliminate design oversights). This ability shall be confirmed at the time of bid submission. Failure to comply with this requirement shall be grounds for automatic rejection of the bid proposal

- a. Body compartment layout requirement.
- b. Compartment lights: type, size, mounting and protection.
- c. In-cab console design, location.
- d. Blind attachments discussion.
- e. Dash controls and gauges (type & location).
- f. Seating arrangement.
- g. Emergency warning system controls, location and overall design.
- h. Radio installation.
- i. Aerial trailer design and configuration.
- j. Access, ergonomics, appearance.
- k. Turn circle data: chassis turn radius, wall-to-wall, and curb-to-curb.
- l. Sigtronics radio/intercom system installation and interface.
- m. Discuss printed, visual materials list.
- n. Mounting rechargeable flashlights, pike poles, rubbish hooks.
- o. Electrical system design and layout.
- p. Aluminum electrolysis engineering.

1.16.4 Cab Chassis Inspection

The CONTRACTOR shall provide transportation and all per diem costs for two (2) County representatives to meet with CONTRACTOR's staff as described below. The chassis inspection meeting shall be conducted inside of a clean, properly illuminated, temperature controlled apparatus bay that is intended specifically for the purposes of conducting vehicle inspections. These meetings typically follow an agenda of eight (8) hours per apparatus and will be held at the manufacturing location. The chassis will be available for inspection in a clear area, away from the production line. Tasks may be changed as requested by the County.

- 1.16.4.1 Obtain line setting sheet for chassis, filter, hose, and belt numbers for service center and shop.
- 1.16.4.2 Dana application and certification.
- 1.16.4.3 Alternator output curve.
- 1.16.4.4 Spring ratings.
- 1.16.4.5 Creeper inspection: axles, springs driveline, engine, transmission, steering.
- 1.16.4.6 Check for unauthorized blind attachments.
- 1.16.4.7 Still photo profile for department records.
- 1.16.4.8 Air-conditioning mounting.
- 1.16.4.9 Vehicle operation controls and gauges: type, location.
- 1.16.4.10 Front and rear axle weights and total vehicle weight.
- 1.16.4.11 The manufacturer shall make available the following items to be utilized during the chassis inspection:
 - a. Tape measure that reads in inches and is long enough to allow the length of apparatus to be measured at one time.
 - b. An operational flashlight.
 - c. Green or blue "painters type" tape.
 - d. An operational mechanics creeper.

1.16.5 Trailer & Aerial Pre-Paint Inspection

The CONTRACTOR shall provide transportation and all per diem costs for three (3) County representatives to meet with CONTRACTOR's staff as described below. The pre-paint inspection meeting shall be conducted inside of a clean, properly illuminated, temperature controlled apparatus bay that is intended specifically for the purposes of conducting vehicle inspections. These meetings typically follow an agenda of a minimum of two (2) working days and will be held at the manufacturing location. Tasks may be changed as requested by the County.

- 1.16.5.1 Creeper inspection: specification compliance.
- 1.16.5.2 Compartment location, dimensions.
- 1.16.5.3 Electrical system fabrication (12-Volt & 110-Volt).
- 1.16.5.4 Paint, striping and decal scheme.
- 1.16.5.5 Radio, communications system layout.
- 1.16.5.6 Emergency warning system.
- 1.16.5.7 Cab layout, scuff protection.
- 1.16.5.8 Overall vehicle layout.
- 1.16.5.9 Documentation that UL testing has been completed.
 - a. Tape measure that reads in inches and is long enough to allow the length of apparatus to be measured at one time.
 - b. An operational flashlight.
 - c. Green or blue “painters type” tape.
 - d. An operational mechanics creeper.

1.16.6 **Final Inspection**

The CONTRACTOR shall provide transportation and all per diem costs for four (4) County representatives to meet with CONTRACTOR’s staff as described below. The final inspection meeting shall be conducted inside of a clean, properly illuminated, temperature controlled apparatus bay that is intended specifically for the purposes of conducting vehicle inspections. These meetings typically follow an agenda of two (2) full working days per apparatus and will be held at the manufacturing location. Tasks may be changed as requested by the County.

- 1.16.6.1 Creeper inspection: specification compliance.
- 1.16.6.2 Compartment location, dimensions.
- 1.16.6.3 Electrical system operations (12-Volt & generator power).
- 1.16.6.4 Finish details, workmanship
- 1.16.6.5 Paint, striping
- 1.16.6.6 Radio, communications system
- 1.16.6.7 Emergency warning system operations.
- 1.16.6.8 Performance testing: NFPA 1901 standard vehicle operational tests.
- 1.16.6.9 Cab Seating capacity tag specifying that seating for six (6) shall be provided.
- 1.16.6.10 Front and rear axle weights and total vehicle weight without personnel.
- 1.16.6.11 Trailer and aerial inspection.
- 1.16.6.12 UL Testing documentation.
- 1.16.6.13 The manufacture shall make available the following items to be utilized during the final inspection:
 - a. Tape measure that reads in inches and is long enough to allow the length of apparatus to be measured at one time.
 - b. An operational flashlight.
 - c. Green or blue “painters type” tape.
 - d. An operational mechanics creeper.

CONTRACTOR Complies with Section 1.16: YES

1.17 **Delivery**

- 1.17.1 The apparatus shall be delivered from the manufacturing facility to a local vendor (located within a 50-mile radius of Riverside County Fire Departments Headquarters) service/warranty facility after successful approval by the Riverside County Fire Department at the final inspection meeting. Prior to delivering the apparatus to the Riverside County Fire Department, the vendor shall:
 - 1.17.1.1 Fully inspect the apparatus for any/all issues that may have developed during the drive between the manufacturing facility and the vendors service/warranty facility.
 - 1.17.1.2 Verify that all of the items that were noted during the final inspection meeting were properly repaired and/or addressed.

- 1.17.1.3 Change the oil and oil filter.
- 1.17.1.4 Change the transmission filter.
- 1.17.1.5 Check differential fluid and change if required.
- 1.17.1.6 Check coolant fluid level.
- 1.17.1.7 Lube apparatus.
- 1.17.1.8 Clean apparatus.
- 1.17.1.9 Fill the diesel fuel tank.
- 1.17.1.10 Fill DEF tank.
- 1.17.2 The CONTRACTOR shall deliver each apparatus to the Riverside County Fire Department at a location to be determined at the pre-construction meeting for final inspection and performance testing. The CONTRACTOR shall remain responsible for each apparatus until it is delivered to and accepted by the Riverside County Fire Department.
- 1.17.3 **Delivery Engineer**
 - 1.17.3.1 The apparatus shall be operated throughout all performance testing by the delivery engineer of the CONTRACTOR. This delivery engineer shall also summarize the results with the County
 - 1.17.3.2 The CONTRACTOR assumes all liability in connection with any accidents, injuries, or damages related to the tests, and shall hold the County, its employees, agents and representatives harmless.
 - 1.17.3.3 The CONTRACTOR's delivery engineer shall provide forty (40) hours of operation training for Fire Department personnel in a Train-the-Trainer format, at a location to be determined by the County.
 - 1.17.3.4 The CONTRACTOR shall deliver onsite training for Fire Apparatus Technician's and provide forty (40) hours of operation training for Riverside County Fire Department personnel in a Train-the-Trainer format. All training shall be conducted at the Ben Clark Training Center located at 16791 Davis Avenue, Riverside, CA. Such training shall include general maintenance, trouble shooting, repair techniques, and timesaving suggestions. A minimum level of training in each area below shall also be provided to the Fire Department Fire Apparatus Technician's, which will include (2) shop locations one in (Perris) and one in (Indio) with an intent to provide a minimum of sixteen (16) hours per site to be determined by the County. This includes training handouts, and materials as required. The first class shall be within thirty (30) days from the first apparatus delivery. The second class shall be within six (6) months from the first apparatus delivery.
 - 1.17.3.5 The delivery engineer shall possess extensive knowledge in tractor drawn aerials construction, layout & operational capabilities.
- 1.17.4 **Delivery Schedule**
 - 1.17.4.1 The CONTRACTOR shall provide a firm delivery schedule to the County within 10 days of completion of the pre-construction meeting.
 - 1.17.4.2 The CONTRACTOR shall have 365 days from the date of the Purchase Order to deliver the 1st unit and 30 days thereafter for each additional unit.

CONTRACTOR Complies with Section 1.17: YES

1.18 Performance Test and Requirements

- 1.18.1 All performance requirements and testing shall be based on the apparatus fully loaded to the manufacturer's certified weight rating and operating in ambient temperatures from 25 degrees Fahrenheit to 115 degrees Fahrenheit, with 50 percent humidity, at elevations from sea level to 7,000 feet above sea level.
- 1.18.2 The completed apparatus shall meet the air system, brake system, air conditioning system and engine and transmission cooling system performance requirements reflected herein.
- 1.18.3 An acceptance road test shall be conducted with the apparatus loaded to the manufacturer's certified weight rating. A continuous run of fifty (50) miles or more shall be made under any or all of the aforementioned operating conditions, during which time the apparatus shall show no loss of power or

- overheating. The transmission, drive shaft or shafts and rear drive axle shall run quietly and be free from abnormal vibration or noise throughout the operating range of apparatus.
- 1.18.4 The apparatus shall be capable of accelerating on a level concrete road, from a standing start to a speed of not less than 35 mph within 17 seconds.
 - 1.18.5 The loaded apparatus shall be capable of starting up and ascending a 20% grade.
 - 1.18.6 The loaded apparatus shall be capable of attaining a speed of not less than 4 mph from a standing start on a 20% grade.
 - 1.18.7 The loaded apparatus shall be capable of ascending a continuous 6% grade, from sea level to an elevation of 7,000 feet at a speed of not less than 25 mph.
 - 1.18.8 122.8 The loaded apparatus shall be electronically governed to not exceed the most current NFPA 1901 recommendation. NO EXCEPTIONS.
 - 1.18.9 The service brakes, without auxiliary brakes, shall be capable of stopping the fully loaded vehicle in 30 feet at 20mph on a level concrete highway.
 - 1.18.10 The service brakes shall be capable of stopping the fully loaded apparatus on a 20% grade and the parking brakes shall be capable of holding the fully loaded apparatus on a 20% grade.
 - 1.18.11 The completed apparatus, as delivered, shall have equal turning diameters both left and right and shall have a maximum curb to curb diameter of 55' and a maximum wall to wall diameter of 58'.
 - 1.18.12 The manufacturer at his expense shall have the apparatus tested and approved by Underwriters Laboratories Incorporated, in accordance with the latest version of NFPA Standard 1901.
 - 1.18.13 It shall be required that the apparatus be operated throughout all tests by the delivery engineer of the successful CONTRACTOR, and during such tests shall have a representative to work with from Riverside County Fire Department's Fleet Division in summarizing results of the tests. Riverside County Fire shall be notified a minimum of twenty-one (21) working days in advance of these tests and may elect to have a representative present.
 - 1.18.14 A complete demonstration of how the apparatus and aerial ladder operates shall be conducted by the manufacturer during the on-site inspection of the completed apparatus.

CONTRACTOR Complies with Section 1.18: YES

1.19 Failure to Meet Tests and Requirements

- 1.19.1 In the event the apparatus fails to meet the test requirements on first trials, second trials shall be made within thirty (30) calendar days of the first trials. Such trials shall be final and conclusive, and failure to comply with the requirements shall be cause for rejection.
- 1.19.2 Failure to make changes as the Fire Department may consider necessary to conform to these specifications, within thirty (30) calendar days after written notice is given to the CONTRACTOR to make such changes and shall be cause for rejection of the apparatus.
 - 1.19.2.1 Failure of an inspection (Cab/chassis or Pre-paint) shall require a re-inspection prior to the CONTRACTOR/builder moving on to the next phase of the apparatus construction. All costs of this re- inspection shall be the responsibility of the CONTRACTOR. The Riverside County Fire Department shall send two (2) representatives to the re-inspection to ensure contract compliancy. The Riverside County Fire Department shall not allow another inspection to be scheduled until confirmation of completion has been achieved on the previous inspection has been achieved.
 - 1.19.2.2 Failure of a pre-paint inspection shall require that a re-inspection take place before any finish work (application of any filler materials and/or painting) take place.
 - 1.19.2.3 Failure of the final inspection shall require a re-inspection prior to the CONTRACTOR/builder delivering the apparatus. The final re- inspection shall take place at the vendors service/warranty facility. The Riverside County Fire Department shall send two (2) representatives to the re-inspection to insure contract compliancy.
- 1.19.3 All required equipment, manuals, charts, and books shall accompany the apparatus at the time of delivery. Failure to deliver the equipment and printed material as required may be cause for non-acceptance of the apparatus.

CONTRACTOR Complies with Section 1.19: YES**1.20 General Apparatus Construction Criteria**

- 1.20.1 The design of the apparatus shall embody the latest approved SAE automotive and JIC hydraulic engineering practices and standards. The construction and workmanship throughout the apparatus shall be of the highest professional quality.
- 1.20.2 Welded construction shall not be used in the attachment of the following items: running boards, compartment hinges and fenders. Welded compartments are acceptable, but shelving within compartments must be adjustable.
- 1.20.3 All steel welding shall be performed to American Welding Society Standard D1.1-83 for structural steel welding. All aluminum welding shall be performed to American Welding Society Standard and ANSI D1.2-83 for structural welding of aluminum. All Flex cord arc welding shall use alloy rods type 7000 American Welding Society Standards A5.20-E70T1.
- 1.20.4 Welding shall not be employed in assembly of the apparatus in any manner that shall prevent the ready removal of any mechanical part or component for service or repair, including the attachment of fenders, running boards or compartment hinges.
- 1.20.5 All welding shall be neat and have uniform beads. All welding spatter shall be removed. Any torch cut metal shall have cuts ground smooth.
- 1.20.6 Anodized couplings used in connection with "Aeroquip" type lines are acceptable.
- 1.20.7 All sharp edges, burrs, etc., shall be ground or filed to a smooth radius. All exposed sharp corners of structural members shall be ground to a minimum radius of ½-inch or one-half the material width whichever is less.
- 1.20.8 Aluminum diamond-plate or stainless steel covering shall be used in all areas that have high exposure to paint finish damage under normal use. These areas include, but are not limited to, surface adjacent to walking or stepping surfaces, equipment mounting locations and areas subject to hose coupling and equipment damage.
- 1.20.9 The fire-body shall be built in accordance with design requirements and specifications listed in the trailer body & aerial section III.
- 1.20.10 Bolted construction consisting of machine screws with nuts and lock-washers shall be employed. Tapped holes, stud-welded fasteners or similar shall be used where necessary to permit items to be removed by one person where they cannot reach the opposite side of the fastener. All fasteners shall meet SAE J429 Standards.

CONTRACTOR Complies with Section 1.20: YES**1.21 Finish**

- 1.21.1 All exposed metal surfaces will be painted. In preparation for painting running boards, rear steps, all aluminum tread-plate, stainless steel, chrome, compartment doors, pumps panels and similar parts shall be removed from apparatus.
- 1.21.2 All metal shall be thoroughly sanded and primed. A sufficient number of filler coats shall be applied to insure a smooth pit-free surface.
- 1.21.3 The apparatus body compartment interiors and inner door panels shall have a "Line-X" two-component spray-in-place thermoplastic polyurethane coating to provide maximum protection for everyday equipment removal and shifting.
- 1.21.4 The exterior cab and apparatus body will be painted in PPG FBCH 72626 Alt special red, in all areas.
- 1.21.5 The apparatus lettering and decal will be done to meet Riverside County Fire Department specifications. Photos and vendor information will be provided at the pre-construction meeting.
- 1.21.6 The apparatus lettering and decal will be done to meet Riverside County Fire Department specifications. Photos and vendor information will be provided at the pre-construction meeting.
- 1.21.7 The entire chassis frame rails shall be properly prepared and finish painted in job color prior to installation of body brackets, stiffeners, and support members or similar items. The entire chassis, engine and other components shall be thoroughly painted and free of rust when delivered to the Fire Department.

- 1.21.8 Any accessory equipment mounted before final painting must be removed prior to painting. Drilled holes for lights, sirens, compartments or similar items shall receive the final prime and finish paint so that all the holes, cut-outs, louvers and similar are painted.
- 1.21.9 After final painting all parts that have been removed and all aluminum tread-plate overlays and running boards must be assembled with coated nuts, bolts, and coated self-tapping screws, using special tape to preclude electrolysis and gasket to inhibit rust and corrosion. The use of gaskets under the accessories is required so brackets do not dig in and break the paint.
- 1.21.10 All metal surfaces will be painted, including areas covered by aluminum tread-plate, stainless or similar.
- 1.21.11 When painting the apparatus, the engine compartment shall be masked off so that paint will be kept off fan belts, radiator hoses, wiring or other electrical appurtenance.
- 1.21.12 Chromium plating shall be of the highest quality decorative type and comply with ASTM Table II, Class 4 "Service: Very Severe"; and also shall meet ASTM-A-219-58 "Thickness" and ASTM-B-380-61T, "Corrosion Test Methods" latest editions.
- 1.21.13 The body exterior shall have no mounted components prior to painting to assure full coverage of metal treatments and paint to the exterior surfaces of the body.

CONTRACTOR Complies with Section 1.21: NO

1.22 Paint Process

The metal is to be thoroughly cleaned and prepped in accordance with paint manufacturer's recommendations for polyurethane enamel finish. Color primer will be applied at 2 to 4- mil thickness, and a minimum of 2-3 coat finish to provide a smooth blemish free surface for a final color application of 2 to 3- mil thicknesses. Exterior paint shall average at least eighty even (87) reflectivity measured at not fewer than twelve location per the paint manufacturer's standard test method. A mirror finish is expected. No runs, sags, fish-eyes, orange-peel, foggy topcoat, or other finish defects will be accepted. Apparatus body shall be free from sharp corners, edges, burrs and other conditions hazardous to passengers, driver and maintenance personnel.

CONTRACTOR Complies with Section 1.22: YES

1.23 Reflective Markings

- 1.23.1 A white 6-inch reflective tape will be applied on the vehicle that meets the latest NFPA 1901 Standard and must match existing County standards. Photographs and specifications will be provided to the CONTRACTOR upon request.
- 1.23.2 In addition to the custom striping pattern on the apparatus, there shall be additional reflective striping applied to the entire rear of the unit. The striping shall consist of alternating red and fluorescent yellow reflective stripes. Each stripe shall be a minimum of six (6) inches in width and shall be applied to the apparatus at a 45 degree angle. Chevron striping to the entire recessed portion of the rear of the body around the T1 door and under the tiller cab.
- 1.23.3 There shall be a 1 1/2 inch strip of chevron on the edge of the inner pan of all compartments on the cab, and fire body. The colors shall be the same as the chevron striping on the rear of the apparatus.
- 1.23.4 There shall be a four (4) inch wide Red/Yellow chevron that shall be applied to the outer most edge all of the compartment interior door pans. This reflective material shall run the full height of the compartment door.
- 1.23.5 The interior of each cab door shall include high visibility reflective tape. A white reflective tape one (1) inch in width shall be provided vertically along the rear outer edge of the door. The lowest portion of each door skin shall include a reflective tape chevron with red and white stripes. The chevron tape shall measure twelve (12) inches in height.
- 1.23.6 There shall be two (2) inch reflective striping installed in the rub rail channel. The reflective striping shall be diamond grade quality material for increased visibility. The reflective tape shall be silver in color.
- 1.23.7 There shall be two (2) reflective American Flags installed on the apparatus. Location to be determined at the pre-construction meeting. All red/yellow chevron striping shall match throughout the entire apparatus

CONTRACTOR Complies with Section 1.23: YES

1.24 Materials

All materials shall conform to the detailed specifications. When not specifically listed, materials shall be of the best quality for commercial use. Materials shall be free of all defects and imperfections that might affect the completed apparatus.

CONTRACTOR Complies with Section 1.24: YES

1.25 Replacement Parts

1.25.1 The CONTRACTOR shall list and attach to their proposal any proprietary parts; to include, part #'s, item description and unit price for all proprietary parts exclusively manufactured for the apparatus being offered.

1.25.2 CONTRACTOR shall provide a guarantee confirming the manufacturer of the apparatus will have readily available for immediate shipment to the County a complete stock of all proprietary parts for a period of twenty (20) years from date the apparatus is delivered/accepted by the County.

1.25.3 The manufacturer of the apparatus shall not provide any components or parts that reflect their name or logo which are not proprietary to them; thereby, preventing the County from purchasing an "exact" replacement component or part through regular supply distribution channels (i.e. manufacturing jobbers or retail outlets).

CONTRACTOR Complies with Section 1.25: YES

1.26 Compliance

The CONTRACTOR shall be liable for all costs associated with failure of the apparatus to comply with these specifications. Final acceptance of the apparatus will not be made, nor any payments made, until such time as all discrepancies are corrected to the satisfaction of the County.

CONTRACTOR Complies with Section 1.26: YES

1.27 Vehicle Registration

1.27.1 CONTRACTOR shall be licensed by the California Department of Motor Vehicles as a dealer for commercial vehicles and have the ability legally register any vehicles purchased.

1.27.2 Contractor shall ship all vehicles with temporary registration.

CONTRACTOR Complies with Section 1.27: YES

1.28 Quality Assurance Provisions

1.28.1 The County reserves the right, at the County's expense, to maintain a representative(s) in Manufacturer's Plant and assembly line during the production of its apparatus to observe the assembly with the intent to provide clarification to the bid specifications. The County also reserves the right, at the County's expense, to maintain a representative(s) in Contractor's Dealership pre-delivery preparation facility location during the pre-delivery production of its apparatus. The County shall observe the pre-delivery preparation and provide clarification of the departments bid specifications prior to delivery of apparatus to the County's delivery and acceptance location.

1.28.2 The manufacturer shall build one complete apparatus prior to the construction of any others. The County's must approve everything on the first apparatus to ensure everything has been built to the spec

CONTRACTOR Complies with Section 1.28: YES

End of Section I – General

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SECTION II – CAB & CHASSIS

2.1 Model

The chassis shall be a four-door model. The cab and chassis shall include design considerations for multiple emergency vehicle applications, rapid transit and maneuverability. The chassis shall be manufactured for heavy duty service with the strength and capacity to support a fully laden apparatus, one hundred (100) percent of the time.

CONTRACTOR Complies with Section 2.1: YES

2.2 Country of Service

The chassis shall be put in service in the country of United States of America (USA). The chassis will meet applicable U.S.A. federal motor vehicle safety standards per CFR Title 49 Chapter V Part 571 as clarified in the incomplete vehicle book per CFR Title 49 Chapter V Part 568 Section 4 which accompanies each chassis.

CONTRACTOR Complies with Section 2.2: YES

2.3 Cab and Chassis Labeling Language

The cab and chassis shall include the applicable caution, warning, and safety notice labels with text to be written in English.

CONTRACTOR Complies with Section 2.3: YES

2.4 Apparatus Type

The apparatus shall be a mid-mount aerial vehicle designed for emergency service use. The apparatus shall be equipped with a mid-mount aerial ladder, minimum 100' in length.

CONTRACTOR Complies with Section 2.4: YES

2.5 Vehicle Type

The chassis shall be manufactured for use as a tractor type vehicle, designed to accept a trailer through the use of a fifth wheel hitch. The trailer shall be supplied and installed by the apparatus manufacturer.

CONTRACTOR Complies with Section 2.5: YES

2.6 Axle Configuration

The chassis shall feature a 4 x 2 axle configuration consisting of a single rear drive axle with a single front steer axle.

2.6.1 Front Steer Axle

The front steer axle shall be Steertek NXT with a manufacturer's certified weight rating of not less than 22,000 lbs.

2.6.2 Drive Axle

The rear axle shall be a Meritor model RS-30-185 single drive axle. The axle shall include precision forged, single reduction differential gearing, and shall have a fire service rated capacity of 33,000 pounds. The axle shall be built of superior construction and quality components to provide the rugged dependability needed to stand up to the fire industry's demands. The axle shall include rectangular shaped, hot-formed housing with a standard wall thickness of 0.56 of an inch for extra strength and rigidity and a rigid differential case for high axle strength and reduced maintenance. The axle shall have heavy-duty Hypoid gearing for longer life, greater strength and quieter operation. Industry-standard wheel ends for compatibility with both disc and drum brakes, and unitized oil seal technology to keep lubricant in and help prevent contaminant damage will be used.

2.6.3 Rear Trailer Steer Axle

The rear trailer steer axle shall be Meritor MFS-20-133 A-N having a manufacturer's certified weight rating of not less than 23,000 lbs.

CONTRACTOR Complies with Section 2.6: YES

2.7 Gross Axle Weight Ratings Front

The front gross axle weight rating (GAWR) of the chassis shall be 21,500 pounds. This front gross axle weight rating shall be adequate to carry the weight of the completed apparatus including all equipment and personnel.

CONTRACTOR Complies with Section 2.7: YES

2.8 Gross Drive Axle Weight Rating

The rear gross axle weight rating (GAWR) of the chassis shall be 31,000 pounds. This rear gross axle weight rating shall be adequate to carry the weight of the completed apparatus including all equipment and personnel.

CONTRACTOR Complies with Section 2.8: YES

2.9 Gross Combination Weight Rating

The gross combination weight rating (GCWR) shall be 74,500 lbs. The sum of the gross weight of the vehicle and the gross weight of the trailer intended to be towed shall not exceed this GCWR.

CONTRACTOR Complies with Section 2.9: YES

2.10 Cab Style

The cab shall be a custom, fully enclosed, four door model with a flat roof over the driver, officer, and crew area, designed and built specifically for use as an emergency response vehicle by a company specializing in cab and chassis design for all emergency response applications. The cab shall be designed for heavy-duty service utilizing superior strength and capacity for the application of protecting the occupants of the vehicle. This style of cab shall offer up to six (6) seating positions. The cab shall incorporate a fully enclosed design with side wall roof supports, allowing for a spacious cab area with no partition between the front and rear sections of the cab. The cab shall be constructed of 5052-H32 corrosion resistant aluminum plate. The cab shall incorporate tongue and groove fitted 6061-T6 0.13 & 0.19-inch-thick aluminum extrusions for extreme duty situations. A single formed, one (1) piece extrusion shall be used for the "A" pillar, adding strength and rigidity to the cab as well as additional roll-over protection. The cab side walls and roof skin shall be 0.13-inch-thick; the rear wall skin shall be 0.09-inch-thick; the front cab structure shall be 0.19 inch thick. The exterior width of the cab shall be a minimum 99.00 inches wide with a minimum interior width of 91.00 inches. The cab interior shall be designed to afford the maximum usable interior space and attention to ergonomics with hip and leg room while seated which exceeds industry standards. The crew cab floor shall be flat across the entire walking area for ease of movement inside the cab.

CONTRACTOR Complies with Section 2.10: NO

2.11 Cab Front Fascia

The front cab fascia shall be constructed of 5052-H32 Marine Grade, 0.13 of an inch thick aluminum plate which shall be an integral part of the cab. The cab fascia will encompass the entire front of the aluminum cab structure from the bottom of the windshield to the bottom of the cab and shall be the "Classic" design. The front cab fascia shall include two (2) molded plastic modules on each side accommodating a total of up to four (4) Hi/Low beam headlights and two (2) turn signal lights or up to four (4) warning lights. A chrome plated molded plastic bezel shall be provided on each side around each set of four lamps.

CONTRACTOR Complies with Section 2.11: YES

2.12 Front Grille

The front cab fascia shall include a classic box style, 304 stainless steel front grille. The grille shall measure approximately approximate 55" wide X 33" inches high X 1.50 inches deep. The upper portion of the grille shall be hinged to provide service access behind the grille. The grille shall include a minimum free air intake of approximately 750.00 square inches

CONTRACTOR Complies with Section 2.12: NO

2.13 Cab Undercoat

There shall be a rubberized undercoating applied to the underside of the cab that provides abrasion protection, sound deadening and corrosion protection.

CONTRACTOR Complies with Section 2.13: YES

2.14 Cab Side Drip Rail

There shall be a drip rail along the top radius of each cab side. The drip rails shall help prevent water from the cab roof running down the cab side.

CONTRACTOR Complies with Section 2.14: YES

2.15 Cab Paint Exterior

The cab shall be painted prior to the installation of glass accessories and all other cab trim to ensure complete paint coverage and the maximum in corrosion protection of all metal surfaces. All metal surfaces on the entire cab shall be ground by disc to remove any surface oxidation or surface debris which may hinder the paint adhesion. Once the surface is machine ground a high-quality acid etching of base primer shall be applied. Upon the application of body fillers and their preparation, the cab shall be primed with a coating designed for corrosion resistance and surface paint adhesion. The maximum thickness of the primer coat shall be 2.00 mils. The entire cab shall then be coated with an intermediate solid or epoxy surfacing agent that is designed to fill any minor surface defects, provide an adhesive bond between the primer and the paint and improve the color and gloss retention of the color. The finish to this procedure shall be a sanding of the cab with 360 grit paper followed by sealing the seams with SEM brand seam sealer. The cab shall then be painted the specific color designated by the customer with an acrylic urethane type system designed to retain color and resist acid rain and most atmospheric chemicals found on the fire ground or emergency scene. The paint shall have a minimum thickness of 2.00 mils, followed by a clear top coat not to exceed 2.00 mils. The entire cab shall then be baked at 180 degrees for one (1) hour to speed the curing process of the coatings.

CONTRACTOR Complies with Section 2.15: YES

2.16 Cab Paint Manufacturer

The cab shall be painted with PPG Industries paint.

CONTRACTOR Complies with Section 2.16: NO

2.17 Cab Paint Primary/Lower Color

The lower paint color shall be PPG FBCH 72626 ALT Red.

CONTRACTOR Complies with Section 2.17: NO

2.18 Cab Paint Roof Color (Section referenced in Question # 2 vendor questions)

The cab roof paint color shall be PPG FBCH 72626 ALT Red.

CONTRACTOR Complies with Section 2.18: NO

2.19 Cab Roof Coating

The cab roof shall be coated with a flexible, non-skid textured truck bed type coating to the uppermost curve of the roofline so as to not be visible from the ground. Areas where attached components seal to shall be masked off. The color of the roof coating shall be white.

CONTRACTOR Complies with Section 2.19: YES

2.20 Cab Paint Warranty

The cab and chassis shall be covered by a limited manufacturer paint warranty which shall be in effect for ten (10) years from the first owner's date of purchase or in service or the first 100,000 actual miles, whichever occurs first.

CONTRACTOR Complies with Section 2.20: YES

2.21 Cab Paint Interior

The visible interior cab structure surfaces shall be painted with a black Rhino Liner type finish.

CONTRACTOR Complies with Section 2.21: YES

2.22 Cab Entry Doors

The cab shall include four (4) entry doors, two (2) front doors and two (2) crew doors designed for ease of entering and egress when outfitted with an SCBA. The doors shall be constructed of extruded aluminum with a nominal thickness of 0.13 inch. The exterior skins shall be constructed of 0.13-inch aluminum plate. The doors shall include a double rolled style automotive rubber seal around the perimeter of each door frame and door edge which ensures a weather tight fit. All door hinges shall be hidden within flush mounted cab doors for a pleasing smooth appearance and perfect fit along each side of the cab. Each door hinge shall be piano style with a 0.38-inch pin and shall be constructed of stainless steel.

CONTRACTOR Complies with Section 2.22: NO

2.23 Cab Entry Door Type

All cab entry doors shall be barrier clear design resulting in exposed lower cab steps. The doors shall provide approximately 32.00 inches of clearance from the ground to the bottom of the door so cab doors may be opened un-hindered by most obstacles encountered, such as guard rails along interstate highways.

CONTRACTOR Complies with Section 2.23: YES

2.24 Cab Insulation

The cab ceiling and walls shall include 1.00-inch-thick foam insulation. The insulation shall act as a barrier absorbing noise as well as assisting in sustaining the desired climate within the cab interior.

CONTRACTOR Complies with Section 2.24: YES

2.25 Cab Structural Warranty

The cab structure shall be warranted for a period of ten (10) years which ever may occur first. The warranty period shall commence on the date the vehicle is placed into service by Riverside County Fire.

CONTRACTOR Complies with Section 2.25: YES

2.26 Cab Test Information

The cab shall have successfully completed the preload side impact, static roof load application and frontal impact without encroachment to the occupant survival space when tested in accordance with Section 4 of SAE J2420 COE Frontal Strength Evaluation Dynamic Loading Heavy Trucks, Section 5 of SAE J2422 Cab Roof Strength Evaluation Quasi -Static Loading Heavy Trucks and ECE R29 Uniform Provisions Concerning the Approval of Vehicles with regard to the Protection of the Occupants of the Cab of a Commercial Vehicles Annex 3 Paragraph 5. The above tests have been witnessed by and attested to by an independent third party. The test results were recorded using cameras, high speed imagers, accelerometers and strain gauges. Documentation of the testing shall be provided upon request.

CONTRACTOR Complies with Section 2.26: YES

2.27 Roof Mounted Antenna Array

Provide a sealed antenna array on top of the cab, constructed of welded 3"x3" square aluminum tubing and welded to the cab roof. The array shall be a "U" shape extending 60" along the outer sides of the cab roof and tied together across the rear. A minimum of four (4) exterior access openings shall be provided in each of the three sections (inboard on sides and outboard on rear) to allow for antenna mounting. The rear section shall be provided with no less than three drain tunnels to promote roof drainage and shall provide a through the roof transition into the rear bad communications cabinet. This transition shall be provided with a 100% welded ¾" bulkhead trim to prevent accumulated moisture from dripping into the communications compartment.

CONTRACTOR Complies with Section 2.27: YES

2.28 Electrical System

The chassis shall include a single starting electrical system which shall include a 12-volt direct current system, suppressed per SAE J551. The wiring shall be appropriate gauge cross link with 311-degree Fahrenheit insulation.

All SAE wires in the chassis shall be color coded and shall include the circuit number and function where possible. The wiring shall be protected by 275-degree Fahrenheit minimum high temperature flame retardant loom.

CONTRACTOR Complies with Section 2.28: YES

2.29 OEM Wiring

The wiring system shall include a custom J1939 interface harness drop provided by the chassis manufacturer designed to meet the requirements provided by the OEM. The wiring system shall also include a prewire for ECM park brake input and engine ground return circuits located behind the switch panel. The circuits shall include an extra 2 feet of wire and shall be labeled "ECM Park Brake Input".

CONTRACTOR Complies with Section 2.29: YES

2.30 Trailer Electrical Connection

A seven (7) pin round electrical trailer electrical connection shall be provided with the chassis. The wiring shall include a ground wire which shall be in the white cavity; wiring for marker lights which shall be black; left turn signal wiring which shall be yellow, wiring for stop lights which shall be red; right turn signal wiring which shall be green, additional marker lights which shall be brown and ABS brake power which shall be in the blue cavity.

CONTRACTOR Complies

with Section 2.30: YES

2.31 Data Recording System

The chassis shall have a Class One Vehicle Data Recorder (VDR) system installed. The system shall be designed to meet NFPA 1901. The following information shall be recorded:

- a. Vehicle Speed
- b. Acceleration
- c. Deceleration
- d. Engine Speed
- e. Engine Throttle Position
- f. ABS Event
- g. Seat Occupied Status
- h. Seat Belt Status
- i. Master Optical Warning Device Switch Position
- j. Time
- k. Date

Each portion of the data shall be recorded at the specified intervals and stored for the specified length of time to meet NFPA 1901 guidelines and shall be retrievable by connecting a laptop computer to the VDR system. The laptop connection shall be a panel mounted female type B USB connection point, remotely mounted in the left side foot well of the cab.

CONTRACTOR Complies with Section 2.31: YES

2.32 Accessory Power

The electrical distribution panel shall include two (2) power studs. The studs shall be size #10 and each of the power studs shall be circuit protected with a fuse of the specified amperage. One (1) power stud shall be capable of carrying up to a 40-amp battery direct load. One (1) power stud shall be capable of carrying up to a 15-amp ignition switched load. The two (2) power studs shall share one (1) #10 ground stud. A 225-amp battery direct power and ground stud shall be provided and installed on the chassis near the left-hand battery box for OEM body connections.

CONTRACTOR Complies with Section 2.32: YES

2.33 Auxiliary Accessory Power

An auxiliary set of power and ground studs shall be provided and installed behind the electrical center cover with a 40-amp breaker. The studs shall be 0.38-inch diameter and capable of carrying up to a 40-amp battery direct load.

CONTRACTOR Complies with Section 2.33: YES

2.34 Exterior Electrical Terminal Coating

All terminals exposed to the elements will be sprayed with a high visibility protective rubberized coating to prevent corrosion.

CONTRACTOR Complies with Section 2.34: YES

2.35 Engine

The apparatus shall be equipped with a current model year Cummins X15 or equal diesel engine governed at 2100RPM and rated for fire service. The following requirements shall be met:

- a. 15.0 Liter maximum displacement.
- b. 600 Minimum horsepower.
- c. 1850 lb/ft minimum torque at 1,200RPM.

The engine shall meet the current 50 State emission requirements.

CONTRACTOR Complies with Section 2.35: YES

2.36 Cab Engine Tunnel

The cab interior shall include an integrated engine tunnel constructed of 5052-H32 Marine Grade 0.19 of an inch-thick aluminum alloy plate. The tunnel shall be a maximum of 46.50 inches wide X 29.00 inches high.

CONTRACTOR Complies with Section 2.36: YES

2.37 Diesel Particulate Filter Control

There shall be two (2) controls for the diesel particulate filter. One (1) control shall be for regeneration and one (1) control shall be for regeneration inhibit.

CONTRACTOR Complies with Section 2.37: YES

2.38 Engine Programming High Idle Speed

The engine high idle control shall maintain the engine idle at approximately 1250 RPM when engaged.

CONTRACTOR Complies with Section 2.38: YES

2.39 Engine High Idle Control

The vehicle shall be equipped with a high-idle speed button on the Vista screen, which shall be pre-set to maintain the engine idle at a pre-determined rate when activated manually. This device shall operate when the master switch is activated and safely interlocked only to function when the transmission is in neutral with the parking brake set.

CONTRACTOR Complies with Section 2.39: YES

2.40 Engine Programming Road Speed Governor

The engine shall include programming which will govern the top speed of the vehicle per NFPA 1901's recommendation.

CONTRACTOR Complies with Section 2.40: YES

2.41 Auxiliary Engine Brake

A compression brake, for the six (6) cylinder engine shall be provided. A cutout relay shall be installed to disable the compression brake when in pump mode or when an ABS event occurs. The engine compression brake shall activate upon 0% accelerator when in operation mode and actuate the vehicle's brake lights. The engine shall utilize a variable geometry turbo (VGT) as an integrated auxiliary engine brake to offer a variable rate of exhaust flow, which when activated in conjunction with the compression brake shall enhance the engine's compression braking capabilities.

CONTRACTOR Complies with Section 2.41: YES

2.42 Auxiliary Engine Brake Control

An engine compression brake control device shall be included. The electronic control device shall monitor various conditions and shall activate the engine brake only if all the following conditions are simultaneously detected:

- a. A valid gear ratio is detected.
- b. The driver has requested or enabled engine compression brake operation.
- c. The throttle is at a minimum engine speed position.
- d. The electronic controller is not presently attempting to execute an electronically controlled final drive gear shift.
- e. There is no active ABS event.

The compression brake shall be controlled through an off/low/high rocker switch on the dash.

CONTRACTOR Complies with Section 2.42: YES

2.43 Electronic Engine Oil Level Indicator

The engine oil shall be monitored electronically and shall send a signal to activate a warning in the instrument panel when levels fall below normal. The warning shall activate in a low oil situation upon turning on the master battery and ignition switches without the engine running.

CONTRACTOR Complies with Section 2.43: NO

2.44 Fluid Fills

The front of the chassis shall accommodate fluid fill for the engine oil through the grille. This area shall also accommodate a check for the engine oil. The transmission, power steering, and coolant fluid fills and checks shall be under the cab. The windshield washer fill shall be accessible through the front left side mid step.

CONTRACTOR Complies with Section 2.44: NO

2.45 Engine Drain Plug

The engine shall include an original equipment manufacturer installed oil drain plug

CONTRACTOR Complies with Section 2.45: YES

2.46 Engine Programming Idle Speed

The engine low idle speed will be programmed at 700 rpm.

CONTRACTOR Complies with Section 2.46: YES

2.47 Engine Fan Drive

The engine cooling system fan shall incorporate a thermostatically controlled, Horton clutched type fan drive. When the clutched fan is disengaged, it shall facilitate improved vehicle performance, cab heating in cold climates, and fuel economy. The fan clutch design shall be fail safe so that if the clutch drive fails the fan shall engage to prevent engine overheating due to the fan clutch failure.

CONTRACTOR Complies with Section 2.47: YES

2.48 Engine Cooling System

There shall be a heavy-duty aluminum cooling system designed to meet the demands of the emergency response industry. The cooling system shall have the capacity to keep the engine properly cooled under all conditions of road and pumping operations. The cooling system shall be designed and tested to meet or exceed the requirements specified by the engine and transmission manufacturer and all EPA requirements. The complete cooling system shall be mounted to isolate the entire system from vibration or stress. The individual cores of the cooling system shall be mounted in a manner to allow expansion and contraction at various rates without inducing stress into the adjoining cores. The cooling system shall be comprised of a charge air cooler to radiator serial flow package that provides the maximum cooling capacity for the specified engine as well as serviceability. The main components shall include a surge tank, a charge air cooler bolted to the front of the radiator, recirculation shields, a shroud, a fan, and required tubing. The radiator shall be a down-flow design constructed with aluminum cores, steel end tanks, and a steel frame. The radiator shall be equipped with a drain cock to drain the coolant for serviceability. The radiator shall have a sight glass visible when the cab is lifted. The sight shall eliminate the need to remove the radiator cap to check the coolant level. The cooling system shall include a one piece injected molded polymer eleven (11) blade fan with a three (3) piece fiberglass fan shroud. The cooling system shall be equipped with a surge tank that is capable of removing entrained air from the system. The surge tank shall be equipped with a low coolant probe and sight glass to monitor the level of the coolant. The sight glass shall be easily visible when the cab is raised. The surge tank shall have a dual seal cap that meets the engine manufacturer's pressure requirements, and allows for expansion and recovery of coolant into a separate integral expansion chamber. All radiator tubes shall be formed from aluminized steel tubing. Recirculation shields shall be installed where required to prevent heated air from reentering the cooling package and affecting performance. The charge air cooler shall be a cross-flow design constructed completely of aluminum with cast tanks. All charge air cooler tubes shall be formed from aluminized steel tubing and installed with silicone hump hoses and stainless steel "constant torque" style clamps meeting the engine manufacturer's requirements. The radiator and charge air cooler shall be removable through the bottom of the chassis.

CONTRACTOR Complies with Section 2.48: YES

2.49 Engine Cooling System Protection

The engine cooling system shall include a recirculation shield designed to act as a light duty skid plate below the radiator to provide additional protection for the engine cooling system from light impacts, stones, and road debris. The skid plate shall be painted to match the frame color.

CONTRACTOR Complies with Section 2.49: YES

2.50 Engine Coolant

The cooling package shall include Extended Life Coolant (ELC). The use of ELC provides longer intervals between coolant changes over standard coolants providing improved performance. The coolant shall contain a 50/50 mix of ethylene glycol and de-ionized water to keep the coolant from freezing to a temperature of -34 degrees Fahrenheit. Proposals offering supplemental coolant additives (SCA) shall not be considered, as this is part of the extended life coolant makeup.

CONTRACTOR Complies with Section 2.50: YES

2.51 Engine Cooling Recovery Tank

There shall be a non-pressurized engine coolant recovery tank.

CONTRACTOR Complies with Section 2.51: YES

2.52 Engine Coolant Filter

An engine coolant filter with a shut-off valve for the inlet and outlet shall be installed on the chassis. The location of the filter shall allow for easy maintenance. Proposals offering engines equipped with coolant filters shall be supplied with standard non-chemical type particulate filters.

CONTRACTOR Complies with Section 2.52: YES

2.53 Electronic Coolant Level Indicator

The instrument panel shall feature a low engine coolant indicator light which shall be located in the center of the instrument panel. An audible tone alarm shall also be provided to warn of a low coolant incident.

CONTRACTOR Complies with Section 2.53: YES

2.54 Coolant Hoses

The cooling system hoses shall be standard black gates heater hose with rubber hoses in the cab interior. The radiator hoses shall be formed standard black gates coolant hoses with formed aluminized steel tubing. All heater hose, standard black gates coolant hose, and tubing shall be secured with stainless steel constant torque band clamps. (2) seasonal heater shutoff valves shall be installed. (location TBD at PreCon)

CONTRACTOR Complies with Section 2.54: NO

2.55 Engine Air Intake

The engine air intake system shall include an ember separator air intake filter. This filter ember separator shall be designed to protect the downstream air filter from embers, using a combination of unique flat and crimped metal screens packaged in a corrosion resistant heavy duty galvanized steel frame. This multilayered screen shall be design traps embers and allows them to burn out before passing through the pack. The air cleaner shall utilize a replaceable filter element designed to prevent dust and debris from being ingested into the engine. The air cleaner housing and connections in the air intake system shall be designed to mitigate water intrusion into the system during severe weather conditions. The air intake system shall also include a restriction indicator light in the warning light cluster on the instrument panel, which shall activate when the air cleaner element requires replacement.

CONTRACTOR Complies with Section 2.55: YES

2.56 Air Intake Protection

A light duty skid plate shall be supplied for the engine air intake. The skid plate shall provide protection for the air intake system from light impacts, stones, and road debris. The skid plate shall be painted to match the frame color.

CONTRACTOR Complies with Section 2.56: NO

2.57 Engine Exhaust System

The exhaust system shall include an end-in end-out horizontally mounted single module after treatment device, downpipe from the charge air cooled turbo. The single module shall include four temperature sensors, diesel particulate filter (DPF), urea dosing module (UL2), and a selective catalytic reduction (SCR) catalyst to meet current EPA standards. The selective catalytic reduction catalyst utilizes a diesel exhaust fluid solution consisting of urea and purified water to convert NO_x into nitrogen, water, and trace amounts of carbon dioxide. The solution shall be mixed and injected into the system through the between the DPF and SCR. The system shall utilize 0.07-inch-thick stainless steel exhaust tubing between the engine turbo and the DPF. Zero leak clamps seal all system joints between the turbo and DPF. The single module after treatment through the end of the tailpipe shall be connected with zero leak clamps. The discharge shall terminate horizontally on the right side of the vehicle ahead of the rear tires. The exhaust system after treatment module shall be mounted below the frame in the inboard position.

CONTRACTOR Complies with Section 2.57: YES

2.58 Diesel Exhaust Fluid Tank

The exhaust system shall include a molded cross linked polyethylene tank for Diesel Exhaust Fluid (DEF). The tank shall have a capacity of ten (10) usable gallons and shall be mounted on the left-hand side located mid chassis underneath the cab door to provide easy access to the DEF filler.

CONTRACTOR Complies with Section 2.58: NO**2.59 Engine Exhaust Accessories**

An exhaust temperature mitigation device shall be shipped loose for installation by the body manufacturer on the vehicle. The temperature mitigation device shall lower the temperature of the exhaust by combining ambient air with the exhaust gasses at the exhaust outlet. The engine exhaust shall terminate at a 90-degree angle on the officer side with the ability to accommodate a Plymovent connection.

CONTRACTOR Complies with Section 2.59: YES

2.60 Engine Exhaust Wrap

The exhaust tubing between the engine turbo and the diesel particulate filter (DPF) shall be wrapped with a thermal cover to retain the necessary heat for DPF regeneration. The exhaust wrap shall also help protect surrounding components from radiant heat which can be transferred from the exhaust.

CONTRACTOR Complies with Section 2.60: YES

2.61 Heat Deflector Shield, Exhaust

Increased standards for emission have caused most exhaust temperatures to increase. To keep the exhaust heat from adversely affecting anything stored in the body, a deflector shield shall be provided to aid in dissipating the heat.

CONTRACTOR Complies with Section 2.61: YES

2.62 Transmission

The drive train shall include an Allison model EVS 4000 torque converting, automatic transmission which shall include electronic controls. The transmission shall feature two (2) 10-bolt PTO pads located on the converter housing. The transmission shall include two (2) internal oil filters which shall offer Castrol TranSynd™ synthetic TES 295 transmission fluid which shall be utilized in the lubrication of the EVS transmission. An electronic oil level sensor shall be included with the readout located in the shift selector.

The transmission gear ratios shall be:

- a. 1st 3.51:1
- b. 2nd 1.91:1
- c. 3rd 1.43:1
- d. 4th 1.00:1
- e. 5th 0.74:1
- f. 6th 0.64:1 (if applicable)
- g. Rev 4.80:1

CONTRACTOR Complies with Section 2.62: YES

2.63 Transmission Mode Programming

The transmission, upon start-up, will select a six (6) speed operation without the need to press the mode button.

CONTRACTOR Complies with Section 2.63: YES

2.64 Transmission Feature Programming

The Allison Gen V-E transmission EVS group package number 127 shall contain the 227-vocational package in consideration of the duty of this apparatus for rescue. This package shall incorporate an automatic neutral with selector override. This feature commands the transmission to neutral when the park brake is applied, regardless of drive range requested on the shift selector. This requires re-selecting drive range to shift out of neutral for the override.

A transmission interface connector shall be provided in the cab. This package shall contain the following input/output circuits to the transmission control module. The Gen V-E transmission shall include prognostic

diagnostic capabilities. These capabilities shall include the monitoring of the fluid life, filter change indication, and transmission clutch maintenance. Function ID Description Wire assignment:

- a. Inputs
- b. C PTO Request 143 F Aux. Function Range Inhibit (Special) 101/142
- c. Outputs
- d. G PTO Enable Output (See Input Function C) 130
- e. S Neutral Indicator for PTO 145
- f. Signal Return 103

CONTRACTOR Complies with Section 2.64: YES

2.65 Electronic Transmission Oil Level Indicator

The transmission fluid shall be monitored electronically and shall send a signal to activate a warning in the instrument panel when levels fall below normal.

CONTRACTOR Complies with Section 2.65: YES

2.66 Transmission Shift Selector

An Allison pressure sensitive range selector touch pad shall be provided and located to the right of the driver within clear view and easy reach. The shift selector shall have a graphical Vacuum Florescent Display (VFD) capable of displaying two lines of text. The shift selector shall provide mode indication and a prognostic indicator (wrench symbol) on the digital display. The prognostics monitor various operating parameters and shall alert you when a specific maintenance function is required.

CONTRACTOR Complies with Section 2.66: YES

2.67 Transmission Pre-Select with Auxiliary Brake

When the auxiliary brake is engaged, the transmission shall automatically shift to a lower gear to decrease the rate of speed assisting the secondary braking system and slowing the vehicle.

CONTRACTOR Complies with Section 2.67: YES

2.68 Transmission Cooling System

The transmission shall include a water to oil cooler system located in the cooling loop between the radiator and the engine. The transmission cooling system shall meet all transmission manufacturer requirements. The transmission cooling system shall feature continuous flow of engine bypass water to maintain uninterrupted transmission cooling.

CONTRACTOR Complies with Section 2.68: YES

2.69 Transmission Drain Plug

The transmission shall include an original equipment manufacturer installed magnetic transmission fluid drain plug.

CONTRACTOR Complies with Section 2.69: YES

2.70 Power Take Off (PTO)

A ten (10) bolt standard duty PTO shall be installed on the transmission. Installation shall include mounting of the PTO and wiring the unit with a control switch if required for the PTO model.

CONTRACTOR Complies with Section 2.70: YES

2.71 PTO Model

A ten (10) bolt Muncie model CS41-A1007-H3CX heavy duty transmission driven PTO shall be installed. The clutched shift PTO is designed specifically for the Allison world transmission and features a maximum torque rating of 545 lb. ft.

CONTRACTOR Complies with Section 2.71: YES

2.72 PTO Location

The transmission shall have two (2) power take off (PTO) mounting locations.

CONTRACTOR Complies with Section 2.72: YES

2.73 PTO Control

The power take off shall be controlled by the transmission. The power take off shall be activated by a locking on/off rocker switch which contains an integral light which shall illuminate upon a positive engagement of the power take off. This switch shall be located on dash. Required operating conditions for enabling this function are:

- a. Throttle position is low
- b. Engine speed is within customer specified constant limits
- c. Transmission output speed is within customer specified constant limits
- d. Park brake set

CONTRACTOR Complies with Section 2.73: YES

2.74 Driveline

All drivelines shall be heavy duty metal tube and equipped with Spicer 1810 series universal joints. The shafts shall be dynamically balanced prior to installation to alleviate future vibration. In areas of the driveline where a slip shaft is required, the splined slip joint shall be coated with Glide Coat®.

CONTRACTOR Complies with Section 2.74: YES

2.75 Driveline Retarder

A Telma electromagnetic driveline retarder shall be focal mounted on the rear axle to act as an auxiliary braking system.

CONTRACTOR Complies with Section 2.75: YES

2.76 Driveline Retarder Control

There shall be four (4) stages of activation for the driveline retarder. The first stage shall be 25% activation, the second stage shall be 50% activation, the third stage shall be 75% activation and the fourth stage shall be 100% activation. The stages of retardation shall work off pressure applied to the service brake. The driveline retarder shall be controlled by an On/Off switch located on the dash. There shall be an auxiliary drive line retarder lever controller mounted on the dash mounted next to the ON/OFF switch. The auxiliary lever shall activate the drive line retarder in lieu of applied service brake. There shall be an indicator light mounted on the instrument panel. The indicator light shall indicate the four (4) stages of activation. The driveline retarder shall disengage in pump mode or during an ABS event. A positive activation of the driveline retarder shall activate the brake lights.

CONTRACTOR Complies with Section 2.76: YES

2.77 Fuel Filter/Water Separator

The fuel system shall have a Racor S3238 fuel filter/water separator as a primary filter. The fuel filter shall have a drain valve and a see-through cover to allow visual inspection of fuel and filter condition. The Racor S3238 shall be a 10-micron filter capable of handling a maximum flow rate of 150 gallons per hour. A secondary fuel filter shall be included as approved by the engine manufacturer. An instrument panel lamp and audible alarm which indicates when water is present in the fuel-water separator shall also be included.

CONTRACTOR Complies with Section 2.77: YES

2.78 Fuel Lines

The fuel system supply and return lines installed from the fuel tank to the engine shall be black textile braided lines which are reinforced with braided high tensile steel wire. The fuel lines shall be connected with reusable steel fittings.

CONTRACTOR Complies with Section 2.78: NO

2.79 Electric Fuel Primer

Integral to the engine assembly is an electric lift pump that serves the purpose of pre-filter fuel priming.

CONTRACTOR Complies with Section 2.79: YES

2.80 Fuel Cooler

An aluminum cross flow air to fuel cooler shall be provided to lower fuel temperature allowing the vehicle to operate at higher ambient temperatures. The fuel shall not exceed a temperature of 140 degrees with the engine running at an ambient air temperature of 115 degrees.

CONTRACTOR Complies with Section 2.80: YES

2.81 Fuel Tank

The fuel tank shall have a capacity of seventy (70) gallons.

CONTRACTOR Complies with Section 2.81: YES

2.82 Fuel Tank Material and Finish

The fuel tank shall be constructed of 12-gauge aluminized steel. The exterior of the tank shall be powder coated black and then painted to match the frame color. All powder coatings, primers and paint shall be compatible with all metals, pretreatments and primers used.

CONTRACTOR Complies with Section 2.82: NO

2.83 Fuel Tank Strap Material

The fuel tank straps shall be constructed of ASTM A-36 steel.

CONTRACTOR Complies with Section 2.83: YES

2.84 Fuel Tank Fill Port

The fuel tank fill ports shall be in-line with the left and right side.

CONTRACTOR Complies with Section 2.84: YES

2.85 Fuel Tank Serviceability Provisions

The chassis fuel lines shall have additional length provided so the tank can be easily lowered and removed for service purposes. The additional 8.00 feet of length shall be located above the fuel tank and shall be coiled and secured. The fuel line fittings shall be pointed towards the right side (curbside) of the chassis. Fuel level sending units shall be readily accessible for easy removal without removing the fuel tank or cutting holes in the body. An easily removable access panel is acceptable.

CONTRACTOR Complies with Section 2.85: YES

2.86 Fuel Tank Drain Plug

A 0.5 inch NPT drain plug shall be centered in the bottom of the fuel tank.

CONTRACTOR Complies with Section 2.86: YES

2.87 Front Wheel Bearing Lubrication

The front axle wheel bearings shall be lubricated with oil. The oil level can be visually checked via clear inspection windows in the front axle hubs.

CONTRACTOR Complies with Section 2.87: YES

2.88 Front Shock Absorbers

Two (2) Bilstein inert, nitrogen gas filled shock absorbers shall be provided and installed as part of the front suspension system. The shocks shall be a mono tubular design and fabricated using a special extrusion method, utilizing a single blank of steel without a welded seam, achieving an extremely tight peak-to-valley tolerance and maintains consistent wall thickness. The mono tubular design shall provide superior strength while maximizing heat dissipation and shock life. The ride afforded through the use of a gas shock is more consistent and shall not deteriorate with heat, the same way a conventional oil filled hydraulic shock would. The Bilstein front shocks shall include a digressive working piston assembly allowing independent tuning of the compression and rebound damping forces to provide optimum ride and comfort without compromise. The working piston design shall feature fewer parts than most conventional twin tube and “road sensing” shock designs and shall contribute to the durability and long life of the Bilstein shock absorbers. Proposals offering the use of conventional twin tube or “road sensing” designed shocks shall not be considered.

CONTRACTOR Complies with Section 2.88: NO

2.89 Front Suspension

The front suspension shall include a nine (9) leaf spring pack in which the longest leaf measures 54.00-inch-long and 4.00 inches wide and shall include a military double wrapped front and rear eye. Both spring eyes shall have a case hardened threaded bushing installed with lubrication counter bore and lubrication land off cross bore with grease fitting. The spring capacity shall be rated at 21,500 pounds.

CONTRACTOR Complies with Section 2.89: NO

2.90 Front End Torque

All front-end suspension components shall be re-torqued to the manufacturers specifications once delivered to the local California warranty facility.

CONTRACTOR Complies with Section 2.90: YES

2.91 Steering Column/Wheel

The cab shall include a Douglas Autotech steering column which shall include a seven (7) position tilt, a 2.25-inch telescopic adjustment, and an 18.00 inch, four (4) spoke steering wheel located at the driver’s position. The steering wheel shall be covered with black polyurethane foam padding. The steering column shall contain a horn button, self-canceling turn signal switch, four-way hazard switch and headlamp dimmer switch.

CONTRACTOR Complies with Section 2.91: YES

2.92 Electronic Power Steering Fluid Level Indicator

The power steering fluid shall be monitored electronically and shall send a signal to activate an audible alarm and visual warning in the instrument panel when fluid level falls below normal.

CONTRACTOR Complies with Section 2.92: NO

2.93 Power Steering Pump

The hydraulic power steering pump shall be a Vickers V20F and shall be gear driven from the engine. The pump shall be a fixed displacement vane type. The power steering system shall include an oil to air passive cooler.

CONTRACTOR Complies with Section 2.93: NO

2.94 Tiller Steering Provisions

The chassis shall include an additional power steering pump and reservoir which is necessary with a vehicle designed for a tiller application. The pump shall be a three (3) line type with a seven (7) GPM flow control and a 2000 PSI pressure relief valve. The power steering pump shall be a type which is designed to be driven by a PTO. The body manufacturer shall be responsible for the design, installation, plumbing, and validation of the tiller cab steering system.

CONTRACTOR Complies with Section 2.94: NO

2.95 Front Axle Cramp Angle

The chassis shall have a front axle cramp angle of 48-degrees to the left and 44-degrees to the right.

CONTRACTOR Complies with Section 2.95: YES

2.96 Power Steering Gear

The power steering gear shall be a TRW model TAS 85 with an assist cylinder.

CONTRACTOR Complies with Section 2.96: NO

2.97 Chassis Alignment

The chassis frame rails shall be measured to insure the length is correct and cross checked to make sure they run parallel and are square to each other. The front and rear axles shall be laser aligned. The front tires and wheels shall be aligned and toe-in set on the front tires by the chassis manufacturer.

CONTRACTOR Complies with Section 2.97: YES

2.98 Rear Axle Differential Lubrication

The rear axle differential shall be lubricated with oil.

CONTRACTOR Complies with Section 2.98: YES

2.99 Rear Wheel Bearing Lubrication

The rear axle wheel bearings shall be lubricated with oil.

CONTRACTOR Complies with Section 2.99: YES

2.100 Vehicle Top Speed

The top speed of the vehicle shall meet NFPA 1901 requirements at governed engine RPM.

CONTRACTOR Complies with Section 2.100: YES

2.101 Rear Suspension

The single rear axle shall feature a heavy-duty air suspension with a single optimized air spring mounted to a fabricated load beam trailing arm on each side with a single fixed transverse torque rod. Axle alignment is maintained using eccentric bolts at each frame bracket. Dual air height control valves shall be installed to ensure equal frame height on both sides of the vehicle regardless of the load. The rear suspension capacity shall be rated equivalent to the axle rating.

CONTRACTOR Complies with Section 2.101: YES

2.102 Rear Shock Absorbers

Shock absorbers shall be supplied by the suspension manufacturer and installed on the rear axle suspension.

CONTRACTOR Complies with Section 2.102: YES

2.103 Front Tire / Trailer Steer Tire

The front and rear trailer steer tires shall be Continental 425 / 65R22.5 L HTR2.

CONTRACTOR Complies with Section 2.103: YES

2.104 Rear Drive Tire

The rear drive tires shall be Continental 315 / 80R225 L HSC1.

CONTRACTOR Complies with Section 2.104: NO

2.105 Rear Axle Ratio

The rear axle ratio shall be 6.14:1.

CONTRACTOR Complies with Section 2.105: YES

2.106 Tire Pressure Equalization System

There shall be a Crossfire dual tire equalization system provided on both sets of dual tires on the rear axle. The Crossfire pressure system shall equalize and monitor tire pressure through the valve which is mounted between the dual tires. This shall bolt easily to the drive axle end allowing air to flow freely from one tire to the other, maintaining equal tire pressure and load distribution. The Crossfire system shall maximize tire life, decrease rolling resistance for increased fuel mileage and improve stability braking and overall safety. The Crossfire dual tire equalization system shall be redeemed upon the vehicle manufacturer's receipt of the voucher along with the vehicle in-service weight for each axle.

CONTRACTOR Complies with Section 2.106: YES

2.107 Tire Pressure Indicator

There shall be a voucher provided with the chassis for a pop up style tire pressure indicator at the front tire valve stem. The indicator shall provide visual indication of pressure in the specific tire. The tire pressure indicators shall be redeemed upon the vehicle manufacturer's receipt of the voucher for installation by the customer.

CONTRACTOR Complies with Section 2.107: YES

2.108 Front Wheel

The front wheels shall be Alcoa hub piloted, 22.50 inch X 12.25 inch LvL One™ polished aluminum wheels. The hub piloted mounting system shall provide easy installation and shall include two-piece flange nuts. The wheels shall feature one-piece forged strength and shall include Alcoa's Dura-Bright® finish with XBR technology as an integral part of the wheel surface. Alcoa Dura-Bright® wheels keep their shine without polishing. Brake dust, grime and road debris are easily removed by simply cleaning the wheels with soap and water.

CONTRACTOR Complies with Section 2.108: YES

2.109 Rear Wheel

The rear wheels shall be Alcoa hub piloted, heavy duty, 22.50 inch X 9.00 inch LvL One™ polished aluminum wheels with Alcoa Dura-Bright® wheel treatment with XBR® technology as an integral part of the wheel. The hub piloted mounting system shall provide easy installation and shall include two-piece flange nuts.

CONTRACTOR Complies with Section 2.109: YES

2.110 Balance Wheels and Tires

All the wheels and tires, including any spare wheels and tire assemblies, shall be dynamically balanced.

CONTRACTOR Complies with Section 2.110: YES

2.111 Wheel Trim

The front wheels shall include stainless steel lug nut covers and stainless steel baby moons shipped loose with the chassis for installation by the apparatus builder. The baby moons shall have cutouts for oil seal viewing when applicable. The rear wheels shall include stainless steel lug nut covers and band mounted spring clip stainless steel high hats shipped loose with the chassis for installation by the apparatus builder. The lug nut covers, baby moons, and high hats shall be RealWheels® brand constructed of 304L grade, non-corrosive stainless steel with a mirror finish. Each wheel trim component shall meet D.O.T. certification.

CONTRACTOR Complies with Section 2.111: YES

2.112 Wheel Guards

The rear dual wheels shall include a plastic isolator approximately 0.04" installed between the inner and outer wheel hub to help prevent corrosion caused by metal to metal contact. There shall also be a plastic isolator between the axle hub and the wheels on both front and rear axles.

CONTRACTOR Complies with Section 2.112: YES

2.113 Rear Wheel Wells Tractor

The tiller tractor rear wheel well area shall be constructed of diamond tread plate overlays, forming a fender with a seamless appearance over the wheels. The fenders shall be fitted with bolt-in removable full circular inner liners in the wheel well area for ease of cleaning and maintenance. There shall be sufficient clearance provided in the wheel well to allow the use of tire chains when the apparatus is fully loaded.

2.113.1 Rear Fenderettes

Two (2) stainless steel fenderettes shall be installed at the outboard edge of the rear wheel well area, one on each side. The fenderettes shall be bolted to the apparatus body using nylon washers to space them slightly away from the body to reduce build-up of road grime. The fenderettes shall be constructed of stainless steel that has been polished to a high-quality finish.

CONTRACTOR Complies with Section 2.113: YES

2.114 Brake System

A rapid build-up air brake system shall be provided. All air reservoirs provided on the chassis shall be labeled for identification. The rear axle spring brakes shall automatically apply in any situation when the air pressure falls below 25 PSI and shall include a mechanical means for releasing the spring brakes when necessary. An audible alarm shall designate when the system air pressure is below 60 PSI. A dash mounted ABS lamp shall be provided to notify the driver of a system malfunction. The speedometer screen shall be capable of reporting all active defaults using PID/SID and FMI standards.

CONTRACTOR Complies with Section 2.114: YES

2.115 Front Brakes

The front brakes shall be Meritor EX225 Disc Plus disc brakes with 17.00 inch vented rotors.

CONTRACTOR Complies with Section 2.115: YES

2.116 Rear Brakes

The rear brakes shall be Meritor 16.50 inch X 8.63-inch S-cam drum type. The brakes shall feature a cast iron shoe.

CONTRACTOR Complies with Section 2.116: YES

2.117 Park Brake

Upon application of the push-pull valve in the cab, the rear brakes will engage via mechanical spring force. In addition to the mechanical rear brake engagement, the front service brakes will also engage via air pressure, providing additional braking capability. The air pressure to the front service brakes will be limited to 40 psi.

CONTRACTOR Complies with Section 2.117: YES

2.118 Park Brake Control

A Meritor-Wabco manual hand control push-pull style valve shall operate the parking brake. The parking brake actuation valve shall be mounted to the center of the engine tunnel with easy access for both the driver and officer positions. The park brake shall be protected as to prevent accidental release of the braking system.

CONTRACTOR Complies with Section 2.118: NO

2.119 Rear Brake Slack Adjuster

HalDEX rear brake automatic slack adjusters shall be installed on the axle.

CONTRACTOR Complies CONTRACTOR Complies with Section 2.119: YES

2.120 Air Dryer

The brake system shall include a Wabco System Saver 1200 air dryer with an integral heater with a Metri-Pack sealed connector.

CONTRACTOR Complies with Section 2.120: YES

2.121 Brake Chambers

The air brake chambers shall be as provided from the brake system manufacturer to meet stopping and holding requirements. Spring actuated chambers shall apply drive and tiller axle brakes for parking.

CONTRACTOR Complies with Section 2.121: YES

2.122 Air Compressor

The air compressor provided for the engine shall be a Wabco® SS318 single cylinder pass-through drive type compressor which shall be capable of producing 18.7 CFM at 1200 engine RPMs.

CONTRACTOR Complies with Section 2.122: YES

2.123 Air Governor

An air governor shall be provided to control the cut-in and cut-out pressures of the engine mounted air compressor. The governor shall be calibrated to meet FMVSS requirements. The air governor shall be located on the air dryer bracket on the left frame rail behind the battery box.

CONTRACTOR Complies with Section 2.123: YES

2.124 Moisture Ejectors

Manual pet-cock type drain valves shall be installed on all reservoirs of the air supply system.

CONTRACTOR Complies with Section 2.124: YES

2.125 Air Supply Lines

The air system on the chassis shall be plumbed with color coded reinforced nylon tubing air lines. Brass compression type fittings shall be used on the nylon tubing. All drop hoses shall be fiber reinforced neoprene covered hoses. All nylon air tubing on the chassis shall be covered with high temperature plastic split loom.

CONTRACTOR Complies with Section 2.125: YES

2.126 Air Inlet Connection

An air connection for the shoreline air inlet shall be supplied.

2.126.1 Air Inlet Location

The air inlet shall be installed in the left-hand side lower front step in the forward position.

2.126.2 Air Inlet/Outlet Fitting Type

The air connector supplied shall be a 0.25-inch size Tru-Flate Interchange style manual connection which is compatible with Milton 'T' style, Myers 0.25-inch Automotive style and Parker 0.25 inch 10 Series connectors.

CONTRACTOR Complies with Section 2.126: YES

2.127 Trailer Air Brake Connection Package

The trailer air brake connection shall be accomplished via tractor connection points provided at the rear of the chassis.

CONTRACTOR Complies with Section 2.127: YES

2.128 Wheelbase

The chassis wheelbase shall measure 143.00 inches.

CONTRACTOR Complies with Section 2.128: NO

2.129 Rear Overhang

The chassis rear overhang shall be 54.00 inches.

CONTRACTOR Complies with Section 2.129: YES

2.130 Frame

The frame shall consist of triple side rails and cross members forming a ladder style frame. The side rails shall be formed in the shape of a "C" channel. The frame and cross members shall carry a lifetime warranty to the original purchaser. A copy of the frame warranty shall be made available upon request. Proposals offering warranties for frames not including cross members shall not be considered.

CONTRACTOR Complies with Section 2.130: NO

2.131 Frame Warranty

The frame and cross members shall carry a limited lifetime warranty to the original purchaser. The warranty period shall commence on the date the vehicle is placed in service by the user.

CONTRACTOR Complies with Section 2.131: YES

2.132 Rear Tow Device

Two (2) heavy duty painted tow eyes shall be installed extending rearward from the frame at the rear of the chassis. The tow eyes shall be fabricated from 0.75-inch-thick #1020 ASTM-36 hot rolled steel. The inside diameter of the tow eye shall be 2.00 inches and shall have a chamfered edge. The tow eyes shall be bolted one (1) on each side to the outside of the chassis frame with grade 8 bolts. The tow eyes shall be painted to match the chassis frame.

CONTRACTOR Complies with Section 2.132: YES

2.133 Frame Paint

The frame shall be powder coated black prior to any attachment of components. All powder coatings, primers and paint shall be compatible with all metals, pretreatments and primers used. The chassis under carriage consisting of frame, axles, driveline running gear, air tanks and other chassis mounted components shall be painted the primary/lower cab color. Paint shall be applied prior to airline and electrical wiring installation.

CONTRACTOR Complies with Section 2.133: YES

2.134 Front Bumper

A one piece, two (2) rib wrap-around style, polished stainless steel front bumper shall be provided. The material shall be 10 gauge 304 stainless steel, 12" high and 104.50 inches wide.

2.134.1 Front Bumper Extension Length

The front bumper shall be extended approximately 6.00 inches ahead of the cab.

2.134.2 Front Bumper Apron

The 6.00 inch extended front bumper shall include an apron constructed of 0.19-inch-thick embossed aluminum tread plate. The apron shall be installed between the bumper and the front face of the cab affixed using stainless steel bolts attaching the apron to the top bumper flange.

2.134.3 Front Bumper Tow Eyes

The bumper shall include two (2) chrome plated tow eyes shall be installed through the front bumper. The eyes shall be fabricated from 0.75-inch-thick #1020 ASTM-A36 hot rolled steel. The inside diameter of the eye shall be 2.00 inches and include a chamfered edge.

CONTRACTOR Complies with Section 2.134: YES

2.135 Air Horn

The chassis shall include two (2) Grover brand Stutter Tone air horns. One shall measure 24" long and one shall measure 15" long with a 6.00-inch round flare. The air horns shall be trumpet style with a chrome finish.

2.135.1 Air Horn Location

The air horns shall be recess mounted in the front bumper face on the left side of the bumper in the inboard and outboard positions relative to the left-hand frame rail.

2.135.2 Air Horn Reservoir

One (1) air reservoir, with a 1200 cubic inch capacity, shall be installed on the chassis to act as a supply tank for operating air horns. The reservoir shall be isolated with a 90 PSI pressure protection valve on the reservoir supply side to prevent depletion of the air to the air brake system.

CONTRACTOR Complies with Section 2.135: YES**2.136 Cab Height Adjustment**

The cab shall include 0.75-inch-thick shims raising the cab to provide additional clearance under the cab.

CONTRACTOR Complies with Section 2.136: YES

2.137 Cab Tilt System

The entire cab shall be capable of tilting approximately 45-degrees to allow for easy maintenance of the engine and transmission. The cab tilt pump assembly shall be located on the right side of the chassis above the battery box. The electric-over-hydraulic lift system shall include an ignition interlock and red cab lock down indicator lamp on the tilt control which shall illuminate when holding the "Down" button to indicate safe road operation. It shall be necessary to activate the master battery switch and set the parking brake to tilt the cab. As a third precaution the ignition switch must be turned off to complete the cab tilt interlock safety circuit. Two (2) spring-loaded hydraulic hold down hooks located outboard of the frame shall be installed to hold the cab securely to the frame. Once the hold-down hooks are set in place, it shall take the application of pressure from the hydraulic cab tilt lift pump to release the hooks. Two (2) cab tilt cylinders shall be provided with velocity fuses in each cylinder port. The cab tilt pivots shall be 1.90-inch ball and be anchored to frame brackets with 1.25-inch diameter studs. A steel safety channel assembly, painted safety yellow shall be installed on the right-side cab lift cylinder to prevent accidental cab lowering. The safety channel assembly shall fall over the lift cylinder when the cab is in the fully tilted position. A cable release system shall also be provided to retract the safety channel assembly from the lift cylinder to allow the lowering of the cab.

CONTRACTOR Complies with Section 2.137: YES

2.138 Cab Tilt Auxiliary Pump

A manual cab tilt pump module shall be attached to the cab tilt pump housing.

CONTRACTOR Complies with Section 2.138: YES

2.139 Cab Tilt Control Receptacle

The cab tilt control cable shall include a receptacle which shall be temporarily located on the right-hand chassis rail rear of the cab to provide a place to plug in the cab tilt remote control pendant. The tilt pump shall include 8.00 feet of cable with a six (6) pin Deutsch receptacle with a cap. The remote-control pendant shall include 20.00 feet of cable with a mating Deutsch connector. The remote-control pendant shall be shipped loose with the chassis.

CONTRACTOR Complies with Section 2.139: YES

2.140 Cab Windshield

The cab windshield shall have a surface area of approximately 2969.88 square inches and be of a two (2) piece wraparound design for maximum visibility. The glass utilized for the windshield shall include standard automotive tint. The left and right windshield shall be fully interchangeable thereby minimizing stocking and replacement costs. Each windshield shall be installed using black self-locking window rubber.

CONTRACTOR Complies with Section 2.140: YES

2.141 Glass Front Door

The front cab doors shall include a window which is approximately 27.00 inches in width X 26.00 inches in height. These windows shall have the capability to roll down completely into the door housing. This shall be accomplished electronically utilizing a push button on the inside of the door. The driver side door shall have electronic controls for all electronically controlled windows in the cab. A reinforced window regulator assembly shall be provided for severe duty use. There shall be an irregular shaped fixed window which shall measure approximately 2.50 inches wide at the top, 8.00 inches wide at the bottom X 26.00 inches in height, more

commonly known as “cozy glass” ahead of the front door roll down windows. The windows shall be mounted within the frame of the front doors trimmed with a black anodized ring on the exterior.

2.141.1 Glass Tint Front Door

The windows located in the left and right front doors shall have a standard green automotive tint which shall allow seventy-five percent (75%) light transmittance.

CONTRACTOR Complies with Section 2.141: NO

2.142 Glass Rear Door Right Hand

The rear right hand side door shall include a window which is approximately 27.00 inches in width X 26.00 inches in height. This window shall roll up and down electronically utilizing a push button on the inside of the door. A reinforced window regulator assembly shall be provided for severe duty use.

2.142.1 Glass Tint Rear Door Right Hand

The window located in the right-hand side rear window shall include a dark gray automotive tint which shall allow forty-five percent (45%) light transmittance. The dark tint shall aid in cab cooling and help protect passengers from radiant solar energy.

CONTRACTOR Complies with Section 2.142: YES

2.143 Glass Rear Door Left Hand

The rear left hand side door shall include a window which is approximately 27.00 inches in width X 26.00 inches in height. This window shall roll up and down electronically utilizing a push button on the inside of the door. A reinforced window regulator assembly shall be provided for severe duty use.

2.143.1 Glass Tint Rear Door Left Hand

The window located in the left-hand side rear door shall include a dark gray automotive tint which shall allow forty-five percent (45%) light transmittance. The dark tint shall aid in cab cooling and help protect passengers from radiant solar energy.

CONTRACTOR Complies with Section 2.143: YES

2.144 Glass Side Mid Right Hand

The cab shall include a window on the right side behind the front and ahead of the crew doors which shall measure approximately 16.00 inches wide X 26.00 inches high. This window shall be capable of sliding vertically within this space and shall be rectangular. The window shall be mounted in a black anodized aluminum frame with lower drain slots. The glass utilized for the window shall include a green automotive tint unless otherwise noted.

2.144.1 Glass Tint Side Mid Right Hand

The window located on the right-hand side of the cab between the front and rear doors shall include a dark gray automotive tint which shall allow forty-five percent (45%) light transmittance. The dark tint shall aid in cab cooling and help protect passengers from radiant solar energy.

CONTRACTOR Complies with Section 2.144: YES

2.145 Glass Side Mid Left Hand

The cab shall include a window on the left side behind the front door and ahead of the crew doors and above the wheel well which shall measure approximately 16.00 inches wide X 26.00 inches high. This window shall be capable of sliding vertically within this space and shall be rectangular. The window shall be mounted in a black anodized aluminum frame with lower drain slots. The glass utilized for this window shall include a green automotive tint unless otherwise noted.

2.145.1 Glass Tint Side Mid Left Hand

The window located on the left-hand side of the cab between the front and rear doors shall include a dark gray automotive tint which shall allow forty-five percent (45%) light transmittance. The dark tint shall aid in cab cooling and help protect passengers from radiant solar energy.

CONTRACTOR Complies with Section 2.145: YES**2.146 Climate Control**

A ceiling mounted combination defroster and cabin heating and air conditioning system shall be located above the engine tunnel area. The system covers and plenums shall be of severe duty design made of aluminum which shall be coated with a customer specified interior paint. The design of the system's covers shall provide quick access to washable air intake filters as well as easy access to other serviceable items. The air delivery plenums provide targeted airflow directly to the vehicle occupants. It shall be capable of reducing the interior cabin air temperature from 122° F (+/- 3° F) to 80° F in thirty minutes with 50% relative humidity and full solar load as described in SAE J2646. The system shall also provide heater pull up performance which meets or exceeds the performance requirements of SAE J1612 as well as defrost performance that meets or exceeds the performance requirements of SAE J381. A gravity drain system shall be provided that is capable of evacuating condensate from the vehicle while on a slope of up to a 13% grade in any direction. Any component which needs to be accessed to perform system troubleshooting shall be accessible by one person using basic hand tools. Regularly serviced items shall be replaceable by one person using basic hand tools.

2.146.1 Climate Control Activation

The heating, defrosting and air conditioning controls shall be located in the cab.

2.146.2 HVAC Overhead Cover Paint

The overhead HVAC cover shall be painted with a black texture finish.

2.146.3 A/C Condenser Location

A roof mounted A/C condenser shall be installed on the left side of the cab, mid-roof.

2.146.4 A/C Compressor

The air-conditioning compressor shall be a belt driven, engine mounted compressor. The compressor shall be compatible with R134-a refrigerant.

2.146.5 Auxiliary A/C Cab Ceiling/Roof

A Bergstrom Model # BSP00029AC24 24-volt. The system shall consist of one (1) 110-volt air conditioning roof mounted unit which shall be located above the crew area and offset left of center on the cab roof above the crew area. The cover of the air conditioning unit shall be painted red (job/body color). The system shall be pre-wired with enough cable for the body builder to connect to a 110-volt power source. The air conditioning system shall be wired to a transfer switch allowing for power supplied via the following: shorepower, batteries, inverter, converters and/or generator, in order to provide uninterrupted (no idle) A/C to the cab. The condensation drain line shall be installed as to not have water run down the front or sides of the cab.

CONTRACTOR Complies with Section 2.146: YES**2.147 Under Cab Insulation**

The underside of the cab tunnel surrounding the engine shall be lined with multi-layer insulation, engineered for application inside diesel engine compartments. In addition, the insulation shall have a removable aluminum overlay installed to protect the insulation and assist in retaining the insulation tight against the engine tunnel surfaces. The insulation shall act as a noise barrier, absorbing noise thus keeping the decibel level in the cab well within NFPA recommendations.

CONTRACTOR Complies with Section 2.147: YES**2.148 Interior Trim**

The cab interior shall include trim on the front ceiling, rear crew ceiling, and the cab walls. It shall be easily removable to assist in maintenance. The trim shall be constructed of insulated vinyl over a hard board backing.

2.148.1 Interior Trim Floor

The floor of the cab shall be covered with a multi-layer mat consisting of 0.25-inch-thick sound absorbing closed cell foam with a 0.06-inch-thick non-slip vinyl surface with a pebble grain finish. The covering shall be held in place by a pressure sensitive adhesive and aluminum trim molding. All

exposed seams shall be sealed with silicone caulk matching the color of the floor mat to reduce the chance of moisture and debris retention. The floor shall have an overlay of 3003-H22 aluminum embossed tread plate. The tread plate shall be held down with screws and aluminum trim molding.

2.148.2 **Interior Trim Rear Wall**

The rear wall of the cab shall be trimmed with vinyl.

2.148.3 **Header Trim**

The cab interior shall feature header trim over the driver and officer dash constructed of 5052-H32 Marine Grade, 0.13-inch-thick aluminum.

2.148.4 **Center Dash Trim**

The main center dash area shall be constructed of 5052-H32 Marine Grade, 0.13-inch-thick aluminum plate. There shall be four (4) holes located on the top of the dash near each outer edge of the electrical access cover for ventilation.

2.148.5 **Trim Left Hand Dash**

The left-hand dash shall be constructed of 5052-H32 Marine Grade, 0.13-inch-thick aluminum plate for a perfect fit around the instrument panel. For increased occupant protection, the extreme duty left hand dash utilizes patent pending break away technology to reduce rigidity in the event of a frontal crash. The left-hand dash shall offer lower vertical surface area to the left and right of the steering column to accommodate control panels.

2.148.6 **Trim Right Hand Dash**

The left-hand dash shall be constructed of 5052-H32 Marine Grade, 0.13-inch-thick aluminum plate for a perfect fit around the instrument panel. For increased occupant protection, the extreme duty left hand dash utilizes patent pending break away technology to reduce rigidity in the event of a frontal crash. The left-hand dash shall offer lower vertical surface area to the left and right of the steering column to accommodate control panels.

CONTRACTOR Complies with Section 2.148: NO

2.149 **Engine Tunnel Trim**

The cab engine tunnel shall be covered with a multi-layer mat consisting of 0.25-inch closed cell foam with a 0.06-inch-thick non-slip vinyl surface with a pebble grain finish. The mat shall be held in place by pressure sensitive adhesive. The engine tunnel mat shall be trimmed with anodized aluminum stair nosing trim for an aesthetically pleasing appearance. The multi-layer mat on the lower side area of the engine tunnel at the driver and officer positions shall be provided with a brushed stainless steel kick plate. The top of each kick plate shall be even with the top of the seat risers. In addition, the multi-layer mat on the rear sloped face of the tunnel shall be covered with a brushed stainless steel overlay.

CONTRACTOR Complies with Section 2.149: NO

2.150 **Power Point Dash Mount**

The cab shall include two (2) 12-volt cigarette lighter type receptacles and two (2) USB charging receptacles in the dash to provide a power source for 12-volt electrical equipment. The receptacles shall be wired battery direct.

CONTRACTOR Complies with Section 2.150: YES

2.151 **Auxiliary Power Point Engine Tunnel**

The cab interior shall include two (2) 12-volt cigarette lighter type receptacles and two (2) USB charging receptacles to provide power sources for 12-volt electrical equipment. The receptacles shall be connected directly to the batteries. The receptacles shall be located on the rear of the engine tunnel near the top, one (1) near the left corner and one (1) near the right corner.

CONTRACTOR Complies with Section 2.151: YES

2.152 **Step Trim**

Each cab entry door shall include a three-step entry. The first step closest to the ground shall be constructed of 14 gauge 304 stainless steel with indented perforations. The perforations shall allow water and other debris to flow

through rather than becoming trapped within the stepping surface. The stainless-steel material shall have a number 7 mirror finish. The lower step shall be mounted to a frame which is integral with the construction of the cab for rigidity and strength. The middle step shall be integral with the cab construction and shall be trimmed in 0.08-inch-thick 3003-H22 embossed aluminum tread plate.

CONTRACTOR Complies with Section 2.152: NO

2.153 Step Well Compartment

Provide a watertight removable storage compartment in the officer step well. The compartment shall be as large as possible, minimum dimensions 25" wide x 12" deep x 14" high. The dropdown door shall have a positive action, stainless steel recessed large D handle twist type single point cam latch, easily operable with a gloved hand. The horizontally hinged door shall be provided with a full length, heavy duty, stainless steel, piano type hinge and stainless steel pin. The hinge shall have a positive action. Pin shall be secured to prevent creeping.

CONTRACTOR Complies with Section 2.153: YES

2.154 Kick Panel Compartment

Provide a bottom hinged storage box in the officer kick panel, below the dash panel. The box shall be as large as possible and have large, stainless steel locking D ring handle or paddle latch with single point lock. The lock shall be 1250.

CONTRACTOR Complies with Section 2.154: YES

2.155 Step Trim Kickplate

The cab steps shall include a kick plate in the rise of each step. The risers shall be trimmed in 3003-H22 bright aluminum tread-plate which is 0.07 inch thick.

CONTRACTOR Complies with Section 2.155: YES

2.156 Interior Door Trim

The interior doors of the cab shall include two (2) piece stainless steel trim panels. The panel material shall consist of AISI 304, 13-gauge stainless steel. The panels shall feature a brushed finish. The 2-piece configuration shall allow for ease of access to interior door hardware and wiring. The interior door panels and all sheet metal attachments shall be fastened to door with lock coated screws. The panels shall provide for easy access to the interior of the door for servicing.

CONTRACTOR Complies with Section 2.156: YES

2.157 Cab Door Trim Reflective

The interior of each door shall include high visibility reflective tape. A white reflective tape shall be provided vertically along the outer rear edge of each cab. The lowest portion of each cab door skin shall include a reflective tape chevron with red and yellow stripes. The chevron tape shall measure 12.00 inches in height. The chevron tape shall match throughout the entire apparatus.

CONTRACTOR Complies with Section 2.157: YES

2.158 Interior Grab Handle "A" Pillar

There shall be two (2) rubber covered 11.00-inch grab handles installed inside the cab, one on each "A" post at the left and right door openings.

CONTRACTOR Complies with Section 2.158: YES

2.159 Foot Rest

The Officer position shall have a fold up tread plate foot rest mounted on the forward bulkhead wall.

CONTRACTOR Complies with Section 2.159: YES

2.160 Interior Grab Handle Front Door

Each front door shall include one (1) ergonomically contoured 9.00-inch cast aluminum handle mounted diagonally on the interior door panels. The handles shall feature a textured black powder coat finish to assist personnel entering and exiting the cab.

CONTRACTOR Complies with Section 2.160: YES

2.161 Interior Grab Handle Rear Door

Each rear door shall include one (1) ergonomically contoured 9.00-inch cast aluminum handle mounted diagonally on the interior door panels and one (1) horizontally mounted 9.00 inch cast aluminum handle. The handles shall feature a textured black powder coat finish to assist personnel entering and exiting the cab. Exact mounting locations to be determined at pre-con.

CONTRACTOR Complies with Section 2.161: YES

2.162 Interior Rear Wall Compartment

An enclosed cab area storage compartment shall be installed on the rear wall between the rear wall forward facing flip down seats. The frame shall measure approximately 36 inches wide X 55 inches high X 22.00 inches deep (exact measurements to be determined at pre-con). The frame shall be constructed of Marine Grade 5052-H32 0.19 inch thick aluminum plate. The box shall be painted with the same color as the remaining interior. The compartment will provide full front access via a roll up door and side access to the lower approximately 20" of the compartment on both sides via roll up doors. The compartment design will include Unistrut vertically mounted to accommodate the installation of shelves trays and other miscellaneous equipment. The compartment will be ducted to the HVAC system for cooling of sensitive equipment.

The compartment shall include a 12 volt / 120 VAC shorepower outlet wired to a transfer switch allowing for power supplied via shorepower and generator.

2.162.1 EMS/Charging/Storage Roll-up Compartment Front Access

There shall be one (1) access points to the charging storage area. The access point shall be covered by a roll-up door which measures approximately 34.00 inches in width X 53.00 inches in height.

EMS/Charging/Storage Roll-up Compartment Side Access

There shall be two (2) access points to the EMS storage area, one (1) on each side of the frame. Each access point shall be covered by a roll-up door or net enclosure which measures approximately 20.00 inches in width X 20.00 inches in height when open.

2.162.2 EMS/Charging/Storage Roll-up Compartment Shelving

Three (3) adjustable extruded aluminum shelves will be provided for the compartment.

CONTRACTOR Complies with Section 2.162: YES

2.163 Interior Rear Wall Compartment Interior Finish

The interior of the interior rear wall compartment shall have a DA sanded finish.

CONTRACTOR Complies with Section 2.163: YES

2.164 Interior Rear Wall Compartment Lighting

There shall be a minimum two (2) Sound Off Signal brand LED strip light installed to illuminate the interior compartment at the rear wall inside the crew area of the cab. The strip light shall provide efficient lighting to illuminate the entire compartment. The light shall be activated when the compartment doors are opened.

CONTRACTOR Complies with Section 2.164: YES

2.165 Interior Soft Trim Color

The cab interior soft trim surfaces shall be black in color.

CONTRACTOR Complies with Section 2.165: YES

2.166 Interior Trim Sun Visor

The header shall include two (2) sun visors, one each side forward of the driver and officer seating positions above the windshield. Each sun visor shall be constructed of Masonite and covered with padded vinyl trim.

CONTRACTOR Complies with Section 2.166: YES

2.167 Cab Paint Interior Door Trim

The inner door panel surfaces shall be painted with a black texture finish.

CONTRACTOR Complies with Section 2.167: YES

2.168 Header Trim Interior Paint

The metal surfaces in the header area shall be coated with a black texture finish.

CONTRACTOR Complies with Section 2.168: YES

2.169 Trim Center Dash Interior Paint

The entire center dash shall be coated with a black texture finish. Any accessory pods attached to the dash shall also be painted this color.

CONTRACTOR Complies with Section 2.169: YES

2.170 Trim Left Hand and Right Hand Dash Interior Paint

The left-hand and right-hand dash shall be painted with a black texture finish.

CONTRACTOR Complies with Section 2.170: YES

2.171 Switches Overhead Panel

The center dash panel shall include six (6) rocker switch positions in a single row configuration above the driver in the overhead panel. A rocker switch with a blank legend installed directly above shall be provided for any position without a switch and legend designated by a specific option. The non-specified switches shall be two-position, black switches with a green indicator light. Each blank switch legend can be custom engraved by the body manufacturer. All switch legends shall have backlighting provided.

CONTRACTOR Complies with Section 2.171: NO

2.172 Switches Dash Panel

The dash panel shall include five (5) switches in a three (3) over two (2) staggered switch configuration. Two (2) rocker switches, one (1) headlight switch, one (1) windshield wiper/washer control switch and one (1) instrument lamp dimmer switch shall be provided. A rocker switch with a blank legend installed directly above shall be provided for any position not designated by a specific option. The non-designated switches shall be two-position, black switches with a green indicator light. Each blank switch legend can be custom engraved by the body manufacturer. All switch legends shall have backlighting provided.

CONTRACTOR Complies with Section 2.172: NO

2.173 Seating

2.173.1 Seat Belt Warning

A Weldon seat belt warning system, integrated with the Vehicle Data Recorder system, shall be installed for each seat within the cab. The system shall provide a visual warning indicator in the Vista display and control screen(s), an indicator light in the instrument panel, an indicator light in the switch panel, and an audible alarm. The warning system shall activate when any seat is occupied with a minimum of 60 pounds, the corresponding seat belt remains unfastened, and the park brake is released. The warning system shall also activate when any seat is occupied, the corresponding seat belt was fastened in an incorrect sequence, and the park brake is released. Once activated, the visual indicators and audible alarm shall remain active until all occupied seats have the seat belts fastened.

2.173.2 Seat Color

All seats supplied with the chassis shall be black in color. All seats shall include red seat belts

2.173.3 **Seat Driver**

The driver's seat shall be an USSC Valor G2A - R-Style back, ABTS seat with dual retractor 3-point seat belts. The seat shall include "Ready Reach" seatbelt extension. The seat shall feature an all belts to seat (ABTS) style of safety restraint. The ABTS feature shall include a three-point shoulder harness with the lap belt, automatic retractor and buckle as an integral part of the seat assembly. The minimum vertical dimension from the seat H-point to the ceiling for this belted seating position shall be 35.00 inches measured with the seat height adjusted to the lowest position of travel. This model of seat shall have successfully completed the static load tests set forth by FMVSS 207, 209, and 210 in effect at the time of manufacture. This testing shall include a simultaneous forward load of 3000 pounds each on the lap and shoulder belts and twenty (20) times the weight through the center of gravity. The materials used in construction of the seat shall also have successfully completed testing with regard to the flammability of materials used in the occupant compartments of motor vehicles as outlined in FMVSS 302, of which dictates the allowable burning rate of materials in the occupant compartments of motor vehicles.

2.173.3.1 **Seat Back Driver**

The driver's seat shall include an R-style seat back incorporating the all belts to seat feature (ABTS). The seat back shall feature a contoured head rest. The seat shall include "Ready Reach" seatbelt extension.

2.173.4 **Seat Mounting Driver**

The driver's seat shall be installed in an ergonomic position in relation to the cab dash.

2.173.5 **Seat Officer**

The officer's seat shall be an USSC Valor G2A - Dynamic back with a 95-degree back pitch, ABTS seat with dual retractor 3-point seat belts. The seat shall include "Ready Reach" seatbelt extension. The seat shall feature an all belts to seat (ABTS) style of safety restraint. The ABTS feature shall include a three-point shoulder harness with the lap belt, automatic retractor and buckle as an integral part of the seat assembly. The minimum vertical dimension from the seat H-point to the ceiling for this belted seating position shall be 35.00 inches measured with the seat height adjusted to the lowest position of travel. This model of seat shall have successfully completed the static load tests by FMVSS 207, 209, 210 and 302 in effect at the time of manufacture. This testing shall include a simultaneous forward load of 3000 pounds each on the lap and shoulder belts and twenty (20) times the weight through the center of gravity. The model of seats shall also have successfully completed the flammability of materials used in the occupant compartments of motor vehicles as outlined in FMVSS 302, of which decides the burning rate of materials in the occupant compartments of motor vehicles.

2.173.5.1 **Seat Back Officer**

The officer's seat back shall be a dynamic back with a 95-degree pitch and include an IMMI brand SmartDock® Gen 2 hands-free self-contained breathing apparatus (SCBA) holder.

- a. The hands-free holder shall meet NFPA 1901-03 9G dynamic requirements for cylinder restraint systems for use in crew compartments of emergency response vehicles.
- b. The bracket shall accommodate and secure most types of self-contained breathing apparatus cylinders.
- c. The hands-free holder shall consist of a back plate, bottom cradle, non-marring top claws, and claw height adjustment knob.
- d. The height adjustment knob shall allow for easy adjustment of the claws to the SCBA.
- e. The hands-free holder's claws shall lock from inertial forces to prevent the SCBA from becoming a projectile in the event of a crash to meet the NFPA 1901-03 standard for SCBA retention.
- f. The SCBA holder shall offer single-motion insertion into the claws and hands-free release when the SCBA fitted seat occupant rises.

- g. The seat back shall include a removable padded cover which shall be provided over the SCBA cavity.
- h. The seat shall include "Ready Reach" seatbelt extension

2.173.6 Seat Mounting Officer

The officer's seat shall be installed in an ergonomic position in relation to the cab dash.

2.173.7 Power Seat Wiring

The power seat or seats installed in the cab shall be wired directly to battery power.

2.173.8 Seat Belt Orientation Crew

The crew position seat belts shall follow the standard orientation which extends from the outboard shoulder extending to the inboard hip.

2.173.9 Seat Rear Facing Outer Location

The crew area shall include (2) seats in the REAR facing position which shall be USSC Valor seats dynamic back with a 95-degree back pitch. The seat shall feature a tapered and padded seat, and 20" cushion. The seat and cushion shall be "Flip and Hold" and compact in design for additional room and shall remain in the stored position until occupied. The seat shall feature an all belts to seat (ABTS) style of safety restraint. The ABTS feature shall include a three-point shoulder harness with the lap belt and automatic retractor as an integral part of the seat assembly. The buckle portion of the seat belt shall extend from the seat base towards the driver position within easy reach of the occupant. The seats shall include "Ready Reach" seatbelt extensions. The minimum vertical dimension from the seat H-point to the ceiling for each belted seating position shall be 35.00 inches.

This type of seat shall have successfully completed the static load tests by FMVSS 207/210. This testing shall include a simultaneous forward load of 3000 pounds each on the lap and shoulder belts and twenty (20) times the weight through the center of gravity. This model of seat installed in the cab model, as specified, shall have successfully completed the dynamic sled testing using FMVSS 208 as a guide with the following accommodations. In order to reflect the larger size outfitted firefighters, the test dummy used shall be a 95th percentile hybrid III male weighing 225 pounds rather than the 50th percentile male dummy weighing 165 pounds as referenced in FMVSS 208. The model of seats shall also have successfully completed the flammability of materials used in the occupant compartments of motor vehicles as outlined in FMVSS 302, of which decides the burning rate of materials in the occupant compartments of motor vehicles.

2.173.10 Seat Back Rear Facing Outer

The crew area seat backs shall be dynamic back with a 95-degree pitch and include an IMMI brand SmartDock® Gen 2 hands-free self-contained breathing apparatus (SCBA) holder.

- a. The hands-free holder shall meet NFPA 1901-03 9G dynamic requirements for cylinder restraint systems for use in crew compartments of emergency response vehicles.
- b. The bracket shall accommodate and secure most types of self-contained breathing apparatus cylinders.
- c. The hands-free holder shall consist of a back plate, bottom cradle, non-marring top claws, and claw height adjustment knob.
- d. The height adjustment knob shall allow for easy adjustment of the claws to the SCBA.
- e. The hands-free holder's claws shall lock from inertial forces to prevent the SCBA from becoming a projectile in the event of a crash to meet the NFPA 1901-03 standard for SCBA retention.
- f. The SCBA holder shall offer single-motion insertion into the claws and hands-free release when the SCBA fitted seat occupant rises.
- g. The seat back shall include a removable padded cover which shall be provided over the SCBA cavity. The seats shall include "Ready Reach" seatbelt extensions.

2.173.11 Seat Forward Facing Outer Location

The crew area shall include two (2) forward facing outboard seats, which include one (1) located next to the outer wall of the cab on the left side of the cab and one (1) located next to the outer wall on the right side of the cab. The seat shall be manufactured by Valor seats and incorporate a back pad mounted to the rear wall of the cab. Seats shall have 3-point dual retractor seat belts.

CONTRACTOR Complies with Section 2.173: YES

2.174 Cab Front Under Seat Storage Access

The left and right under seat storage areas shall have a vented aluminum hinged door with locking latch.

CONTRACTOR Complies with Section 2.174: YES

2.175 Seat Compartment Door Finish

All under seat storage compartment access doors shall have a black texture finish.

CONTRACTOR Complies with Section 2.175: YES

2.176 Windshield Wiper System

The cab shall include a dual arm wiper system which shall clear the windshield of water, ice and debris. There shall be two (2) windshield wipers which shall be affixed to a radial wet arm. The system shall include a single motor which shall initiate the arm in which both the left hand and right hand windshield wipers are attached, initiating a back and forth motion for each wiper. The wiper motor shall be activated by an intermittent wiper control located within easy reach of the driver's position. All windshield wipers shall turn off when the parking brakes are set.

CONTRACTOR Complies with Section 2.176: NO

2.177 Electronic Windshield Fluid Level Indicator

The windshield washer fluid level shall be monitored electronically. When the washer fluid level becomes low the yellow "Check Message Center" indicator light on the instrument panel shall illuminate and the message center in the dual air pressure gauge shall display a "Check Washer Fluid Level" message.

CONTRACTOR Complies with Section 2.177: NO

2.178 Cab Door Hardware

The cab entry doors shall be equipped with exterior pull handles, suitable for use while wearing firefighter gloves. The handles shall be made of aluminum with chrome plated finish and be in the vertical position. The interior exit door handles shall be flush paddle type with a black finish, which are incorporated into the upper door panel. All cab entry doors shall include locks which are keyed alike. The door locks shall be designed to prevent accidental lockout. The exterior pull handles shall include a scuff plate behind the handle constructed of polished stainless steel to help protect the cab finish.

CONTRACTOR Complies with Section 2.178: YES

2.179 Door Locks

Each cab entry door shall include a manually operated door lock. Each door lock may be actuated from the inside of the cab by means of a red knob located on the paddle handle of the respective door or by using a TriMark key from the exterior. The door locks are designed to prevent accidental lock out.

CONTRACTOR Complies with Section 2.179: YES

2.180 Grab Handles

The cab shall include one (1) 18.00 inch 3-peice knurled, aluminum LED lit anti-slip assist handle with red reflective stipe at each cab access door. Handle shall be 1.25-inch diameter to enable non-slip assistance with a gloved hand. Light activation will be with the ground light circuit.

CONTRACTOR Complies with Section 2.180: YES

2.181 Auxiliary Grab Handles

There shall be an 18.00 inch 3-peice knurled, aluminum, anti-slip assist handle attached to the front fascia of the cab in the center below the windshield. The handle installation shall include steel reinforcement behind the front cab fascia.

CONTRACTOR Complies with Section 2.181: YES**2.182 Rearview Mirrors**

Ramco model 6015-FFHR-750R bus style mirrors shall be provided. The mirror heads shall be polished cast aluminum and shall measure 9.75 inches wide X 13.00 inches high with an additional top mount convex assembly. The mirrors shall be mounted one (1) on each front cab corner radius below the windshield with 15.00-inch-long polished cast aluminum arms. The mirrors shall feature a remote controlled heated full flat glass and a top mounted remote controlled convex glass. The mirror control switches shall be located within easy reach of the driver. The mirrors shall be manufactured using the finest quality non-glare glass and shall feature a rigid mounting thereby reducing vibration. The mirrors shall be corrosion free under all weather conditions.

2.182.1 Rearview Mirror Heat Switch

The heat for the rearview mirrors shall be controlled through a rocker switch on the dash in the switch panel.

CONTRACTOR Complies with Section 2.182: YES**2.183 Exterior Trim Rear Corner**

There shall be mirror finish stainless steel scuff plates on the outside corners at the back of the cab. The stainless-steel plate shall be affixed to the cab using two-sided adhesive tape.

CONTRACTOR Complies with Section 2.183: YES**2.184 Trim Roof**

This paragraph was deleted in its entirety via Addendum # 1 of the RFP.

2.185 Cab Fender

Full width wheel well liners shall be installed on the extruded cab to limit road splash and enable easier cleaning. Each two-piece liner shall consist of an inner liner 16.00 inches wide made of vacuum formed ABS composite and an outer fenderette 3.50 inches wide made of 14 gauge 304 polished stainless steel.

CONTRACTOR Complies with Section 2.185: NO**2.186 Ignition**

A master battery system with a keyless start ignition system shall be provided. Each system shall be controlled by a one-quarter turn Cole Hersee switch, both of which shall be mounted to the left of the steering wheel on the dash. A chrome push type starter button shall be provided adjacent to the master battery and ignition switches. Each switch shall illuminate a green LED indicator light on the dash when the respective switch is placed in the "ON" position. The starter button shall only operate when both the master battery and ignition switches are in the "ON" position.

CONTRACTOR Complies with Section 2.186: YES**2.187 Instrument Panel**

- 2.187.1 The fully hinged metal instrument panel shall be non-glare black. The panel shall be provided with a stainless-steel piano type hinge and quick release attachments for maintenance.
- 2.187.2 All instruments or gauges requiring pressure or vacuum lines shall have flexible connector hoses with enough slack to allow the panel to be hinged for maintenance.
- 2.187.3 Ends of flexible hoses leaving instruments shall be fastened to securely mounted connector fittings or bars.
- 2.187.4 Panel wiring shall be connected to a terminal strip.
- 2.187.5 Instrument panel, including gauge descriptions, shall be submitted to Riverside County Fire for approval prior to the start of manufacture.
- 2.187.6 The panel shall contain the following in addition to any instruments and indicators reflected herein:
 - a. Speedometer (Direct Data Bus)
 - b. Tachometer (Direct Data Bus)
 - c. Ammeter with yellow LED discharge indicator light.

- d. Voltmeter with yellow LED low voltage indicator light. (Direct Data Bus)
 - e. Engine temperature gauge with high temperature buzzer and red LED indicator light and low coolant level indicator light. (Direct Data Bus)
 - f. Oil Pressure gauge with low pressure buzzer and red LED indicator light. (Direct Data Bus)
 - g. Air cleaner restriction gauge with indicator light.
 - h. Fuel gauge with yellow LED low fuel indicator light.
 - i. Fuel filter restriction light (yellow).
 - j. Transmission temperature gauge (measuring converter outlet temperature) and high temperature buzzer and red LED indicator light. (Direct Data Bus)
 - k. Primary and secondary air reservoir pressure gauges with low air pressure buzzer and red LED indicator lights. (Direct Data Bus)
 - l. Air application gauge (each axle).
 - m. Parking brake "ON" light.
 - n. Cab not latched indicator light.
 - o. DPF regeneration indicator light.
 - p. DEF fluid level gauge.
- 2.187.7 All instruments shall have SAE J1939 direct data bus interface. The instruments shall have black bezels, multi-color graphics, 270-degree pointer sweep, red LED backlighting, tip to hub illuminated pointers, return to zero feature and integral LED warning lights. Use of apparatus manufacturer's face plate is unacceptable.
- 2.187.8 All data bus instrument options, i.e., programming warning light colors and activation points, dial graphics and fonts, etc., shall be approved by the County at pre-construction meeting.
- 2.187.9 The engine and transmission temperature gauge graphics shall display the temperature in 10 degree increments.
- 2.187.10 The instruments shall have English graphics and displays only. Metric graphics or displays are unacceptable.
- 2.187.11 All warning lights shall either be integral in the gauge or adjacent to its corresponding gauge.
- 2.187.12 Provide separate, standard layout diagnostic/warning light bar with seven (7) digit odometer. Odometer to read with battery on, ignition off.
- 2.187.13 Separate sending units shall be provided for the instrument panel fuel gauge. Float-type sending units with moving parts unacceptable.
- 2.187.14 Low air buzzer shall sound different than low oil pressure and high temperature buzzers. Custom buzzer options and events to be approved by Riverside County Fire at pre-con.
- 2.187.15 All panel mounted data bus instruments, warning lights and buzzers shall be activated by a pushbutton test switch mounted convenient to the vehicle operator.
- 2.187.16 Provide a matching speedometer in the officer position overhead with direct data bus input.
- 2.187.17 Provide an audible and visual warning system to alert both the driver and tiller operator when the tractor and trailer approaches the maximum allowable "jackknife" angle.

CONTRACTOR Complies with Section 2.187: NO

2.188 Audible Alarms

Air Filter Restriction; Cab Tilt Lock; Check Engine; Check Transmission; Open Door/Compartment; High Coolant Temperature; High or Low System Voltage; High Transmission Temperature; Low Air Pressure; Low Coolant Level; Low DEF Level; Low Engine Oil Pressure; Low Fuel; Seatbelt Indicator; Stop Engine; Water in Fuel

Extended Left/Right Turn Signal On; ABS System Fault.

CONTRACTOR Complies with Section 2.188: YES

2.189 Backlighting Color

The instrumentation gauges and the switch panel legends shall be backlit using red LED backlighting. There shall be a brightness adjustment located in the instrument panel.

CONTRACTOR Complies with Section 2.189: NO**2.190 Auxiliary Speedometer**

Auxiliary speedometer shall be integrated into the Vista digital display.

CONTRACTOR Complies with Section 2.190: YES

2.191 Air Pressure Gauge Auxiliary Air Tank

The dash panel shall include an additional air pressure gauge for the auxiliary air tank.

CONTRACTOR Complies with Section 2.191: YES

2.192 Cab Exterior Protection

The cab face shall have a removable plastic film installed over the painted surfaces to protect the paint finish during transport to the body manufacturer.

CONTRACTOR Complies with Section 2.192: YES

2.193 Fire Extinguisher

A 2.50-pound D.O.T approved fire extinguisher with BC rating shall be shipped loose with the cab.

CONTRACTOR Complies with Section 2.193: YES

2.194 Door Keys

The cab and chassis shall include a total of four (4) door keys for the manual door locks.

CONTRACTOR Complies with Section 2.194: YES

2.195 Warranty

The chassis manufacturer shall provide a limited parts and labor warranty to the original purchaser of the custom-built cab and chassis for a period of twenty-four (24) months, or the first 36,000 miles, whichever occurs first. The warranty period shall commence on the date the vehicle user places it into service.

CONTRACTOR Complies with Section 2.195: YES

2.196 Chassis Operation Manual

There shall be one (1) Hard copy and two (2) digital copies of the chassis operation manual provided with the chassis. The digital data shall include a parts list specific to the chassis model. The digital copies shall be provided on thumb drives.

CONTRACTOR Complies with Section 2.196: YES

2.197 Engine and Transmission Operation Manuals

The following manuals specific to the engine and transmission models ordered will be included with the chassis in the ship loose items:

- a. (2) Hard copies of the Engine Operation and Maintenance manual with CD
- b. (2) Digital copies of the Transmission Operator's manual (thumb drives)
- c. (2) Digital copies of the Engine Owner's manual (thumb drives)

CONTRACTOR Complies with Section 2.197: YES

2.198 Engine Service Manuals

There shall be two (2) printed hard copy sets of Cummins ISX 15 engine service reference manuals which shall be provided with the chassis.

CONTRACTOR Complies with Section 2.198: YES

2.199 Transmission Service Manuals

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There shall be one (1) printed hard copy set of Allison 4000 transmission service manuals included with the chassis.

CONTRACTOR Complies with Section 2.199: YES

2.200 Cab/Chassis As-Built Wiring Diagrams

The cab and chassis shall include two (2) digital copies of wiring schematics and option wiring diagrams.

CONTRACTOR Complies with Section 2.200: YES

2.201 Driveline Layout Confirmation

During the design phase of the chassis the vendor driveline engineer shall submit the driveline layout to an OEM engineer to review the chassis design for any potential problems integrating the OEM body to the chassis. The OEM engineer shall provide approval to the driveline engineer prior to driveline bills of materials being released.

CONTRACTOR Complies with Section 2.201: YES

2.202 Overall Height

The overall height of the vehicle shall not exceed 147" (12' 3") from the ground. This measurement shall be taken with the tires properly inflated with the apparatus in the unloaded condition. The actual measurement shall be taken that highest point of the apparatus.

CONTRACTOR Complies with Section 2.202: YES

2.203 Overall Length

The overall length of the vehicle shall be approximately 672" (56').

CONTRACTOR Complies with Section 2.203: NO

2.204 Chassis Wheel Base

The chassis wheel base shall be approximately 143" (11' 11"). The measurement shall be taken from the center of the tractor front axle to the center of the tractor drive axle.

CONTRACTOR Complies with Section 2.204: NO

2.205 Tiller Wheel Base

The tiller wheel base shall be approximately 345" (28' 9"). This measurement shall be taken from the center of the tractor drive axle to the center of the tiller axle.

CONTRACTOR Complies with Section 2.205: YES

2.206 Angle of Approach

The angle of approach shall be approximately 15 degrees.

CONTRACTOR Complies with Section 2.206: NO

2.207 Angle of Departure

The angle of departure shall be approximately 14 degrees.

CONTRACTOR Complies with Section 2.207: NO

2.208 Miscellaneous Equipment Allowance (Section referenced in Question # 6)

This paragraph was deleted in its entirety via Addendum # 1 of the RFP

2.209 Hose Storage Compartment C1, Tiller Tractor

There shall be a hose storage compartment located behind the chassis cab on the tiller tractor. This compartment shall be designated as C1. The compartment shall have three fixed sides constructed of treadbrite material. In addition, the compartment shall have a lid that covers the top and front of the compartment. The compartment shall be able to hold 130' of 3" hose with 2 ½" couplings.

CONTRACTOR Complies with Section 2.209: YES**2.210 Compartment****2.210.1 CL-1**

There shall be a compartment located behind the chassis cab on the left side of the tiller tractor. This compartment shall be designated as CL1 within these specifications and any ensuing paperwork or drawings after contract execution. It shall be equipped with a single, horizontally hinged lift up, treadbrite door. Door Opening shall be a minimum of 18" Wide x 24" High. The compartment shall have a minimum usable depth of 26".

2.210.2 CL-2

A compartment shall be located behind the chassis cab on the left side of the tiller tractor. This compartment shall be designated as CL2 within these specifications and any ensuing paperwork or drawings after contract execution. It shall be equipped with a single, vertically hinged swing out door. Door Opening - 26" Wide x 30" High. The compartment shall have a usable depth of 24". There shall be one (1) Streamlight Model Fire Vulcan LED, with 12-volt vehicle charger, mounted inside the compartment. The light shall be orange in color. There shall be one (1) Zico Walkaway SCBA bracket mounted inside the compartment.

2.210.3 CL-3

A compartment shall be located behind the chassis cab on the left side of the tiller tractor . This compartment shall be designated as CL3. It shall be equipped with a single, vertically hinged swing out door. Door Opening -19" Wide x 13" High. The compartment shall have a usable depth of 12"

2.210.4 CR-1

There shall be a compartment located behind the chassis cab on the right side of the tiller tractor. This compartment shall be designated as CR1. It shall be equipped with a single, horizontally hinged lift up, treadbrite door. Door Opening shall be a minimum of 16" Wide x 23" High. The compartment shall have a minimum usable depth of 26".

2.210.5 CR-2

A compartment shall be located behind the chassis cab on the right side of the tiller tractor. This compartment shall be designated as CR2. It shall be equipped with a single, vertically hinged swing out door. Door Opening shall be a minimum of 26" Wide x 30" High. The compartment shall have a minimum usable depth of 24". There shall be one (1) Streamlight Model Fire Vulcan LED, with 12-volt vehicle charger, mounted inside the compartment. The light shall be orange in color. There shall be one (1) Zico Walkaway SCBA bracket mounted inside the compartment.

2.210.6 CR-3

A compartment shall be located behind the chassis cab on the right side of the tiller tractor. This compartment shall be designated as CR3. It shall be equipped with a single, vertically hinged swing out door. Door Opening minimum of 19" Wide x 13" High. The compartment shall have a minimum usable depth of 12".

CONTRACTOR Complies with Section 2.210: YES**2.211 Steps, Turntable Access, Tiller, Left**

For access to the turntable from the left side of the apparatus, one set of steps shall be furnished behind the tiller tractor cab. The left side tiller tractor compartments shall be an integral part of the turntable access steps. The steps shall be constructed of aluminum grip-strut. The steps shall have a maximum stepping height which shall not exceed 18" with the exception of the ground to the first step which shall not exceed NFPA standard of 24". Steps shall be illuminated for night time operation. The lights shall be activated by the parking brake. To aid in ascending and descending the access steps, handrails shall be provided in appropriate locations.

CONTRACTOR Complies with Section 2.211: YES**2.212 Steps, Turntable Access, Tiller, Right**

For access to the turntable from the right side of the apparatus, one set of steps shall be furnished behind the tiller tractor cab. The right-side tiller tractor compartments shall be an integral part of the turntable access steps. The steps shall be constructed of aluminum grip-strut. The steps shall have a maximum stepping height which shall not exceed 18" with the exception of the ground to the first step which shall not exceed NFPA standard of 24". Steps shall be illuminated for night time operation. The lights shall be activated by the parking brake. To aid in ascending and descending the access steps, handrails shall be provided in appropriate locations.

CONTRACTOR Complies with Section 2.212: YES

2.213 Hand Lanterns

There shall be two (2) Streamlight Model Fire Vulcan LED, with 12 volt vehicle chargers, mounted inside the cab. The lights shall be orange in color.

CONTRACTOR Complies with Section 2.213: YES

2.214 Cab Lift Hooks

The cab shall have two (2) removable swiveling hoist rings that allow the cab to be lifted with a mechanical hoist for service operations. These lifting points will be rated sufficiently to lift the weight of the cab and all of the contents and hold in place indefinitely. The swiveling hoist rings shall be easily removable and attached by service personnel. Cab lifting points shall integral to the cabs structure and allow the mounting of an appropriately weight rated commercially available swiveling hoist ring. Hoist ring locations shall be in the upper corner areas of the rear cab walls, both right and left sides. The exterior of the cab wall in the areas of the swiveling hoist rings shall be protected by a stainless-steel plate sized appropriately to provide protection from paint damage while lifting system is in use. The hoist ring bolt hole shall be closed by a stainless steel allen pan bolt that is threaded into a grade 8 nut that is built into the cab structure. These bolts shall be sealed to prevent any water intrusion into the cab. Access to the hoist ring mount in the interior of the cab shall be designed in. Interior access shall be covered, but easily accessible. A minimum of two swiveling hoist rings shall be provided loose with the apparatus.

CONTRACTOR Complies with Section 2.214: YES

2.215 Auxiliary Air Compressor

A Kussmaul Auto Pump 120V air compressor shall be supplied. The air compressor shall be temporarily installed behind the officer's seat with 4.00-foot additional hose length. The air compressor shall be plumbed to the air brake system to maintain air pressure.

CONTRACTOR Complies with Section 2.215: YES

2.216 Mechanics Override Switch

A mechanics override switch shall be located in the tractor cab, below the dash, on the driver's side, in an accessible but inconspicuous location. The switch shall disengage the tiller power steering pump so the apparatus may be driven as a regular tractor trailer. For mechanical locking please see Section 3.111.1 for details

CONTRACTOR Complies with Section 2.216: YES

2.217 Electric Cord Reels

There shall be two (2) Hannay 120-volt electric rewind cord reels, model ECR1616-17-18 installed on the apparatus with a push button labeled REEL REWIND installed for 12 volt rewinding for each cord reel. The reel shall be equipped with 200' of yellow STW Seoprene 105 degree Celsius 10/3 wire installed with a cable stop to prevent damage to cable fittings. Rollers shall be supplied to prevent damage to the electrical cable if pulled in any direction.

a. One cord reel shall be in CL1 and one in CR1 on the tiller chassis body.

CONTRACTOR Complies with Section 2.217: YES

2.218 Cord Reel Junction Box

There shall be two (2) Circle D model PF51G-3 electrical junction box, equipped with four (4) electrical receptacles, provided and hard wired to the cord reel. The receptacles shall be enclosed in a UL listed, NEMA Type 3R cast aluminum box with aluminum finish and NFPA required indicator light.

CONTRACTOR Complies with Section 2.218: YES

2.219 Receptacle Junction Box

There shall be eight (8) Circle D, NEMA L5-15R DPLX, duplex twist lock type receptacles installed in the junction box. The receptacle shall be rated at 15 amps and 120 volts. Receptacles shall be installed in the following locations of the junction box: 1, 2, 3, 4.

CONTRACTOR Complies with Section 2.219: YES

2.220 Volt Twist Lock, Single Receptacle

There shall be two (2), single outlet boxes. The box shall contain one (1) NEMA L5-15, 120-volt 15 ampere rating twist lock type receptacles wired to the generator. The receptacles shall have spring loaded weather resistant covers. The receptacles shall be located on the rear of the tiller body one on the left and one on the right.

CONTRACTOR Complies with Section 2.220: YES

2.221 Generator

- a. A current year Onan model, hydraulic driven generator shall be installed on the apparatus. The generator shall be rated at a minimum of 10,000 watts at 120/240 volts. Current frequency shall be stable at 60 hertz.
- b. The generator shall be a modular unit, housed in stainless steel with acoustic material added for maximum sound dampening. The modular generator shall consist of a hydraulic motor, generator, blower, cooler, and all other necessary components.
- c. For ease of maintenance, there shall be accessibility for the oil reservoir and all filters contained within the generator.

CONTRACTOR Complies with Section 2.221: YES

2.222 Manufacturing Labels

A permanent plate shall be mounted in the driver's compartment specifying the quantity and type of the following fluids that may be used in the apparatus for normal maintenance. Where a fluid is not applicable to the unit, the plate shall be marked N/A to inform the service technician who may not be familiar with the apparatus.

- a. Engine oil
- b. Engine coolant
- c. Transmission fluid
- d. Pump transmission fluid
- e. Pump primer fluid
- f. Drive axle fluid
- g. Air conditioning refrigerant
- h. Power steering fluid
- i. Cab tilt mechanism fluid
- j. Transfer case fluid
- k. Equipment rack fluid
- l. Air compressor system lubricant
- m. Generator system lubricant
- n. Front tires air pressure
- o. Rear tires air pressure

- 2.222.1 A permanent plate shall be affixed in the driver's area that states the maximum number of personnel allowed to ride on the apparatus at any time.
- 2.222.2 A sign shall be affixed in the chassis cab, in plain sight of the driver that states the overall travel height, overall length, and gross GVWR of the apparatus.
- 2.222.3 All other appropriate label to ensure safe operation of the apparatus shall be permanently affixed in conspicuous locations.

CONTRACTOR Complies with Section 2.222: YES

End of Section II – Cab & Chassis

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EXHIBIT A – ATTACHMENT # 1, SECTION III**TABLE OF CONTENTS****Section III – Aerial Body & Trailer**

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- 3.3 Doors
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Attachment: FPARC-07057-002-0524 KME 101' TDA FINAL Quote [Revision 1] (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER

SECTION III – AERIAL BODY & TRAILER

3.1 Trailer Structure and Components

The tiller trailer frame shall be a gooseneck design. The frame of the trailer shall be constructed of a welded "C" channel design incorporating a forward section for the aerial turntable and a rearward section for the body and tiller. The gooseneck area frame shall have a section modulus of a minimum of 452. inches cubed and a RBM of 13,560,000 inch pounds.

- 3.1.1 There shall be two (2) hard point anchors installed on each side below the turntable.
- 3.1.2 The front goose neck section of the trailer frame shall incorporate a welded torque box to support the ladder turntable and the rear section of the trailer frame shall support the body and tiller. The front goose neck section shall be constructed with an actual minimum RBM rating of 17,500,000 inch pounds and the rear section shall be constructed with an actual minimum RBM rating of 14,450,000 inch pounds. The square corner method shall not be used for calculating the RBM.
- 3.1.3 There shall be two (2) Class IV rated receivers mounted on each side of the trailer body, directly beneath the compartments. These are in addition to the anchors below the turntable.
- 3.1.4 The fifth wheel shall have a minimum 1.25" diameter ball monorace bearing, 3.88" x 34" diameter, with the mounting plate bolted to the tractor. There shall be three grease zerks spaced at 120° intervals provided.
- 3.1.5 All grease zerks shall be readily accessible for ease of maintenance. The longitudinal pivot point mounting shall utilize two, 2" diameter steel pins. A bronze bushing with full width and circumference grease groove shall be utilized with this installation.
- 3.1.6 The trailer axle shall be a Meritor model MFS20 with a weight rating of 23,000 lbs. The trailer axle shall have a DSP Ride Tech maintenance free suspension to compensate for vehicle load changes. Deflection shall be limited by a three stage urethane spring. Two double acting shock absorbers, capable of dampening the shock of the load carried, shall be supplied per axle.
- 3.1.7 The tiller axle shall be equipped with Meritor, 16.5" x 6" S-cam type brakes with automatic slack adjusters. Spring brakes are necessary on both the rear tractor and trailer axles to hold the vehicle on a 32 percent grade. A Meritor Wabco anti-lock braking system shall be installed on the Arvin Meritor axles. A dash mounted warning light shall be provided in the tractor cab to notify the driver of a system malfunction.
- 3.1.8 The trailer brakes shall be plumbed to a brake release control valve in the tractor cab within easy reach of the driver and officer seat position and shall be labeled as to its function. An "ON" indicator light shall be installed in the tractor cab dash adjacent to the control.
- 3.1.9 The trailer tiller axle 22.5 x 12.25, hub piloted wheels shall be Alcoa polished. The wheels shall be 120 psi rated. Tires shall be Continental steel belted radials 425/65R22.5 "L" HTR2.
- 3.1.10 A TRW TAS-85 hydraulic power assist steering gear with a hydraulic power assist cylinder shall be provided.
- 3.1.11 A lock bar and a tiller power steering pump override switch shall be provided so the apparatus may be driven as a regular truck and trailer.
- 3.1.12 Provisions shall be provided at the front and rear for easy lubrication, service and repair.

CONTRACTOR Complies with Section 3.1: NO

3.2 Tiller Cab Structure and Components

A fully enclosed tiller cab that may be removed for repair in the event of cab damage shall be provided. The tiller cab shall have a maximum exterior width of 42" and a minimum interior floor to ceiling height of 55". The lower 4" of the tiller cab shall have a polished stainless steel toe kick around the walk areas.

- 3.2.1 The tiller cab roof panel assembly shall have extruded hat section supports welded to the roof skin. The roof hat sections shall be joined to the cab roof rail section to complete the upper cab skeletal structure. The completed roof panel rails shall provide a grid for maximum roof strength.

The front wall shall be designed with a double wall construction to reduce the effects of exterior noise.

- 3.2.2 Instruments and warning lights shall be conveniently located in the operator area of the cab on one of two operator control panels. The panels shall be hinged for easy access to warning light connections. All instruments and warning lights shall be easily visible to the tiller driver.
- 3.2.3 The interior of the cab shall be gray Line-X. The color of any vinyl upholstery shall match the upholstery of the cab seats.
- 3.2.4 The tiller operator's seat shall be an USSC Valor G2A - R-Style back, ABTS seat with dual retractor 3-point seat belts. The seat shall include "Ready Reach" seatbelt extension.
- 3.2.5 The seat shall feature an all belts to seat (ABTS) style of safety restraint. The ABTS feature shall include a three-point shoulder harness with the lap belt, automatic retractor and buckle as an integral part of the seat assembly.
- 3.2.6 The seat shall have a minimum of 37" from the seat H-point to the headliner. The female seat belt clasp shall extend up from the seat base 14" to be within easy reach of the occupant.
- 3.2.7 The tiller cab shall meet current NFPA standards for tiller cab roll over protection.

CONTRACTOR Complies with Section 3.2: NO

3.3 Doors

The tiller cab shall be provided with horizontal sliding doors on each side of the cab. The door shall open so as to provide unobstructed access to the tiller cab. The door when closed shall lock in place. An aluminum drip rail shall be installed above the door to prevent water from entering. The door shall be equipped with slide open tinted automotive safety type windows. The window shall provide maximum visibility for the tiller operator. Spray applied tint shall not be acceptable. The inside of the tiller cab doors shall be covered with gray line-X.

CONTRACTOR Complies with Section 3.3: YES

3.4 Rear Window

There shall be a rear window provided in the tiller cab that shall drop down to open. The window shall have automotive type tinted safety glass and shall provide maximum visibility for the tiller operator. Spray applied tint shall not be acceptable.

CONTRACTOR Complies with Section 3.4: YES

3.5 Windshield

- 3.5.1 The tiller cab shall not have windshield corner posts that inhibit the tiller operator's field of vision. The windshield shall be readily available and non-proprietary.
- 3.5.2 Provide a self-parking, electric windshield wiper motor. Two speed switches to be mounted in the tiller cab's overhead switch panel. The wiper motor shall have an access panel and be easily serviceable.
- 3.5.3 A windshield washer system shall be provided. The control switch to be mounted in the tiller cab's overhead switch panel. The windshield wipers shall turn off when the parking brake is set.
- 3.5.4 The windshield shall be large enough as to provide maximum visibility for the tiller operator.

CONTRACTOR Complies with Section 3.5: YES

3.6 Steering Column

There shall be a steering column with telescoping/tilt feature provided. The steering wheel shall be a minimum of 18 in diameter and shall align with the center of the tiller operators' seat. There shall be a high beam switch lever located on the right side of the steering column that shall activate the forward-facing tiller driving lights, and a blinker lever located on the left side of the steering column that shall activate the left and right turn tiller driving lights. All grease fittings shall be easily accessible.

CONTRACTOR Complies with Section 3.6: YES

3.7 Turn Indicator Lights

Amber turn signal indicator lights shall be mounted in the upper right and upper left corners of the tiller cab, and on the lower tiller cab control panel. The lights shall alert the tiller operator of the tractor driver's intent.

CONTRACTOR Complies with Section 3.7: YES

3.8 Transmission Selector Safety Switch

There shall be a pressure foot switch located on the tiller cab floor to the right of the steering column tied to the tractor transmission selector. The switch shall require a seated operator in the tiller cab to engage a foot switch before the tractor transmission can be shifted into gear. The switch shall need to be reset any time after the parking brake has been engaged. In addition there shall be a light in the tractor cab that when illuminated shall indicate to the driver that the tiller operator is not in position and the safety foot switch has not been depressed.

CONTRACTOR Complies with Section 3.8: YES

3.9 Buzzer Signaling System

There shall be a buzzer signaling system provided between the tractor cab and the tiller cab. The signaling system shall include an activation switch and buzzer located in the tractor cab. The buzzer shall be controlled by a foot switch located on the floor to the left of the tiller drivers steering column or by a switch located in the center of the steering wheel. A switch in the tractor cab located within reach of the driver shall allow the tractor operator to reply to the tiller operator's signal. The buzzer shall not use warning devices provided for low air, ignition, or any other components. Buzzers shall be audible when headsets are worn. The switch shall be labeled 1-Stop, 2-Go, and 3-Back-up.

CONTRACTOR Complies with Section 3.9: YES

3.10 Dimmer Switch

Provide a dimmer switch to control the tiller cabs overhead switch panel illumination. The dimmer switch shall be located in the overhead switch panel.

CONTRACTOR Complies with Section 3.10: YES

3.11 Tiller Cab Heating and Air Conditioning System

3.11.1 The venting for the heating and air conditioning system shall be designed to serve the functions of heating, cooling and defrosting the tiller cab.

3.11.2 The tiller cab shall be equipped with a 110-volt Coleman Mach 8 Roughneck low profile high capacity air conditioning system shall be provided to cool the crew area of the cab. The system shall consist of one (1) 110-volt air conditioning roof mounted unit. The cover of the air conditioning unit shall be painted the trailer body color. The system shall be pre-wired with enough cable for the body builder to connect to a 110-volt power source. The air conditioning system shall be wired to a transfer switch allowing for power supplied via shorepower and/or generator. All components including compressor, condenser and evaporator shall be mounted in a single sound shielded aluminum case. The system shall also include a heat strip. The system controls shall be in the tiller operators upper control panel. The keypad control shall feature a plastic housing, sealed membrane keypad and electronics with anticorrosion coating. The keypad shall have a large easy to read digital display that shall show temperature, set point, and fault code warnings.

CONTRACTOR Complies with Section 3.11: YES

3.12 Tiller Cab Rear Vents

There shall be two (2) manual vents supplied at the rear of the tiller cab to insure adequate ventilation.

CONTRACTOR Complies with Section 3.12: YES

3.13 Defogger Fans

There shall be two (2) defogger fans located in the tiller cab. The fans shall be pointed at the front windshield of the cab.

CONTRACTOR Complies with Section 3.13: YES

3.14 Auxiliary Fans

There shall be two (2) auxiliary fans installed inside the tiller cab.

CONTRACTOR Complies with Section 3.14: YES

3.15 Rear View Mirror, Tiller Cab

3.15.1 There shall be one set of rear view mirrors installed on the tiller cab. The mirrors shall be located on the front outside portion of the tiller cab to provide the tiller operator with a maximum view of the rear of the apparatus.

3.15.2 There shall also be a set of rear view mirrors (round/convex style) mounted on the trailer sides above the trailer axle.

CONTRACTOR Complies with Section 3.15: YES

3.16 Rear Axle Steering Display

Exact model shall be determined at pre-construction meeting.

CONTRACTOR Complies with Section 3.16: YES

3.17 Steps, Tiller Cab Access, Left

For access to the tiller cab, one set of steps shall be furnished at the left rear of the apparatus at the furthest point behind the tiller trailer axle. The steps shall be constructed of aluminum grip-strut. The steps shall have a maximum stepping height which shall not exceed 18" with the exception of the ground to first step which shall not exceed NFPA standard of 24". Steps shall be illuminated for night time operation. The lights shall be activated by the parking brake. To aid in ascending and descending the access steps, handrails shall be provided on each side. The steps and handrails shall have LED lighting incorporated into each.

CONTRACTOR Complies with Section 3.17: YES

3.18 Steps, Tiller Cab Access, Right

For access to the tiller cab, one set of steps shall be furnished at the right rear of the apparatus at the furthest point behind the tiller trailer axle. The steps shall be constructed of aluminum grip-strut. The steps shall have a maximum stepping height which shall not exceed 18" with the exception of the ground to first step which shall not exceed NFPA standard of 24". Steps shall be illuminated for night time operation. The lights shall be activated by the parking brake. To aid in ascending and descending the access steps, handrails shall be provided on each side. The steps and handrails shall have LED lighting incorporated into each.

CONTRACTOR Complies with Section 3.18: YES

3.19 Aluminum

All body compartments shall be fabricated of 1/8", 5052-H32, smooth aluminum plate. The complete body shall be fabricated using break and bend techniques to form strong yet flexible.

CONTRACTOR Complies with Section 3.19: YES

3.20 Body Subframe

The main body sub frame shall be constructed from galvanized steel tubing. The sub frame shall be located at the front and rear of the body and in front and rear of the wheel well opening.

a. The compartment area behind the rear axle shall be supported by a drop frame fabricated of steel tube and angles. All drop frame structures shall be welded directly to the torque box to allow the body to be a separate structure from the chassis

CONTRACTOR Complies with Section 3.20: NO**3.21 Vertical Hinges**

All vertical hinges shall be designed as to prevent the hinge pin from coming loose and sliding up or down.

CONTRACTOR Complies with Section 3.21: YES

3.22 Compartments Left Side**3.22.1 Compartment LO (Section referenced in Question # 8)**

There shall be a compartment located above the front stabilizer on the left side of the apparatus body. This compartment shall be designated as LO. It shall be equipped with a single, horizontally hinged lift up, treadbrite door. The compartment shall be able to hold One (1) 8' Werner NXT1A08 Type IA fiberglass single sided step ladder. The compartment shall be transverse.

3.22.2 Compartment L1

A compartment shall be located above the front stabilizers on the left side of the apparatus body. This compartment shall be designated as L1. It shall be equipped with a single, horizontally hinged lift-up treadbrite door. Door Opening minimum 30" Wide x 15" High. The compartment shall be transverse. The compartment floor shall be lined with a poly type material to allow the stokes basket to slide in and out of the compartment.

3.22.3 Compartment L2

3.22.3.1 A compartment shall be located behind the front stabilizers on the left side of the apparatus body. This compartment shall be designated as L2. It shall be equipped with a single, vertically hinged swing out door. Door Opening minimum 20" Wide x 40" High. The compartment upper portion minimum 20" wide x 11" high shall have a usable depth of minimum 23" The compartment lower portion 20" wide x 29" high shall be transverse.

3.22.3.2 The entire 120/240-volt electrical system shall be installed in compliance with NFPA 1901 newest edition. This shall include all testing, labeling, wiring methodology, and dimensional requirements. Certification of compliance shall accompany the apparatus at the time of delivery.

3.22.3.3 There shall be a 120/240-volt load center incorporated into the 120/240-volt wiring system. The load center shall include adequate circuit breakers to protect the loads specified on this apparatus.

3.22.3.4 All 120/240-volt AC wiring shall be done in accordance with NFPA 1901 newest edition as well as nationally accepted electrical codes.

3.22.3.5 The compartment shall have branch circuit overcurrent protection in accordance with NFPA 1901 newest version. The load center shall be equipped with a non-GFI two pole main breaker when the six or more individual branch circuits are present. Over current protection devices shall be marked with labels to identify the function of the circuit they protect.

3.22.3.6 There shall be a FROG D provided with the generator. The FROG D shall automatically sense a generator signal and begin displaying information. The digital meter display shall constantly monitor and display voltage, frequency and current draw on two separate lines. The display shall be capable of displaying total accumulated run time hours when the MODE button is pressed. The information shall be stored in a non-erasable memory. The FROG display shall be located next to the load center in L-2.

3.22.4 Compartment L3

A compartment shall be located behind the front stabilizers on the left side of the apparatus body. This compartment shall be designated as L3. It shall be equipped with double vertically hinged swing-out doors. Door Opening minimum 35" Wide x 60" High. The compartment upper portion minimum 35" wide x 16" high shall be transverse. The compartment intermediate portion minimum 35" wide x 13" high shall have a usable depth of minimum 23". The compartment lower portion minimum 35" wide x 29" high shall be transverse.

3.22.5 Compartment L4

There shall be a full height compartment located behind the front stabilizers on the left side of the apparatus body. This compartment shall be designated as L4. It shall be equipped with double, vertically hinged swingout doors. Door Opening - 35" Wide x 60" High. The compartment upper portion 35" wide x 16" high shall be transverse. The compartment intermediate portion 35" wide x 13" high shall have a usable depth of 23" The compartment lower portion 35" wide x 29" high shall be transverse.

3.22.6 Compartment L5

There shall be a full height compartment located behind the front stabilizers on the left side of the apparatus body. This compartment shall be designated as L5. It shall be equipped with double, vertically hinged swingout doors. Door Opening - 35" Wide x 60" High. The compartment upper portion 35" wide x 12" high shall be transverse. The compartment intermediate portion 35" wide x 35" high shall have a usable depth of 13.5" The compartment lower portion 35" wide x 13" high shall be transverse.

3.22.7 Compartment L6

There shall be a full height compartment located behind the front stabilizers on the left side of the apparatus body. This compartment shall be designated as L6. It shall be equipped with double, vertically hinged swingout doors. Door Opening minimum 35" Wide x 60" High. The compartment upper portion minimum 35" wide x 12" high shall be transverse. The compartment intermediate portion minimum 35" wide x 35" high shall have a usable depth of minimum 13.5" The compartment lower portion minimum 35" wide x 13" high shall be transverse.

3.22.8 Compartment L7

There shall be a compartment located in front of the rear trailer axle on the left side of the apparatus body. This compartment shall be designated as L7. It shall be equipped with a single, vertically hinged swing-out door. Door Opening minimum 26" Wide x 29" High. The compartment shall have a usable depth of minimum 20".

3.22.9 Compartment L8

There shall be a compartment located behind the rear trailer axle on the left side of the apparatus body. This compartment shall be designated as L8. It shall be equipped with a single, vertically hinged swing-out door. Door Opening minimum 32" Wide x 39" High. The compartment upper portion shall have a minimum usable depth of 13.5". The compartment lower portion shall have a minimum usable depth of 24".

3.22.10 Compartment L9

There shall be a compartment located in front of the rear trailer axle above compartment L7 on the left side of the apparatus body. This compartment shall be designated as L9. It shall be equipped with a single, horizontally hinged flip-down door. Door Opening minimum 24" Wide x 15" High. The compartment shall be transverse.

CONTRACTOR Complies with Section 3.22: NO

3.23 Compartments Right Side

3.23.1 Compartment RO

There shall be a compartment located above the front stabilizer on the right side of the apparatus body. This compartment shall be designated as RO. It shall be equipped with a single, horizontally hinged lift up, treadbrite door. The compartment shall be able to hold One (1) 8' Werner NXT1A08 Type IA fiberglass single sided step ladder. The compartment shall be transverse.

3.23.2 Compartment R1 (change in Amendment # 1)

A compartment shall be located above the front stabilizers on the right side of the apparatus body. This compartment shall be designated as R1. It shall be equipped with a single, horizontally hinged lift-up treadbrite door. Door Opening minimum 30" Wide x 15" High. The compartment shall be transverse. The compartment floor shall be lined with a poly type material to allow the stokes basket to slide in and out of the compartment.

3.23.3 Compartment R2

A compartment shall be located behind the front stabilizers on the right side of the apparatus body. This compartment shall be designated as R2. It shall be equipped with a single, vertically hinged swing out

- door. Door Opening minimum 20" Wide x 40" High. The compartment upper portion minimum 20" wide x 11" high shall have a usable depth of minimum 23". The compartment lower portion minimum 20" wide x 29" high shall be transverse.
- 3.23.4 **Compartment R3**
A compartment shall be located behind the front stabilizers on the right side of the apparatus body. This compartment shall be designated as R3. It shall be equipped with double vertically hinged swing-out doors. Door Opening minimum 35" Wide x 60" High. The compartment upper portion minimum 35" wide x 16" high shall be transverse. The compartment intermediate portion minimum 35" wide x 13" high shall have a usable depth of minimum 23". The compartment lower portion minimum 35" wide x 29" high shall be transverse.
- 3.23.5 **Compartment R4**
There shall be a full height compartment located behind the front stabilizers on the right side of the apparatus body. This compartment shall be designated as R4. It shall be equipped with double, vertically hinged swingout doors. Door Opening minimum 35" Wide x 60" High. The compartment upper portion minimum 35" wide x 16" high shall be transverse. The compartment intermediate portion minimum 35" wide x 13" high shall have a minimum usable depth of 23" The compartment lower portion minimum 35" wide x 29" high shall be transverse.
- 3.23.6 **Compartment R5**
There shall be a full height compartment located behind the front stabilizers on the right side of the apparatus body. This compartment shall be designated as R5. It shall be equipped with double, vertically hinged swingout doors. Door Opening minimum 35" Wide x 60" High. The compartment upper portion minimum 35" wide x 12" high shall be transverse. The compartment intermediate portion minimum 35" wide x 35" high shall have a minimum usable depth of 13.5" The compartment lower portion minimum 35" wide x 13" high shall be transverse.
- 3.23.7 **Compartment R6**
There shall be a full height compartment located behind the front stabilizers on the right side of the apparatus body. This compartment shall be designated as R6. It shall be equipped with double, vertically hinged swingout doors. Door Opening minimum 35" Wide x 60" High. The compartment upper portion minimum 35" wide x 12" high shall be transverse. The compartment intermediate portion minimum 35" wide x 35" high shall have a usable depth of minimum 13.5" The compartment lower portion minimum 35" wide x 13" high shall be transverse.
- 3.23.8 **Compartment R7**
There shall be a compartment located in front of the rear trailer axle on the right side of the apparatus body. This compartment shall be designated as R7. It shall be equipped with a single, vertically hinged swing-out door. Door Opening minimum 26" Wide x 29" High. The compartment shall have a usable depth of minimum 20".
- 3.23.9 **Compartment R8**
There shall be a compartment located behind the rear trailer axle on the right side of the apparatus body. This compartment shall be designated as R8. It shall be equipped with a single, vertically hinged swing-out door. Door Opening minimum 32" Wide x 39" High. The compartment upper portion shall have a minimum usable depth of 13.5" The compartment lower portion shall have a minimum usable depth of 24"
- 3.23.10 **Compartment R9**
There shall be a compartment located in front of the rear trailer axle above compartment R7 on the right side of the apparatus body. This compartment shall be designated as R9. It shall be equipped with a single, horizontally hinged flip-down door. Door Opening minimum 24" Wide x 15" High. The compartment shall be transverse.

CONTRACTOR Complies with Section 3.23: NO

3.24 Compartment Scuff Platers

Anodized aluminum angle scuff plates shall be installed in the bottom sill area of all major equipment carrying compartments to reduce paint damage from equipment. The scuff plates shall be attached using a permanent bonding double sided tape.

CONTRACTOR Complies with Section 3.24: YES

3.25 Sweep-Out Construction

Compartment floors shall have a "sweep-out" design with the door opening threshold positioned lower than compartment floor, permitting easy cleaning of compartments.

CONTRACTOR Complies with Section 3.25: YES

3.26 Compartment Door Construction

The lap type compartment doors shall be of double panel construction. The outer panel shall be fabricated of .190, 5052-H32 aluminum and the inner panel of .125, 3003-H14 aluminum. There shall be a heavy-duty automotive type extruded rubber molding installed on the overlap area of the doors to insure a weatherproof seal and prevent water from collecting in the door sills. All of the compartment doors shall have a polished stainless steel continuous hinge connected to both the body and the door with stainless steel bolts and nuts. The hinge pin shall be stainless steel with a minimum diameter of 1/4".

CONTRACTOR Complies with Section 3.26: YES

3.27 Compartment Locking Door Handles, Double Pan Doors

Exterior door latches shall incorporate a polished LOCKING D-paddle handle with rotary style latch. For ease of operation, the D-handle opening shall be large enough to accommodate a gloved hand. There shall be a safety latch with striker plate included with the door handle assembly. No lock shall be installed on compartment where cab lift control is located.

CONTRACTOR Complies with Section 3.27: YES

3.28 Compartment Door Holders Gas Struts

3.28.1 Gas strut with dampeners door holders shall be furnished on all vertically hinged, swing-open compartment doors to hold the door in either the fully open or partially closed position. The door holder shall close the door automatically when it is positioned past center or return the door to the fully open position if the center point is not reached and the door is released.

3.28.2 On compartments having double doors, the secondary door shall have a latch mechanism to secure the door when the primary door is opened

CONTRACTOR Complies with Section 3.28: YES

3.29 Compartment Door Holders, Gas Struts

Gas strut with dampeners door holders shall be furnished on all horizontally hinged, lift-up compartment doors to hold the door in either the fully open or partially closed position and assist in raising it. The door holder shall close the door automatically when it is positioned past center or return the door to the fully open position if the center point is not reached and the door is released.

CONTRACTOR Complies with Section 3.29: YES

3.30 Rear Compartment, Tiller

There shall be a compartment located at the rear of the apparatus. The compartment shall have a single horizontally hinged lift up door. The compartment shall extend in depth to the front of the torque box assembly and shall have a framework installed to hold the proper compliment of ladders and tools specified in sections 301.75 and 301.76.

CONTRACTOR Complies with Section 3.30: YES**3.31 Storage Compartment, Rear, Below Torque Box Compartment T4**

There shall be a compartment located at the rear of the apparatus below the torque box compartment. This compartment shall be designated as T4. The compartment shall have a horizontally hinged flip down door. Door Opening minimum 30" wide x 9" high. The compartment shall have a usable depth of minimum 72".

CONTRACTOR Complies with Section 3.31: YES**3.32 Aluminum Tray(s) for Pike Pole Storage**

There shall be four (4) aluminum tray(s) for storage of pike pole(s) installed in the storage compartment located below the torque box compartment. The following pike poles shall be supplied with the apparatus.

- a. Two (2) 6' Aluminum D-Handle Fiberglass Rubbish Hook, Nupla RH-6DA
- b. Two (2) 4' Aluminum D-Handle Fiberglass Ceiling & Wall Hook, Nupla CWH-4YDA

CONTRACTOR Complies with Section 3.32: YES**3.33 Storage Compartment, Tiller, Right Side, Rear Compartment T3**

There shall be a storage compartment located on the right rear of the tiller body. This compartment shall be designated as T3. The compartment shall have a vertically hinged treadbrite door with a pop latch. Door Opening minimum 9" wide x 18" high. The compartment shall have a minimum usable depth of 15". The compartment shall not have any venting into any other compartment as this compartment is designed for portable fuel storage.

CONTRACTOR Complies with Section 3.33: YES**3.34 Storage Compartment, Tiller, Left Side, Rear Compartment T2**

There shall be a storage compartment located on the left rear of the tiller body. This compartment shall be designated as T2. The compartment shall have a vertically hinged treadbrite door with a pop latch. Door Opening minimum 9" wide x 18" high. The compartment shall have a minimum usable depth of 15". There shall be a female air connection located in the compartment to allow for connecting an air hose.

CONTRACTOR Complies with Section 3.34: YES**3.35 Door Handle, Locking Single Pan Lap Type Door**

3.35.1 Exterior door latches shall incorporate a polished LOCKING D-paddle handle with rotary style latch. For ease of operation, the D-handle opening shall be large enough to accommodate a gloved hand.

3.35.2 Double doors shall utilize concealed rotary latches on the secondary door, actuated by a recessed stainless steel paddle handle. The door design shall not impede into the compartment opening when in the open position. The watertight door seal shall exceed the current KKK-1822 water infiltration standards.

CONTRACTOR Complies with Section 3.35: YES**3.36 NFPA Step Requirements**

All steps shall have a surface area of at least 35 square inches and shall be able to withstand a load of at least 500 pounds. Steps shall be provided at any area that personnel may need to climb and shall be adequately lighted.

CONTRACTOR Complies with Section 3.36: YES**3.37 Stokes Basket Storage**

Provisions shall be provided on the R1/L1 compartment for storage of one (1) Stokes Basket, and one backboard.

CONTRACTOR Complies with Section 3.37: YES**3.38 Frame Ladder Storage (Inside Compartment)**

Storage provisions shall be provided in a transverse compartment for the following ladder (s):

- a. One (1) 8' Werner NXT1A08 Type IA fiberglass single sided step ladder shall be provided with the apparatus.

The ladder shall be stored in the RO compartment above the stabilizers.

CONTRACTOR Complies with Section 3.38: YES

3.39 Compartment Venting

Each body compartment shall be properly vented in a manner that will reduce the amount of dirt and water that may enter the compartment. Venting shall be directly to the atmosphere rather than into another compartment, which would only spread moisture throughout the body rather than dissipate it. Additionally, each compartment shall be equipped with drain holes to allow standing water to exit.

CONTRACTOR Complies with Section 3.39: YES

3.40 Ultra Stainless Screws

Stainless steel screws shall be provided throughout the body in locations such as overlays and other numerous hardware mounting locations.

CONTRACTOR Complies with Section 3.40: YES

3.41 Stepping, Standing, Walking Surfaces

All exterior surfaces designated by the manufacturer as stepping, standing, or walking areas shall be constructed of Grip Strut or Textured Treadbrite and shall provide a highly slip resistant surface, even when the surface is wet. All interior surfaces designated by the manufacturer as stepping, standing, or walking areas shall be slip resistant when the surface is dry. The degree of slip resistance shall be in compliance with the intent of NFPA 1901 newest version. It is the desire of the fire department to purchase an apparatus that utilizes aluminum treadplate as an overlay of the main apparatus body structure. Aluminum treadplate may also be utilized in the construction of enclosure doors, lids and covers where applicable. Aluminum treadplate is not to be utilized as a main structural member of the apparatus body or pump enclosure.

CONTRACTOR Complies with Section 3.41: YES

3.42 Walkways and Overlays

The running boards and walkways shall be constructed of structural sheet metal that is integral with the body. They shall be overlaid with aluminum tread plate material to provide a slip resistant surface, resulting in a full 1/4" thickness for maximum strength. Overlays shall be installed that are totally insulated from the apparatus with nylon shoulder washers that extend into holes in the body. Stainless steel cap nuts shall be employed where bolt ends may damage equipment or cause injury. After the apparatus is painted and the overlays are reinstalled, they shall be additionally sealed at the edges with a caulking compound.

Tread plate overlays shall be provided in the following areas:

- a. All walkways and running board
- b. The entire rear surface of the body below the tiller cab.
- c. Gooseneck portion of the tiller trailer.
- d. The top surface of the tiller trailer, bending over the outside edge to form a drip rail.
- e. The fifth wheel area of the tiller tractor forming a complete cover over the chassis frame.

CONTRACTOR Complies with Section 3.42: YES

3.43 Mud Flaps

Two (2) mud flaps (black no writing) shall be installed on the apparatus to the rear of the wheel well. The mud flaps shall be a minimum of 3/8" thick to prevent "sailing".

CONTRACTOR Complies with Section 3.43: YES

3.44 Rear Wheel Wells Tiller Trailer

The fenders shall be integral with the body sides and compartments with a seamless appearance. The fenders shall be fitted with bolt-in removable full circular inner liners in the wheel well area for ease of cleaning and maintenance.

CONTRACTOR Complies with Section 3.44: YES

3.45 Rear Fenderettes

Two (2) stainless steel fenderettes shall be installed at the outboard edge of the rear wheel well area, one on each side. The fenderettes shall be bolted to the apparatus body using nylon washers to space them slightly away from the body to reduce build-up of road grime. The fenderettes shall be constructed of stainless steel that has been polished to a high-quality finish.

CONTRACTOR Complies with Section 3.45: YES

3.46 Body Rub Rails

Rub rails shall be installed beneath the compartment doors to protect them from damage should the body be brushed or rubbed against another object. The rub rails shall be 3/16 inch aluminum channel, 2-1/2 inch x 1 inch. The rub rails shall be highly polished and then Bright Dip anodized. It shall be installed on the body utilizing non-corrosive nylon spacers and secured with stainless steel bolts. The outside edge of the rub rails shall be even with the fenderettes and bolt-on steps to prevent snagging.

CONTRACTOR Complies with Section 3.46: YES

3.47 Two Rear Tow Eyes

There shall be two (2) chrome plated tow eyes installed at the rear of the apparatus. The tow eyes shall be bolted to a heavy-duty assembly that is welded to the torque box. The tow eyes shall have a 2-1/2" ID hole.

CONTRACTOR Complies with Section 3.47: YES

3.48 Handrails, Grab Rails and Steps

Handrails shall be stainless steel tubing of not less than 1-1/4" in diameter covered with ribbed rubber grips. All railing shields and brackets shall be chrome plated, and bolted with stainless steel bolts. The lower bracket on all vertical handrails shall have a drain hole drilled in it at the lowest point. Handrails shall be provided in the following areas:

- a. Handrail(s) for left and right turntable access steps.
- b. Vertical handrail on left and right tiller cab access steps.

CONTRACTOR Complies with Section 3.48: YES

3.49 Dri-Dek Tiles

There shall be Dri-Dek tiles provided with the apparatus. The tiles shall be black in color. When installed in compartments, yellow leading edges shall be provided.

CONTRACTOR Complies with Section 3.49: YES

3.50 Shelving Channels

There shall be twenty (20) Strut channels installed in twenty (20) standard height compartment(s) for future shelves.

CONTRACTOR Complies with Section 3.50: YES

3.51 Adjustable Shelves

There shall be twenty-five (25) adjustable shelves installed on the apparatus. The shelves shall be constructed of 3/16" aluminum sheet with 2" lips. The shelves shall have an abraded finish. The shelves shall be designed in such a manner that will allow liquids to readily drain when spilled. The shelves shall be installed in the EMS compartment supplied with the chassis cab.

CONTRACTOR Complies with Section 3.51: YES**3.52 Roll Out Equipment Tray(s)**

There shall be eight (8) rollout tray(s) installed on the apparatus. Each tray shall be provided with a SlideMaster™ model SM3-MP roller type assembly. The roller assembly shall have a rated capacity of 600lb distributed load, and shall have 100% extension capabilities. A mechanical lock assembly shall be provided to lock the tray in the extended position and the retracted position. The tray(s) shall be constructed of 3/16" aluminum sheet with 3" lips. The tray(s) shall have an abraded finish. The tray roller assembly shall have a power coated finish for added corrosion protection.

CONTRACTOR Complies with Section 3.52: YES**3.53 Wheel Well Storage**

3.53.1 There shall be a compartment on the right and left side in the rear wheel well area on the front side of the trailer axle. The compartment shall be able to accommodate two (2) 60-minute carbon fiber cylinders with valve (Scott Part # 804723-01). The compartment shall have drain holes towards the rear wall. The rear wall of the compartment shall have rubber padding to prevent damage when the bottle comes in contact with the wall. The compartment doors shall be vertically hinged, weather stripped and shall be painted to match the trailer.

3.53.2 There shall also be a compartment on the right and left side in the rear wheel well area on the rear side of the trailer axle. The compartment on the right side shall be able to accommodate two (2) 2.5-gallon pressurized water extinguishers. The compartment on the left side shall be able to accommodate a 20lb Ansul cartridge dry chemical fire extinguisher. The compartment doors shall be vertically hinged, weather stripped and shall be painted to match the trailer.

CONTRACTOR Complies with Section 3.53: YES**3.54 Ground Ladders, Tiller**

3.54.1 All ground ladders, unless otherwise specified herein, shall be individually mounted vertically, side by side, on their beams, in a ground ladder storage compartment accessible from the rear of the trailer. The compartment shall be fully enclosed and shielded from underside road debris and moisture. All ladders shall be capable of being removed independently without removing another and shall be mounted according to length.

3.54.2 Each ladder shall be supported in four (4) continuous full length PTFE Teflon or approved equal UV resistant 3"x3" angle ways. The ladder ways shall have forward ladder stops, tapered pockets and hold down rollers and all ladder ends shall be even at the rear of the trailer when stowed.

3.54.3 A hinged locking gate with hold down rollers shall be provided for the vertically mounted ladders. Neoprene covered nylon or approved equal UV resistant rollers or nylon pads shall be provided as necessary in the compartment to protect the ladders from damage.

3.54.4 The access door to the torque box ladder storage compartment shall be constructed of smooth aluminum for overlay of Chevron reflective material. The ladder bay shall be able to hold the following ladder compliment:

- a. Three (3) 10' folding attic ladders, Duo Safety 585A
- b. Two (2) 16' roof ladders, Duo Safety 875A
- c. One (1) 18' roof ladder, Duo Safety 875A
- d. One (1) 20' roof ladder, Duo Safety 875A
- e. Two (2) 28' two section extension ladders, Duo Safety 1200A
- f. Two (2) 35' two section extension ladders, Duo Safety 1200A

CONTRACTOR Complies with Section 3.54: YES**3.55 Pike Poles and Hooks**

Pike poles & hooks shall be stored in individual tubes within the torque box, adjacent to the ladders. The following fiberglass handled pike poles shall be supplied with the apparatus at the time of delivery:

- a. Two (2) 10' Fiberglass Pike Pole(s), Nupla YPD-10
- b. One (1) 12' Fiberglass Pike Pole(s), Nupla YPD-12
- c. One (1) 18' Fiberglass Pike Pole(s), Nupla YPD-18
- d. Three (3) 6' Rubbish Hook(s), Nupla RH-6DA (Aluminum "D" Handle)
- e. One (1) 4' Rubbish Hook(s), Nupla RH-4DA (Aluminum "D" Handle)
- f. Two (2) 6' New York Roof Hook, Fire Hooks Unlimited
- g. Two (2) 4' New York Roof Hook, Fire Hooks Unlimited

CONTRACTOR Complies with Section 3.55: YES

3.56 Thermoplastic Coating

In the designated areas, a Line X or equivalent system shall be used for maximum protection of the body and equipment. The system shall utilize flexible 100% solids applied with high pressure impingement-mix polyurethane dispensing equipment.

- a. The coating shall be a fast cure, textured surface, multi-purpose material designed for commercial and industrial applications. It shall exhibit excellent adhesion to the body and serve as a protective, abrasion resistant liner where applied.
- b. The density of the material shall be a minimum of 70 PCF as measured using ASTM test method D-1622. The taber abrasion resistance shall be a minimum of 0.03% per 1000 cycles as measured utilizing ASTM test method D-4060.
- c. The minimum tensile strength as measured using ASTM D-2370 shall be 1540 pounds per square inch.

CONTRACTOR Complies with Section 3.56: YES

3.57 Body Compartment Coating

The interior of the body compartments shall be coated with a gray thermo-plastic polyurethane coating. The coating shall be durable enough to withstand everyday abuse of equipment removal and shifting.

CONTRACTOR Complies with Section 3.57: YES

3.58 Body Compartmentation Door Pans Coating

The body compartment door pans shall be constructed of stainless steel.

CONTRACTOR Complies with Section 3.58: YES

3.59 Body Paint Preparation

After the body and components have been fabricated and assembled they shall then be disassembled prior to painting so when the apparatus is completed there shall be finish paint beneath the removable components. The apparatus body and components shall be metal finished as follows to provide a superior substrate for painting:

- a. All aluminum sections of the body shall undergo a thorough cleaning process starting with a phosphoric acid solution to begin the etching process followed by a complete rinse. The next step shall consist of a chemical conversion coating applied to seal the metal substrate and become part of the aluminum surface for greater film adhesion.
- b. After the cleaning process the body and its components shall be primed with a High Solids primer and the seams shall be caulked.
- c. All bright metal fittings, if unavailable in stainless steel or polished aluminum, shall be heavily chrome plated. Iron fittings shall be copper under plated prior to chrome plating.

CONTRACTOR Complies with Section 3.59: YES

3.60 Paint Process

The paint process shall follow the strict standards as set forth by PPG Fleet Finish Guidelines. The body shall go through a three-stage paint process: Primer Coat, Base Coat (Color), and Clear Coat. In the first stage of the paint process the body shall be coated with PPG F3980 Low VOC I High Solids primer to achieve a total thickness of 2-4 mills. In the second stage of the paint process the body shall be painted with PPG FBCH Delfleet™ High Solids Polyurethane Base Coat. A minimum of two to three coats of paint shall be applied to achieve hiding. In the final stage of the paint process the body shall be painted with PPG DCU-2002 Clear Coat. A minimum of two to three coats shall be applied to achieve a total dry film thickness of 2-3 mills. As part of the curing process the painted body shall go through a Force Dry I Bake Cycle process. The painted components shall be baked at 185 degrees for 3 hours to achieve a complete coating cure on the finished product.

CONTRACTOR Complies with Section 3.60: NO

3.61 Hand Polished

After the force dry I bake cycle and ample cool down time, the coated surface shall be sanded using 3M 1000, 1200, and or 1500 grit sandpaper to remove surface defects. In the final step, the surface shall be buffed with 3M Superduty compound to add extra shine to coated surface. No more than .5 mil of clear shall be removed in this process.

CONTRACTOR Complies with Section 3.61: YES

3.62 Aerial Component Protection/Paint

All aerial device components above the rotation point that are not chrome plate bright aluminum treadplate or stainless steel shall be painted. All areas to be painted shall be sanded to remove any metal flakes and smooth any rough surfaces. All surfaces to be painted shall be phosphatized to remove metal impurities, aid paint adhesion and inhibit rust. The components shall be prime painted with a Low V.O.C. high solids non-isocyanate primer and finish painted with a Low V.O.C. extremely durable, single stage ultra-high solids high gloss polyurethane paint. The support structure and components below the rotation point shall be painted black.

The extending stabilizer beams, inner jack cylinder protective tubes, and stabilizer pads shall be hot dip galvanized as follows:

- a. The extending stabilizer beams, inner jack tubes, and stabilizer pads shall be wheel-a-braided to remove any mill scale, or contamination prior to galvanizing.
- b. Following this preparation, the individual components shall be hot dip galvanized. The galvanizing process shall require that the entire assembly be completely submerged. Following the galvanizing process, the surface shall be ground smooth to remove dross. This preparation shall provide maximum protection for these critical components. Following surface preparation, components shall be coated with Black water base self-etching coating. No Exceptions .
- c. To enhance durability and appearance, the high gloss polyurethane paint applied to the aerial ladder sections and other components above the rotation point, shall be cured at an elevated temperature for a period not less than 2 hours. The temperature shall not be less than 180 degrees F. Curing of the paint shall promote a chemical reaction within the substrate that shall harden the paint. The curing shall be performed in a clean, sealed, controlled atmosphere. The atmosphere shall CONTRACTOR Complies with all environmental standards and any air entering the chamber shall be filtered.

CONTRACTOR Complies with Section 3.62: NO

3.63 Aerial Device Paint Color

The aerial device shall be painted with PPG Delfleet polyurethane enamel paint. The color shall be (White) PPG# FOG -2185.

CONTRACTOR Complies with Section 3.63: NO

3.64 Aerial Ladder Egress Paint

The aerial ladder egress shall be painted with PPG Delfleet polyurethane enamel paint. The color shall be meet current NFPA recommendations.

CONTRACTOR Complies with Section 3.64: NO

3.65 Aerial Torque Box Paint

The aerial torque box shall be painted with PPG polyurethane enamel paint. The color shall be (Black) PPG# MTK - 9000.

CONTRACTOR Complies with Section 3.65: NO

3.66 Apparatus Body Color

The apparatus shall be painted with PPG polyurethane enamel paint PPG # FBCH-72626-ALT, color red.

CONTRACTOR Complies with Section 3.66: NO

3.67 Touch-up Paint

here shall be three (3) paint sticks supplied per color with each apparatus for touch up.

CONTRACTOR Complies with Section 3.67: YES

3.68 Reflective Lettering

3.68.1 There shall be thirty-eight (38) reflective letters provided and installed on the apparatus. The letters shall be approximately 3" tall with black outline and shadow.

a. "RIVERSIDE COUNTY"- Arched above door emblem

b. " FIRE" - Straight below door Emblem

3.68.2 There shall be sixteen (16) reflective letters provided and installed on the apparatus; The letters shall be approximately 6" tall with black outline and shadow. Lettering shall be installed on vehicle lettering mounting plates per County's direction.

3.68.3 There shall be reflective letters provided and installed on the aerial signs, left and right. The letters shall be approximately 12" tall with black outline and shadow.

CONTRACTOR Complies with Section 3.68: YES

3.69 Custom Door Decals

There shall be a pair of custom door decals provided. The decals shall be installed as per the customer specifications at pre-paint inspection.

CONTRACTOR Complies with Section 3.69: YES

3.70 Reflective "S" Ribbon

There shall be one (1) reflective "S" located in the reflective stripe on each side of the apparatus. The "S" portion of the stripe shall be shaded and highlighted to give it a ribbon effect.

CONTRACTOR Complies with Section 3.70: YES

3.71 NFPA Compliant Reflective Striping

Reflective striping shall be applied to the exterior of the apparatus in a manner consistent with the National Fire Protection Association Pamphlet 1901, latest edition. It shall consist of a 6" wide stripe low across the front of the chassis and along the sides up to the first compartment on each side where it shall then angle up and back to a point above the wheel well area where it shall then run level to the back edge of the body. The reflective striping shall be white in color.

CONTRACTOR Complies with Section 3.71: YES

3.72 Chevron Reflective Striping on Rear Torque Box Ladder Access Door

In addition to the custom striping pattern supplied on the apparatus, there shall be additional reflective striping applied to the torque box ladder access door on the rear of the apparatus. The striping shall consist of alternating 4" red and yellow reflective stripes applied in a "Chevron" pattern. Chevron reflective material shall be applied to the entire rear face of the trailer body (not the tiller box).

CONTRACTOR Complies with Section 3.72: YES

3.73 Rub Rail Reflective Striping

There shall be 2" reflective striping installed in the rub rail channel. The reflective striping shall be diamond grade quality material for increased visibility. The reflective shall be silver in color.

CONTRACTOR Complies with Section 3.73: YES

3.74 Paint Aerial Underside

The underside of the aerial shall be painted.

CONTRACTOR Complies with Section 3.74: YES

3.75 Wheel Chocks & Mounting

There shall be two (2) pairs of Zico #SAC-44 wheel chocks provided with the apparatus. The chocks shall be mounted in Zico #SQCH-44-H mounting brackets in locations that are easily accessible under both the right and left sides of the body.

CONTRACTOR Complies with Section 3.75: YES

3.76 Third Party Certifications

3.76.1 All bids shall include copies of the certification of testing of the aerial device. The County desires a device that has been tested by a third party for compliance with the 2 to 1 safety factor specified by NFPA Pamphlet 1901, latest edition. Devices that have not been certified by an engineer that is independent of the manufacturer shall not be acceptable.

3.76.2 Welds shall be tested using two (2) Non-Destructive methods by a third-party inspection firm. Steel and aluminum ladders shall, at a minimum, have all welds tested using two (2) separate NOT methods.

3.76.3 Aerial structures shall have 100 % of all structural welds tested using both magnetic particle method and visual testing method. Aerials that are fabricated of aluminum shall have 100% of all structural welds tested using dye penetrant method and visual method. Manufacturers who rely only on visual inspection (performed in-house or by any third party) as a primary method of testing shall not be considered and their bid shall be rejected.

CONTRACTOR Complies with Section 3.76: YES

3.77 NFPA Aerial Stability Factors & Testing

3.77.1 A one and one half to one (1.5:1) stability factor shall be provided. These capabilities shall be established in an unsupported configuration. Since the device is rated while flowing water, stability testing shall account for the distributed weight of water in a full waterway and water reactionary force as required by NFPA 1901. The following are specific descriptions of what tests are to be performed, and conditions they shall be performed under. The aerial manufacturer shall strictly adhere to these tests and conditions as set forth in these specifications and NFPA 1901, newest revision.

a. For both of the following tests, the only obstructions to a full 360-degree rotation with the aerial at 0 degrees' elevation and full extension; shall be presented by the apparatus itself (if any), and NOT external obstructions at the manufacturer's test location(s). This shall mean that the aerial device manufacturer shall ensure that the testing grounds present no obstruction (trees, buildings, etc..) to the full 360-degree rotation at 0 degrees' elevation and full extension, which may cause the need to raise the aerial to clear the obstruction.

b. Additionally, the apparatus shall be tested for stability only after the entire apparatus is complete. This requirement is specified in NFPA 1901 as the apparatus being in "service ready condition".

There shall be No Exception to this requirement since it would be unlikely that actual weight distribution could be accurately simulated for the stability testing. "Counter weighting" shall not be allowed under any circumstance in place of the actual body and equipment.

3.77.2 Test One (1)

After the above conditions have been satisfied, the aerial shall be subjected to the following test in the presence of the third-party testing company that is in compliance with these specifications. Specifically, the aerial device shall be placed on level ground with the stabilizers deployed per manufacturer recommendations. The aerial device shall then have 1.5 times the rated capacity placed at the tip of the aerial, with the device at full extension and at 0 degrees' elevation; which is the most stringent configuration. The device shall be rotated 360 degrees, raising and lowering the aerial as needed to clear the cab of the apparatus. The aerial shall prove to be stable during the entire test and no component of the aerial shall permanently deform.

3.77.3 Test Two (2)

After the above conditions have been satisfied, the aerial shall be subjected to the following test in the presence of the third-party testing company that is in compliance with these specifications. Specifically, the aerial device shall be placed on a 5-degree downward slope with the stabilizers deployed per manufacturer recommendations. The aerial device shall then have 1.33 times the rated capacity placed at the tip of the aerial, with the device at full extension and at 0 degrees' elevation; which is the most stringent configuration. The device shall be rotated 360 degrees, raising and lowering the aerial as needed to clear the cab of the apparatus. The aerial shall prove to be stable during the entire test and no component of the aerial shall permanently deform.

CONTRACTOR Complies with Section 3.77: YES

3.78 Inspection Certificate (NFPA 1901 Compliance)

A third-party inspection certificate for the aerial device shall be furnished upon delivery of the aerial device. The purpose of this NFPA 1901 compliance inspection shall be to serve as proof to the customer that all applicable standards have been met or exceeded by the responsible aerial manufacturer. The following objectives shall be achieved as a result (this listing shall not be construed as being all inclusive):

- a. Ensure that understanding of all parties respective responsibilities have been addressed by the actual referencing of NFPA 1901 and the amendments in these specifications and the purchase contract and documentation.
- b. Ensure that only structural materials comply with appropriate standards and codes, are used for construction.
- c. Ensure that applicable standards of design and manufacture have been met or exceeded.
- d. Ensure that Safety Factors have been met or exceeded where required.
- e. Ensure that applicable standards for testing and inspection have been met or exceeded by personnel with the appropriate qualifications, experience, and certifications.
- f. Ensure that where applicable; components, equipment, and loose equipment carry the appropriate characteristics, classifications, and I or certifications.
- g. Ensure that in general and whole, all applicable requirements set forth in NFPA 1901, newest revision; and those codes, standards, and specifications referenced by said; are met, exceeded, and I or addressed.

CONTRACTOR Complies with Section 3.78: YES

3.79 Illustrated Aerial Operation/Maintenance Manuals

Four (4) thumb drives and two (2) hard copies containing operation and maintenance manuals shall be provided at the time of delivery. These manuals shall be written in a "step by step" format for ease of reference.

- a. Information included in the manuals shall include, but no be limited to the following:
- b. Manufacturer Defined Terminology; (to help impart full understanding of terminology used in the manuals)
- c. Safety Information & Warnings; (to warn of dangerous conditions I personnel injury I equipment damage)
- d. Complete Rated Capacities Information; (allowable loads & GPM flows)
- e. Complete & Detailed Operating Systems Descriptions; (to impart understanding of operation I capabilities I working principles)

- f. Instruction for Manufacturer Recommended Deployment & Operation of All Systems During All Specific Conditions; {to ensure safer- more efficient operation of the aerial device) Current, Actual Illustrations of Aerial Components Throughout the Manual; (to aid in location of specific components, being addressed in the manual)
- g. Complete Maintenance Instructions I Methods I Materials /Intervals I And Inspections.

CONTRACTOR Complies with Section 3.79: YES

3.80 Special Tools Package

Special tools required for periodic maintenance of the aerial device shall be provided with the apparatus at the time of delivery. These tools shall be as follows:

- a. One (1) 1/2" drive, torque wrench
- b. One (1) 1/2" drive, 15/16" socket
- c. One (1) combination 1/2" x 9/16" box end wrench
- d. One (1) set of allen wrenches (5/64", 3/32", 1/8", 5/32", 3/16", 7/32", 1/4")

The special tools package above shall be provided as standard equipment by the aerial manufacturer.

CONTRACTOR Complies with Section 3.80: YES

3.81 Manual Rotation Drive Tool

As required by NFPA 1901, newest revision, one (1) manual rotation drive tool shall be provided to rotate the turntable in the unlikely event of power loss. This drive tool shall be provided as standard equipment, and shall not be "optional" equipment.

CONTRACTOR Complies with Section 3.81: NO

3.82 Aerial Device Instruction Provided

3.82.1 A factory authorized aerial apparatus engineer shall instruct the fire department personnel in the safe operation and maintenance of the entire apparatus. The instruction shall last for a period of five (5) days. During the instruction period, users shall observe operation of the aerial device as well as themselves operating it. Instruction/demonstration shall take place covering the following items (this list is not intended to be all inclusive).

- a. Aerial rated load capacity /load minder.
- b. Acceptable aerial operational performance parameters and characteristics.
- c. Proper aerial device deployment conditions.
- d. Safety during aerial operations.
- e. Aerial device care and maintenance.
- f. Use of the operation and maintenance manuals.

3.82.2 The instruction period and content shall be so designed to provide department personnel with basic fundamental aerial training as recommended by the aerial manufacturer. This training period may include a "classroom" type of instruction as well as "hands-on" training of the apparatus. Training aids utilized by the instructor, which are to be considered in addition to the operations and maintenance manuals are encouraged. Upon completion of the training course, all attendees will have been provided the proper instructional training, which shall provide the operational knowledge necessary in order to feel comfortable with the aerial operations and continue additional training as set forth by the department training officer.

CONTRACTOR Complies with Section 3.82: YES

3.83 Twenty Year Aerial Warranty

The aerial device shall have a twenty (20) year warranty, parts and labor. The warranty shall be provided with the apparatus at the time the apparatus is placed in service by Riverside County Fire.

CONTRACTOR Complies with Section 3.83: YES

3.84 Aerial Corrosion Protection

- 3.84.1 The majority of the internal structural members of the aerial structure shall be 100% concealed from oxygen. Totally concealed members are not subject to the possibility of corrosion attacking the metal from the interior. Structural tubing of the aerial structure that contains drilled holes or is exposed to outside air and elements shall be protected to eliminate the possibility of corrosion occurring from the inside of the tube.
- 3.84.2 The interior of exposed tubing shall be coated with a compound labeled NWAC 120-4. The application of the coating shall be applied after the welding process of the aerial structure is complete and shall cover 100% of the interior of the structural tube.
- 3.84.3 NWAC 120-4 is an effective cavity corrosion inhibitor that provides long-term protection for both ferrous and non-ferrous metals. The resulting water-repellant, flexible, air-dried film has a remarkable crevice penetrating, spreading and clinging characteristic. The product dries to a nearly transparent film and provides maximum corrosion protection for all void spaces subject to humidity and condensation.
- 3.84.4 Use of this process shall constitute a 20-year internal corrosion warranty for the aerial structure.

CONTRACTOR Complies with Section 3.84: YES**3.85 NFPA Safety Factor and Rated Capacities**

The methodology, definitions, testing, and criteria used by the aerial manufacturer to determine the preceding and following Safety Factor and Rated Capacity of the aerial device shall be in strict compliance with the definitions of such, as found in NFPA 1901, newest edition and these specifications.

CONTRACTOR Complies with Section 3.85: YES**3.86 Aerial Device Safety Factor & Rated Capacity**

The County desires to purchase with these specifications, an aerial device with a minimum 2.0:1 Safety Factor as required and defined by NFPA 1901 newest edition. Therefore, the aerial manufacturer shall hereby certify, by submitting a bid for these specifications; that the aerial device meets or exceeds the following requirements. The design stress or primary stress within all structural load supporting members of the aerial device shall not exceed 50% of the minimum as welded yield strength of the material based on the combination of the dead load of the aerial + the rated capacity of 750 LBS. at the tip of the aerial; at a 90 degree angle to ladder centerline; with the structural load supporting members of the aerial device at either; an ambient temperature of 75 degrees F or an elevated temperature of 350 degrees F- thereby exhibiting a minimum 2.0:1 Safety Factor in all feasible operational conditions. These capabilities shall be valid and true when the apparatus is deployed in the unsupported configuration, based upon 360 degree rotation, up to full extension, and at any degree of elevation (-11 to +72) that the aerial can achieve.

CONTRACTOR Complies with Section 3.86: YES**3.87 Aerial Device Safety Factor Service Life**

The County desires to purchase with these specifications, an aerial device with a safety factor that remains NFPA compliant and constant throughout the life of the aerial device. The Safety Factor of every structural load bearing member in the aerial device shall remain above 2.0:1 for a "Safety Factor Service Life" of up to 20 years minimum.

CONTRACTOR Complies with Section 3.87: YES**3.88 Tiller Aerial Construction Standards**

- 3.88.1 The aerial ladder shall be of the mid mount design with the turntable mounted directly behind the cab of the apparatus, and the ladder extending toward the rear of the apparatus when in the bedded position.
- 3.88.2 The aerial ladder shall be comprised of four sections and shall extend to a nominal height of 100' at 72 degrees, measured in a vertical plane from the top rung of the fly section (not including the egress) to the ground.

CONTRACTOR Complies with Section 3.88: NO

3.89 Operational Envelope/Reach

The aerial ladder shall have an operations range of -5 degrees elevation to +72 degrees elevation. The aerial device shall have a minimum horizontal reach of 100' and shall be measured from the turntable centerline to the outermost rung on the outermost fly section, with the aerial at full extension and at 0 degrees elevation. Reach and height shall be measured in accordance with the requirements set forth in NFPA 1901, latest edition.

CONTRACTOR Complies with Section 3.89: NO

3.90 Structural Material

3.90.1 The primary load support members of the ladder shall be constructed of certified 70,000 PSI yield strength (minimum) steel tubing. Each section shall be trussed diagonally, vertically, and horizontally using welded steel tubing. All critical points shall be reinforced for extra rigidity and to provide a high strength to weight ratio.

3.90.2 All ladder rungs shall constructed of A606 Type 4 certified steel tested per ASTM A370 standards. A606 Type 4 exhibits superior corrosion resistance over regular carbon steel as a result of the development of a protective oxide film on the on the surface. A606 Type 4 shall meet a minimum 6.0 Atmospheric Corrosion Factor. The ladder rungs shall be round and welded to each section utilizing "K" bracing for torsional rigidity.

CONTRACTOR Complies with Section 3.90: YES

3.91 Lifting Eyes

Two (2) lifting eyes will be provided at the end of the ladder fly section. The lifting eyes will give the fire department the capabilities to perform short haul and high point rescuer systems from the ladder fly section. The lifting eyes shall be third party tested and certified with the device for a minimum capacity of 250lbs each. The rating will include a 2:1 safety factor. The lifting eyes shall not be mounted onto the egress section at the tip of the ladder.

CONTRACTOR Complies with Section 3.91: YES

3.92 Primary Dimensions

3.92.1 The inside dimensions of the ladder shall be as follows: (Minimum width)

- a. Base Section – 42.25”
- b. First Fly Section – 34”
- c. Second Fly Section – 27.50”
- d. Last Fly Section - 22”

3.92.2 The height of the handrails above the center line of the rungs shall be as follows: (Minimum height)

- a. Base Section - 29.25"
- b. First Fly Section – 24"
- c. Second Fly Section – 20.25"
- d. Last Fly Section – 17.25"

CONTRACTOR Complies with Section 3.92: NO

3.93 Rung Coverings

Each rung shall be covered with secure, heavy duty, deep serrated rubber sheathing. Attachment of the sheathing to the rung shall be by mechanical means and an adhesive application. Under no circumstance shall the rung covers turn when a rung is at ambient temperature (75 degrees F) or at an elevated temperature (350 degrees F); there shall be No Exception to this requirement for the safety of persons climbing the ladder sections. The sheathing shall be easily replaceable if the rubber becomes worn, however the rung covers shall be designed, constructed, and installed with lifetime service as the objective.

CONTRACTOR Complies with Section 3.93: NO

3.94 Bolt-on Egress

- 3.94.1 A bolt on removable egress shall be installed on the tip of the fly section. Only certified structural fasteners shall be utilized to attach the egress to the tip of the fly section. Additionally, the fasteners shall be stainless steel. This design shall allow for easy replacement should the egress become damaged during rescue operations. This shall prevent the department from experiencing serious downtime, as is common with welded on egresses. For this reason, a design that allows the egress to be welded to the fly section shall not be acceptable.
- 3.94.2 When the ladder is at 0 degrees' elevation, the rung(s) on the egress shall be on a plane of -11 degrees. This shall provide a smoother transition onto the ladder when it is at a high angle elevation.
- 3.94.3 Additionally, the egress shall have handrails that match the fly section handrails for an unnoticeable transition between the two. The egress handrails shall have a radius design at the tip to eliminate two corner joints, increase strength, and provide a professional appearance.
- 3.94.4 The rung(s) on the egress shall be held to the same design load criteria as the rungs of the aerial ladder sections. This shall mean that each egress rung shall be able to support a design load of 750 lbs. Minimum, distributed across the rung, as specified in NFPA 1901, newest revision. This shall be more than that required by the afore mentioned standard. No Exceptions shall be allowed to this requirement.
- 3.94.5 The bolt on egress color shall meet current NFPA requirements.

CONTRACTOR Complies with Section 3.94: NO

3.95 Turntable

The turntable shall be designed in such a manner as to allow a generous working area, regardless of the position of the aerial. The turntable shall allow ample working room, within the perimeter hand-rail with the aerial positioned at maximum elevation. The turntable shall also be designed to allow for the most efficient use of space on the apparatus body as follows:

- a. The turntable shall be a minimum of 95" side to side and 95" forward to aft. It shall be covered with Treadbrite decking to allow the walking surface to shed liquids with unparalleled ease and complies with NFPA intent, so as to provide secure footing for the operator in all weather conditions.
- b. A downward lip shall "skirt" the turntable decking around the entire circumference to provide protection from hazards.
- c. The three handrails shall each be of one piece construction and provide large sweep corners at the edge of the turntable. Each shall be 42" high and be covered with deeply serrated rubber sheathing for maximum grip in all environments. The handrails shall be installed around the rear 180 degree perimeter of the turntable for operator and personnel safety. Each individual handrail shall be secured to the turntable by the use of two (2) minimum 5/8" anchor bolts on the underside of the turntable. Additionally, chrome plated stanchions with rubber gaskets shall be provided on the top surface of the turntable where each railing meets the decking surface.
- d. A stainless-steel swing arm which swings inward and upward shall, be installed in the two gaps between the handrails. These swing arms shall be permanently attached at one end.
- e. All hoses and electrical lines shall be routed under removable covers so they do not present a tripping hazard. The covers shall also be designed to prevent damage from occurring to these components. Likewise, the center of the turntable shall have a removable step cover to prevent tripping hazards as well as provide for easier transition to the first rung of the aerial ladder.

CONTRACTOR Complies with Section 3.95: YES

3.96 Aerial Pivot Pins

The aerial device pivot pins shall be located on the turntable and shall attach the aerial device base section to the turntable. To maintain a suitable safety factor, the pivot pins shall be composed of certified structural steel, thereby ensuring structural integrity. In the interest of safety, the pivot pins shall be located as low as possible, and shall be at the aerial device base rails. This shall keep the pivot points away from the areas where persons egressing to and from the aerial base section, might place their hand(s). Aerial pivot pins shall be installed with a

means provided to keep the pins in place. The design shall not inhibit the pins from being removed by a trained mechanic.

CONTRACTOR Complies with Section 3.96: YES

3.97 Turntable Work Lighting

The turntable shall be lighted for night time operation as follows:

- a. Minimum of three (3) LED work lights which shall be automatically activated by the aerial master switch (day or night). The work lights shall be so positioned that the light shall be directed toward the decking.
- b. The lights shall have integral chrome hoods to keep light from glaring upward into the operator's eyes.
- c. An additional light shall be recess mounted in the front access door of the control stand.
- d. The turntable shall have LED strip lighting incorporated into the handrailing. The handrail lighting shall come on with the battery switch in the "ON" position and shall turn off when the parking brake is released.

CONTRACTOR Complies with Section 3.97: YES

3.98 Fly Section Folding Steps

The fly section on the aerial shall have two (2) sets of folding steps incorporating toe stops with a 2" flange and no-skid surface. The steps shall be installed approximately 42" and 70" below the top rung. When deployed, the stepping surfaces shall be perpendicular to the ladder base section. The steps shall be as large as design shall permit but far enough apart to allow clearance for a charged 3" water hose. The steps shall be easily foot actuated by a firefighter wearing turnout boots.

CONTRACTOR Complies with Section 3.98: YES

3.99 Aerial Tip Floodlights

Two (2) Federal COMLS15K-NH LED floodlights shall be provided, one (1) light to be mounted on the left and right tip of the ladder. Each light shall be provided with a switch and operated independently from the turntable. Provide impact guards whenever lights are susceptible to damage from roof operations.

CONTRACTOR Complies with Section 3.99: YES

3.100 Heavy Duty Ladder Travel Support

A heavy-duty ladder rest shall be provided for support of the ladder in the travel position. The travel support shall be fabricated from heavy duty steel tubing. The travel support shall be designed to be easily removable to allow for ease of maintenance and repair when necessary. The base section of the ladder shall contain stainless steel scuff plates shall where the ladder comes into contact with the ladder support. An indicator light shall be provided on the turntable to indicate when the ladder is aligned with the travel support and may be lowered into it. The ladder rest shall be attached to the torque box for added stability. The ladder rest shall be illuminated for night time operation. The illumination light shall automatically turn on with the aerial master switch.

CONTRACTOR Complies with Section 3.100: YES

3.101 Bed Zone Indicators

There shall be fixed bed zone indicators mounted on the deck and the turntable.

CONTRACTOR Complies with Section 3.101: YES

3.102 Ladder Hold-Down Mechanism

There shall be a hold-down mechanism install on each side of the ladder travel support that shall keep the aerial structure from bouncing and banging due to road hammer. The system shall be designed in such a manner as to automatically unlatch the hold-downs when the aerial hydraulic system is activated. The hold-downs shall automatically lock in the road position when the hydraulic system is shut down.

CONTRACTOR Complies with Section 3.102: YES

3.103 Elevation System

- 3.103.1 Two (2) double acting lift cylinders shall be utilized to provide smooth precise elevation from 5 degrees below horizontal to 75+ degrees above horizontal. The lift cylinders shall have a 6" internal diameter (bore) and a 2.5" solid cylinder rod. The lift cylinders shall be equipped with integral holding valves located on the cylinder to prevent the unit from lowering should the charged lines be severed at any point within the hydraulic system.
- 3.103.2 The lowering of the ladder shall be controlled by a pressure limiting valve so as to limit the downward pull of the ladder when it is bedded. Both raising and lowering functions shall be influenced by flow compensation which shall maintain ladder tip speed within the design speed regardless of load, angle, or extension. Ladder tip speed shall be decelerated above 65 degrees in order to reduce "tip-lash". Ladder lowering shall be controlled on the down motion to prevent the cylinders from completely retracting, thus allowing a cushion of oil for continuous ladder load readout.
- 3.103.3 Elevation cylinder upper and lower pivot pins shall be installed with a means provided to keep the pins in place. The design shall not inhibit the pins from being removed by a trained mechanic.

CONTRACTOR Complies with Section 3.103: YES**3.104 Extension/Retraction System**

- 3.104.1 A full hydraulic powered extension and retraction system shall be provided using two sets of siamese hydraulic cylinders and cables. Each set shall be capable of operating the ladder in the event of a failure of the other. The extension cylinders shall each have a 3.5" internal diameter (bore) and a 1.5" diameter solid rod. Extension and retraction of the telescopic sections shall be internally limited within the cylinders, eliminating excess strain on the cables, sheaves, and ladder structure. Each of the cylinder, cable, and sheave assemblies shall be completely independent of the other, so as provide a safety factor wherein a failure of one assembly will not affect the function and operation of the other. The extension cylinders shall be equipped with counter balance holding valves to synchronize the cylinders for smoother operation and prevent the unit from retracting should the charged lines be severed at any point within the hydraulic system.
- 3.104.2 The reeling of the cable shall be such as to provide synchronized, simultaneous movement of all sections from full extension to full retraction. All pulleys and sheaves shall be enclosed as an added safety feature as well as to prevent personnel on the ladder from becoming entangled in them.

CONTRACTOR Complies with Section 3.104: NO**3.105 Certified Cable Swaged Shackles**

All swaged shackles ends shall have a certification test from the manufacturer of the assembly.

CONTRACTOR Complies with Section 3.105: YES**3.106 Wear Pads/Bearing Surfaces**

- 3.106.1 Nylon wear pads impregnated with molybdenum disulfide and high in molecular weight shall be used between the telescoping sections for maximum weight distribution, strength, and smoothness of operation. This impregnation shall provide a lubricating function. Stainless steel adjustment screws shall be provided on the wear pads to permit proper side tension.
- 3.106.2 Stainless steel adjustment screws shall be provided on the wear pads to permit proper side tension. Plates shall be installed on the side(s) of the slide pads where adjustment screws come into contact with them. No Exceptions shall be allowed to this requirement to keep the adjustment screws from embedding themselves into the pads which may cause the pad to crack and fail. The manufacturer shall provide one (1) set of replacement wear pads.

CONTRACTOR Complies with Section 3.106: YES

3.107 Retraction Safety System

An integral part of the extension/retraction system shall be a safety system to prevent injury to personnel on the end of the fly section while the ladder is being retracted. This system shall be designed in such a manner as to prevent retraction of the aerial device any time the folding steps at the end of the fly section are in overlap with the rungs of another section. When the steps are in an overlap condition, retraction shall only be accomplished by an operator at the primary control station depressing and holding a momentary switch while the retraction control is operated.

CONTRACTOR Complies with Section 3.107: NO

3.108 Rotation Bearing

- 3.108.1 A 44-inch diameter external tooth, swing circle bearing shall be used for the rotation system. The bearing shall provide 360-degree continuous rotation. The bearing shall be designed specifically for the aerial device in lieu of the aerial device being designed to accommodate a particular bearing.
- 3.108.2 The turntable shall be bolted to the bearing using forty (40), SAE grade 8, .625" diameter bolts. The bearing shall be bolted to the base support structure with sixty (60), Grade 8, .625" diameter bolts. Welding on the bearing in any manner shall not be acceptable.
- 3.108.3 The turntable base and the torque box bearing plate surfaces that contact the bearing shall be machined to prevent loading the bearing when the attaching bolts are brought to full torque. Machining of the surfaces shall be done after all welding to assure no further distortion of the material.
- 3.108.4 Shims shall not be acceptable as they shall reduce the surface contact area significantly thereby causing a concentration of forces at the shims.

CONTRACTOR Complies with Section 3.108: NO

3.109 Bolt Torquing From Top Side

All rotation bearing bolts shall be able to be torqued from the top side of the turntable without the bolt or nut being held under the turntable by a person. This shall require a design that shall stop all chance of the bolt "spinning" while torque is being applied to the fastener. Application of Loctite or a similar compound alone, without any other means provided to hold the fastener; shall not be acceptable. Additionally, this design feature shall not incorporate drilling, bending, welding on, or in any way; modifying the structural fastener, nut, or washers.

CONTRACTOR Complies with Section 3.109: YES

3.110 Rotation Gear Reduction Box

- 3.110.1 A hydraulically driven planetary gear box with a drive speed reducer shall be used to provide infinite and minute rotation control throughout the entire rotational travel. The Rotation gear reduction box shall be installed on the top side of the turntable so that it is easily accessible, yet it shall be installed so that it does not provide an obstruction or tripping hazard to persons on the turntable. Specifically, it shall be installed toward the front of the turntable, under the aerial ladder base section. Under no circumstance shall the gear box present any interference with the aerial device, even at low elevations.
- 3.110.2 A spring applied, hydraulically released disc type swing brake shall be furnished to provide positive braking of the turntable assembly.
- 3.110.3 Provisions shall be made for manual operation of the rotation system should complete loss of hydraulic power occur. These provisions shall include a hand crank supplied with the unit.
- 3.110.4 The hydraulic system shall be equipped with pressure relief valves which shall limit the rotational torque to a nondestructive power. All moving parts of the rotation gear reduction box shall be enclosed or under the turntable decking so that no safety hazards are present.

CONTRACTOR Complies with Section 3.110: YES

3.111 Rotation Interlocking System

- 3.111.1 The aerial device shall be equipped with a rotation interlock system to prevent the ladder from being rotated to any side where the stabilizers are not sufficiently extended to provide for the full tip load rating.
- 3.111.2 The system shall monitor the stabilizers for extension. When a stabilizer is not sufficiently extended (short jacked) to provide full tip load rating, the system shall prevent the aerial from being rotated more than 12 degrees past the front or rear centerline into the short-jacked side of the apparatus.
- 3.111.3 Once activated, the system shall prevent the aerial from being rotated past the front or rear corner of the apparatus where a stabilizer is not properly deployed.
- 3.111.4 A slowdown feature shall be built into the rotation interlock system. When the aerial is operating in a short-jacked mode, the rotational speed shall be automatically reduced, by approximately 50%, when the aerial is rotated to within approximately 10 degrees of the front or rear centerline of the apparatus. The rotational speed shall remain reduced throughout an arc of approximately 20-degrees over the front or rear of the apparatus, regardless of the direction of the rotation movement.
- 3.111.5 The rotation function shall automatically stop when the aerial approaches the front or rear corner area of the short-jacked side of the apparatus.
- 3.111.6 The rotation interlock system shall allow for normal operation on the side of the apparatus where the stabilizers are sufficiently extended for full tip load rating.
- 3.111.7 Whenever the manual override is activated and aerial is rotated into the short-jack side of the apparatus, the rotation speed shall be automatically reduced by approximately 50%. All secondary controls, other than those on the main pedestal, shall be locked out and become inoperative when the rotation interlock override is activated.

CONTRACTOR Complies with Section 3.111: YES

3.112 Apparatus Body Damage Control Interlock System

- 3.112.1 A safety feature shall be included in the aerial operational system that minimizes the possibility of damage to the apparatus body at all angles for all standard (non-override) operational modes.
- 3.112.2 The system shall automatically stop the downward movement of the aerial at a preset angle of elevation unless the aerial has been rotated left or right, from the center of the ladder support. Once this rotation point is reached, full range downward movement (to minus 8 degrees) shall be allowed.
- 3.112.3 The aerial manufacturer shall determine and set the angle of elevation where downward aerial movement is stopped. The highest point of an apparatus, in relation to the distance from the turntable, shall be used to determine the preset elevation angle stopping point.
- 3.112.4 The system shall also minimize the possibility of accidental damage to the apparatus body from aerial rotation whenever the aerial elevation is below the preset elevation angle stopping point.
- 3.112.5 Rotational speed shall be reduced by approximately 50% when the aerial is rotated to within a minimum of 10 degrees of a body avoidance stopping point. Aerial rotation shall automatically stop before the aerial contacts the body of the apparatus.
- 3.112.6 The body damage interlock system shall have no effect on aerial operation when the aerial is raised above the preset downward movement stopping point.

CONTRACTOR Complies with Section 3.112: YES

3.113 Aerial Stow Operation Interlock System

A safety feature shall be included in the aerial operational system that limits the possibility of damage to the apparatus when stowing the aerial. The stow-zone shall be approximately 2-degrees of rotation to the left and right side of the center of the aerial bed support. Once this stow-zone envelope is attained and aerial is fully retracted, downward movement of the aerial shall be allowed for proper positioning into the bed-support. An indicator light shall be located at the turntable control station to inform the aerial operator when the stow-zone envelope is attained.

CONTRACTOR Complies with Section 3.113: YES

3.114 Torque Box

A "torsion box" sub-frame shall be installed on the tiller trailer frame rails, integral with the stabilizers. The torque box shall be constructed of .375" steel plate with the exception of the turntable area which shall be .50" steel plate. The standard dimensions of the torque box shall be 43" wide x 26" high x 248" long, these dimensions may vary. The torque box sub-frame assembly shall be capable of withstanding all torsional and horizontal loads when the unit is on the stabilizers. The torque box shall be bolted in place to the chassis frame rails using twenty-four (24) .62" SAE grade 8 bolts with nuts. The torque box shall have a section modulus of 516.9 In³ and a resistance to bending moment of 18,611,273 inch pounds.

CONTRACTOR Complies with Section 3.114: YES

3.115 Front Stabilizers, Tiller

- 3.115.1 One (1) set of stabilizers shall be installed for stability. The set of stabilizers shall have a minimum of 16' spread and shall be of an Extending Box Beam "H" Style.
- 3.115.2 The stabilizers shall be located in the forward section of the tiller trailer. The stabilizers shall be an integral part of the torque box. A heavy-duty undersling assembly shall attach the stabilizers to the front portion of the torque box. The undersling assembly shall be constructed of 6" x 10" x 1/2" square tubing, 1/4" & 3/8" steel gussets and 1/2" mounting plates. The overlap of the undersling and the torque box shall be a minimum of 24". The bottom side of the tubes shall contain a truss assembly that shall maximize the torsional strength of the undersling assembly.
- 3.115.3 The stabilizers and torque box shall be attached to the trailer frame in six (6) separate locations, three (3) each side of the apparatus, utilizing 1/2" steel plate. The mounting plates shall be located directly under the front stabilizers utilizing eight (8) grade 8 .625" size bolts per side and under the front torque box area utilizing six (6) grade 8 .625" bolts per side.
- 3.115.4 The stabilizers shall be of the double box tube design with jack cylinders that have a 5" internal diameter (bore) and a 2.5" diameter solid cylinder rod. The jack cylinders shall be equipped with integral holding valves which shall hold the cylinders either in the stowed or the working position should a charged line be severed at any point within the hydraulic system.
- 3.115.5 Vertical jack cylinder rods shall be fully enclosed by a telescoping inner box to protect the cylinder rods, seal glands and pistons against damage from nicks, abrasion, and chrome damage. All vertical stabilizer cylinders shall be removable through the top of the box tube. Vertical stabilizers that require cylinders to be removed from the bottom shall not be acceptable. The inner double box system shall be further designed to stabilize the column load imparted upon the cylinder rod, thereby also protecting against damage which may occur from lateral loading which may be caused by side slopes, shifting or sliding of the apparatus on icy or unstable surfaces, sudden sinking of one or more jack pads, or on scene collision while the aerial device is deployed.
- 3.115.6 The stabilizers shall be connected to the hazard light circuit to warn the driver if they are not stowed when the parking brake is released.

CONTRACTOR Complies with Section 3.115: YES

3.116 Stabilizer Stroke

The stroke of the stabilizers shall be a minimum of 25". The stabilizer pad shall be maintained at a stored height of approximately 12" to 15" (dependent on required ground clearance and angle of departure) resulting in a minimum ground penetration of 10" or greater.

CONTRACTOR Complies with Section 3.116: YES

3.117 Hot Dip Galvanizing

The extending front stabilizer beams, inner jack tubes, and stabilizer pads shall be wheel-a-braided to remove any mill scale, or contamination prior to galvanizing. Following this preparation, the individual components shall be hot dip galvanized. The galvanizing process shall require that the entire assembly be completely submerged. Following the galvanizing process, the surface shall be ground smooth to remove dross. This preparation shall

provide maximum protection for these critical components. No exceptions shall be allowed to this requirement due to stabilizers being exposed to salt spray and road debris.

CONTRACTOR Complies with Section 3.117: NO

3.118 Stabilizer Extension System

Extension of the stabilizer horizontal beams shall be activated by dual extension cylinders which shall each have a 2" internal diameter (bore) and a 1.25" diameter cylinder rod. The extension cylinders shall be totally enclosed within the extension beams to prevent damage to the rod and hoses. The extension beams shall be 6.00" x 8.00" x .375" wall steel tubing with a .62" steel plate welded to the top and bottom of each beam.

CONTRACTOR Complies with Section 3.118: YES

3.119 Wear Pads/Bearing Surfaces

- 3.119.1 Nylon wear pads impregnated with molybdenum disulfide and high in molecular weight shall be used between the stabilizer housing assembly and the extension tube for maximum smoothness of operation.
- 3.119.2 Two (2) Nylatron wear pads shall be installed in each stabilizer extension system. There shall be one wear pad located on the top back portion of the extension tube assembly that shall glide on the inner wall of the top housing tube wall. There shall be an additional pad located on the inner wall of the bottom housing tube wall that shall separate the bottom side of the extension tube and the bottom wall of the housing tube. The pads shall be installed in such a manner as to reduce friction for ease of operation and to reduce the amount of metal to metal contact.
- 3.119.3 Each stabilizer down-jack housing tube shall contain four wear pads, one (1) on each side of the tubes.

CONTRACTOR Complies with Section 3.119: YES

3.120 Mechanical Stabilizer Locks

- 3.120.1 Each vertical jack cylinder shall be equipped with a mechanical pin lock to hold it in the working position. The pin shall be zinc plated and shall have a yellow dipped vinyl handle for increased visibility. The locking system shall be incorporated with the protective tubing used to prevent damage to the jack cylinder rod. The inner and outer jack tubes shall be double thickness in the pinning area for additional strength.
- 3.120.2 Safety is of the utmost concern. It is the intent of the fire department to purchase an apparatus that utilizes mechanical stabilizer locks in addition to the hydraulic holding valves integral to the stabilizer jacks. Should a mechanical failure occur with the stabilizer system or hydraulic seepage cause a stabilizer to drift, the mechanical locks shall keep the desired "stabilizer set-up" intact without compromising aerial capabilities or safety. There shall be no exception allowed to this requirement.

CONTRACTOR Complies with Section 3.120: YES

3.121 Stabilizer Lights

- 3.121.1 **Stabilizer Work Lights**
Federal Signal Commander 750-SQ LED flood lights shall be provided at each stabilizer location to illuminate the surrounding area. The lights shall be activated by the aerial master switch.
- 3.121.2 **Stabilizer Arm Warning Lights**
Two (2) Federal Signal Micropulse LED red flashing lights shall be mounted below each stabilizer beam, facing front and rear. These warning lights shall be activated by the aerial master switch.
- 3.121.3 **Stabilizer Cover Warning Lights**
There shall be one (1) Whelen M6 Liner Super-LED Surface mount, Part # M6RC LED flashing light installed on each extending stabilizer cover panel. These lights shall be red in color with a clear lens and activated by the aerial master switch.

CONTRACTOR Complies with Section 3.121: YES

3.122 Manual Angle Level System, Tiller

The fire truck leveling system shall consist of two manual angle level gauges located at each stabilizer control station. One of the gauges shall measure the side to side angle of the apparatus and the other shall measure the fore to aft angle of the apparatus. The gauges shall have a sight bubble that shall measure the angle in two degree increments.

CONTRACTOR Complies with Section 3.122: YES

3.123 Auxiliary Stabilizer Pads

An auxiliary pad for additional load distribution on soft surfaces shall be supplied for each stabilizer. The stabilizer pads shall have an aluminum "U" shaped slot installed on the pad to allow pad to be placed on the stabilizer prior to ground engagement to aid in positioning the stabilizer pad.

CONTRACTOR Complies with Section 3.123: YES

3.124 Cradle Interlock System

A cradle interlock system shall be provided to prevent the lifting of the ladder from the nested position until the operator has positioned all of the stabilizers in a load supporting configuration. A switch shall be installed at the cradle to prevent operation of the stabilizers once the aerial has been elevated from the nested position. There shall be a manual override switch that allows the ladder to be lifted from the cradle when the aerial is set up in the "Short-Jacked" configuration.

CONTRACTOR Complies with Section 3.124: YES

3.125 Ground Control Station

3.125.1 A control station shall be located in close proximity to the stabilizer controls, on each side of the tiller body, in an easily accessible area. The control panel shall be illuminated for night time operation. The following items shall be furnished at the control console, clearly identified and located for ease of operation and viewing:

- a. Individual stabilizer down indicator lights
- b. Aerial PTO engaged indicator light
- c. High idle switch with indicator light
- d. Emergency hydraulic pump control with indicator light
- e. Fifth wheel interlock light

A weather proof compartment shall be furnished behind the control panel and shall contain the aerial circuit breakers, interlock components and control circuit distribution terminals.

3.125.2 Hydraulic Stabilizer Controls

- a. The controls shall be designed to allow the stabilizers to be operated independently so that the vehicle may be set up in a restricted area or uneven terrain. No Exceptions.
- b. An automatic diverter valve shall be provided in conjunction with the stabilizer controls as a safety device. The diverter valve shall allow the hydraulic fluid to flow either to the stabilizer circuit or the turntable and ladder circuit, but not both simultaneously.
- c. A stabilizer deployment warning alarm shall be provided at each stabilizer to warn personnel. The warning alarm shall deactivate only when all stabilizers are in the load supporting configuration.
- d. There shall be a manual override switch that allows the ladder to be lifted from the cradle when the aerial is set up in the "Short-Jacked" configuration.

CONTRACTOR Complies with Section 3.125: YES

3.126 Diverter Valve

There shall be an automatic electric over hydraulic three (3) position diverter valve located at the left side of the apparatus. This diverter valve will divert hydraulic fluid to either the aerial ladder controls or the outrigger controls.

- a. To prevent accidental operation of the ladder prior to the outrigger being set properly, the diverter valve will only allow hydraulic fluid to the outrigger controls until the outriggers are set properly.

- b. To prevent accidental operation of the outrigger system during the aerial ladder operation, the diverter valve will only allow hydraulic fluid to the ladder controls when the aerial device is raised from the aerial travel support. In the event of electrical failure, the operator will be able to move the diverter valve to the ladder or outrigger position for continuous uninterrupted operation.

CONTRACTOR Complies with Section 3.126: YES

3.127 Turntable Control Console

- 3.127.1 The turntable control console shall be located on the left-hand side of the turntable (driver's side of the apparatus). The console shall be illuminated for night time operation and shall have a hinged cover that hinges to the right side. Pressurized gas filled cylinder shall be furnished on cover to hold it in the open position. The gas filled cylinder shall assist in closing the cover automatically when it is positioned over center.
- 3.127.2 The console surface shall be angled toward the operator so controls may be viewed and operated ergonomically. Rubber bumpers shall be provided so that when the control console lid is closed, the lid and the control panel will be protected from each other (no metal to metal contact).
- 3.127.3 Three (3) handles for the ladder hydraulic functions (elevation, rotation, and extension) shall be installed at the control console. The controls shall be manual for safety and durability reasons. A cast alloy plate with openings cast into it for the ladder hydraulic function levers to extend through, shall be provided to encircle the aerial ladder hydraulic function levers. The function of each control lever shall be cast into the plate under the appropriate lever.
- 3.127.4 The controls shall be capable of being operated independently or simultaneously with a gloved hand. The speed of movement caused by moving any control shall be minimally affected when multiple controls are moved.
- 3.127.5 A systems engagement control shall be installed at the control pedestal. The control shall energize the hydraulic system for ladder function and provide flow of hydraulic fluid to the master valve bank.
- 3.127.6 A dead man foot pedal control at the pedestal control shall be connected to the Hobs hour meter when depressed.
- 3.127.7 Each item provided on the console not labeled from the manufacturer, shall be provided with a permanent cast alloy label. The information on the label shall be stamped or professionally engraved for lasting durability.
- 3.127.8 A hinged door shall be provided on the front of the control console. This door shall be provided with a lift and tum latch. Opening of this door shall allow access to the inner components for inspection purposes. A recessed work light shall be provided in the access door.
- 3.127.9 There shall be a hinged access door provided on the outboard side of the control panel. The door shall be provided with a spring loaded, slotted head latch. The opening shall allow access to the electrical components for service purposes.
- 3.127.10 The following items shall be furnished at the console, clearly identified and located for ease of operation and viewing:
- a. Elevation, Extension and Rotation Controls
 - b. Lighted Push/Pull Button to Deactivate Hydraulic & Electrical System
 - c. Fast Idle Button
 - d. Panel Light Mounted in Cover (LED)
 - e. Rung Alignment light (LED)
 - f. Ladder light Switches (LED)
 - g. Ladder Overload Warning Horn
 - h. System Pressure Gauge (LED)
 - i. LoadMinder
 - j. Emergency Pump Unit Switch and Light (LED)
 - k. Sigtronics jack with push to talk button and weather proof speaker for Kenwood radio.
 - l. Intercom with Controls
 - m. Operators Load Chart

- n. Warning Signs
- o. Auto Ignition Control / Remote Start

CONTRACTOR Complies with Section 3.127: YES

3.128 Hour Meter

There shall be an hour meter installed at the turntable control station, connected to the system engagement control for the aerial. The meter shall register the total hours of aerial use for scheduling periodic maintenance. Hour meter shall only run when dead man pedal is depressed. The hour meter shall be installed through the side of the turntable control console so it can be read without opening the console door.

CONTRACTOR Complies with Section 3.128: YES

3.129 Power Take-Off

The apparatus shall be equipped with a power takeoff (PTO) driven by the chassis transmission and actuated by an electric shift, located inside the cab. The PTO which drives the hydraulic pump shall meet all the requirements for the aerial unit operations. An amber light shall be installed on the cab instrument panel to notify the operator that the PTO is engaged.

CONTRACTOR Complies with Section 3.129: YES

3.130 "Thru-Drive" Hydraulic Pump

3.130.1 The hydraulic system shall be supplied by a pressure compensated, load sensing, variable gallonage type pump. The pump shall provide adequate fluid volume to allow all ladder functions to operate simultaneously, without noticeable loss of speed. The pump shall supply oil only when the ladder is in motion, thereby preventing overheating of the hydraulic oil.

3.130.2 The pump shall be a "Thru-Drive" design. This design shall be provided for applications that require a power source for additional hydraulically operated accessories or tools.

3.130.3 An interlock shall be provided that shall allow operation of the aerial device PTO shift only after the chassis spring brake has been set and the chassis transmission has either been placed in the neutral position or the drive position if the driveline has been disengaged from the rear axle.

CONTRACTOR Complies with Section 3.130: YES

3.131 Hot Shift PTO Generator

The PTO shall be capable of being operated while in "Drive". All generator powered lighting shall turn off when the transmission is put into Drive. The auxiliary A/C units shall continue to work off the generator while in drive.

CONTRACTOR Complies with Section 3.131: YES

3.132 Hydraulic System

3.132.1 The tubing and hoses used in the hydraulic system shall have a high-pressure rating, with the tubing having a minimum burst pressure of 9,600 to 17,400 PSI and the hoses being a minimum of 8,000 to 13,000 PSI.

3.132.2 The hydraulic oil tank shall have:

- a. 50-gallon capacity (approximate) and a dipstick to check the oil level.
- b. The oil fill shall be furnished with a cap that shall act as a ventilator provide clean fresh air into the oil tank and a 40 micron filter to provide positive protection from contaminates.
- c. A magnetic drain plug shall be provided in a low point of the oil tank.
- d. An easily accessible 10 micron replaceable oil filter shall be installed on the hydraulic oil tank.
- e. The hydraulic oil tank shall be furnished with two pick-up tubes, one tube being used for normal operation and the other for emergency operation.
- f. The emergency pick-up tube shall extend further down into the oil tank to provide for some reserve oil in case a hydraulic line is broken.
- g. A sight tube shall also be located adjacent to the hydraulic tank to indicate the fluid level.
- h. An electronic hydraulic fluid level indicator shall be mounted near the pedestal controls.

- 3.132.3 The hydraulic system shall be protected from possible hydraulic pump malfunctions by a relief valve which shall route the excess oil into the oil tank when the pressure in the hydraulic system exceeds 3,500 PSI. The hydraulic control valves shall also be protected by being plumbed to a pressure relief valve to protect them from high pressure.

CONTRACTOR Complies with Section 3.132: YES

3.133 Hydraulic Oil Level Gauge (Electronic)

There shall be an electronic hydraulic oil level gauge supplied and installed on the hydraulic oil system of the aerial. The Gauge shall consist of a sending unit located in the hydraulic oil tank and a four-light gauge display. the gauge shall read:

- a. Level 4 "Acceptable"
- b. Level 3 "Full"
- c. Level 2 "ADD"
- d. Level 1 "Stop Operation"

CONTRACTOR Complies with Section 3.133: YES

3.134 Hydraulic Pressure Gauge

There shall be a pressure gauge at the ground level control station to monitor the hydraulic system pressure. The gauge shall be liquid filled to prevent gauge shock when the hydraulic system is energized. The liquid shall not be vulnerable to freezing in subzero temperatures. Shall be located in L-2.

CONTRACTOR Complies with Section 3.134: YES

3.135 Reservoir Isolation Kit

There shall be 1/4 turn ball valves installed on the hydraulic reservoir to isolate it from the hydraulic system. This shall minimize hydraulic fluid loss when changing filter elements during routine maintenance.

CONTRACTOR Complies with Section 3.135: YES

3.136 Aerial LoadMinder System

3.136.1 There shall be a LoadMinder at the operator's pedestal that indicates the load(s) on the aerial device. The display shall be in the form of an LED illuminated bar graph. The instrument shall be readable in day and night conditions. The display shall be a "real time" display, thereby giving immediate readings to the operator. Additionally, a color-coded bar shall be above and below the actual LED bar graph, to surround the actual reading given to the operator; thereby making the display easier and faster to read. The color-coded bars shall progress from Green to Yellow, and finally to Red. When the LED bar graph illuminates, representing a load on the aerial ladder, the operator need only glance at the display to determine the load applied to the aerial device - in relation to 100% rated aerial device capacity.

3.136.2 The readout given by the display shall be continuous, shall be relative to the NFPA compliant aerial device rated capacity as stated in these specifications, and shall including (but not be limited to) the following items:

- a. Accumulated equipment on any and all ladder sections, or at the tip including manufacturer installed items or customer installed items.
- b. Accumulated personnel on any and all ladder sections or at the tip.
- c. Accumulated ice buildup on any and all ladder sections or at the tip.
- d. The total load suspended from any load lifting I rappelling eye installed by the manufacturer.
- e. Any load reaction from dynamic loads placed on or realized by the aerial structure.
- f. Any water weight or reactionary force realized by the aerial structure.
- g. Any combination of the above items.

3.136.3 The LoadMinder as described shall be designed in such a manner that the operator will not have to refer to an angle indicator, extension tape, or load chart; or be required to guess at, or try to calculate the loads or forces applied to, or interacting with the aerial device at any given time, and in any situation.

This shall be in compliance with NFPA 1901 newest revision. Systems that require the use of a load chart, angle indicator or extension tape shall not be acceptable for safety reasons.

- 3.136.4 The LoadMinder shall be connected to a 100-dba alarm at the operator's control station that shall sound when the ladder load is above the rated capacity. This alarm system shall also be connected to two (2) strobe lights on the end of the base section, one on each side, to provide further notice to the operator of an unsafe condition.

CONTRACTOR Complies with Section 3.136: YES

3.137 Aerial Ladder Load Chart

There shall be a load chart installed at the turntable control console of the aerial ladder. The load chart shall cover the full operating range of the ladder.

CONTRACTOR Complies with Section 3.137: YES

3.138 Emergency Pump

3.138.1 The apparatus shall be equipped with one (1) emergency hydraulic pump electrically driven from the chassis battery system. The emergency pump shall be capable of providing adequate ladder functions to stow the unit in case of main hydraulic pump failure.

3.138.2 Two (2) control switches for this emergency pump shall be provided. One switch shall be installed at each one of the following two (2) control stations; The Turntable Control Console and the Stabilizer Control Station.

3.138.3 Each control shall be a spring loaded momentary switch. A red indicator light shall be mounted adjacent to each switch to indicate activation of the emergency pump.

CONTRACTOR Complies with Section 3.138: YES

3.139 Hydraulic Swivel

The aerial device shall be equipped with a hydraulic swivel which shall connect the hydraulic lines from the hydraulic pump and reservoir to the aerial control bank at the turntable, above the point of rotation. The hydraulic swivel shall allow for 360 degrees of continuous rotation of the aerial device with no loss of speed or capacity in functions.

CONTRACTOR Complies with Section 3.139: YES

3.140 Electrical Swivel

The ladder shall be equipped with an electrical swivel to allow for 360 degrees of continuous rotation of the aerial while connecting all electrical circuits through the rotation point A minimum of thirty-two (32) collector rings shall be provided.

CONTRACTOR Complies with Section 3.140: YES

3.141 Two Station Aerial Communication System

3.141.1 There shall be a two (2) station FRC Always Clear Talking (ACT) or equal digital Intercom Annunciator system installed. The system shall have two (2) remote control panels, an automatically triggered annunciator and two (2) 115 db speakers. The annunciator/speakers shall be mounted in a protected environment. The main control station, located in the operators pedestal control console, shall normally monitor the aerial ladder tip and shall be provided with push to talk capabilities. The station at the ladder tip shall only have provisions for hands free operation.

3.141.2 Provide a separate double shielded aerial ladder communications cable for the Intercom/Annunciator system to minimize noise. The communication and lighting cables shall be routed through the ladder section to the fly tip or secured along the main and fly ladder sections, suspended between the ladder trusses between the top of the main section and bottom of the fly section. The cables shall be provided with a take-up feature to eliminate cable slack. The cables shall be provided with adequate number and size conductors to operate all communications and lighting equipment, etc.

CONTRACTOR Complies with Section 3.141: YES**3.142 Monitor Safety Interlock**

The monitor safety interlock shall prevent the monitor or nozzle from coming into contact with the tiller operator's cab windshield, roof, etc. The safety interlock shall automatically stop the operator from lowering the aerial into the cradle until the monitor has been completely removed, to prevent damage. In addition, the blue bed zone indicator shall not illuminate until the ladder is aligned with the cradle and the monitor has been completely removed.

CONTRACTOR Complies with Section 3.142: NO**3.143 Akron 1494 Ladder Pipe**

There shall be one (1) 1000gpm Akron Model 1494 ladder pipe and ladder pipe storage bracket provided and mounted with the apparatus. Exact mounting location shall be determined at pre-construction.

CONTRACTOR Complies with Section 3.143: YES**3.144 Angle Indicator (Lighted)**

There shall be a liquid filled angle indicator mounted on the base section of the aerial ladder. The indicator shall give accurate elevation in degrees from -20 to +80 degrees in relation to level. The liquid shall be of proper viscosity and composition to stay in liquid form even when exposed to below zero temperatures. Reading of the indicator shall be accomplished by observing the position of a suspended ball in relation to the degrees of elevation as marked on the indicator housing. The indicator shall be lighted for nighttime operations.

CONTRACTOR Complies with Section 3.144: YES**3.145 Extension Indicator**

3.145.1 There shall be numerals affixed to the inside of the handrail of the base section, opposite the turntable control console. The numerals shall be at appropriate intervals, indicating total aerial extension in 5 foot increments. A band on the first fly section shall align with these marks at the appropriate extension distance.

3.145.2 The extension indicator color shall be black reflective. This shall make the length of aerial extension easily readable by the operator by merely glancing at the indicators. Numerals indicating length of extension shall be placed adjacent to indicating bands.

CONTRACTOR Complies with Section 3.145: YES**3.146 Aerial Mounted Folding Attic Ladder Bracket**

There shall be one (1) mounting bracket on the fly section for a 10' folding attic ladder.

CONTRACTOR Complies with Section 3.146: YES**3.147 Roof Ladder Mounting Brackets Base Section, Behind Ladder Sign**

Roof ladder brackets shall be provided on the outside of the base section for a roof ladder. The brackets shall be installed between the aerial base section and the ladder signs. The brackets shall be formed using break and bend techniques for added strength and an outstanding appearance. To enhance durability, the brackets shall be coated with Line-X or equal.

- a. Where the ladder rack is bolted to the aerial section or ladder sign, stainless steel fasteners shall be employed.
- b. When installed in the brackets, the roof ladder shall be retained so that it will not come out of the brackets unexpectedly.
- c. There shall be a total of two roof ladder brackets, one on the right side and one on the left side of the aerial.
- d. Two (2) 14' roof ladder, Duo Safety 775DR (Special Width) shall be provided.

CONTRACTOR Complies with Section 3.147: YES**3.148 Aerial Special Labels**

Legible, permanent signs shall be installed in positions readily visible to the operator to provide operational directions, warnings, and cautions. The signs shall describe the function of each control and provide operating instructions. Warning and caution signs shall indicate hazards inherent in the operation of the aerial device. These hazards shall include, but shall not be limited to:

- a. Electrical hazards involved where the aerial device does not provide protection to the personnel from contact with, or near proximity to, an electrically charged conductor.
- b. Electrical hazards involved where the aerial device does not provide protection to ground personnel who might contact the vehicle when in contact with energized electrically charged conductors.
- c. Hazards from stabilizer motion.
- d. Hazards that can result from failure to follow the manufacturer's operating instructions.

CONTRACTOR Complies with Section 3.148: YES

3.149 Aerial Device Specification Placard

A permanent label shall disclose the following information relative to the aerial device:

- a. Make
- b. Model
- c. Insulated or non-insulated
- d. Serial number
- e. Date of manufacture
- f. Rated capacity (s)
- g. Rated vertical height
- h. Rated horizontal reach
- i. Maximum hydraulic system pressure
- j. Hydraulic oil type and capacity

All other appropriate labels to ensure safe operation of the aerial device shall be permanently affixed in conspicuous locations.

CONTRACTOR Complies with Section 3.149: YES

3.150 Aerial Ladder Signs

There shall be two (2) signs measuring 16" tall x 133" long installed on the base section of the aerial ladder, one on each side. The signs shall be fabricated of 1/8" aluminum plate and shall be painted to match the aerial. The signs shall be large enough to accept a maximum lettering size of 12" high.

CONTRACTOR Complies with Section 3.150: YES

3.151 Wireless Aerial Camera

A Fire Research inView™ TrueSight™ model BCA211-A00 kit shall include: (1) one 130° wireless camera with 9 infrared illuminators and (1) one 7" InCab Wireless Monitor. The Monitor and Camera shall connect wirelessly through the built-in Wireless Transmitters. The Wireless Transmitter shall have up to 70 feet of transmission. The camera and monitor shall have the capability of being paired inside of the cab through the Auto Pair function. The 130° Camera shall include the following features: 1/4" Sharp Color CCD Sensor, 250,000 pixels for Picture Elements and Gamma Correction with R=0.45 to 1.0. The Image Sensor shall provide 540 TV Lines PAL: 752(H) *582(V), NTSC: 769(H) x 494(V). The 2.1MM Lens shall have a 130° Viewing Angle. The Waterproof rating shall be IP68K. The kit shall include an Internal Synchronization Sync System. The Infrared Distance shall be 50 Ft. (9 Infrared IR). The Usable Illumination shall be 0 Lux (with IR ON). The Power Source shall be DC 12V/3A (+/-10%). Signal-to-Noise ratio (S/N Ratio) shall be rated for higher than 48DB. The Electronic Iris rating shall be 1/50, 1/60-1/100,000 seconds. Video Output rating shall be 1VP.P 75 Ω. The IR Switch Control shall have ACDS Automatic Control. Vibration and Impact Rating shall be 20G/100G. The Operating Temperature rating shall be -22°F ~ +176°F / RH 95% Max. The Storage Temperature rating shall be -22°F ~ +140°F / RH 95% Max.

The model BCA211-A00 kit also shall include (1) one 7" Wireless InCab Digital Color TFT LCD Monitor. The specifications shall be as follows for the monitor:

- Dot Resolution: 800 x 3 (RGB) x 480
- Display Format/Contrast: 16:9 / 500:1
- Display Brightness: 400 CD/m²
- Viewing Angle: U:50° D:60° L/R:70°
- 2 Channel Video Input (for dual screen/mirror image capabilities)
- Distance Grid Lines
- 1 VP-P, 75Ω
- Power Supply: DC 12V-24V (+/-10%)
- Power Consumption: 5W
- Operating Temperature: -22°F ~ +176°F
- Video System: Auto NTSC/PAL
- Overall Dimensions: 7" (L) x 5" (H) x 1" (D)
- Weight: 400G
- Vibration Rating: 5G
- Dot Pitch: 0.192 (H) x 0.1805 (V)
- Internal Sync System

Location of the 130° wireless camera with 9 infrared illuminators shall be installed on the tip of the aerial and the 7" InCab wireless monitor shall be located on the turn table next to the aerial controls. The exact location of the camera and monitor shall be determined at the pre-construction meeting.

CONTRACTOR Complies with Section 3.151: YES

End of Section III – Aerial Body & Trailer

EXHIBIT A -ATTACHMENT # 1 SECTION IV**TABLE OF CONTENTS****Section IV – Electrical**

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SECTION IV – ELECTRICAL**4.1 Battery**

The single start electrical system shall include six (6) Harris BCI 31 925 CCA batteries with a 210-minute reserve capacity and 4/0 welding type dual path starter cables per SAE J541.

CONTRACTOR Complies with Section 4.1: YES

4.2 Battery Tray

The batteries shall be installed within two (2) steel battery housings with integrated slide-out trays located on the left side and right side of the chassis, securely bolted to the frame rails. The battery trays shall be coated with the same material as the frame. The battery trays shall include drain holes in the bottom for sufficient drainage of water. A durable, non-conducting, interlocking mat made by Dri-Dek shall be installed in the bottom of the trays to allow for air flow and help prevent moisture build up. The batteries shall be held in place by non-conducting phenolic resin hold down boards. The design for the slide-out feature shall include remote terminal studs for the battery cables to improve ease of maintenance.

CONTRACTOR Complies with Section 4.2: NO

4.3 Battery Box Cover

Each battery box shall include a steel cover which protects the top of the batteries. Each cover shall include flush latches which shall keep the cover secure as well as a black powder coated handle for convenience when opening.

CONTRACTOR Complies with Section 4.3: YES

4.4 Battery Cable

The starting system shall include cables which shall be protected by 275-degree F. minimum high temperature flame retardant loom, sealed at the ends with heat shrink and sealant.

CONTRACTOR Complies with Section 4.4: YES

4.5 Battery Jumper Stud

The starting system shall include battery jumper studs. These studs shall be located in the forward most portion of the driver's side lower step. The studs shall allow the vehicle to be jump started, charged, or the cab to be raised in an emergency in the event of battery failure.

CONTRACTOR Complies with Section 4.5: YES

4.6 Alternator

The charging system shall include a 320 amp Delco Remy 40SI 12-volt alternator. The alternator shall include a self-exciting integral regulator.

CONTRACTOR Complies with Section 4.6: YES

4.7 Battery Conditioner

A Kussmaul 35/10 battery conditioner shall be supplied. The battery conditioner shall provide a 35-amp output for the chassis batteries and a 10-amp battery saver output. The battery conditioner shall be mounted in the cab in the LH rear facing outer seating position.

CONTRACTOR Complies with Section 4.7: YES

4.8 Battery Conditioner

A Kussmaul battery conditioner display shall be supplied. The battery conditioner display shall be mounted in the cab, viewable through the cab mid side window behind the left front door.

CONTRACTOR Complies with Section 4.8: YES

4.9 Electrical Inlet

4.9.1 A Kussmaul 20-amp super auto-eject electrical receptacle shall be supplied. It shall automatically eject the plug when the starter button is depressed. A single item or an addition of multiple items must not exceed the rating of the electric inlet that it's connected to.

4.9.2 Amp Draw Reference List:

- a. Kussmaul 1000 Charger - 3.5 Amps
- b. Kussmaul 1200 Charger - 10 Amps
- c. Kussmaul 35/10 Charger - 10 Amps
- d. 1000W Engine Heater - 8.33 Amps
- e. 1500W Engine Heater - 12.5 Amps
- f. 120V Air Compressor - 4.2 Amps

4.9.3 Electrical Inlet Connection

The electrical inlet shall be connected to the battery conditioner.

4.9.4 Electrical Inlet Color

The electrical inlet connection shall include a red cover.

CONTRACTOR Complies with Section 4.9: YES

4.10 Auxiliary Electrical Inlet

4.10.1 An auxiliary Kussmaul 20-amp super auto-eject electrical receptacle shall be supplied. It shall automatically eject the plug when the starter button is depressed. A single item or an addition of multiple items must not exceed the rating of the electric inlet that it's connected to.

4.10.2 Amp Draw Reference List:

- a. Kussmaul 1000 Charger - 3.5 Amps
- b. Kussmaul 1200 Charger - 10 Amps
- c. Kussmaul 35/10 Charger - 10 Amps
- d. 1000W Engine Heater - 8.33 Amps
- e. 1500W Engine Heater - 12.5 Amps
- f. 120V Air Compressor - 4.2 Amps

4.10.3 Auxiliary Electrical Inlet Location

An auxiliary electrical inlet shall be installed on the left-hand side of the cab ahead of the front door.

4.10.4 Auxiliary Electrical Inlet Connection

The auxiliary electrical inlet shall be connected to the 110V A/C unit.

4.10.5 Auxiliary Electrical Inlet Color

The auxiliary electrical inlet connection shall include a blue cover

CONTRACTOR Complies with Section 4.10: YES

4.11 Siren Control Head

A Federal PA300, 200-watt siren control head shall be provided and installed in the dash panel. The siren shall feature 200-watt output, wail, yelp, air horn, PA and radio broadcast. The siren shall include a noise cancelling microphone.

CONTRACTOR Complies with Section 4.11: YES

4.12 Mechanical Siren

A Federal Signal Q2B mechanical siren shall be installed on the front bumper. The siren shall be controlled by a foot pedal on the left-hand side for the driver. The siren shall also be controlled by a push button on the right-hand side for the officer. The siren brake shall have a push button located next to the officer side siren control.

CONTRACTOR Complies with Section 4.12: YES

4.13 Horn Button Selector Switch

A rocker switch shall be installed in the switch panel between the driver and officer to allow control of either the electric horn or the electronic siren from the steering wheel horn button. The electric horn shall sound by default when the selector switch is in either position to meet FMCSA requirements.

CONTRACTOR Complies with Section 4.13: YES

4.14 Air Horn Activation

The air horn activation shall be accomplished by one (1) Linemaster model SP491-S81 foot switches located on the left-hand side for the driver. On the right-hand side for the officer will be a push button. An air horn activation circuit shall be provided to the chassis harness pump panel harness connector.

CONTRACTOR Complies with Section 4.14: YES

4.15 Electronic Siren Auxiliary Activation

The electronic siren shall include activation by the steering wheel horn button.

CONTRACTOR Complies with Section 4.15: YES

4.16 Back-up Alarm

An ECCO model 575 backup alarm shall be installed at the rear of the chassis with an output level of 107 db. The alarm shall automatically activate when the transmission is placed in reverse. A virtual button shall be provided on the Vista display and control screen to disable the backup alarm.

CONTRACTOR Complies with Section 4.16: YES

4.17 Wiring Harnesses

4.17.1 Wiring harnesses shall be the automotive type, engineered specifically for the builder's apparatus, and shall meet the following criteria. Under no circumstances shall diodes, resistors, or fusible links be located within the wiring harness. All such components shall be located in an easy to access wiring junction box or the main circuit breaker area. All wire shall meet white book, baseline advanced design transit coach specification and Society of Automotive Engineers recommended practices. It shall be stranded copper wire core with cross linked polyethylene insulation complying with SAE specification J 1128. Each wire shall be hot stamp function coded every three inches starting one inch from the end and continuing throughout the entire harness. In addition to function coding, each wire shall be number and color coded.

4.17.2 All terminals on the ends of the wiring harness shall be soldered unless a crimping tool or machine is used that gives an even and precise pressure for the terminal being used. All terminals shall be pull tested to insure their integrity.

CONTRACTOR Complies with Section 4.17: YES

4.18 V-Mux Electrical Management System

4.18.1 The apparatus shall be equipped with a V-MUX Multiplex System, no substitutes accepted. The Manufacture of the Multiplex system shall provide at a minimum three cities of reference that have at least 10 trucks operational for over a one year period. The Multiplex system hardware that is being put into the apparatus of this bid shall be field proven for a minimum of two years. Any multiplex system that has less than 200 systems in vehicles with less than two years' field time on the identical hardware that shall be put into the apparatus shall be excluded from this bid process. Any Multiplex system with a warranty higher than 1% over the past 2 years shall be excluded. There are several key benefits to multiplexing, one is to reduce the number of connections in a vehicles electrical system, because of this it is important to limit the number of modules that control certain functions of the vehicle, therefore wherever it is stated that an "add-on" module will not be acceptable, there shall be No Exceptions.

4.18.2 Outputs: The outputs shall perform all the following items without added modules to perform any of the tasks.

- 4.18.2.1 **Load Shedding:** The System shall have the capability to Load Shed with 8 levels any output. This means you can specify which outputs (barring NFPA restrictions) you would like Load Shed. Level 1 12.9v, Level 2 12.5V, Level 3- 12.1V, Level 4- 11.7V, Level 5 11.3V, Level 6 10.9V, Level 7 10.5, Level 8 10.1. Unlike conventional load shedding devices, you can assign a level to any or all outputs. No add-on modules shall be acceptable; the module with the outputs must perform this function.
- 4.18.2.2 **Load Sequencing:** The System shall be able to sequence from 0 8 levels any output. With 0 being no delay and 1 being a 1 second delay, 2 being a 2 second delay and so on. Sequencing reduces the amount of voltage spikes and drops on your vehicle, and can help limit damage to your charging system. No add-on modules shall be acceptable; the module with the outputs must perform this function.
- 4.18.2.3 **Output Device:** The System shall have solid-state output devices. Each solid-state output shall be a MOS-FET (Metal Oxide Semiconductor- Field Effect Transistors); MOS-FETs are solid-state devices with no moving parts to wear out. A typical relay when loaded to spec has a life of 100,000 cycles. The life of a FET is more than 100 times that of a relay. No add-on modules shall be acceptable; the module with the outputs must perform this function.
- 4.18.2.4 **Flashing Outputs:** The System shall be able to flash any output in either A or B phase, and logic is used to shut down needed outputs in park, or any one of several combined interlocks. The flash rate can be selected at either 80, or 160 FPM. This means any light can be specified with a multiplex truck with no need to add flashers. Flashing outputs can also be used to warn of problems or other unique idea you may come up with. No add-on modules shall be acceptable; the module with the outputs must perform this function.
- 4.18.2.5 **PWM:** The modules shall have the ability to PWM at some outputs so that a Headlight PWM module is not needed. No add-on modules shall be acceptable; the module with the outputs must perform this function.
- 4.18.2.6 **Diagnostics:** An output shall be able to detect either a short or open circuit. The System shall be able report in "real time" a text based message that points the maintenance person to a specific output.
Inputs:
- The inputs shall have the ability to switch by a ground or battery signal.
 - The inputs shall be filtered for noise suppression via hardware and software so that RF or dirty power will not trick an input into changing its status.
- 4.18.2.7 **Auto-Throttle:** The Multiplex system shall be able to perform automatic high idle via a network gateway or by using an existing output on a module to provide the proper signals to an OEM Engine ECU. This task shall be handled with existing inputs and outputs. No add-on modules shall be acceptable; the module with the outputs must perform this function.
- 4.18.2.8 **Displays:** There shall be a total of two Vista screen displays, one on the driver side dash, facing the driver and one on the officer side dash, facing the officer. Displays shall provide real time information regarding Load Shedding and System Status, such as network traffic/errors or shorts and open circuits.
- 4.18.2.9 **System Network:** The Multiplex system shall contain a Peer-to-Peer network. A Master Slave Type network is not suitable for the Fire/Rescue industry. A Peer-to-Peer network means that all the modules are equal on the network; a Master is not needed to tell other nodes when to talk.
- 4.18.2.10 **System Reliability:** The Multiplex system shall be able to perform in extreme temperature conditions, from 40° to +85° C (-40° to +185° F.) The system shall be sealed against the environment, moisture, humidity, salt or fluids such as diesel fuel, motor oil or brake fluid. The enclosures shall be rugged to withstand being mounted in various locations or compartments around the vehicle. The modules shall be protected from over voltage and reverse polarity.

4.18.2.11 **Warranty Information:** The Multiplex (V-Mux) system of Weldon, when installed correctly is warranted against mechanical, electrical and physical defects for the period defined in the table below per module. The period is defined as the date of manufacture from Weldon: each V-Mux carries its own date of manufacture.

<u>Part Numbers</u>	<u>Parts Period</u>	<u>Weldon Repair Parts Labor Period</u>
6000-0000-02 or -03 Hercules	4 years	4 years
6010-0000-00 Mini 4x12	4 years	4 years
6020-0000-00 Mini 16	4 years	4 years
6201-XXXX-XX Vista I Display Nodes		
Internal Displays	1 year	1 year
Internal Electronics	4 years	4 years
6231-XXXX-XX Vista III Display Nodes	1 year	1 year
6300-XXXX-XX Switch Panels		
6400-0000-00 Gateway Node	4 years	4 years
ORB0-0614-00 Shunt interface Module	1 year	1 year
OU10-0715-00 VFD 2 Line Display		
OR13-0614-00 Temp sensor	30 days	30 days
611X-OOOO-OO Transceiver Serial or USB	1 year	1 year
613X-OOOO-OO Diag Kit, Serial or USB	1 year 30 days	1 year 30 days
Cables or other accessories		

Nodes need to be installed in the ceiling of the body compartments for improved access for maintenance, or in a location that would be easy to access. Engineering to determine best location.

CONTRACTOR Complies with Section 4.18: YES

4.19 Weatherproof Door Switches

4.19.1 Due the harsh environment and susceptibility to moisture on the fire ground, the fire apparatus compartment doors shall utilize weatherproof switches. Two different types of switches shall be used. Weatherproof proximity switches shall be utilized where space permits. In tight locations, mechanical weatherproof switches shall be used. No Exceptions.

4.19.2 The switches shall be used for activation of the compartment lights and shall provide a signal to the door open circuit in the cab.

CONTRACTOR Complies with Section 4.19: YES

4.20 Volt System Schematic

A complete electrical schematic for the apparatus shall be provided. This schematic shall be specifically prepared for this individual unit rather than a generic schematic designed to accommodate all apparatus.

CONTRACTOR Complies with Section 4.20: YES

4.21 Volt System Test

After completion of the unit, the 12-volt electrical system shall undergo a battery of tests as listed in the latest addition of NFPA Pamphlet 1901. These tests shall include, but not be limited to: a reserve capacity test,

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alternator performance test at idle, alternator performance test at full load, and a low voltage alarm test Certification of the results shall be supplied with the apparatus at the time of delivery.

CONTRACTOR Complies with Section 4.21: YES

4.22 Headlights

The headlights shall be clear LED, rectangular style, mounted on the face of the cab, in dual-headlight housings. The headlights shall be mounted in a chrome bezel.

CONTRACTOR Complies with Section 4.22: YES

4.23 Front Turn Signals

There shall be Federal Model QL64Z-ARROW amber LED, and arrow-pattern turn-signals mounted above the headlights in a separate chrome bezel, outboard of the front warning lights; one on each side.

CONTRACTOR Complies with Section 4.23: YES

4.24 Headlight Location

The headlights shall be located on the front fascia of the cab directly below the front warning lights.

CONTRACTOR Complies with Section 4.24: YES

4.25 Side Turn/Marker Lights

The sides of the cab shall include two (2) LED round side marker lights which shall be provided just behind the front cab radius corners.

CONTRACTOR Complies with Section 4.25: YES

4.26 Marker and ICC Lights

In accordance with FMVSS, there shall be five (5) LED cab marker lamps designating identification, center and clearance provided. These lights shall be installed on the face of the cab within full view of other vehicles from ground level.

CONTRACTOR Complies with Section 4.26: YES

4.27 Headlight and Marker Light Activation

The headlights and marker lights shall be controlled through the Vista screens. The headlamps shall be equipped with the "Daytime Running" light feature, which shall illuminate the headlights to 80% brilliance when the battery master switch is in the "On" position and the parking brake is released. The Vista screen control shall feature "On", "Marker Lights" and "Off".

CONTRACTOR Complies with Section 4.27: YES

4.28 Auxiliary Marker/Turn Lights

The cab shall include two (2) Truck-Lite model 10075Y round LED lamps which shall include an amber cover. The lights shall operate as a side clearance marker and turn signal. The lights shall be mounted one (1) on each side of the cab just above the wheel well.

CONTRACTOR Complies with Section 4.28: YES

4.29 Ground Lights

Each door shall include a Federal Model 607141-05 LED ground light mounted to the underside of the cab step below each door. The lights shall include a polycarbonate lens, a housing which is vibration welded and LEDs which shall be shock mounted for extended life. The ground lighting shall be activated by the respective door as well as in the Vista screen.

CONTRACTOR Complies with Section 4.29: YES

- 4.30 Lower Cab Step Lights**
The middle step located at each door shall include a recess mounted Federal Model 607141-05 LED light which shall activate with the opening of the respective door.
CONTRACTOR Complies with Section 4.30: YES
- 4.31 Intermediate Step Lights**
The intermediate step well area at each door shall include an LED light within chrome housing. The Egress step lights shall provide visibility to the step well area for the first step exiting the vehicle. The Egress step lights shall activate with Entry step lighting.
CONTRACTOR Complies with Section 4.31: YES
- 4.32 Engine Compartment Lights**
There shall be an LED NFPA compliant light mounted under the engine tunnel for area work lighting on the engine. The light shall include a polycarbonate lens, a housing which is vibration welded and a bulb which shall be shock mounted for extended life. The light shall activate automatically when the cab is tilted.
CONTRACTOR Complies with Section 4.32: YES
- 4.33 Tiller Cab Interior Lights**
There shall be a Weldon style 8080, item 8080-8000-13, interior/dome series LED light provided. The lens shall be clear on one side and red on the other. The interior clear light shall be activated by the door opening or by a push button on/off switch located on the light. The red dome light shall be activated by a push button on/off switch located on the light. The light shall be located on the tiller cab ceiling above the tiller operator.
CONTRACTOR Complies with Section 4.33: YES
- 4.34 Tiller Guide Lights**
There shall be a Perko model 0455002CHR round navigation light mounted to the roof of the cab. The light shall be 12.00-inch vertical height allowing all around visibility for use as a center guide by the tiller operator.
CONTRACTOR Complies with Section 4.34: YES
- 4.35 Emergency Lighting Activation**
All emergency warning lights shall be controlled by the E-Master button on the Vista display.
CONTRACTOR Complies with Section 4.35: YES
- 4.36 Side Scene Lights**
There shall be two (2) each Federal Model QL97LEDSCENE cab scene lights installed; one on each side between the cab doors. The lights shall activate when the cab doors are opened from the same type of switchgear as the side-body scene lights and shall also be controlled by the Vista screen.
CONTRACTOR Complies with Section 4.36: YES
- 4.37 Brow Lights**
There shall be a total of two (2) Federal Signal Contour Mount COMLS15K800-03-11 scene lights brow area lights mounted to the front of the apparatus. One (1) shall be mounted directly above the windshield on the driver side, centered. One (1) shall be mounted directly above the windshield on the passenger side, centered. The lights shall be installed in a contour brow mount.
CONTRACTOR Complies with Section 4.37: YES
- 4.38 Side Scene Light Location**
The scene lighting shall be located on the left and right sides of the cab
CONTRACTOR Complies with Section 4.38: YES

4.39 Side Scene Light Activation

The scene lights shall be activated by the Vista screen.

CONTRACTOR Complies with Section 4.39: YES

4.40 Interior Overhead Lights

4.40.1 The cab shall include a two-section, red and clear Weldon LED dome lamp located over each door. The dome lamps shall be rectangular and shall measure approximately 7.00 inches in length X 3.00 inches in width with a black colored bezel. The clear portion of each lamp shall be activated by opening the respective door and both the red and clear portion can be activated by individual push lenses on each lamp.

4.40.2 An additional incandescent three (3) light module with dual map lights shall be located over the engine tunnel which can be activated by individual switches on the lamp.

CONTRACTOR Complies with Section 4.40: YES

4.41 Master Warning Switch

A master switch shall be included, as a virtual button on the Vista display and control screen which shall be labeled "E Master" for identification. The button shall feature control over all devices wired through it. Any warning device switches left in the "ON" position when the master switch is activated shall automatically power up.

CONTRACTOR Complies with Section 4.41: YES

4.42 Map Lights

Two (2) Sunnex swivel map lights with red lens and control switch on the base mounted on the overhead HVAC cover, one (1) on each side.

CONTRACTOR Complies with Section 4.42: YES

4.43 Do Not Move Apparatus Lights

The front headliner of the cab shall include a flashing red Whelen Ion LED light clearly labeled "Do Not Move Apparatus". In addition to the flashing red light, an audible alarm shall be included which shall sound while the light is activated. The flashing red light shall be located centered left to right for greatest visibility. The light and alarm shall be interlocked for activation when either a cab door is not firmly closed or an apparatus compartment door is not closed. The light and alarm shall be disabled when the parking brake is set.

CONTRACTOR Complies with Section 4.43: YES

4.44 Inboard Front Warning Lights

The cab front fascia shall include two (2) Whelen M6 Linear Super-LED Surface mount, Part # M6RC front warning lights in the left and right inboard positions. The lights shall be mounted to the front fascia of the cab within a chrome bezel. The lights shall flash alternating red/red when. The lights shall activate through the E-Master switch.

4.44.1 **Inboard Front Warning Lights Color:** The warning lights mounted on the cab front fascia in the inboard positions shall be red.

CONTRACTOR Complies with Section 4.44: YES

4.45 Intersection Warning Lights (Lower Zone A)

The chassis shall include two (2) Whelen M6 Linear Super-LED Surface mount, Part # M6RC intersection warning lights, one (1) each side. The lights shall flash red until the parking brake is released, in which the lights will flash alternating red/clear.

4.45.1 **Intersection Warning Light Location:** The intersection lights shall be mounted on the side of the bumper in the rearward position.

CONTRACTOR Complies with Section 4.45: YES

4.46 Side Warning Lights

The cab sides shall include two (2) Whelen M6 Linear Super-LED Surface mount, Part # M6RC warning lights, one (1) on each side. The lights shall feature advanced Solaris technology and include a built-in flasher capable of multiple flash patterns. The lights shall be mounted to the sides of the cab within a chrome bezel. The lights shall flash red until the parking brake is released, in which the lights will flash alternating red/clear.

4.46.1 **Side Warning Light Location:** The warning lights on the side of the cab shall be mounted over the front wheel well directly over the center of the front axle.

CONTRACTOR Complies with Section 4.46: YES

4.47 Interior Door Open Warning Lights

The interior of each door shall include one (1) red 4.00-inch diameter Truck-Lite LED warning light located on the door panel. Each light shall activate with a flashing pattern when the door is in the open position to serve as a warning to oncoming traffic.

CONTRACTOR Complies with Section 4.47: YES

4.48 Rear Work Light Switch

A switch shall be installed above the tail light bezel on the left side. The switch shall be wired to the backup lights to provide additional work lighting. The rear work light circuit shall be deactivated when the park brake is disengaged. In addition to the lights being activated by the above switch, the lights shall also come on when the transmission is placed in reverse.

CONTRACTOR Complies with Section 4.48: YES

4.49 Midship Turn Signal (LED)

There shall be Two (2) Truck-Lite model 21LED midship auxiliary / turn signal lights installed in the rub rail, on each side of the body.

CONTRACTOR Complies with Section 4.49: YES

4.50 Midship Turn Signal, Tiller

There shall be one (1) Whelen model 700 LED turn signal lights, part number 70AOOTAR with chrome flange, installed above the rear wheel well area, on each side of the tiller trailer.

CONTRACTOR Complies with Section 4.50: YES

4.51 LED Clearance Lights

Truck-Lite model 30 LED clearance lights shall be installed on the rear of the body as necessary to be in full compliance with applicable ICC and DOT codes and regulations.

4.51.1 Additional LED Clearance Lights

Six (6) Truck-Lite model 30 LED amber clearance lights shall be installed on the body in addition to applicable ICC and DOT codes and regulations. Three (3) on the left side of the body and three (3) on the right side of the body.

4.51.2 LED Clearance Lights (Side Marker)

There shall be four (4) truck-Lite model 35075R LED clearance lights with aluminum bracket installed on the apparatus. Four (4) side marker lights, two (2) on each rear corner shall be a Truck-Lite model 35075R Red LED with mounting bracket.

CONTRACTOR Complies with Section 4.51: YES

4.52 Ground Lighting – LED

4.52.1 Federal Model 607141-05 LED lights shall be installed beneath the apparatus in areas where personnel may be expected to climb on and off the apparatus. The lights shall illuminate the ground within 30" of the apparatus to provide visibility of any obstructions or hazards. These areas shall include, but not be limited to, cab doors, side running boards, and the rear step area.

4.52.2 Additional Ground Lighting – LED

Additional Federal Model 607141-05 LED lights shall be installed beneath the apparatus. The lights shall illuminate the ground within 30" of the apparatus to provide visibility of any obstructions or hazards. in the following areas:

- a. Two (2) below the body compartments left - One (1) below L5/ L7, One (1) below L2/ L3
- b. Two (2) below the body compartments right - One (1) below R5/ R7, One (1) below R2/ R3

CONTRACTOR Complies with Section 4.52: YES

4.53 Walkaway Lights

Lights shall be mounted in a manner that illuminates all walkways and steps for safe operation of the apparatus. These lights shall become illuminated when the parking brake is engaged. Walkway lights to be Federal Signal Micro Pulse Wide Angle LED. The color shall be clear.

CONTRACTOR Complies with Section 4.53: YES

4.54 Scene Lights, Rear Facing, Tiller Cab

There shall be two rear facing Whelen M7 Linear Super-LED Surface mount, Part # M7ZC 12-volt scene lights installed in a bezel and located at the top rear corner of the tiller cab.

4.54.1 Rear Facing Tiller Scene Light Switch in Cab

The rear facing scene lights shall be controlled by a switch located in the tiller cab within reach of the driver. The switch shall have an indicator which shall illuminate when the switch is in the "ON" position. The switch shall be labeled " REAR SCENE."

4.54.2 Rear Scene Light Switch Location

The rear scene lights shall be controlled by a switch located in the chassis within reach of the driver. The switch shall have an indicator which shall illuminate when the switch is in the "ON" position. One switch shall control all rear scene lights if multiple scene lights are selected. The switch shall be labeled "REAR SCENE." In addition to the switch located in the cab, the rear scene lights shall be activated by the rear work light switch, and when the apparatus is placed in reverse.

CONTRACTOR Complies with Section 4.54: YES

4.55 Scene Lights Forward Facing, Tiller Cab

There shall be two forward facing Whelen M7 Linear Super-LED Surface mount, Part # M7ZC 12-volt scene lights installed in a bezel and located at the top front corner of the tiller cab. The color shall be CLEAR.

4.55.1 Forward Facing Tiller Scene Light Switch in Cab

The forward-facing scene lights shall be controlled by a switch located in the tiller cab within reach of the driver. The switch shall have an indicator which shall illuminate when the switch is in the "ON" position. The switch shall be labeled "FRONT SCENE".

CONTRACTOR Complies with Section 4.55: YES

4.56 AMDOR Compartment Lighting, Freedom Package

4.56.1 All side compartments of the apparatus shall be equipped with AMDOR Luma Bar, LED compartment lighting. The Luma Bar shall have wide angle 120° surface mount LED installed on a printed circuit board for shock and vibration resistance. The lighting shall be enclosed in a high impact poly carbonate enclosure. Current draw shall not exceed 130mA per foot or 20mA per LED.

4.56.2 Lighting shall be installed in the left and right side compartments of the tiller tractor and the tiller trailer. The configuration of some small compartments may not allow for LED lighting, in those cases an appropriate substitute shall be used.

4.56.3 An automatic door switch shall activate the compartment lights. In the case of transverse compartments lights on both sides shall be activated by opening either door.

4.56.4 The compartment lights shall be located as follows:

- a. LO and RO shall have one horizontal light bar installed at the top of the compartment.
- b. L1 and R1 shall have one horizontal light bar installed at the top of the compartment.

- c. L2 and R2 shall have one vertical light bar installed along the side of the door.
- d. L3 and R3 shall have one vertical light bar installed on each side of the door.
- e. L4 and R4 shall have one vertical light bar installed on each side of the door.
- f. L5 and R5 shall have one vertical light bar installed on each side of the door.
- g. L6 and R6 shall have one vertical light bar installed on each side of the door.
- h. L7 and R7 shall have one vertical light bar installed along the side of the door.
- i. L8 and R8 shall have one vertical light bar installed along the side of the door.
- j. L9 and R9 shall have one horizontal light bar installed at the top of the compartment.
- k. C1 shall have one horizontal light bar installed at the top, back of the compartment.
- l. CL1 and CR1 shall have one horizontal light bar installed at the top of the compartment.
- m. CL2 and CR2 shall have one vertical light bar installed along the side of the door.
- n. CL3 and CR3 shall have one vertical light bar installed along the side of the door.

CONTRACTOR Complies with Section 4.56: YES

4.57 Tail Lights

The tail lights shall have two (2) Whelen M Series Brake/Turn/Tail/Flashing Part # M6BTT. LED tail light assemblies. This assembly shall include one (1) red LED stop/tail light, one (1) amber LED turn light, one (1) clear LED back-up lights and one (1) red LED flashing light. The brake lights shall be activated by the brake pedal application and upon the secondary (Jake) brake application.

CONTRACTOR Complies with Section 4.57: YES

4.58 12 Volt Accessory Outlet in the Cab

There shall be four (4) 12-volt accessory outlets with USB provided in the cab. One (1) mounted on the driver side engine tunnel; One (1) mounted on the officer side engine tunnel; Two (2) mounted in the rear cab area. The exact mounting location shall be determined at pre-con.

CONTRACTOR Complies with Section 4.58: YES

4.59 Streamlight Rechargeable Lights

Five (5) Streamlight Fire Vulcan LED flash lights, orange in color with 12volt vehicle charger mounts. The lights shall be wired direct to the chassis batteries.

CONTRACTOR Complies with Section 4.59: YES

4.60 Tiller Driving Lights

There shall be a Zico model ZQL-SS-H7614 tiller driving light installed forward of the tiller trailer fender wells, one on each side of the apparatus. The lights shall be controlled by the dimmer switch located on the tiller operators steering wheel. The light shall be angled toward the front of the apparatus.

CONTRACTOR Complies with Section 4.60: NO

4.61 Tiller Turning Lights

There shall be a Zico model ZQL-SS-H7614 tiller turning light installed behind the tiller trailer fender wells, one on each side of the apparatus. The lights shall be controlled by the turn indicator switch located on the tiller operators steering wheel. The light shall be directed outward from the sides of the apparatus.

CONTRACTOR Complies with Section 4.61: NO

4.62 Go-Light Remote Control Search Light

There shall be two (2) LED GOLIGHT Model GL-30204 remote control searchlights mounted to the top of the cab towards the front corners rear of the lightbar. Go-lights shall be mounted on an angled pedestal to allow for clearance above the roof mounted lightbar. Each light shall be equipped with two (2) hard wired remote controls located in the chassis cab.

CONTRACTOR Complies with Section 4.62: YES**4.63 Pedestal Mount LED Light**

There shall be four (4) Federal Signal COM120 scene top mount fixed pedestal light(s) installed on the apparatus. The pedestal shall allow the lamp head to rotate 450 degrees and have a self-adjusting friction brake to prevent arbitrary rotation. The pedestal shall have a round mounting base. Wiring shall extend from the pedestal bottom. Lamp head and brackets shall be powder coated white. The non-telescopic lights shall be installed:

- a. One (1) Above L3
- b. One (1) Above L6
- c. One (1) Above R3
- d. One (1) Above R6

The above 120-volt light shall be controlled with the circuit breaker.

CONTRACTOR Complies with Section 4.63: YES**4.64 Visual Warning**

4.64.1 **Upper Zone A Visual Warning:** A Federal Signal 87" Navigator light bar system, Part #: 1532275834 shall be supplied and permanently mounted on the cab roof, as far forward as possible.

- a. The light bar shall be equipped with two (5) forward facing linear "Red" LED's, one to be STEADY RED, two (2) RED rotating lights on each end, and two (2) mid mounted RED/CLEAR rotating lights.
- b. The light bars shall be equipped with clear lenses. All clear LED's in the light bar shall be deactivated in the Blocking Right of Way mode.
- c. Opticom Emitter, 3M Installed: There shall be an infrared Opticom Emitter installed in the Federal Navigator Series Light bar.

4.64.2 **Upper Zone C Visual Warning:** Two (2) Federal SLR LED rotating beacons installed high at the rear of the apparatus. One rotator shall have an amber lens and one rotator shall have a red lens.

4.64.3 **Lower Zone B Visual Warning:** Three (3) Whelen M6 Linear Super-LED Surface mount, Part # M6C LED lights with chrome bezel shall be surface mounted in the lower warning zone. The lights shall have clear lenses. The clear flashing LED light shall be disabled when the parking brake is set.

4.64.4 **Lower Zone C Visual Warning:** Two (2) Whelen M6 Linear Super-LED Surface mount, Part # M6R red LED lights with chrome bezel shall be surface mounted in the lower warning zone. The lights shall have a red lens.

4.64.5 **Lower Zone D Visual Warning:** Three (3) Whelen M6 Linear Super-LED Surface mount, Part # M6RC red LED lights with chrome bezel shall be surface mounted in the lower warning zone. The lights shall have clear lenses. The clear flashing LED light shall be disabled when the parking brake is set.

CONTRACTOR Complies with Section 4.64: YES**4.65 Federal "LED" Traffic Advisor**

There shall be a Federal Model 320810-42 42" signal master mounted on the rear of the apparatus. There shall be a third brake light built into this traffic advisor. The traffic advisor shall be recess mounted on the rear of the body above the rear compartment. The traffic advisor shall be controlled through the Vista screen.

CONTRACTOR Complies with Section 4.65: YES**4.66 Aerial Spotlight**

4.66.1 Two (2) Federal Signal Commander 1220-SQ shall be installed. The "tracking" lights shall be mounted under the base section of the ladder. The lights shall be switched by a switch on each light head, and from the operator control station at the base of the ladder.

4.66.2 Two (2) Federal Signal Commander 1220-SQ shall be installed. The "tip" lights shall be mounted on the fly section of the ladder. The lights shall be mounted below the handrails so as not to increase the overall

height of the unit. The lights shall be switched by a switch on each light head, and from the operator's control station at the base of the ladder.

CONTRACTOR Complies with Section 4.66: YES

4.67 Ladder Tip LED Lights

There shall be two (2) Federal Signal COMLS15K-NH LED scene lights mounted at the tip of the fly section. The lights shall be connected to the 12-volt system on the apparatus. The lights shall have weather proof on/off switches located at each light head and at the pedestal controls.

CONTRACTOR Complies with Section 4.67: YES

4.68 Aerial Mounted 120 Volt Receptacle

There shall be one (1) 120 Volt receptacle mounted on the end of the fly section. The receptacle shall be wired through the electrical swivel, and shall be controlled from the breaker box located in the body. The receptacle shall be a Twist Lock Type NEMA L5-15, 120 Volt 15 Ampere with a spring-loaded weather resistant cover.

CONTRACTOR Complies with Section 4.68: YES

4.69 Blue LED Rung Illumination Lighting

4.69.1 The aerial ladder sections shall be equipped with permanently installed blue LED rung illumination lights. The lights shall be mounted on the inside of the ladder sections, facing inward; on each aerial section in a "staggered" configuration. The blue colored lens shall serve to illuminate climbing rungs without inducing any glare, which would hinder safety.

4.69.2 The lights shall be energized by a switch on the Turntable Control Station. Each light shall be equipped with an integral guard to protect it from damage. The light itself shall be positioned such that all light shall be directed inward toward the rungs of the aerial sections, maximizing safety for all climbers during night operations. The lights shall also aid the operator in locating aerial ladder section in conditions of reduced visibility.

4.69.3 Tape type products will not be acceptable for blue rung lighting. NO EXCEPTION.

CONTRACTOR Complies with Section 4.69: YES

4.70 Onan Hydraulic Generator Set

4.70.1 An Onan model CMHG 10000, hydraulic driven generator set shall be installed on the apparatus. The generator shall be rated at 10,000 watts at 120/240 volts. Current frequency shall be stable at 60 hertz.

4.70.2 The power generating unit shall be modular unit, housed in stainless steel with an acoustical material added for maximum sound dampening. The module shall consist of the hydraulic motor, generator, blower, cooler, and all other necessary components.

4.70.3 The generator shall be located in the open storage area above the body. The generator activation switch shall be located in the chassis cab.

4.70.4 For ease of maintenance, the only part of the system that shall require accessibility shall be the oil reservoir which shall be located to facilitate periodic checks and the adding of hydraulic fluids.

CONTRACTOR Complies with Section 4.70: YES

4.71 Generator Warranty Period

Generator shall be free from defects in material and workmanship for a period of five (5) years or one thousand (1,000) hours, whichever comes first, from the date of delivery to the County. Generator warranty shall include all parts and labor, including diagnostic labor, to repair the generator. Repair or replacement parts shall be warranted for ninety (90) days from date of purchase. Any part repaired or replaced during the warranty period assumes the remainder of the warranty or ninety (90) days, whichever is greater.

CONTRACTOR Complies with Section 4.71: YES

4.72 Frog Display

There shall be a FROG D provided with the generator. The FROG D shall automatically sense a generator signal and begin displaying information. The digital meter display shall constantly monitor and display Voltage, Frequency (accurate to within 1 decimal point), and Current Draw on two separate lines. The display shall be capable of displaying total accumulated run time hours when the MODE button is pressed. This information shall be stored in a non-erasable memory. The frog display shall be located next to the load center.

CONTRACTOR Complies with Section 4.72: YES

4.73 GFI Load Center

4.73.1 The entire 120/240-volt electrical system shall be installed in strict compliance with NFPA Pamphlet 1901, newest edition. This shall include all testing, labeling, wiring methodology, and dimensional requirements. Certification of compliance shall accompany the apparatus at the time of delivery.

4.73.2 There shall be a 120/240-volt load center incorporated into the 120/240-volt wiring system. The load center shall include adequate circuit breakers to protect the loads specified on this apparatus.

4.73.3 All 120/240 volt A.C. Wiring shall be done in accordance with NFPA Pamphlet 1901 as well as nationally accepted electrical codes.

4.73.4 The GFI load center shall be located all in one compartment, L-3.

CONTRACTOR Complies with Section 4.73: YES

4.74 Branch Circuit Overcurrent Protection

Over current protection devices shall be provided for circuits in accordance with NFPA 1901 newest version. The load center shall be equipped with a non-GFI two pole main breaker when the six or more individual branch circuits are present. Over current protection devices shall be marked with labels to identify the function of the circuit they protect. The load center shall be located forward bulkhead of L2.

CONTRACTOR Complies with Section 4.74: YES

4.75 Electric Cord Reels

There shall be two (2) Hannay 120-volt electric rewind cord reel(s) model ECR1616-17-18 installed on the apparatus with a push button labeled REEL REWIND installed for 12-volt rewinding of each cord reel. The reel shall be equipped with 200' of yellow STW Seoprene 105 degree Celsius 10/3 wire installed with a cable stop to prevent damage to cable fittings. Rollers shall be supplied to prevent damage to the electrical cable if pulled in any direction. The cord reel shall be located One (1) CL1, One (1) CR1 on the tiller chassis body.

CONTRACTOR Complies with Section 4.75: YES

4.76 Cord Reel Junction Box

There shall be two (2) Circle-D model PF51G-3 electrical junction box, equipped with four (4) electrical receptacles, provided and hard wired to the cord reel. The receptacles shall be enclosed in a UL listed, NEMA Type 3R cast aluminum box with aluminum finish and NFPA required indicator light.

CONTRACTOR Complies with Section 4.76: YES

4.77 Receptacle Junction Box, Duplex NEMA L5-15R

There shall be eight (8) Circle-D, NEMA L5-15R DPLX, duplex twist lock type receptacle(s) installed in the junction box. The receptacle shall be rated at 15 amps and 120 volts. Receptacles shall be installed in the following locations of the junction box: 1,2,3,4.

CONTRACTOR Complies with Section 4.77: YES

4.78 Volt Twist Lock, Single Receptacle

There shall be two (2), single outlet box(es). The box shall contain one (1) NEMA L5-15, 120 Volt 15 ampere rating Twist Lock type receptacle wired to the generator. The receptacle(s) shall have spring loaded weather resistant covers. The receptacle(s) shall be located on the rear of the tiller body one left one right.

CONTRACTOR Complies with Section 4.78: YES

4.79 Kenwood Radio System

- 4.79.1 A VHF radio shall be supplied by the COUNTY and Installed by the CONTRACTOR.
- 4.79.2 The radio transceiver shall be mounted within the rear radio compartment and connected to battery switched power as provided in the radio compartment and fused with a 15A ATC fuse.
- 4.79.3 The Kenwood radio shall have a Kenwood Part # KLF-2 DC line filter installed.
- 4.79.4 The Kenwood full feature control head shall be mounted on the dash board with location finalized at pre-construction.
- 4.79.5 The Kenwood radio shall include one KMC-28 DTMF microphone.
- 4.79.6 Two Kenwood KES-5 mobile radio speakers shall be contractor supplied and installed with the location finalized at pre-construction.
- 4.79.7 A PCTEL part# MWB-1320 antenna tuned to 157 MHz shall be contractor supplied and roof mounted with a Larsen NMOKHFUDMPL antenna cable kit labeled "VHF" on the cable end and terminated to the Kenwood transceiver in the radio compartment.
- 4.79.8 A Comtronix Communications BKRA-1RVC radio intercom adaptor shall be contractor supplied and interfaced between the Kenwood radio and Sigtronics headset system.
- 4.79.9 A water proof amplified radio speaker with volume control shall be contractor supplied and installed at the pedestal control box. The speaker shall be connected to the BKRA-1RVC "siren radio rebroadcast" output for fixed audio to the pedestal speaker.

CONTRACTOR Complies with Section 4.79: YES

4.80 Intercom, Sigtronics, US-12S (Up To 12 Positions)

There shall be a Sigtronics model US-12S intercom system supplied and installed on the apparatus. The intercom system shall interface with the apparatus mobile radio to allow for radio transmit from designated PTT (push to talk) locations. The System shall have the following capabilities:

- a. Driver: Intercom/PTT
- b. Officer: Intercom/PTT
- c. Tiller Cab Intercom/PTT
- d. Tiller Cab (Training Seat) Intercom Only
- e. Turn Table Intercom/PTT
- f. Four (4) Rear Crew Intercom Only

CONTRACTOR Complies with Section 4.80: YES

4.81 Intercom Headset

There shall be five (5) Sigtronics model SE-8-RVC intercom headsets included with the intercom system. The headsets shall have a soft head strap designed to be worn under a helmet, a flex microphone boom that rotates 180 degrees for use on either side, and an easy grab volume adjustment knob. The microphone shall be noise canceling with a wind screen and shall be voice activated.

- 4.81.1 **Headset Jack, Interior Mount** - There shall be a Sigtronics headset plug-in jack, part number 800120, provided. The headset jack shall be designed for interior mounting and shall be compatible with Sigtronics headsets
- 4.81.2 **Headset Jack with Splash Cover** - There shall be a Sigtronics headset plug-in jack, part number 800121, with a spring-loaded cover provided. The headset jack shall allow for exterior mounting and shall be compatible with Sigtronics headsets

- 4.81.3 **Intercom Push to Talk Switch** - There shall be a Sigtronics push to talk switch, part number 800122, provided. The switch shall allow for mobile radio transmission through the Sigtronics intercom system with the use of a Sigtronics headset.

CONTRACTOR Complies with Section 4.81: YES

4.82 PSEC Radio System

- 4.82.1 Two Larsen NMOKHFUDMPL antenna cable kits shall be installed in the roof and routed to the Radio Compartment with “N” type RF connectors terminated. The first cable shall be labeled “700 MHz” on the cable end and a Larsen part# NMOQW700 antenna installed on the roof. The second cable shall be labeled PSEC on the cable end. Antenna locations shall be finalized at pre-construction.
- 4.82.2 A lighted rocker switch shall be installed in the cab console and labeled “PSEC”. The switch shall be powered by the cab console battery “hot all the time” circuit and fused with a 3A ATC fuse. The output of the switch shall be routed to the radio compartment unterminated with a 2’ pigtail. 16-gauge orange stranded wire shall be used and the cable end labeled “PSEC”.

CONTRACTOR Complies with Section 4.82 YES

4.83 Radio Equipment Mounting

- 4.83.1 An aluminum base mounting plate with minimum mounting dimensions of 20” W X 32”H for communications equipment mounting shall be installed in the cab.
- 4.83.2 Two 12 VDC circuits shall be provided for communications use and terminated on the mounting plate. One circuit shall be battery “*hot all the time*” and one circuit shall be switched on with the master battery switch. Each circuit shall be 6-gauge red stranded wire, terminated with ¼-20 stud type junction blocks, and each circuit protected with 40 Amp circuit breakers. In addition, one 6-gauge black chassis ground shall be supplied and terminated with a ¼-20 stud type junction block.

CONTRACTOR Complies with Section 4.83: YES

4.84 Mobile Data Computer (MDC)

- 4.84.1 A Gamber Johnson MDC mount and docking station shall be contractor supplied, assembled and installed to the cab console as follows:
- 1 each. Part# DS- UPPER-M Gamber Johnson - Standard-Adjustable Upper Pole
 - 1 each. Part# 7160-0049 Gamber Johnson - Screen Support Vehicle mounting kit
 - 1 each. Part# 7160-0750 Gamber Johnson - VESA 75mm Clevis
 - 1 each. Part# 7160-0264-02 Gamber Johnson – Docking Station
 - 1 each. Part# BR305-USB2 US Global Sat – USB Cable Set
 - 1 each. Part# WXR-1850-TN Laird – 2.4 GHz Antenna
- 4.84.2 A US Global Sat GPS antenna Part# MR-350P shall be contractor supplied and roof mounted. The antenna location shall be determined at pre-construction. The GPS antenna cable shall be connected to the Gamber Johnson MDC docking station.
- 4.84.3 Two (2) 12 VDC circuits shall be provided for MDC and communications use and terminated in the cab console. One circuit shall be battery “*hot all the time*” and one circuit shall be switched on with the master battery switch. Each circuit shall be 8-gauge red stranded wire, terminated with ¼-20 stud type junction blocks, and each circuit protected with 25 Amp circuit breakers. In

- addition, one 8-gauge black chassis ground shall be supplied and terminated with a ¼-20 stud type junction block.
- 4.84.4 Lind Electronics Part# PA1555-968 shall be installed with Lind Electronics Part# ASMTL-00332 power supply mounting rail within the cab console.
 - 4.84.5 The power supply input shall be connected to the above mentioned 12VDC battery “hot all the time” circuit and fused with a 10A ATC fuse.
 - 4.84.6 A lighted rocker switch shall be in line with the power supply input circuit and be mounted in the cab console and labeled “MDC”. The output of the power supply shall be connected to the Gamber Johnson docking station.

CONTRACTOR Complies with Section 4.84: YES

End of Section IV – Electrical

Attachment: FPARC-07057-002-0524 KME 101' TDA FINAL Quote [Revision 1] (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER

EXHIBIT A – ATTACHMENT # 1, SECTION V

TABLE OF CONTENT

Section V – Equipment

5.1 Equipment

Attachment: FPARC-07057-002-0524 KME 101' TDA FINAL Quote [Revision 1] (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER

SECTION V – EQUIPMENT

5.1 Equipment

5.1.1 The following equipment will be provided by the builder and shipped with the apparatus upon delivery. The equipment listed is also mentioned in the previous sections.

5.1.2 **Ladders:**

- a. One (1) 8' Werner NXT1A08 Type IA fiberglass single sided step ladder
- b. Two (2) 14' roof ladder, Duo Safety 775DR (Special Width)
- c. Three (3) 10' folding attic ladders, Duo Safety 585A
- d. Two (2) 16' roof ladders, Duo Safety 875A
- e. One (1) 18' roof ladder, Duo Safety 875A
- f. One (1) 20' roof ladder, Duo Safety 875A
- g. Two (2) 28' two section extension ladders, Duo Safety 1200A
- h. Two (2) 35' two section extension ladders, Duo Safety 1200A

5.1.3 **Fire Equipment:**

- a. Three (3) 6' Aluminum D-Handle Fiberglass Rubbish Hook, Nupla RH-6DA
- b. Two (2) 4' Aluminum D-Handle Fiberglass Ceiling & Wall Hook, Nupla CWH-4YDA
- c. One (1) 4' 6' Aluminum D-Handle Fiberglass Rubbish Hook, Nupla RH-4DA
- d. Two (2) 10' Fiberglass Pike Pole(s), Nupla YPD-10
- e. One (1) 12' Fiberglass Pike Pole(s), Nupla YPD-12
- f. One (1) 18' Fiberglass Pike Pole(s), Nupla YPD-18
- g. Two (2) 6' New York Roof Hook, Fire Hooks Unlimited
- h. Two (2) 4' New York Roof Hook, Fire Hooks Unlimited
- i. One (1) An Akron Brass Style 1494 all-electric ladder pipe rated for 1000gpm, constructed of lightweight Pyrolite and a weight not to exceed 35lbs shall be provided. The monitor shall be 36" in length and have a vertical rotation of 135° with three adjustable stops. The monitor shall have a fully enclosed motor and gears with manual over-ride for the vertical rotation. The control box shall be totally encapsulated to prevent moisture intrusion and use locking IP 67 rated electrical connectors for all motor control outputs and control inputs. The control system shall have one environmentally sealed USB port to facilitate control system updates. The control system shall have a built in wireless transceiver (900 MHz) to facilitate operation from wireless remote control devices. The ladder pipe shall have mounting clamps that are adjustable to fit up to 16" rung spacing. Configuration shall be:
 1. Inlet: 2.5" NH
 2. Outlet: 2.5" NH
 3. Voltage: 12 Volt
- j. Five (5) Streamlight Fire Vulcan LED flash lights, orange in color with 12-volt vehicle charger mounts.
- k. Two (2) 130' Section Continuous 3" Angus Hose with 2 ½" couplings
- l. One (1) 4 inch female to 4 inch male Task Force Tips Jumbo Gate Valve - PN: AG5NP-NP-01

CONTRACTOR Complies with Section 5.1: YES

End of Section V – Equipment

EXHIBIT A - ATTACHMENT # 2
CONTRACTOR EXCEPTIONS TO COUNTY SPECIFICATIONS

The CONTRACTOR's bid exceptions have been reviewed and accepted by the COUNTY. The exceptions made to the contract specifications and alternatives proposed in this attachment have been determined by the COUNTY to meet the form, fit, function, quality and performance characteristics originally specified.



**KME FIRE APPARATUS
101' AERIALCAT™ TRACTOR DRAWN AERIAL LADDER
CLARIFICATIONS**

GENERAL:

KME is very pleased to propose our 101' Aerialcat Tractor Drawn Aerial ladder to meet the intent of the Riverside County bid specifications. The proposed unit will be tested and certified by Underwriter's Laboratories (UL) to meet NFPA-1901, 2016 edition. Due to the bid specifications indicating a Spartan/Smeal design, the proposed unit is priced and will be built to the KME proposal specifications to meet the intent of the bid specifications. All system designs, dimensions and performances will be as stated in the KME proposal specifications.

Section 1

Section 1.21 Finish Sub Sections 1.21.4

KME is proposing the use of Skikkens brand paint, to meet the intent of the specification. A paint sample will be provided to match and ensure fleet continuity.

Section 2

Section 2.10 Cab Style

KME is proposing the use of our top of the line cab the Predator, some material thickness and alloy type differ. Please refer to the KME proposal specification for exact dimensions and material standards.

Section 2.12 Front Grille

KME is proposing a fixed grill with access to the fluid fills and checks located inside of the cab through a rear crew doghouse access door.

Section 2.16, 2.17 & 2.18 Cab Paint Manufacturer and Color

KME is proposing the use of Skikkens brand paint, to meet the intent of the specification. A paint sample will be provided to match and ensure fleet continuity.

Section 2.22 Cab Entry Doors

KME is proposing the use of an exposed cab door hinge.

Section 2.43 Electronic Engine Oil Level Indicator

KME does not offer fluid level monitoring for Engine Oil.

Section 2.44 Fluid Fills

KME is proposing the fluid fills and checks be located inside of the cab through a rear crew doghouse access door.

Section 2.54 Coolant Hoses

KME is proposing the use of Continental Blue Extreme hose to meet the intent of the specifications.

Section 2.56 Air Intake Protection

A skid plate for the air intake is not required on our chassis due to the intake is located above the frame rails of the chassis.

Section 2.58 Diesel Exhaust Fluid Tank

KME is proposing the DEF tank location be in the crew cab step area with a hinged access door.

Section 2.78 Fuel Lines

KME is proposing the use of Aeroquip fiber reinforced hoses for the fuel lines.

Section 2.82 Fuel Tank Material and Finish

KME is proposing the use of a hot rolled, pickled and oiled steel fuel tank.

Section 2.88 Front Shock Absorbers

KME is proposing the use of Koni shocks to meet the intent of the specification.

Section 2.89 Front Suspension

KME is proposing the use of our standard front suspension leaf spring pack. The exact dimensions are listed in the KME proposal specification.

Section 2.92 Electronic Power Steering Fluid Level Indicator

KME does not offer fluid level monitoring for power steering fluid.

Section 2.93 Power Steering Pump

KME is proposing the use of a dual gear Shepard system to meet the intent of the specification.

Section 2.94 Tiller Steering Provision

KME is proposing the use of a Parker gear pump which will be piggybacked of the main aerial hydraulic pump. The steering pump will share the fluid from the aerial hydraulic reservoir.

Section 2.96 Power Steering Gear

KME is proposing the use of a dual gear Shepard system to meet the intent of the specification.

Section 2.104 Rear Drive Tire

KME is proposing the use of a Continental Coach HA3 highway tread tire to meet the intent of the specification.

Section 2.118 Park Brake Control

Due to the dual Weldon V-mux screen design two separate park brake controls will be supplied one for the driver and one for the officer for use in emergency situations.

Section 2.128 Wheelbase

KME is proposing a tractor wheelbase of 150 inches due to our set cab dimensions.

Section 2.130 Frame

KME is proposing a dual full length frame rail design.

Section 2.141 Glass Front Door

KME does not offer a cozy glass ahead of the main cab door glass.

Section 2.148.5 thru 2.148.6 Cab Center Dash

KME is proposing a one piece Line-x painted ABS dash assembly to meet the intent of the specification.

Section 2.149 Engine Tunnel Trim

KME is proposing a Line-x painted ABS engine tunnel overlay to meet the intent of the specification.

Section 2.152 Step Trim

KME is proposing a two-step cab entry design.

Section 2.171 & 2.172 Cab Switching

All switching for emergency lighting and scene lighting will be controlled through the multiplexing system.

Section 2.176 Windshield Wiper System

KME is proposing the use of individual wiper motors.

Section 2.177 Electronic Windshield Fluid Level Indicator

KME does not offer fluid level monitoring for the Windshield washer fluid.

Section 2.185 Cab Fender

KME does not offer an ABS inner fender liner; KME is proposing the use of an aluminum liner to meet the intent of the specification.

Section 2.187 & 2.189 Backlighting Color

KME is proposing the cab dash gauges be backlight in Blue LEDs to meet the intent of the specification.

Section 2.203 Overall Lengths

KME is proposing a 683 inch overall length due to our cab and aerial component differences.

Section 2.204 Chassis Wheelbase

KME is proposing a tractor wheelbase of 150 inches due to our set cab dimensions

Section 2.206 Angle of Approach

KME is proposing a 12 degree angle of approach due to our cab and chassis design.

Section 2.207 Angle of Departure

KME is proposing a 10 degree angle of departure due to our body design.

Section 3**Section 3.1 Trailer Structure and Components**

KME is proposing our tiller trailer design, KME's exact RBM and dimensions are listed in the KME specification.

Section 3.1.10 Trailer Structure and Components

KME is proposing the use of a Parker gear pump which will be piggybacked of the main aerial hydraulic pump. The steering pump will share the fluid from the aerial hydraulic reservoir. This is due to the new engine designs from Cummins does not offer a secondary power steering port.

Section 3.2.4 & 3.2.5 Tiller Cab Structure and Components

KME is proposing a low back USSC seat with a lap belt to meet the intent of the specification. KME does offer a higher height tiller cab, which would allow the use of an ABTS seat.

Section 3.20 Body Sub Frame

KME is proposing an aluminum body sub frame integral into the body weldments.

Section 3.22.10 Compartments Left Side

KME is proposing compartment L9 will only be 14 inches deep to it reaches the ground ladder storage module.

Section 3.23.10 Compartments Right Side

KME is proposing compartment R9 will only be 14 inches deep to it reaches the ground ladder storage module.

Section 3.60 Paint Process

KME is proposing the use of Skikkens brand paint, to meet the intent of the specification. A paint sample will be provided to match and ensure fleet continuity.

Section 3.62 Aerial Component Protection/Paint

KME does not offer hot dip galvanizing of any of our aerial weldment components. KME is proposing all items will be sand blasted and cleaned, primed and painted to protect against corrosion.

Section 3.63 through 3.66 Aerial Paint

KME is proposing the use of Skikkens brand paint, to meet the intent of the specification. A paint sample will be provided to match and ensure fleet continuity.

Section 3.81 Manual Rotation Drive Tool

KME does not offer a manual rotation drive tool, KME is proposing in the event of a power loss the turntable can be rotated using the emergency override pump. The controls will be located inside the turntable console.

Section 3.88 Tiller Aerial Construction Standards

KME is proposing our 101' aerial ladder measured at 80 degrees of elevation to meet the intent of the specification.

Section 3.89 Operational Envelope/Reach

KME is proposing our 101' aerial ladder with a range of -7 to 80 degrees of operation. KME is also proposing a 94' horizontal reach and a 101' vertical reach.

Section 3.92 Primary Dimensions

KME is proposing our 101' aerial ladder to meet the intent of the specification, the aerial section dimensions are listed in the KME proposal.

Section 3.93 Rung Coverings

KME is proposing the use of aggressive rung covers bonded to the rung.

Section 3.91.2 Bolt on Egress

KME is proposing our egress design which remains on the same plane as the ladder fly section.

Section 3.104 Extension/Retraction System

KME is proposing our ladder design, and the extension cylinders are sized to the KME ladder design, the dimensions are listed in the KME proposal specification.

Section 3.107 Retraction Safety System

KME does not offer a retraction safety system, when our fly section steps are deployed a toe guard is built into the design. This does not allow the foot to come in range of operation to create an unsafe working condition.

Section 3.108 Rotation Bearing

KME is proposing our ladder design, and the rotation bearing is sized to the KME ladder design, the dimensions are listed in the KME proposal specification.

Section 3.117 Hot Dip Galvanizing

KME does not offer hot dip galvanizing of any of our aerial weldment components. KME is proposing all items will be sand blasted and cleaned, primed and painted to protect against corrosion.

Section 3.142 Monitor Safety Lock

This will not be provided since the monitor requested is a standalone clamp on gun design that will not be stored on the end of the fly section.

Section 4**Section 4.2 Battery Tray**

KME is proposing a fixed battery tray, access for routine checks will be provided through a drop down hinged door on both sides of the cab in the crew step area.

Section 4.60 and 4.61 Tiller Driving Lights

KME is proposing the use of Tecniq LED driving lights to ensure fit in the fender well with all other options selected.

ATTACHMENT # 3
CONTRACTOR'S TECHNICAL PROPOSAL CLARIFICATIONS

Attachment: FPARC-07057-002-0524 KME 101' TDA FINAL Quote [Revision 1] (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER



November 7, 2018

KME Response November 9, 2018

Mr. Brandon Gomez KME Apparatus Sales 4725 Troy Ct.
Riverside, CA 92509

Dear Mr. Gomez,

Subject: Clarification to KME Initial Proposal Response RFP # FPARC-327 - Tractor Drawn Aerial Fire Apparatus

This is a formal Request for Clarification of the Technical Proposal submitted by Kovatch Mobile Equipment Corp (KME) dated October 31, 2018 in response to RFP # FPARC-327. At this time, the County has not made a decision as to whether KME's proposal is responsive to the RFP.

Clarifications are required to determine whether KME's proposal is responsive to the RFP and if it will be considered for further evaluation. The matters requiring clarification are specified below with citations to the sections in KME's Specification and KME's response to the RFP Specification (Tab E, Section I - V and Addendum # 1).

Please provide clarification to the following areas which conflict with KME Specification / Drawings and KME's response to the RFP Specification:

1. Page 26. Exact Blueprint with Bid. The drawings provided with KME's proposal are inadequate.

KME Response: Drawing was revised to the requirements of the Riverside County Specification.

2. Page 28, Critical Overall Height/Length Requirement. KME states "No"; however, the County specification at Sections 2.202 and 2.203 stipulate the exact overall height and length.

KME Response: Specification translation error within the sales tool, height and length dimensions will be included into the specification.

3. Page 33, Aluminum Tread Plate Overlay on Cab Roof. The County specification at Section 2.19 stipulates the County requires white Line-X non-slip material over the entire flat surface of the roof (not visible from the ground) in place of the aluminum tread plate.

KME Response: Cab roof will be provided with Line-X coating as specified by Riverside County Specification and will not include an aluminum tread plate overlay.

4. Page 38, Mirror Control in Multiplex Control Screen. Please refer to Section 2.182. KME TDA Dash Drawing conflicts with KME's response to this section.

KME Response: Specification translation error, mirror controls will be controlled with switches on the dash as specified by the Riverside County Specification.

5. Page 40, Driver Operator Seats. Please refer to Section 2.173.3, and 2.173.5.

KME Response: USSC Valor seats will be provided as specified in the Riverside County Specification. KME proposal price will reflect a **Credit of \$405.00** for this change.

6. Page 41, Forward Facing Seat Position - No Back (Outboard). Please refer to Section 2.173.11

KME Response: Rear outboard forward facing seats will include a rear back pad as required by the Riverside County Specification.

7. Page 43, The location of the antenna roof rail is not identified in the Drawings. Please update drawing to match the County's specification.

KME Response: Antenna roof rail was added to the revised general arrangement drawing.

8. Page 43, Customer Supplied Mobile Radios. Please see response to Question # 15 in Addendum #1.

KME Response: Will provide as specified in Riverside County Specification Addendum#1.

9. Page 45, Cab Tilt Secondary Safety Lock. Please refer to Section 2.137 for the required specification and location.

KME Response: Cab tilt system in the specification is unique design to Spartan Motors, KME design will meet the intent and safety requirements of the Riverside County Specification.

10. Page 46, Two (2) Painted Tow Hooks, Recessed Through Bumper. Please refer to Section 2.134.3.

KME Response: Specification proposal translation error, KME will provide chrome tow eyes as requested by Riverside County Specification.

11. Page 51, Second Parking Brake Control Near Officer. Please refer to Section 2.118.

KME Response: A single park brake control located in the center of cab will be provided. Based on cab dimensional differences the location will differ from the current Spartan Motors location. Final location can be reviewed during the pre-construction conference if awarded to KME.

12. Page 54, Silicone Heater and Coolant Hose. Please refer to Section 2.54. KME responded "YES", please explain.

KME Response: Continental blue hose offered by KME meets or exceeds the Riverside County Specification. Additional product information and samples are available upon request.

13. Page 56, 10 gallon DEF Tank. The language in this paragraph refers to tailpipe construction. Please refer to Addendum # 1, Section 2.58A.

KME Response: Sales tool error, KME will provide a 10 gallon DEF tank at the location identified on Addendum# 1.

14. Page 65, Instrument Panel, 100" Predator - Wide ABS. Please refer to Section 2.187 regarding the hinged access panel.

KME Response: This specification verbiage is specific to Spartan Motors chassis, KME chassis will include a fully removable access cover.

15. Page 65, Ametek "Officer's Speedometer", Located Near Officer. Please refer to Section 2.190.

KME Response: KME will comply with the Riverside County Specification.

16. Page 68, Standard #MATM Radio Antenna Installed. Please refer to Section 2.27 and 4.79 the install location and antenna type are not correct.

KME Response: KME will comply with the Riverside County Specification.

17. Page 68, Larsen Radio Antenna Installed. Please refer to Section 2.27.

KME Response: KME will comply with the Riverside County Specification.

18. Page 68, Fast Idle on Dash for All Electronic Engines. Please refer to Section 2.39.

KME Response: Fast Idle switch will be located within the Vista screen as specified.

19. Page 72, Light Package Actuation/Controls. Please refer to Section 4.35.

KME Response: Warning lights will be activated through Vista Screen E-Master button.

20. Page 72, A-Upper Federal LED NVG87-NFPA1 Navigator 87" Bar. Please refer to Section 4.64 for required model.

KME Response: Will provide the part number as specified in Riverside County Specification.

21. Page 73, Federal 42" VPX LED "Signal Master" Light at Rear. Please refer to Section 4.65.

KME Response: Will provide the part number as specified in Riverside County Specification.

22. Page 79, Federal Signal LED Third Brake Light. Please refer to Section 4.65.

KME Response: Will provide the part number as specified in Riverside County Specification.

23. Page 81, Federal Signal 12V LED (2 Above Windshield). The Part# reference in not correct. Please refer to section 4.37.

KME Response: Will provide the part number as specified in Riverside County Specification.

24. Page 82, Cord Reel Location Ceiling Mount Driver Front Compartment. Please confirm size and location as per the specifications of Section 2.210.1 & 2.210.4.

KME Response: Will provide as specified in Riverside County Specification.

25. Page 82, 200' of 12/3 Yellow Cable for One (1) 120 Volt Reel. Please refer to Section 4.75.

KME Response: Hannay ECR 1616-17-18 reel maximum capacity is 150' of 10-3 cable or 200' of 12-3 cable. KME meet the length requirement, but can provide a shorter length than specified with the 10-3 cable.

26. Page 83, Air Horn Control- Dash Button for Officer & Steering. Please refer to Section 4.14.

KME Response: Will provide a foot switch as specified in the Riverside County Specification.

27. Page 83, Siren Control - Floor Switch Driver and Officer. KME Specification refers to console mounted switches. Please refer to Section 4.12.

KME Response: Will provide control switches as specified in the Riverside County Specification.

28. Page 85, Standard Fender - No Storage (Custom). Please refer to 3.53.

KME Response: Sales tool description error and was corrected to coincide with the Riverside County Specification.

29. Page 86, Four (4) SCBA Bottle Storage Compartments, Tillers. Please refer to Section 3.53.

KME Response: Will provide as specified in Riverside County Specification.

30. Page 87, Compartmentation, 101 -Til Style # 1H. Please provide clarification and details regarding the specifications in Section 3.22 and 3.33 and what is being proposed. (Example: D7 and 07 are listed twice with different dimensions etc...)

KME Response: KME Proposal Specification for the body compartmentation was updated to clarify what was originally proposed. Riverside County Specification requires compartment R9/L9 to be transverse. The ladders on the KME trailer design will extend into this area preventing this compartment from being transverse. KME can provide a non-transverse compartment in lieu of the transverse compartment.

31. Page 89, Hose Storage Tray. Please refer to Section 2.209 and confirm compliance with this section.

KME Response: Will provide as specified in Riverside County Specification.

32. Page 90, Winch Receiver Point - Each Side of Body. Please refer to Section 3.47, no 12V electrical connection requested or needed.

KME Response: Proposal specification error and the 12-Volt power connection points will not be provided.

33. Page 91, Hinged Painted Aluminum Door, Ladder Storage, RM Only. The drawing shows vertically hinged doors. Please confirm KME is providing a horizontally hinged door and update the drawing accordingly.

KME Response: Doors will be horizontally hinged as specified in the Riverside County Specification.

34. Page 92, 8' Aluminum Step Ladder. Please confirm the ladder provided will be fiberglass as specified Section 5.1.

KME Response: The ladder provided will be fiberglass as required by Riverside County Specification.

35. Page 95, Pike Pole Tubes Aerials. Drawings do not reflect location in the tiller ladder storage bay. Please confirm adequate storage for RVC compliment of pike poles and "D" handled tools identified in RVC Section 3.55.

KME Response: Will provide as specified in Riverside County Specification and drawing was updated to reflect this item.

36. Page 97, Tiller Cab Interior Paint. Please refer to Section 3.2.3 for correct color (Gray Line- X).

KME Response: Tiller cab interior paint will be Gray Line-X as specified by the Riverside County Specification.

37. Page 97, Tiller Cab Seat, USSC. Please confirm that the low back bucket seat has a G2A (air ride) base and is ABTS compliant as specified in Section 3.2.3

KME Response: Our intent is to provide as specified in Riverside County Specification. However additional time is needed for KME engineering and Valor Seats to address NFPA H-Point requirements.

38. Page 99, 100, Tiller Cab Park Brake Interlock Warning / Safety Start System. Please refer to Section 3.8.

KME Response: Tiller cab park brake will be provided as specified by the Riverside County Specification.

39. Page 101, Ladder, Tiller Gen, Intent & Design Standards. The County did not specify or require a pre-piped aerial waterway. Please update KME spec and price proposal accordingly.

KME Response: Proposal Specification error – KME Tractor Drawn Aerial family includes two models; 100' ladder without a waterway with a shorter body and wheelbase or 101' ladder with a waterway and increased body compartmentation with a longer trailer. After reviewing the Riverside County Specification, to comply with the compartmentation requirements, KME had to provide the 101' ladder and longer body without the waterway. The proposal specification was scrubbed to remove the waterway plumbing and associated components. Included with 101' ladder general specification verbiage indicates the ladder is capable of packaging a waterway, but the specification doesn't include the verbiage or pricing for the actual waterway or components.

40. Page 106, Tractor Drawn Ladder, "IQAN" Motion Control System. This was not specified by the County, please provide clarification as to why this was included in KME spec.

KME Response: IQAN is a safety feature with the KME ladder and is required to meet the intent of **Section 3.122 Apparatus Body Damage Control Interlock System** of the Riverside County Specification.

41. Page 111, Driver Start Override. Please confirm and update this paragraph as necessary to reflect a transmission selector safety switch override. Please refer to Section 3.8

KME Response: Will be provided as specified per the Riverside County Specification.

42. Page 116, Rescue Eyelet on Last Rung of Ladder Tip. Please refer to Section 3.91.

KME Response: Will provide two (2) lifting eyes as specified in Riverside County Specification.

43. Page 118, Two (2) Federal Signal Commander. The County requirement is for LED. Please refer to Section 4.67.

KME Response: Specification requires two (2) 12-volt LED tip lights, based on the electrical draw of the lights on the ladder tip will reduce the lights output and performance. Therefore, KME is recommending to provide one (1) 120-volt light and one (1) 12-volt light or Two (2) 120-volt lights.

44. Page 120, Akron # 1494 Ladder Clamp-On Monitor. This section references hose storage, please refer to Section 2.209.

KME Response: Sales tool error, specification will be revised to meet of the Riverside County Specification.

45. Page 133, Additional Items Shipped with Vehicle. Please provide clarification on aerial override keys. The County does not require keyed overrides.

KME Response: The key override feature is included with the IQAN System option Item #40.

Please provide clarifications to the above questions and e-mail your response to John Miller at john.miller@fire.ca.gov by Thursday, November 8th at 3:00pm. Please include as an attachment with your clarifications an updated KME Specification / Drawings which match KME's bid response, to include, updated pricing.

**EXHIBIT A - ATTACHMENT # 4
PRE-CONSTRUCTION CHANGES**

Attachment: FPARC-07057-002-0524 KME 101' TDA FINAL Quote [Revision 1] (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER



January 29, 2019

Riverside County Purchasing and Fleet Services.
 2980 Washington Street
 Riverside, CA 92504
 Attn: John Miller

REF: Riverside County Pre-Construction Letter Revised 4/9/2019

Mr. Miller,

I'd like to take this opportunity to thank you and the members of your committee for meeting with us to review this project. It was a pleasure meeting and working with all of you. The following is a list of changes, additions, and clarifications discussed during the pre-construction meeting held at the Embassy Suites, Temecula, CA, on January 14-16, 2019

Please carefully review this list and return a signed copy of this letter as soon as possible. Following the approval of this pre-construction letter, the specification will be revised to include all of these items as discussed and this will then, generate the final specification, in which KME will use for engineering, production, inspection and acceptance of the apparatus.

The list is as follows:

ITEM	PAGE	SPEC PARAGRAPH	DESCRIPTION	COST
1	26-27	17	KME to provide two (2) paper copies and USB copies of each electrical wiring and air system schematics at the time of apparatus delivery.	
2	26-27	17	KME will provide parts lists, part numbers and location of all parts on the apparatus. This list shall allow for reference of all parts on the apparatus at the time of apparatus delivery.	

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3	55	156	<p>Add an engraved tag to instruct Department on proper tire inflation pressure for all tires on the apparatus. Provide documentation to support tire inflation pressure. Tag will be located in the same general area of the vehicle fluid plate and within view of the driver.</p> <p>This tag will be provided after the apparatus is delivered and the Department has fully outfitted the apparatus with all operational equipment. The Department will be required to weigh the vehicle (all wheels separately, each axle separately and total vehicle weight) and provide this information to KME within 3 months of the apparatus being placed in service. KME will consult with the tire manufacture and provide a recommended tire inflation pressure. This recommended tire inflation pressure shall take into consideration all NFPA, FAMA, FMVSS and any/all Local, State and Federal standards.</p>	
4	36	47	<p>The Line-X on top of the cab shall not be visible from the ground from a standing position. The Line-X material shall stop at the inside of the drip rail on each side. The Line-X shall be applied from a point just to the rear of the cab roof light bar and will continue to the rear cab wall. The color of the Line-X shall be light gray with UV stabilizer. Note: The antenna rail shall be painted job color apparatus red.</p>	
5	37	56	<p>A total of four cab door keys will be provided with each apparatus. The cab door keys will be Tri-Mark #2004.</p>	
6	38	N/A	<p>Delete 1" white reflective material from each outer edge door frame.</p>	-\$105.00
7	40	67	<p>The front cab exterior handrail handle material shall be aluminum ILO stainless steel. The handrail shall match the side handrails, but without LED lighting and reflective material. The mounting stanchions shall be offset in an upward direction. The handrail shall be made to be the widest available without creating any clearance issues.</p>	
8	40	68	<p>The interior grab handles within the Predator cab have been changed from black powder coating to natural "wheelabrated" aluminum.</p>	-\$25.00
9	40	68	<p>The driver's side "A" post grab handle shall be relocated to the drivers inner door panel, mounted on an angle as near as possible to the door hinge.</p>	
10	40	70	<p>Clarification; the front cab grille will be a 3-D formed polished stainless steel grille assembly.</p>	
11	40	71	<p>The mesh bug screen located between the cab grille and the chassis radiator will have an American flag design.</p>	
12	41	N/A	<p>The specified polished stainless steel cab corner scuff plates have been deleted as they were deemed unnecessary.</p>	-\$245.00


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13	43	89	The entire top of the engine enclosure (Dog house) will be overlaid with an aluminum mounting panel. The panel will be spaced 1" above the top of the dog house. The panel will be a split design with two equal sized panels.	
14	43	89	The mounting panel mentioned in item #13 can be deleted for a credit.	-\$178.00
15	82	270	The currently specified USB charging ports for the driver, officer and rear of cab have been deleted. A Blue Sea model 4365 accessory panel will be provided. The accessory panel shall include (1) 12-volt power port, (2) dual USB charging ports, along with a circuit breaker switch. The accessory panel will be surface mounted to the rear of the center auxiliary dash panel.	\$173.00
16	87	309	The Federal "Signal Master" controller shall be located within the center overhead dash panel, located toward the driver's side.	
17	94-95	347	A dash mounted switch will be provided within the tractor to activate the PTO generator.	
18	44	92	Clarification; The cab overhead dash will be a fabricated "Vista" design and will feature an angled center portion for added driver and officer convenience.	
19	45, 150	97, 664	The officer's seat will not have SCBA storage. *An additional ZICO spring type SCBA bracket will be provided and mounted within the CR-1 compartment. *Mounting location will be determined during the final inspection of the apparatus.	-\$384.00
20	N/A	N/A	The two-way radio head will not be dash mounted. The remote radio head will be mounted on top of the center dash extension, using a swivel which will allow for both front seat occupants to control and view. A new revised dash drawing will be provided. *Disregard item #21 of this letter.	
21	N/A	N/A	A dash layout has been approved. A copy will be sent to you for reference. **Please see item #20 of this letter.	
22	46	107	The number of SCBA parade covers has been reduced from 3 to 2.	-\$69.00
23	47-48	115	The side openings of the EMS compartment will be covered with a black nylon webbing type door. The nylon webbing will be 2" wide. The top of the EMS compartment will have 1" square holes punched out for proper circulation of air from the AC unit mounted just above the compartment. The three door openings on the EMS compartment will be maximized for efficiency.	\$388.00

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24	N/A	N/A	<p>The EMS compartment is specified to be 40" wide. At this width there would be a total of 27" available on each side between the compartment and the side wall of the cab. The mounting location for all two way radio components will be inside of the EMS compartment, on the rear wall, as close to the compartment ceiling as practical.</p> <p>*The antenna array will be a single 3" wide channel running across the back of the cab roof 72" in width. All antenna coax cables will terminate in the upper portion of the EMS compartment.</p> <p>*The GPS antenna will terminate at the MDC provision above the Officers globe box.</p> <p>A wire chase will be provided from the EMS compartment to the center dash for additional wiring needs and the two-way radio remote head.</p>	
25	50	126	<p>The HVAC controls will be the manual type, not through the multi-plex system. The controls will be located within the driver's overhead dash panel.</p>	\$305.00
26	50, 118	127,502	<p>The Bergstrom auxiliary AC system has been changed to a 12 volt system ILO 24 volt. A voltage converter to convert 110 volt power to 12 volt power for the aux AC system will be provided. The system shall be powered through the blue shoreline power auto eject. The system shall be managed through the load manager to shut down auxiliary AC system in the event that the battery power drops below recommended levels. This electrical system shall feed both the cab mounted and the tiller cab mounted auxiliary AC systems.</p>	
27	51	130	<p>The auxiliary cab lift control shall be located in the Officers side lower step area CR-3. The tether control for the cab tilt shall be hard wired and shall also be located within the CR-3 compartment.</p>	
28	51	133	<p>The cab lift eye system shall be much like the LA County units except with a removable swiveling hoist ring provided for each of the two (2) lift points. The mounting locations for the swivel hoist rings shall have a cap to prevent water/dirt intrusion. Each of the mounting locations for the swivel hoist rings mounting locations shall have a stainless steel backing plate. The swivel hoist rings shall be shipped loose.</p>	

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29	52, 99	136-137, 378	The front bumper extension shall be 10" inches ILO of 6" inches. The Federal Q2B siren shall be fully recessed into the bumper on the driver's side. The originally specified chrome plated tow eyes shall be replaced with the KME lift and tow provision. The lift and tow option shall be painted frame/chassis color (red).	\$692.00
30	52-53	138	The currently specified Meritor front axle will be upgraded to the Hendrickson "Steertek" NXT axle/suspension system. *The Hendrickson "Steertek" axle system will have a GVW rating of #22,000. EX-225 disc brakes along with oil seals will be provided as standard equipment.	
31	55	155	A total of 8 LED tire pressure caps will be provided.	
32	59	171,172	A total of two (2) parking brake controllers will be provided. The primary controller shall be located in the dash on the driver's side and the emergency/auxiliary controller shall be located in the officer's side dash. See dash layout drawing for exact component location.	
33	59-60	174	The currently specified Kussmaul compressor will be upgraded to a Blue Sea model 7920, 12-volt compressor. This compressor will only operate when the truck is plugged into a shoreline plug.	-\$76.00
34	63	185	A complete list of coolant hoses and filter manufactures along with part numbers will be provided at time of apparatus delivery.	
35	65	196	KME will provide you with a performance scan showing performance using different gear ratios.	
36	68	215	Clarification; 4' of additional fuel hose will be provided and coiled on top of the fuel tank in order that in the event that the tank needs to be serviced or removed, preventing the removal of the fuel hose.	
37	102	387	The tractor fenders will match those which were installed on the Nashville TDA. GSO #10615 	

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38	73	231	<p>During the meeting we discussed in depth the REV Axis, vehicle monitoring system. Two questions were asked.</p> <ul style="list-style-type: none"> • <i>What will be the cost for the data after the 5-year initial startup program expires?</i> Presently, the monthly costs range from \$25-\$30. • <i>Define who owns the data stored in the cloud?</i> The data is stored in a cloud, accessible by the OEM, the dealer and the customer. 	
39	72	228	<p>During the meeting the question was asked, "Can the V-Mux screen be programmed to show if there is trouble within one of the multi-plex modules"? Answer; The screen cannot be programmed to automatically show when there is a module fault, however, a secondary screen is available which will scan the modules and indicate any faults.</p>	
40	75	235	<p>Upgrade the 320-amp Delco-Remy alternator to a 430-amp alternator. (Same brand)</p>	\$369.00
41	75-76	238	<p>The battery box covers will be fabricated from non-skid aluminum tread-plate.</p>	
42	76	240-241	<p>The currently specified Kussmaul "auto-ejects" will be changed to Blue-Sea "Sure-Eject" A Red cover will be for the charging the electrical system and batteries. A Blue cover will be for the auxiliary AC system.</p>	\$98.00
43	76-77	245	<p>The currently specified Kussmaul battery charger will be changed to a Blue-Sea model 7532 charger. This charger is rated at 12-volt DC 40-amps.</p>	-\$180.00
44	N/A	N/A	<p>The ignition "on" light specified for the front face of the cab has been deleted.</p>	-\$134.00
45	N/A	N/A	<p>The specified Mobile Vision multi use power ports listed in the spec have been deleted.</p>	-\$103.00
46	N/A	N/A	<p>The 12-volt power ports specified for the driver and officer's dash panel have been deleted.</p>	-\$155.00
47	N/A	N/A	<p>The 12-volt power outlet specified for the rear of the cab has been deleted. (Credit included in Line# 15)</p>	
48	N/A	N/A	<p>The USB ports specified for the rear crew area have been deleted.</p>	-\$236.00
49	N/A	N/A	<p>The 12-volt power and ground studs specified for the top of the dog house have been deleted.</p>	-\$249.00

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50	N/A	N/A	<p>A total of three 12-volt power and ground studs will be provided within the EMS compartment, located near the top rear center of the compartment. The studs will be 3/8" and will be fused at the batteries. The studs will be as follows:</p> <ul style="list-style-type: none"> • Stud #1, 40-amps, constant hot, battery direct • Stud #2, 40-amps, switched with mastery battery • Stud #3, direct ground to negative terminal of chassis batteries 	
51	84	283	<p>There will be a total of four (4) Tecniq E96 LED docking lights ILO of two (2) lights. Lights will be activated by the turn signal switch on the Tillerman's steering column. Left turn activation will activate the drivers side lights, right turn activation will activate the officers side lights. All four (4) lights will activate when the transmission is placed in reverse. A high beam activation from the Tillerman will also activate all four (4) lights.</p>	\$537.00
52	N/A	N/A	<p>The specified Federal Signal model COMLS15K-800 front brow lights and all related components have been deleted.</p> <p>A Fire Tech HiViz 80" wide, model FT-B-80-W (County does not want marker lights in the brow light, the part number provided is a special order through Firetech) will be provided. Although there are three separate circuits within the HiViz bar, a single switch within the KME cab switch panel will control all three circuits. The brow lights shall be controlled through the V-Mux multi-plex screen.</p>	\$305.00
53	86	295	<p>The Federal Signal cab roof light bar shall have a feature, which will allow for forward facing scene lights. These lights will be controlled thru the V-Mux multi-plex screen. *Please verify the model number of the Federal bar light.</p> <p>Federal Signal 87" Navigator light bar system, Part #: 1532275834 (Part # is custom for Riverside County Fire) A lightbar layout shall be provided to Riverside County Fire for approval prior to ordering.</p>	
54	87-88	305-307,311	<p>Clarification; All of the side facing warning lights, including those on each of the outrigger panels will be Whelen M6 Linear Super-Led surface mounted warning lights. The lens will be clear, ½ of the light shall have red led, and ½ of the light shall have clear leds. These light will flash alternating between red and clear until the park brake is set, at that time all flashing white lights must be shed.</p>	

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55	87,93	309,342	The Federal Signal Master will be changed to a 6 light unit. A separate Federal Signal red 3 rd brake light will be provided. The brake light shall be located below the Signal Master on the rear facing surface of the tiller cab.
56	88	313	The scene lights mounted on the tiller cab will be controlled from within the tiller cab. There shall be a switch to control the front facing lights and a separate switch to control the rear facing lights. The scene lights mounted on both the front and rear of the tiller cab will be Whelen M7 scene lights with a clear lens.
57	94-95	347	The generator will be changed from the originally specified Onan 10K to Harrison 10K model MAS-16R. *The Harrison generator will package much more efficiently. The measurements for the Harrison generator are 31" long x 21" wide x 18" tall. I will provide you with all available specification/repair/warranty information.
58	96-97	355-356	The Federal Signal pedestal mounted LED scene lights to be mounted above the L/R-3 and L/R-6 for a total of 4 lights (2 each side). These lights shall be switched at the electrical breaker only.
59	97	358	The 120-volt receptacles listed for the rear of the body as well as on each of the junction boxes will be: L5-15 15-amp twist-lock
60	98-99	374	The air horns shall be controlled by a foot mounted switch on the Driver's side and a dash mounted switch on the Officers side.
61	98	373	The center horn button on the driver's steering wheel shall have a two (2) way switch to allow the selection of either the DOT horn or the electronic siren.
62	98	371	Grover air horns shall comply with section 2.135 of the customer's specification (One horn will be 15 inches while the second horn will be 24 inches in length, both with a 6 inch flare).
63	101-102	385-386,389-390	Trailer wheel well storage shall be designed and configured to hold the following items: There shall be storage space within the wheel wells both forward and rearward of the trailer wheel on each side of the trailer. Each space will have a latching door that is painted job color (red). The driver's side will accommodate up to four (4) 60 minute 4500 Scott SCBA cylinders and one 20 pound Ansul cartridge dry chemical extinguisher. *The number of SCBA cylinders is reduced from 5 to 4 due to the cartridge type extinguisher. The Officers side will accommodate five (5) 60 minute Scott SCBA cylinders and one (1) 2 ½ gallon pressurized water extinguishers.

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64	102	391	L/R-8 Compartment will be located forward of the tiller cab access ladder directly adjacent to the trailer wheel well. The compartment dimensions will be approx. 41 inches wide x 31 inches high x 28 inches deep. There shall be a minimally sized bump out within the compartment back wall to accommodate the trailer steering gear.	
65	91-92	328	All door open/close indicator switches shall be of the magnetic design ILO of plunger style. FDNY standard.	
66	102-103, 110	391,451	The T-4 compartment (located at the rear of the body) shall be designed to be as deep as possible. A 250 pound rated floor mounted roll out tray with locking slides (no pneumatic struts) shall be provided. *this tray to be used by firefighters as a work station for rebuilding chain saws.	\$775.00
67	92	333	Two (2) Tecniq model E07; Recessed LED lights will be provided and located within the interior door of the T-1 compartment door. Lighting intent is to provide a well-lit working area for the pull out surface in the T-4 compartment.	\$538.00
68	102-103	391	The compartment doors of the T-2 and the T-3 compartment will be hinged outboard.	
69	102-103	391	There shall be a T-5 compartment located below the T-1 compartment at the rear of the body. The T-5 compartment shall have a latching door that is hinged at the bottom. This compartment will be designed to hold four "D" handled Rubbish hooks (three 6 foot and one 4 foot) and two "D" handled ceiling/wall hook (Nupla CWH-4YDA).	
70	98, 103	365,392	The CL/R-1 compartments shall be sized to accommodate the electric cord reels along with the electric junction boxes. Each cable reel shall be sized accordingly to accommodate 200' of 12/3 electric cable.	
71	98	366-368	The electrical cord reel junction box shall be stored attached to the cord reel. A secure mounting location shall be provided within the CL/R-1 compartment. *Note, the junction boxes will not be hard wired to the end of the cable reel. Each box shall have a 6" pigtail. The cable reel shall terminate with the appropriate receptacle, as chosen in item #59 of this letter.	
72	108	425	A 6' fiberglass ladder shall be provided ILO the originally specified 8' ladder. (Warner #6206)	- \$57.00
73	104	395	The body doors for the tractor and trailer side body compartments will be the beveled overlapping design. The doors on the rear of the trailer will be the flat overlapping design, this is to allow for proper installation of the chevron striping material.	
74	105	400	All compartment door locks shall utilize a #1250 key. A total of 4 keys will be provided with each apparatus.	

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75	105	405	The winch receiver points shall be located under the L/R-7 compartment towards the seam of the L/R-6 and L/R-7 compartments. Receiver shall be rated at a minimum of a Class 4 (10,000 lbs.).	
76	108	424	Clarification; A total of (2) two folding attic ladders will be provided. Credit (1) one ladder.	-\$215.00
77	110	452	The 500 lb. rated slide out trays shall be Slide Master brand. Each tray shall be held open and closed with a manual ¼ turn release (turn lock).	
78	109-111	433-457	<p>Compartment shelf's and pull out trays shall be as follows:</p> <p>*Note; Each of the trailer side body compartments will have Uni-strut channels provided for future installation of compartment accessories.</p> <p>*All adjustable shelves to have 2" lips front and back, unless otherwise noted.</p> <p>CL-2 One adjustable shelf with a 1 inch lip on the outer edge.</p> <p>L-1 Nothing planned for this compartment at this time. (Two adjustable shelves have been deleted.)</p> <p>L-2 A total of two (2) adjustable shelves The upper with a 1 inch outer lip</p> <p>L-3 No shelf. Unistrut only.</p> <p>L-4 Three (3) adjustable shelves</p> <p>L-5 Two (2) adjustable shelves</p> <p>L-6 Two (2) adjustable shelves Both with 1 in lip</p> <p>L-7 One adjustable shelf with a 2 inch lip and One floor mounted pull out tray, 250 lbs. rated, 2 inch lip/edge.</p> <p>L-8 No shelf. Unistrut only.</p> <p>CR-2 One adjustable shelf with a 1 inch outer lip.</p> <p>R-2 One adjustable shelf with a 1 inch outer lip.</p> <p>R-3 An upper located 60 inch deep pull out tray, 500 lbs. rated with 6 inch high lips.</p>	-\$110.00

Attachment: FPARC-07057-002-0524 KME 101' TDA FINAL Quote [Revision 1] (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER

			<p>One (1) adjustable shelf with a 1 inch lip. Mid mounted. A floor mounted 70 inch deep pull out tray, 500 lbs. rated with 4 inch high lips.</p> <p>R-4 A top mounted 70 inch deep pull out tray, 500 lbs. rated with 2 inch high lips. One (1) adjustable shelf with a 1 inch lip. Mid mounted. A floor mounted 70 inch deep pull out tray, 500 lbs. rated with 4 inch high lips.</p> <p>R-5 One (1) adjustable shelf with a 2 inch lip. Top mounted. Three (3) adjustable shelves with a 1 inch lip. Mid mounted. A floor mounted 70 inch deep pull out tray, 500 lbs. rated with 4 inch high lips.</p> <p>R-6 One (1) adjustable shelf with a 2 inch lip. Top mounted. Two (2) adjustable shelves with a 1 inch lip. Mid A floor mounted pull out tray, 500 lbs. rated that is located under the frame with 6 inch high edges (right, rear, left), but no lip on the front/Officers side. Gas shock. Accessed from the Officers side only. *Tray approx. 36" x 36".</p> <p>R-7 One (1) adjustable shelf with a 1 inch lip.</p> <p>R-8 A floor mounted pull out tray, 500 lbs. rated with 2 Inch high edges.</p>	
79	55,112	148,152, 467	All of the wheels will be Alcoa brand polished aluminum. The originally specified Dura-Bright wheels are not available in the sizes required for this application, thus all wheels will be polished aluminum.	-\$606.00
80	112	468	A compartment shall be provided to the rear of the chassis locker compartments as large as possible with a vertically hinged swing out door. This compartment shall also act as a step to access the ladder turntable. This compartment shall be identified as CL/R-3.	
81	106	411	The side panels on the trailer, outboard of the ladder storage area will be smooth aluminum, painted job color red.	

Attachment: FPARC-07057-002-0524 KME 101' TDA FINAL Quote [Revision 1] (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER

82	114	479	Tiller driver’s seat shall be non-air ride with adjustable fore/aft seat base. USSC seat, I back ABTS with Ready Reach seat belt holder.	-\$309.00
83	116	490,491	All of the tiller cab mirrors, both interior and those to be mounted on the body will be located and mounted during the final inspection.	
84	116	489	The hand rails on the exterior of the tiller cab will match those on the exterior of the tractor. White LED lighted with red reflective strips.	
85	117	496	Delete the “boat” style light on top of the cab roof. Provide an amber surface mounted light located at the center rear of the antenna array/rear or the roof mounted HVAC. Must be visible to the rear for the Tillerman to use for alignment.	
86	117	498	The tiller cab buzzer shall be activated through the Tillerman’s steering wheel center horn push button activator.	
87	117	497	The tiller safety shift system shall incorporate a linemaster switch, floor mounted on the Officers side of the tiller cab floor. The system shall reset with park brake activation. *Note; this system will allow for the tractor driver to start the engine, but the transmission will not shift out of neutral until the tiller driver is depressing the floor mounted switch.	
88	117	499	The “jack knife” alarm will be silenced whenever the park brake is set.	
89	117-118	501	There will only be a total of (2) two circulation fans within the tiller cab. Both fans will be located near the front windshield. *Credit 2 specified fans.	-\$134.85
90	118	502	Auxiliary AC tiller cab system to be 12 volt Bergstrom system	
91	123	518	Clarification; The manual handles for the outriggers and 5 th wheel will be oriented as follows, working from left to right Drivers side beam Officers side beam Drivers side jack Officers side jack 5 th wheel lock. *This configuration matches your current KME TDAs.	
92	N/A	N/A	The currently specified “creeper” or ladder tip controls have been deleted.	-\$2,850.00
93	130	550	The outrigger foot pads will be the larger “California” style.	\$380.00
94	N/A	N/A	The auxiliary ground pads have been deleted as they are not required when the California foot pads are provided.	-\$180.00
95	N/A	N/A	Clarification; The hydraulic system on the KME TDA does not require manual pins for the outrigger jacks.	

Attachment: FPARC-07057-002-0524 KME 101' TDA FINAL Quote [Revision 1] (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER

96	128	542	A guarded momentary toggle switch will be provided for the outrigger/aerial manual over-ride system. A keyed system will not be acceptable.	
97	87-88	311	The Whelen M6 Linear Super-Led surface mounted warning lights mounted to the outside of the outrigger panels will be red/clear to match the remaining warning lights in zones B/D lower.	
98	132	560	The Man-saver bars at the openings on the turntable will not have a padded covering.	
99	134-135	571	Clarification; A folding attic ladder will be mounted within the aerial fly section. The ladder will be mounted to the driver's side of the ladder, as viewed when the aerial ladder is resting in the cradle.	
100	135	575	The 14' roof ladders (Two (2) will be provided) will be Duo-Safety model 775DR-14 and shall have folding hooks on each end of the ladder.	
101	135	574	Clarification; The folding steps within the fly section will have a cut out to allow for the 3" hose to be used in conjunction with the clamp-on monitor.	
102	135	574	The bolt-on egress will have an electro-polished finish. It will not be painted.	-\$236.00
103	137	586	The 120-volt lights located at the tip of the aerial ladder will have a "cutoff" switch located on the turntable pedestal. One switch will control both lights. Note; Each light will have its own individual switch mounted on the light head.	
N/A	N/A		The Class-1 "load-minder" has been deleted along with the amber warning lights which are specified to be mounted on the tip of the base section. Note; A load-minder is provided as standard within the KME IQAN system. A visual and audible warning will be provided at the turntable console to alert when a ladder overload situation occurs.	-\$525.00
104	N/A	N/A	During the meeting we discussed the camera system for the tip of the aerial. I have reached out to Fire Research Corp and they have advised me that wireless camera system has been tested and in an unobstructed situation, the range is at least 300 hundred feet. They are also looking into the availability of a hard wired system.	
105	N/A		The specified aerial camera system will be provided.	

Attachment: FPARC-07057-002-0524 KME 101' TDA FINAL Quote [Revision 1] (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER

106	104	393	The hose storage compartment located at the rear of the tractor cab, in between the locker compartments shall have a storage capacity for 150 feet of 3 inch hose. A latching tread-plate cover shall be provided and designed to be utilized as a walking surface. The hinge shall be towards the tractor. The lid and rear vertical surface to hinge upward to allow for hose deployment. A gas shock strut system to hold the door in the open position shall be provided.	
107	140	607	A mount shall be provided for the Akron ladder pipe to securely be carried/stored. Final mounting location shall be made at the final inspection.	
108	146	624	The interior of both the tractor cab and the tillerman's cab will be sprayed with black Line-X	
109	145-148	621,626,635,639	The chassis, torque box, trailer frame along with the underside of both the tractor and trailer compartments will be painted job color red.	
110	146	627-629	The body compartment interiors along with the fender storage compartment interiors will be sprayed with dark gray Line-X.	
111	N/A	N/A	The Tuff-Coat undercoating listed within the KME proposal has been deleted.	-\$880.00
112	148	648	The customer will supply two (2) county and two (2) city logos for each unit.	
113	148	649	An American flag, non-waving, decal will be provided and installed on each aerial sign panel, located toward the tip of the aerial device.	
114	149	660	The sign panels for the four trucks will be lettered as follows; City of Temecula City of Moreno Valley Cove Communities City of Menifee	
115	N/A	N/A	The 1" reflective striping listed within the KME proposal to border each compartment door has been deleted.	-\$986.00
116	149	655	The rear trailer vertical surface of the body shall be 100% reflective chevron covered. Rear surface of the tiller cab is not to be covered. The reflective material shall be Ora-lite, red/lime green.	
117	150	662	Clarification; The 3" hose for the clamp-on monitor will have 2 1/2" National Standard Threads (NST)	
118	150	663	The part number for the TFT Jumbo Gate valve is #-AN4P7P02 The valve shall be painted silver as per TFT standard.	

Attachment: FPARC-07057-002-0524 KME 101' TDA FINAL Quote [Revision 1] (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER

119	150	664	A total of three (3) Zico SCBA bottle brackets shall be provided. The mounting location shall be determined at the final inspection. The Zico part # is UH-6-30-2-SF	
120	150	665	A total of five (5) Fire Vulcan hand lights shall be provided ILO seven (7). The lights shall be mounted in the following compartments: Two (2) in the rear doghouse area of the cab, adjacent to each rear facing seat. (1) within the CL-2 compartment (1) within the CR-2 compartment (1) within the L-8 compartment *Exact mounting locations within these compartments will be determined during an in-process or final inspection.	-\$246.00
121	48	119	KME will provide and install an engine access storage module. This storage module will provide storage for up to 6 map books along with a center storage tray for small equipment or personal belongings. Four individual cup holders will be provided. The exact mounting locations to be determined during an in-process inspection.	\$1,240.00
122	150	667	Exact in-service date language will be agreed upon at time of contract signing.	
123	93	341	The front turn signals, along with the rear, tail, turn, and back-up lights will be changed from Federal Signal to Whelen M6. The rear Zone-C lower warning lights will be included within the Whelen quad light bezels located each side of the rear of the trailer.	
124	86	296-300	The inboard warning lights within the lower Zone-A headlight bezels will be Whelen M6, part #M6RC, red leds with a clear lens.	
125			**The changes to upgrade the currently specified Federal lights listed within this letter in red, to Whelen M-Series has resulted in a price increase of \$3,000.00 per truck.	\$3,000.00
126	73	230	The Officers side V-Mux screen will be mounted in the area directly forward of the officer's seat. A fabricated box will be provided and mounted to the dash in this area. The Officers side dash wing panel will remain open as this area will be utilized by the customer for mounting the MDC and keyboard. *A revised dash layout will be provided for your approval.	\$475.00

Attachment: FPARC-07057-002-0524 KME 101' TDA FINAL Quote [Revision 1] (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER

If all of the above changes are accepted the Credit per each apparatus would be **(\$20.85)**. Should you decide not to do an individual item, the credit would be changed accordingly.

Thank you again and if there are any questions please do not hesitate to contact me at 570-669-5224 or mboyle@kmefire.com. We look forward to working with you and your department.

Respectfully,

Mark Boyle

Mark Boyle
Contract Administrator

Fire Department / Municipality Authorization

Signature: _____

Print Name: _____

Title: _____

Date: _____

Attachment: FPARC-07057-002-0524 KME 101' TDA FINAL Quote [Revision 1] (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER

**EXHIBIT A – ATTACHMENT # 5
DRAWINGS**

Attachment: FPARC-07057-002-0524 KME 101' TDA FINAL Quote [Revision 1] (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER

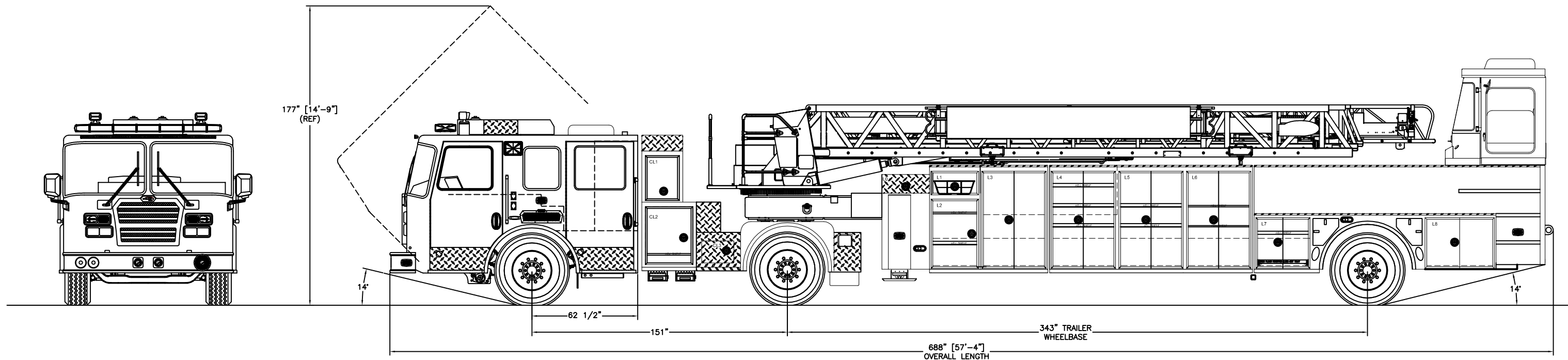
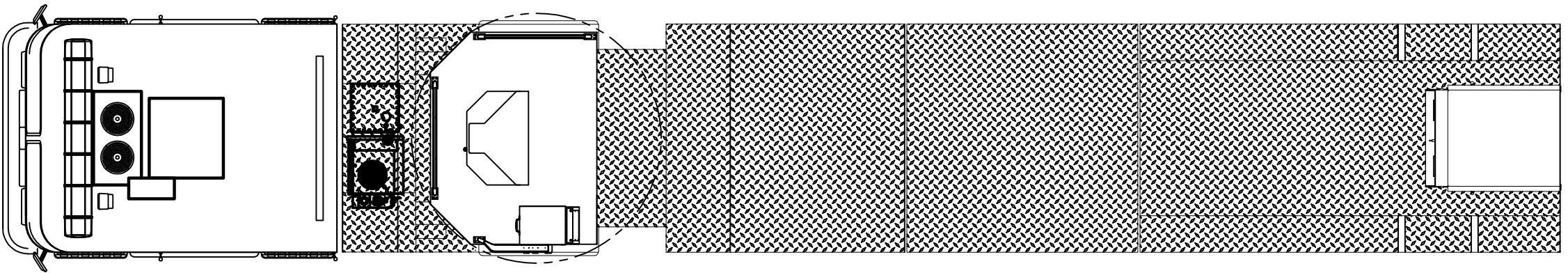
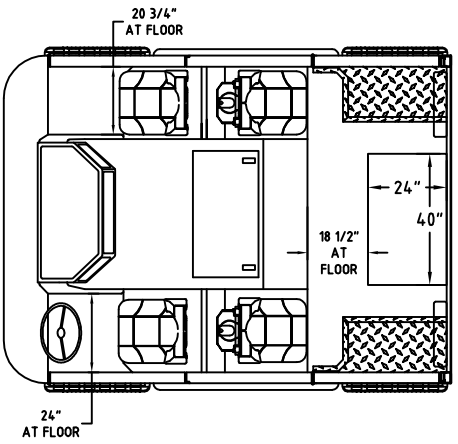
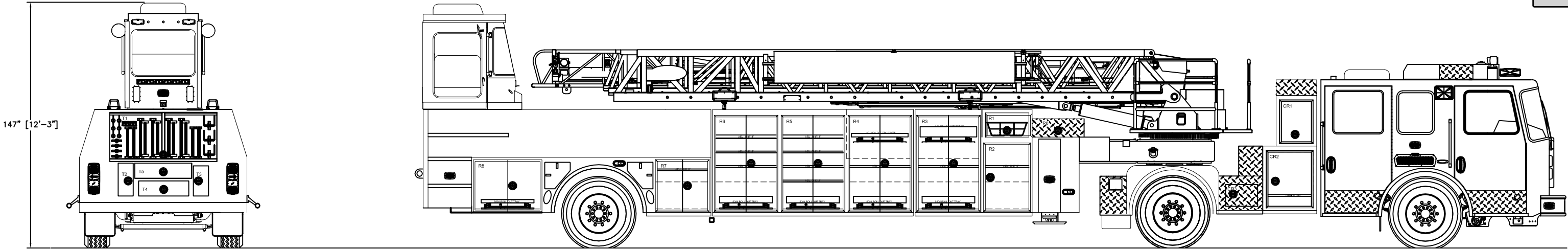


Exhibit A - Attachment # 5
Drawing # 1

CAB: PREDATOR MFD FLAT ROOF
ENGINE & TRANS. CUMMINS X15 600 /ALLISON 4500 EVS
AXLES: 21,500# FRONT/31,000# REAR/ 23,000# TILLER
PUMP: N/A
WATER TANK: N/A

THIS DRAWING IS A GENERAL CONFIGURATION AND MAY NOT NECESSARILY REFLECT ALL CONTRACTUAL REQUIREMENTS. CONTRACT SPECIFICATIONS SHALL PREVAIL OVER DRAWING.

CUSTOMER APPROVAL:
NAME: _____
TITLE: _____
DATE: _____

SYM	DATE	REVISION DESCRIPTION	APP'D
D	3/12/2019	UPDATED TO SHOW WHELEN LOWER LEVEL LIGHTS	MB
C	02/21/2019	AS PER PRE-CONSTRUCTION LETTER	MB
B	09NOV18	CLARIFICATION LETTER DATED 07NOV18	JJB
A	9/25/18	DRAWING FOR BID PROPOSAL	ZCZ

SALES ENGINEER : MARK BOYLE

DIMENSIONS ARE APPROXIMATE & MAY VARY DUE TO BUILD ADJUSTMENTS

SCALE	DWG SIZE	DRAWN BY	DATE
NONE	B	Z.ZSCHUNKE	10/16/18

APPROVED BY: P.HOHERCHAK

101' TRACTOR DRAWN AERIAL LADDER
RIVERSIDE COUNTY, CA

PROPOSAL DRAWING



Attachment: FPARC-07057-002-0524 KME 101' TDA FINAL Quote [Revision 1] (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER

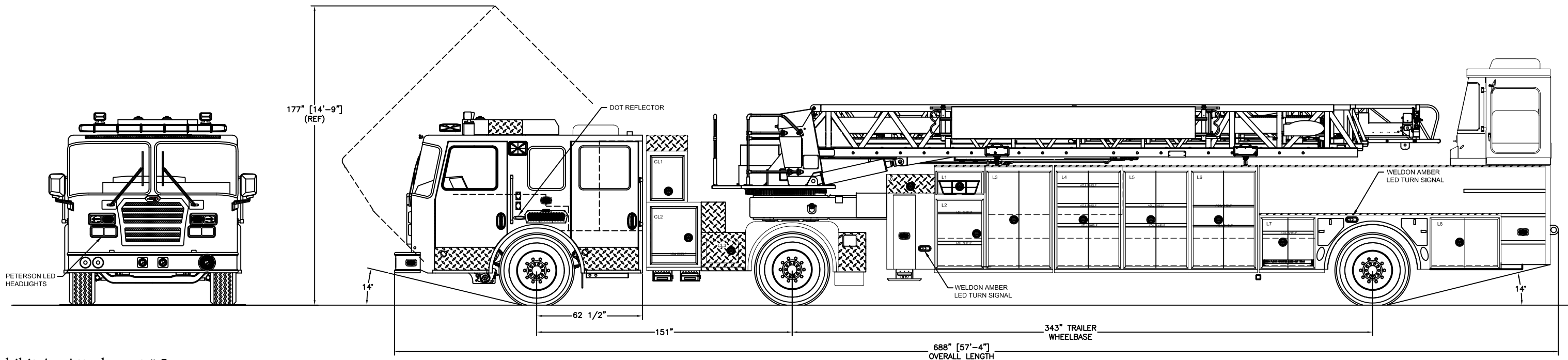
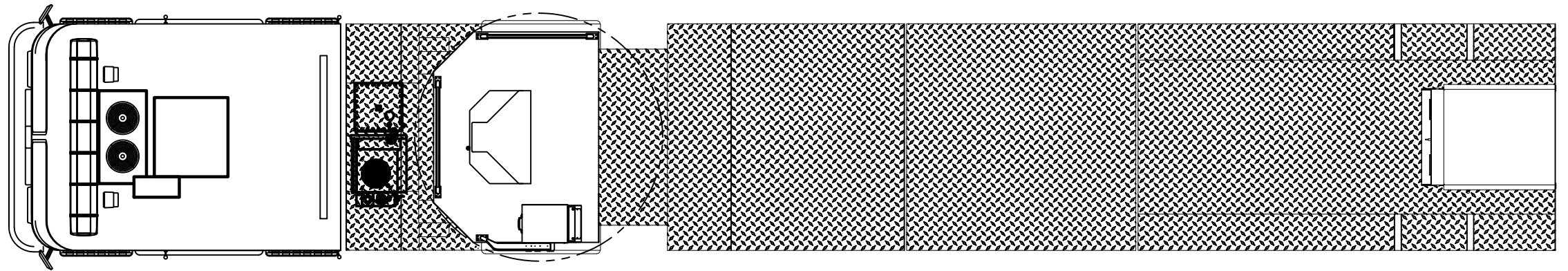
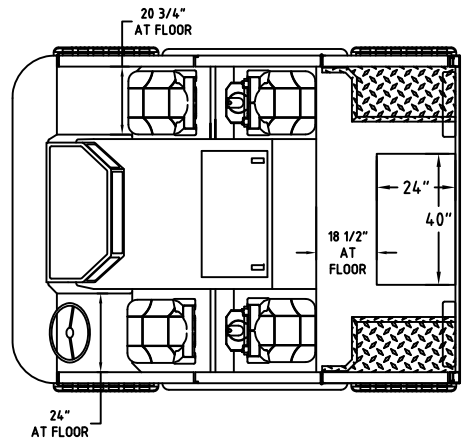
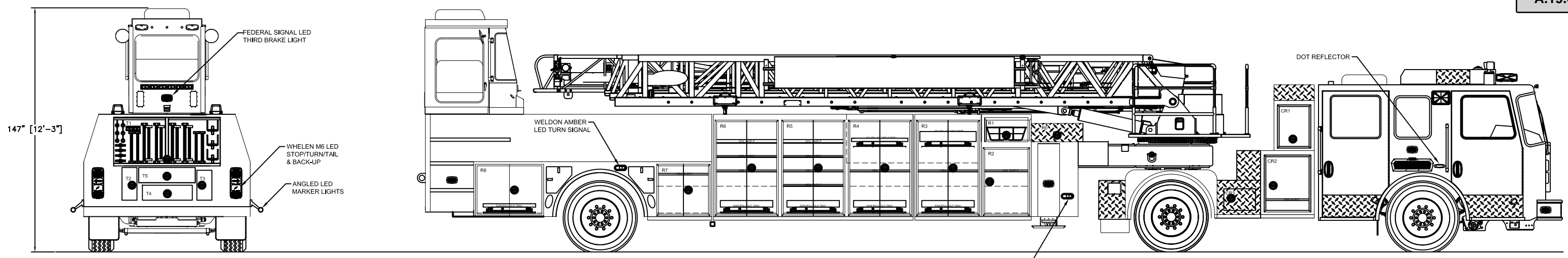


Exhibit A - Attachment # 5
Drawing # 2

CAB: PREDATOR MFD FLAT ROOF
ENGINE & TRANS. CUMMINS X15 600 /ALLISON 4500 EVS
AXLES: 21,500# FRONT/31,000# REAR/ 23,000# TILLER
PUMP: N/A
WATER TANK: N/A

THIS DRAWING IS A GENERAL CONFIGURATION AND MAY NOT NECESSARILY REFLECT ALL CONTRACTUAL REQUIREMENTS. CONTRACT SPECIFICATIONS SHALL PREVAIL OVER DRAWING.

CUSTOMER APPROVAL:
NAME: _____
TITLE: _____
DATE: _____

SYM	DATE	REVISION DESCRIPTION	APP'D
D	3/12/2019	UPDATED TO SHOW WHELEN LOWER LEVEL LIGHTS	MB
C	02/21/2019	AS PER PRE-CONSTRUCTION LETTER	MB
B	09NOV18	CLARIFICATION LETTER DATED 07NOV18	JJB
A	9/25/18	DRAWING FOR BID PROPOSAL	ZCZ

SALES ENGINEER : MARK BOYLE

DIMENSIONS ARE APPROXIMATE & MAY VARY DUE TO BUILD ADJUSTMENTS

SCALE	DWG SIZE	DRAWN BY	DATE
NONE	B	Z.ZSCHUNKE	10/16/18

APPROVED BY P.HOHERCHAK

101' TRACTOR DRAWN AERIAL LADDER
RIVERSIDE COUNTY, CA

PROPOSAL DRAWING



Attachment: FPARC-07057-002-0524 KME 101' TDA FINAL Quote [Revision 1] (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER

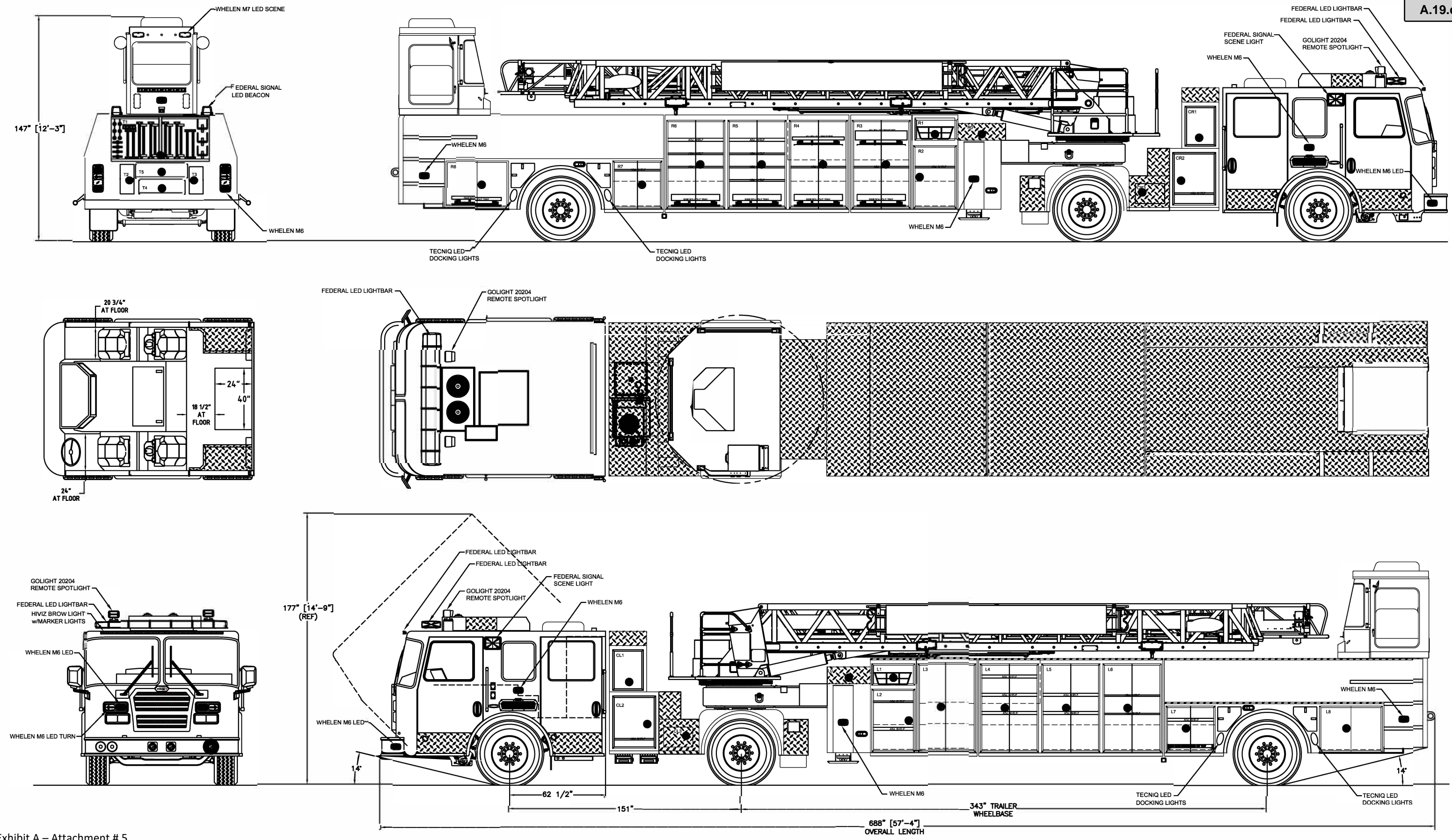


Exhibit A – Attachment # 5
Drawing # 3

CAB: PREDATOR MFD FLAT ROOF
ENGINE & TRANS. CUMMINS X15 600 /ALLISON 4500 EVS
AXLES: 21,500# FRONT/31,000# REAR/ 23,000# TILLER
PUMP: N/A
WATER TANK: N/A

THIS DRAWING IS A GENERAL CONFIGURATION AND MAY NOT NECESSARILY REFLECT ALL CONTRACTUAL REQUIREMENTS. CONTRACT SPECIFICATIONS SHALL PREVAIL OVER DRAWING.

CUSTOMER APPROVAL:

NAME:	
TITLE:	
DATE:	

SYM	DATE	REVISION DESCRIPTION	APP'D
D	3/12/2019	UPDATED TO SHOW WHELEN LOWER LEVEL LIGHTS	MB
C	02/21/2019	AS PER PRE-CONSTRUCTION LETTER	MB
B	09NOV18	CLARIFICATION LETTER DATED 07NOV18	JJB
A	9/25/18	DRAWING FOR BID PROPOSAL	ZCZ

SALES ENGINEER : MARK BOYLE

DIMENSIONS ARE APPROXIMATE & MAY VARY DUE TO BUILD ADJUSTMENTS

SCALE	DWG SIZE	DRAWN BY	DATE
NONE	B	Z.ZSCHUNKE	10/16/18
		APPROVED BY	P.HOHERCHAK

101' TRACTOR DRAWN AERIAL LADDER
RIVERSIDE COUNTY, CA
PROPOSAL DRAWING

KME
REV GROUP
ONE INDUSTRIAL COMPLEX - NESQUEHONING, PA 18240

Packet Pg. 799

Attachment: FPARC-07057-002-0524 KME 101' TDA FINAL Quote [Revision 1] (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER

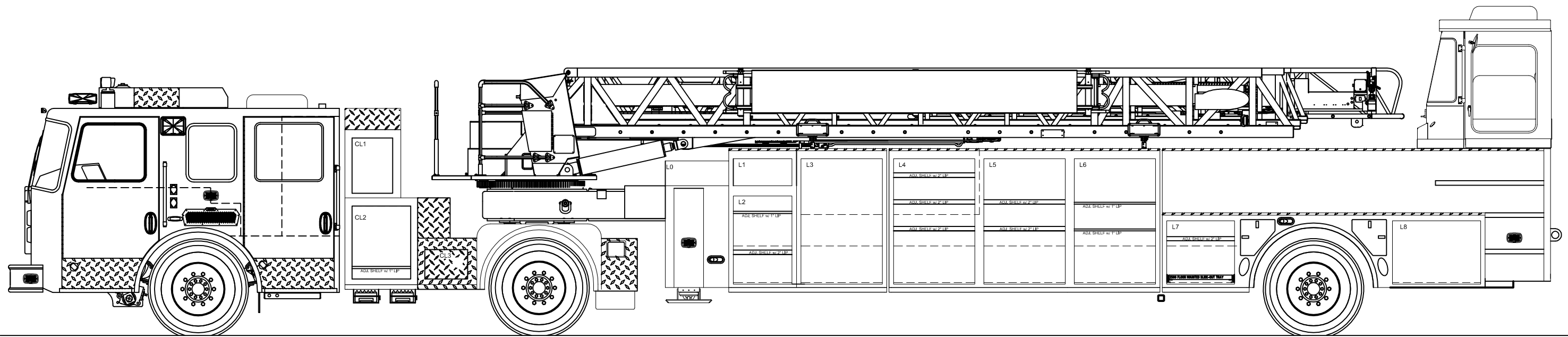
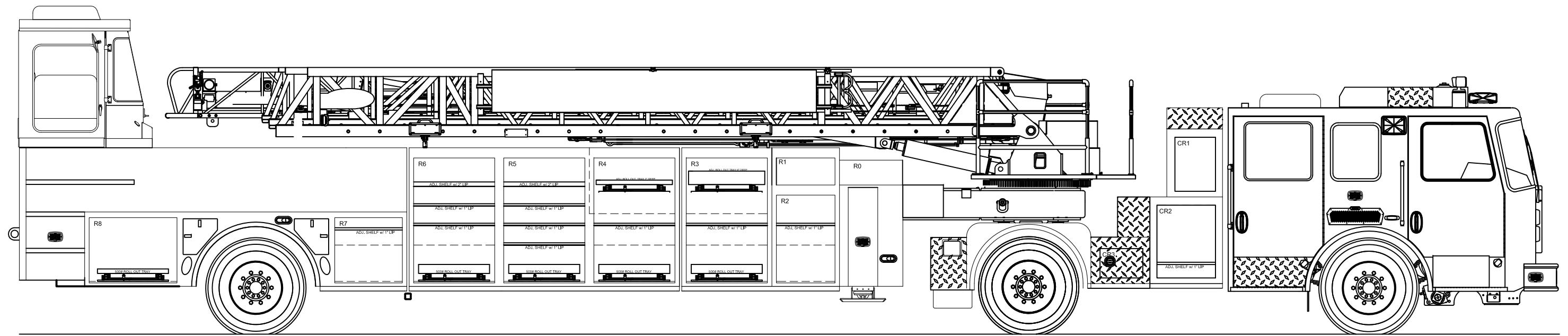


Exhibit A – Attachment # 5
Drawing # 4

RIVERSIDE, CA
DRIVERS SIDE VIEW
COMPARTMENT ACCESSORY LAYOUT



RIVERSIDE, CA
 OFFICERS SIDE VIEW
 COMPARTMENT ACCESSORY LAYOUT

Exhibit A – Attachment # 5
 Drawing # 5

Attachment: FPARC-07057-002-0524 KME 101' TDA FINAL Quote [Revision 1] (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER

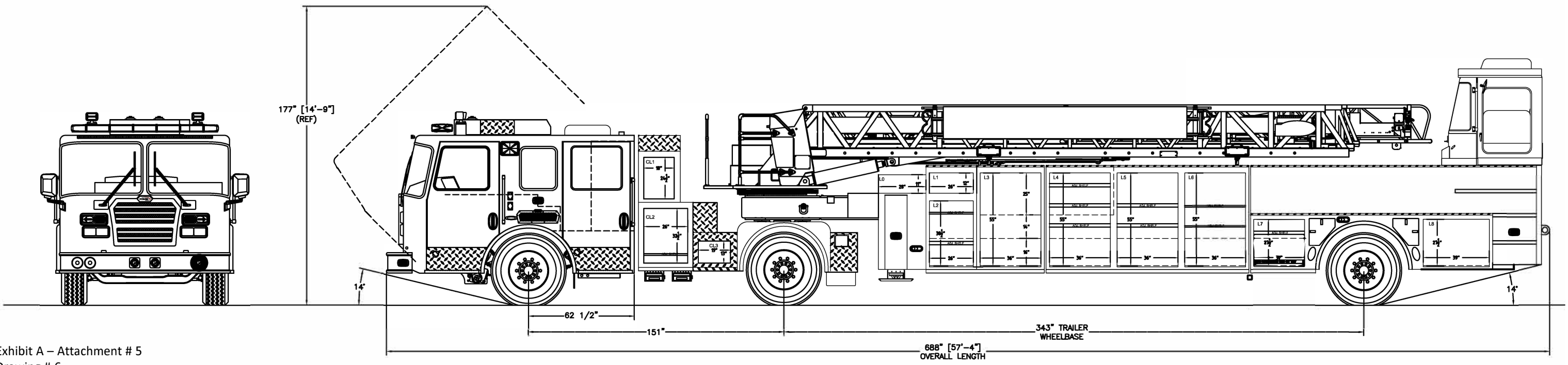
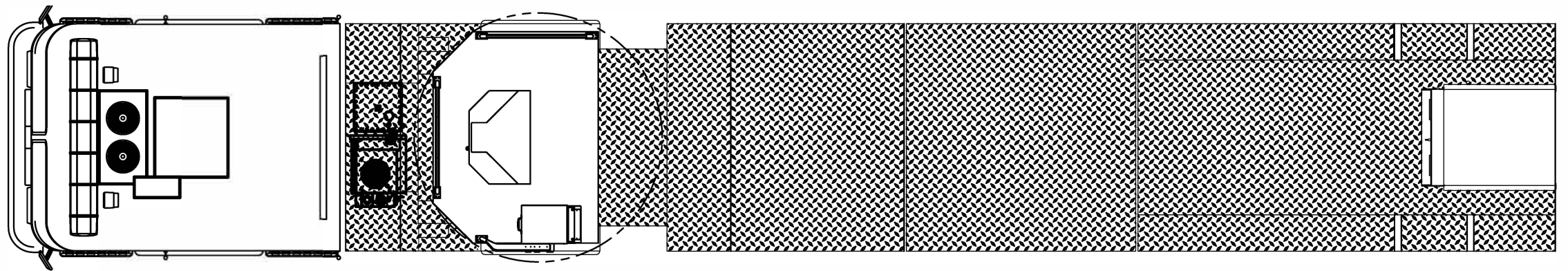
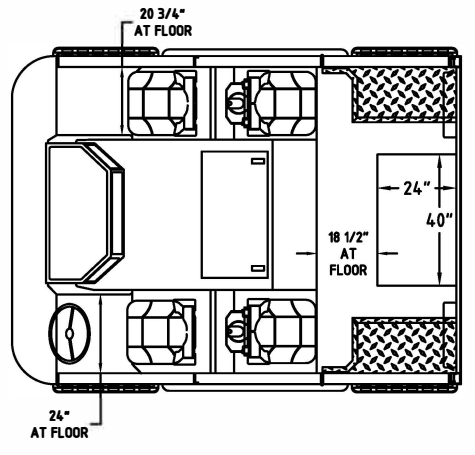
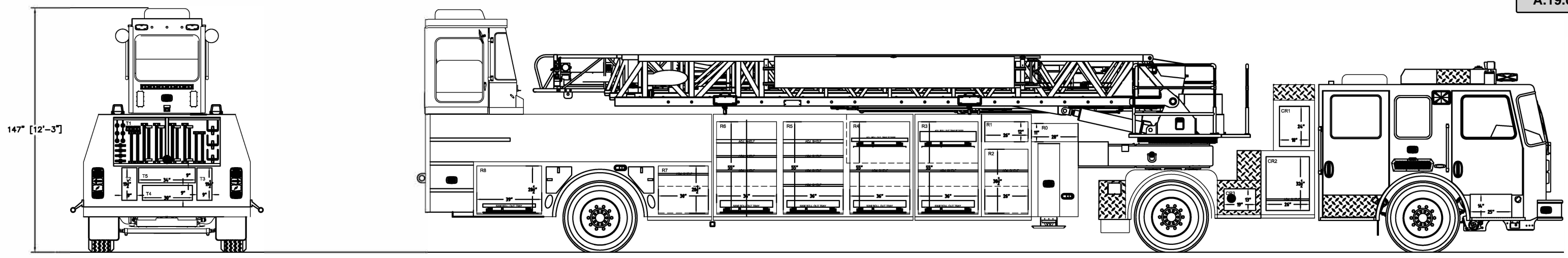


Exhibit A – Attachment # 5
Drawing # 6

CAB: PREDATOR MFD FLAT ROOF
ENGINE & TRANS. CUMMINS X15 600 /ALLISON 4500 EVS
AXLES: 21,500# FRONT/31,000# REAR/ 23,000# TILLER
PUMP: N/A
WATER TANK: N/A

THIS DRAWING IS A GENERAL CONFIGURATION AND MAY NOT NECESSARILY REFLECT ALL CONTRACTUAL REQUIREMENTS. CONTRACT SPECIFICATIONS SHALL PREVAIL OVER DRAWING.

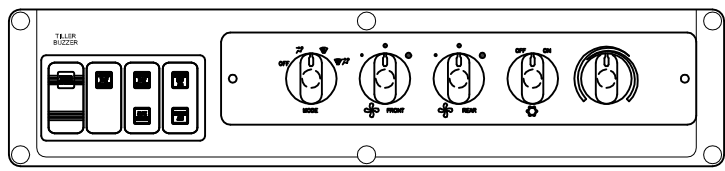
CUSTOMER APPROVAL:
NAME: _____
TITLE: _____
DATE: _____

E	4/4/2019	UPDATED TO SHOW DOOR OPENINGS	MB
D	3/12/2019	UPDATED TO SHOW WHELEN LOWER LEVEL LIGHTS	MB
C	02/21/2019	AS PER PRE-CONSTRUCTION LETTER	MB
B	09NOV18	CLARIFICATION LETTER DATED 07NOV18	JJB
A	9/25/18	DRAWING FOR BID PROPOSAL	ZCZ
SYM	DATE	REVISION DESCRIPTION	APP'D
SALES ENGINEER :		MARK BOYLE	

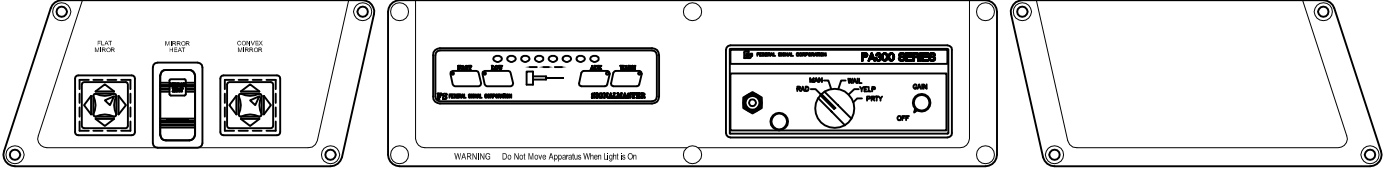
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SCALE	DWG SIZE	DRAWN BY	DATE
NONE	B	Z.ZSCHUNKE	10/16/18
		APPROVED BY	P.HOHERCHAK
101' TRACTOR DRAWN AERIAL LADDER			
RIVERSIDE COUNTY, CA			
PROPOSAL DRAWING			



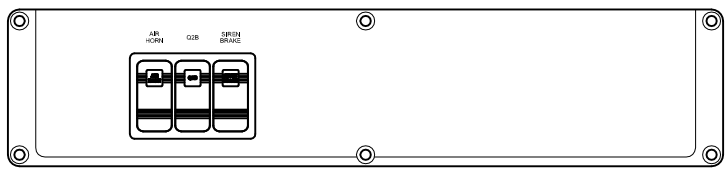
Attachment: FPARC-07057-002-0524 KME 101' TDA FINAL Quote [Revision 1] (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER



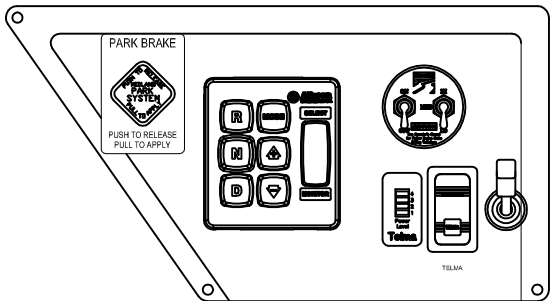
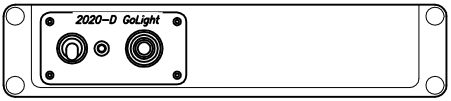
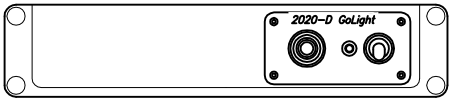
DRIVER FRONT OVERHEAD PANEL
MAX DEPTH 2"



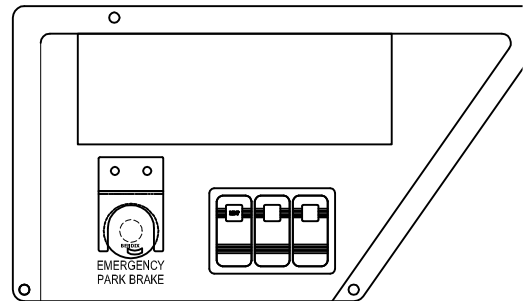
CENTER OVERHEAD CONSOLE PANEL



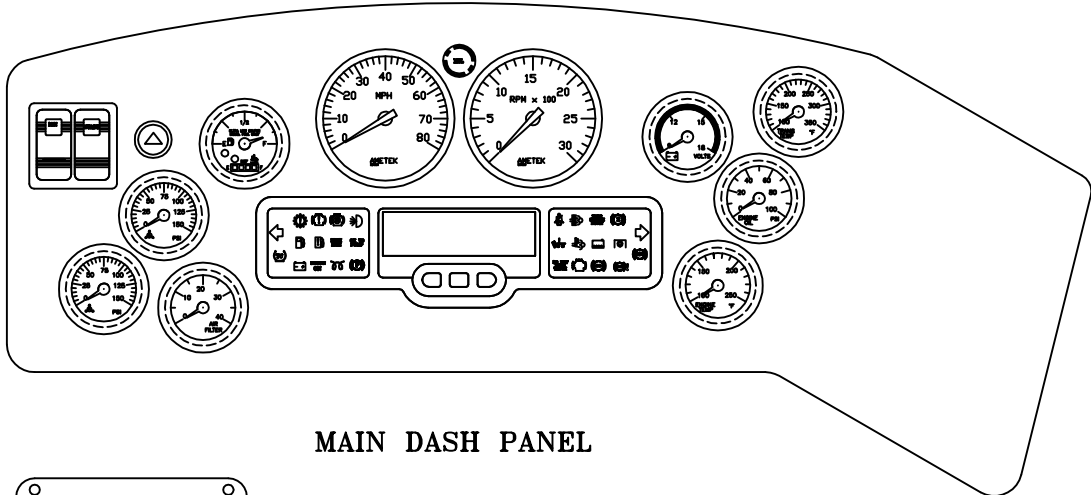
OFFICER FRONT OVERHEAD PANEL
MAX DEPTH 2"



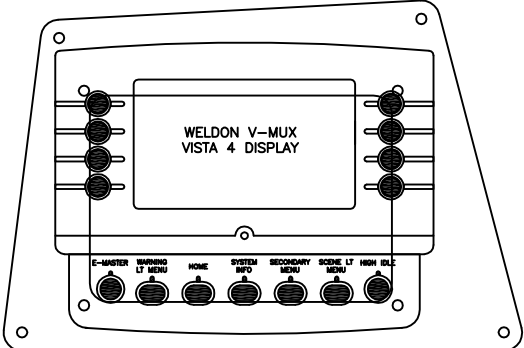
(L.H.) DRIVER AUX. CONSOLE PANEL



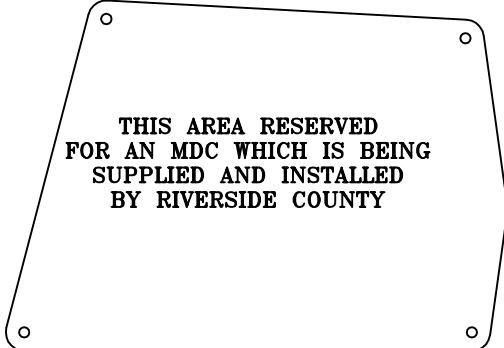
(R.H.) OFFICER AUX. CONSOLE PANEL



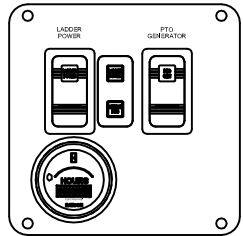
MAIN DASH PANEL



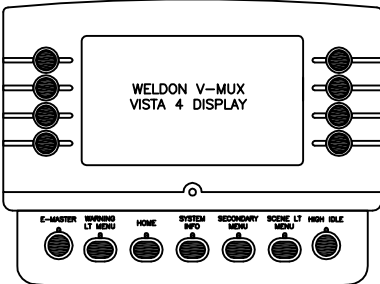
CENTER L.H. DASH PANEL
MAX DEPTH 4"



CENTER R.H. DASH PANEL
MAX DEPTH 4"



LOWER L.H. PANEL



OFFICERS V-MUX SCREEN TO BE MOUNTED FORWARD OF OFFICERS SEAT

NOTE: THE STEERING COLUMN WILL CONTAIN THE FOLLOWING CONTROLS

- WINDSHIELD WIPERS / WASHER
- HEADLIGHT HIGH / LOW BEAM
- TURN SIGNALS
- TILT / TELESCOPE

Exhibit A – Attachment # 5
Drawing # 7

NOTE: DASH RENDERING HAS BEEN CONFIGURED TO MEET CUSTOMER SPECIFICATIONS. ANY CHANGES MUST BE SUBMITTED TO ELECTRICAL ENGINEERING FOR APPROVAL. DO NOT CHANGE MANUALLY.

UNLESS OTHERWISE SPECIFIED ALL DIMS ARE IN INCHES. DO NOT CHANGE DRAWINGS MANUALLY. TOLERANCES: ONE PLACE DECIMAL: ± 0.1 TWO PLACE DECIMAL: ± 0.06 THREE PLACE DECIMAL: ± 0.031 ANGULAR: ± 1.	DESIGNED BY B. Shanfelt	CHECKED BY TITLE	XXXXXXXXXXXXXXXXXXXX - Contract Administrator
	DATE DESIGNED 10/23/2018	REVISION DRAWING NUMBER	
Riverside County, CA (TDA)			Packet Pg. 803

Attachment: FPARC-07057-002-0524 KME 101' TDA FINAL Quote [Revision 1] (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER

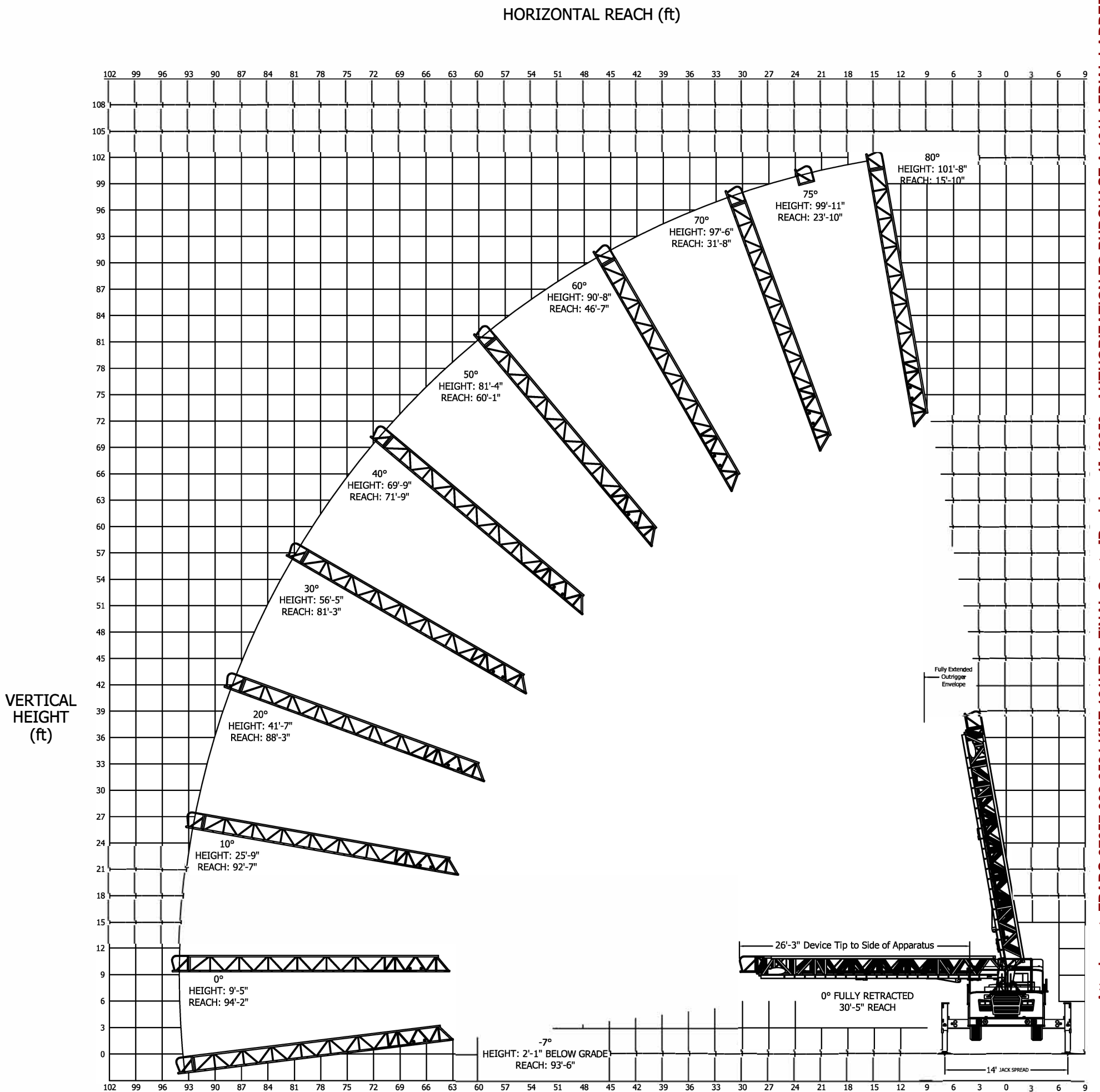
**EXHIBIT A – ATTACHMENT # 6
AERIAL REACH CHART**

Attachment: FPARC-07057-002-0524 KME 101' TDA FINAL Quote [Revision 1] (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER

AERIALCAT REACH CHART: 101' TRACTOR DRAWN AERIAL



Attachment: FPARC-07057-002-0524 KME 101' TDA FINAL Quote [Revision 1] (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER FIRE APPARATUS)



#500 UNRESTRICTED TIP RATING AT ANY ANGLE DRY OR FLOWING WATER
*Tip capacity is reduced to #250 when flowing water above the waterway centerline.

Attachment # 6
Aerial Reach Chart
* DRAWN AT 138" TRAVEL HEIGHT, WITH OUTRIGGERS FULLY DEPLOYED

VERTICAL HEIGHT: Measured vertically with the ladder at maximum elevation and extension, from the outermost rung of the outermost fly section to the ground (per NFPA 1901 code).

HORIZONTAL REACH: Measured in a horizontal plane from the centerline of the turntable rotation to the outermost rung on the outermost fly section with the ladder extended to it's maximum horizontal reach (per NFPA 1901 code).

**EXHIBIT A – ATTACHMENT # 7
AMPS REPORT**

Attachment: FPARC-07057-002-0524 KME 101' TDA FINAL Quote [Revision 1] (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER



AMPS REPORT

Quote # QUO000002203 (Rev 1)

ERP Number:

Date: April 8, 2019

Prepared For:

Riverside County Purchasing & Fleet Services
 2980 Washington Street
 Riverside, CA 92504-4647
 Phone: 951-634-3090
 Fax:

Presented By:

KME
 One Industrial Complex
 Nesquehoning, PA 18240
 Phone: 1-800-235-3928
 Fax: 570-669-5124

Option	Description	QTY	RESP	SCENE	IT
GENERAL INFORMATION					
CAB DOORS					
PO0001654	ELECTRIC WINDOWS, FOUR (4) DOORS, MFD, X-MFD, LFD CAB	1	0	0	2
MIRRORS					
PO0001734	RAMCO - RADIUS MOUNTED MIRROR - 6001 SERIES - TOP ADD ON CONVEX	1	0	0	
FRONT SEATING					
PO0001781	DRIVERS SEAT, USSC ELECTRIC BASE - ABTS	1	0	0	
VEHICLE SAFETY SYSTEM					
PO0002019	AKRON/WELDON SEAT BELT WARNING SYSTEM - UP TO 12 SEATS - VMUX DISP	1	2	2	
PO0002031	AKRON/WELDON VEHICLE DATA RECORDER - MULTIPLEX	1	2	2	
EMS COMPARTMENTS					
PO00022558	CAB EMS COMPARTMENT LIGHTING, ROM V4 TRACK, LED	1	0	1.4	
MISC INTERIOR CAB OPTIONS					
HVAC					
SP00002013	HEATER/DEFROSTER & ACCESS, PREDATOR 100" - 10" RAISED ROOF	1	39	39	
PO00011479	HVAC CONTROL SYSTEM - CONTROLS ABOVE DRIVER	1	0	0	
SP00006133	BERGSTROM AUXILIARY A/C	1	0	0	
CAB TILT SYSTEM					
PO00010681	CAB TILT SYSTEM	1	0	0	1
BRAKE & AIR SYSTEM					
PO00010546	ABS BRAKING FOR SINGLE REAR AXLE CHASSIS	1	2	0	
PO00002444	TELMA DRIVELINE RETARDER SINGLE REAR AXLE - FOCAL MOUNT	1	0	0	2

Attachment: FPARC-07057-002-0524 KME 101' TDA FINAL Quote [Revision 1] (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER

PO00002463	MERITOR/WABCO SYSTEM SAVER #1200, AIR DRYER HEATED	1	0	0	
SP00006035	BLUE SEA 12VDC, 125PSI, AIR COMPRESSOR	1			
ENGINE					
PO00002656	CUMMINS X15 600 HP @ 1800 RPM TQ 1850 LB-FT @ 1200 - PREDATOR WIDE	1	5	5	
PO00002712	SECONDARY BRAKING - ENGINE COMPRESSION BRAKE	1	0	0	
TRANSMISSION					
PO00002723	ALLISON 4500EVS, WIDE RATIO TRANSMISSION - COMPRESSION BRAKE	1	2	2	
FUEL SYSTEM					
SP00002024	RACOR S328 SERIES HEATED FUEL-WATER SEPARATOR WITH ALARM	1	0	0	
PO00009879	WELDON V-MUX MULTI-PLEXED ELECTRICAL SYSTEM	1	5	5	
PO00002778	WELDON V-MUX DISPLAY - VISTA IV - TOUCH WITH BUTTONS	1	0.7	0.7	
PO00002781	ADDITIONAL WELDON V-MUX VISTA IV TOUCH DISPLAY, OS OF CAB	1	1.4	1.4	
PO00024143	AXIS SMART TRUCK VEHICLE MONITORING SYSTEM	1	5	5	
CAB INSTRUMENT PANEL & CONTROLS					
PO00011682	INSTRUMENT PANEL, 100" PREDATOR - WIDE ABS	1	1	1	
SP00005727	AMETEK "OFFICER'S SPEEDOMETER"	1	0.25	0.25	
PO00012460	"POWER ON" LIGHT ON FRONT FACE OF CAB	1	0	0	
CAB INTERIOR LIGHTING					
PO00002896	WELDON #8080-8001-13 WHITE/RED LED INTERIOR LIGHTS (4)	1	4	4	
PO00002906	INNER CAB DOOR FLASHERS (LED), TRUCK-LITE MODEL SUPER 44	1	0	0	
SP00002019	SUNNEX MODEL #HS762,MAP LIGHT	1	2	2	
PO00011819	ENGINE COMPARTMENT WORK LIGHTS - TECNIQ LED	1	0	0	
CAB INTERIOR 12-VOLT POWER ACCESSORIES					
PO00022868	EMS COMPARTMENT POWER POINT	1	0	0	
PO00010730	POWER AND GROUND STUD FOR ACCESSORIES IN DASH	1	0	0	
SP00007176	12 VOLT POWER AND GROUND CIRCUIT, EMS COMPARTMENT	1			
PO00012534	BLUE SEA FUSE BLOCK - 12 CIRCUIT IN CREW AREA	1	0	0	
SP00005524	MULTI - USE POWER POINT ON CENTER DASH EXTENSION	1			
PO00010732	IGNITION STUD - REAR CREW AREA	1	0	0	
CAB DOT MARKER & STEP LIGHTING					
PO00010733	CUST PUMP/TANK/RES CHASSIS LED MARKER LIGHTS	1	0	0	
PO00002988	OPTRONICS LED MARKER LIGHTS @ FRONT ROOF EDGE OF CAB	1	0	0	
PO00003068	CAB STEP LIGHTS, TECNIQ EON 3 LED, ALL DEVICES	4	0	2	
HEADLIGHT & FRONT DIRECTIONAL LIGHTING					
PO00024548	M6 LED TURN ABOVE HEADLIGHTS W/WHELEN M6 LED	1	4.5	4.5	
SP00008141	M6 LED TURN ABOVE HEADLIGHTS W/WHELEN M6 LED	1			

Attachment: FPARC-07057-002-0524 KME 101' TDA FINAL Quote [Revision 1] (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER

PO00004477	DUAL HEADLIGHTS LED PETERSON	1	4.5	4.5	
PO00010729	DAYTIME RUNNING LIGHTS	1	2	2	
CAB EXTERIOR 12-VOLT LIGHTING					
PO00022381	GOLIGHT #20204 REMOTE LED SPOT LIGHT, DS SIDE CAB	1	0	0	2
PO00022382	GOLIGHT CAB RISER FOR DS SIDE LIGHT	1	0	0	
PO00022384	GOLIGHT #20204 REMOTE LED SPOT LIGHT, OS SIDE CAB	1	0	0	2
PO00022385	GOLIGHT CAB RISER FOR OS SIDE LIGHT	1	0	0	
SP00005608	TECNIQ #E96 LED DOCKING LIGHTS IN REAR WHEELWELL PANELS	1	0	0	
SP00007157	HIVIZ FIRETECH 80" BROW LIGHT W/ IML, 305W12V LED, (1) ABOVE WINDSHIELD	1	0	0	26.
WARNING LIGHT SYSTEMS					
PO00010755	NFPA COMPLIANT WARNING LIGHT PACKAGE	1	40	40	
LOWER WARNING LIGHT PACKAGE					
PO00012072	A-LOWER FRONT MOUNTING, CUSTOM CHASSIS	1	0	0	
PO00003872	A-LOWER FRONT, WHELEN M6 SUPER LEDS	1	4.5	4.5	
SP00008142	A-LOWER FRONT, WHELEN M6 SUPER LEDS	1	4.5	4.5	
PO00003883	C-LOWER REAR, WHELEN M6 SUPER LEDS	1	4.5	4.5	
ADDITIONAL WARNING LIGHTS					
SP00005618	FEDERAL 31", VPX LED "SIGNAL MASTER" LIGHT AT REAR OF BODY	1			
PO00004193	TRAFFIC ADVISOR - MOUNTING ON THE REAR SHEET	1	0	0	
OUTRIGGER WARNING LIGHTS					
SP00007580	WHELEN M6, SUPER LED LIGHTS ON (2) OUTRIGGER PANELS	1	0	0	
VEHICLE GROUND LIGHTING					
SP00007584	WHELEN 3X7 LED SCENE LIGHTS	1	0	0	
SP00001973	NFPA (4) FEDERAL WARNING LED GROUND LIGHTS, BELOW CAB DOORS	1	0	0	2
SP00002008	GROUND LIGHTS, 2 LED BELOW LOCKER COMPARTMENT	1	0	0	2
SP00001980	GROUND LIGHTS, 2 LED BELOW MID-SHIP COMPARTMENT	1	0	0	2
SP00001993	GROUND LIGHTS, 2 LED BELOW FRONT BODY CORNERS	1	0	0	2
SP00002010	GROUND LIGHTS, 2 LED AT REAR BODY CORNERS -	1	0		2
COMPARTMENT LIGHTS					
SP00006092	DOOR OPEN INDICATOR W/ AUDIBLE ALARM	1	0	0	0.
SP00002026	WALKWAY LIGHTING	1	0	0	
SP00002029	BODY TURN SIGNALS	1	0	0	2
PO00003422	COMPARTMENT LIGHTS, AMDOR LUMA BAR LED LIGHTING - DUAL	24	0	0	16
SP00006093		1			
BODY DOT MARKER & STEP LIGHTING					
PO00002998	OPTRONICS MARKER LIGHTS FORWARD OF FRONT CAB DOOR	1	0	0	2
PO00002999	OPTRONICS MARKER/TURN LIGHTS @ EA SIDE OF BODY	1	0	0	2
PO00003003	OPTRONICS MARKER LIGHTS @ REAR OF BODY	1	0	0	2.5

Attachment: FPARC-07057-002-0524 KME 101' TDA FINAL Quote [Revision 1] (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER

PO00010767	TECNIQ #L10 LED LICENSE PLATE LIGHT @ DS REAR OF BODY	1	0	0	
PO00003028	WHELEN #M6 LED BRAKE, REVERSE, & TURN W/ QUAD HOUSING	1	0	0	
SP00005620	FEDERAL SIGNAL LED THIRD BRAKE LIGHT	1	0	0	
PO00003075	BODY STEP LIGHTS, TECNIQ EON 3 LED, ALL DEVICES	2	0	4	
BODY SCENE LIGHTING 12-VOLT					
PO00003190	FEDERAL 9X7 LED SCENE LIGHTS BEHIND FRONT CAB DOORS	1	0	0	
AUDIBLE DOT					
PO00011814	CHASSIS SINGLE ELECTRIC (DOT) HORN	1	0	4	
PO00004197	ECCO #575, BACK-UP ALARM - 107 DBA	1	0	0	
ELECTRONIC SIREN & SPEAKER					
PO00004220	SIREN, FEDERAL PA300MSC, 200W	1	20	0	
PO00004244	TWO (2) FEDERAL, #ES100C SPEAKERS	1	0	0	
MECHANICAL SIREN					
PO00012247	FEDERAL Q2B SIREN @ CAB FRONT	1	100	0	
PO00012270	ADDITIONAL SIREN BRAKE BUTTON NEAR OFFICER	1	0	0	
AERIAL HYDRAULIC SYSTEM					
PO00013003	ELECTRONIC LEVEL GAUGE FOR HYDRAULIC RESERVOIR	1	0	1	
PO00013081	100' & 101' LADDER, TILLER. EMERG HYD. PUMP, EPU	1	0	0	2
AERIAL MOTION CONTROL SYSTEM					
PO00013049	TRACTOR DRAWN LADDER, "IQAN" MOTION CONTROL SYSTEM - MANUAL CONTROLS @ TURNTABLE	1	0	5	
AERIAL OUTRIGGER WARNING LIGHTS					
SP00002079	LED OUTRIGGER GROUND LIGHTS	1	0	0	7
SP00002080	FEDERAL SIGNAL LED LOLLIPOP LIGHTS, 2-OUTRIGGERS	1	0	0	
AERIAL LADDER 12-VOLT LIGHTING					
PO00013559	CRADLE ILLUMINATION LIGHTS - GROTE WHITELIGHT LED	1	0	0	3
PO00013783	HEEL PIN STEP LIGHTS - TECNIQ EON 3 LED LIGHTS	1	0	2	
PO00013789	TURNTABLE CONTROL CONSOLE LIGHTING - LUMA BAR LED	1	0	2	
PO00013791	TURNTABLE CONSOLE STEP LIGHT - TECNIQ EON 3 LED	1	0	2	
SP00002077	TWO (2) FEDERAL SIGNAL LED LIGHTS @ LADDER BASE	1	0	0	
SP00002027	TWO (2) FEDERAL SIGNAL LED FLOOD LIGHTS @ LADDER TIP	1	0	0	
SP00002545	LADDER WALKWAY ILLUMINATION LIGHTS, 4-SECT LADDER	1	0	0	14
AERIAL COMMUNICATIONS					
PO00014268	LADDER, FRC ACT -2 WAY COMMUNICATION SYSTEM - LOWER CONTROLS	1	0	0.5	
PO00014269	LADDER, FRC ACT 2-WAY COMMUNICATION SYSTEM - UPPER SPEAKER/MIC	1	0	0.5	
AERIAL LADDER MONITOR & OPTIONS					
SP00005717	AKRON #1494 LADDER CLAMP-ON MONITOR	1	0	0	
		Totals:	255.9	158.25	1027.

Attachment: FPARC-07057-002-0524 KME 101' TDA FINAL Quote [Revision 1] (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER

**EXHIBIT B
PRICE SCHEDULE**

- 1 The following contract pricing is firm-fixed-price and incorporates all costs; including, delivery and travel expenses per Exhibit A – Attachment # 1, Section 1.16. Pricing shall remain fixed for each one-year (12-month) period.
- 2 The COUNTY will issue a Purchase Order for each order placed against this contract. The Purchase Order shall serve as the CONTRACTOR’s official notice to proceed and that funds are available for the purchase. The delivery date on the purchase order shall be the official delivery date and shall be the date used to assess liquidated damages should they be imposed.
- 3 All changes shall be made via a written amendment to this Agreement followed by a Change Order to the Purchase Order, if applicable. CONTRACTOR’s invoice shall match the contract unit price at the time the order was placed (or as amended), not at the unit price (adjusted for PPI escalation) when the apparatus is delivered.

Price Schedule # 1 – Initial Order with Quantity Discount and Pre-Payment Discount:

<u>Line #</u>	<u>Description</u>	<u>Price</u>
1	101’ TDA Apparatus per Contract Specifications	\$1,228,083.40
2	Multiple Unit Discount	(\$14,244.10)
3	\$1,000,000 Pre-Payment Discount	(\$22,917.00)
4	Subtotal	\$1,190,922.30
5	7.75% CA Sales Tax	\$92,296.48
6	Performance Bond	<u>\$4,872.00</u>
Total Price:		\$1,288,090.78

Price Schedule # 2 – Initial Order with Quantity Discount only:

<u>Line #</u>	<u>Description</u>	<u>Price</u>
1	101’ TDA Apparatus per Contract Specifications	\$1,228,083.40
2	Multiple Unit Discount	(\$14,244.10)
3	Subtotal	\$1,213,839.30
4	7.75% CA Sales Tax	\$94,072.55
Total Price:		\$1,307,911.85

Price Schedule # 3 – Base Order (single unit) Price:

<u>Line #</u>	<u>Description</u>	<u>Price</u>
1	101’ TDA Apparatus per Contract Specifications	\$1,230,000.00
2	7.75% CA Sales Tax	\$95,325.00
Total Price:		\$1,325,325.00

Price Schedule # 4 – Option Pricing:

<u>Line #</u>	<u>Description</u>	<u>Price</u>
1	Optional travel cost for additional personnel not included in Exhibit A – Attachment # 1, Section 1.16.4, 1.16.5 and 1.16.6.	\$1,500.00
2	Optional Performance Bond	\$4,872.00

Attachment: FPARC-07057-002-0524 KME 101' TDA FINAL Quote [Revision 1] (3359 : AUTHORIZATION

EXHIBIT B
PAYMENT PROVISIONS

1. Price increases shall take place at the conclusion of each contract year based on the most current Producer Price Index published by the U.S. Bureau of Labor Statistics. Annual price increases shall be calculated using Commodity Code 1413-027 – Buses and firefighting vehicles, complete, produced on purchased chassis. The baseline index to be used for price escalation shall be 121.2 (published March 2019). Price increases shall remain fixed for each given contract year.
2. The price of such apparatus shall be the unit price plus any adjustments in PPI for option years: two (2), three (3), four (4), and five (5). The price of any apparatus ordered by the COUNTY after the first twelve (12) month period shall be the Base Order Price per Exhibit B - Price Schedule # 3 plus any escalation which shall be calculated based on the following formula:

FORMULA EXAMPLE:

Index Point Change

PPI Index: Future PPI (start of option year):	141.1
Less PPI Index: Base PPI (start of contract):	137.6
Equals Index Point Change:	3.5

Index Percent Change

Index Point Change	3.5
Divided by PPI Index: Base PPI:	137.6
Equals	.0254
Results Multiplied by 100	.0254 x 100
Equals Percent Change	2.54%

Base Order Price	\$1,000.00
Plus Percent Change (2.54% x \$1,000)	\$25.40
Revised Price for Option Year	\$1,025.40

Price increases shall remain fixed for each contract year.

3. CONTRACTOR shall provide to the COUNTY parts credit equal to 0.25% for all orders placed against this contract, with the exception of the initial order. CONTRACTOR shall report to the COUNTY in December of each year all “piggyback” orders CONTRACTOR has received from this contract. CONTRACTOR shall issue a parts credit memo at the time the annual report is submitted to the COUNTY. All “piggyback” assignments against this contract shall be approved by the COUNTY per Paragraph 13 – Use by Other Political Entities (page 9) of this Agreement.

Attachment: FPARC-07057-002-0524 KME 101' TDA FINAL Quote [Revision 1] (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER

EXHIBIT C
CONTRACTOR'S BUILD SPECIFICATION

Attachment: FPARC-07057-002-0524 KME 101' TDA FINAL Quote [Revision 1] (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER



KME FIRE APPARATUS

Riverside County Purchasing & Fleet Services

Quote # QUO0000002203 (Rev 1)

April 5, 2019

ERP Number:

Prepared For:

Riverside County Purchasing & Fleet Services

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Attachment: FPARC-07057-002-0524 KME 101' TDA FINAL Quote [Revision 1] (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER

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Attachment: FPARC-07057-002-0524 KME 101' TDA FINAL Quote [Revision 1] (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER

1. PROPOSED BY - KME FIRE APPARATUS - CALIFORNIA

QTY: 1

KME Fire Apparatus is pleased to offer the proposed vehicle to meet the intent of the fire department specifications. KME Fire Apparatus is a leading manufacturer in custom and commercial fire fighting vehicles.

Questions or concerns pertaining to this proposal can be answered by contacting the following KME personnel:

KME Fire Apparatus
4725 Troy Court
Jurupa Valley, CA 92509
Contact: Brandon Gomez
Phone: (800) 328-1033 / (909) 917-4339
Fax: (909) 937-1762
E-mail: bgomez@kmefire.com

2. COMPLETION INFORMATION

QTY: 1

The contractor shall supply, at the time of delivery, at least one (1) copy of the following documents.

The manufacturer's record of apparatus construction details, including the following information:

- Owners name and address
- Apparatus manufacturer, model and serial number
- Chassis make, model and serial number
- Front tire size and total rated capacity in pounds
- Rear tire size and total rated capacity in pounds
- Chassis weight distribution in pounds with water and manufacturer mounted equipment, front and rear
- Engine make, model, serial number, rated horsepower, rated speed and governed speed
- Type of fuels and fuel tank capacity
- Electrical system voltage and alternator output in amps.
- Battery make, model and total capacity in cold crank amps (CCA)
- Transmission make, model, and serial number. If so equipped chassis transmission PTO(s) make, model and gear ratio
- Pump make, model, rated capacity in gallons per minute (liters per minute where applicable) and serial number
- Pump transmission make, model, serial number and gear ratio
- Auxiliary pump make, model, rated capacity in gallons per minute (liters per minute where applicable) and serial number
- Water tank certified capacity in gallons or liters
- Paint manufacturer and paint number(s)
- Company name and signature of responsible company representative
- Certification of slip resistance of all stepping, standing and walking surfaces.

If the apparatus has a fire pump or an industrial supply pump, the pump manufacturer's certification of suction capability.

If the apparatus has a fire pump or an industrial supply pump, a copy of the apparatus manufacturer's approval for stationary pumping applications.

If the apparatus has a fire pump or an industrial supply pump, the engine manufacturers certified brake horsepower curve for the engine furnished, showing the maximum governed speed.

If the apparatus has a fire pump or an industrial supply pump, the pump manufacturer's certification of hydrostatic test.

If the apparatus has a fire pump or an industrial supply pump, the Underwriters Laboratory certification of inspection and test for the fire pump (if applicable).

If the apparatus has an aerial device the Underwriters Laboratory certification of inspection and test for the aerial device.

If the apparatus has an aerial device, all the technical information required for inspections to comply with NFPA 1911, Standards for Testing Fire Department Aerial Devices.

If the apparatus has a fixed line voltage power source, the certification of the test for the fixed power source (if applicable).

If the apparatus is equipped with an air system, test results of the air quality, the SCBA fill station, and the air system installation.

Weight documents from certified scale - showing actual loading on the front axle, rear axle(s) and overall vehicle (with the water tank full but without personnel, equipment and hose) shall be supplied with the complete vehicle to determine compliance with NFPA-1901.

Written load analysis and results of electrical performance tests.

If the apparatus is equipped with a water tank, the certification of water tank capacity by the tank manufacturer.

3. FMVSS REQUIREMENT SECTION 1.4 & 2.2

QTY: 1

The chassis shall be certified by the apparatus manufacturer as conforming to all applicable Federal Motor Vehicle Safety Standards in effect at the date of contract.

This shall be attested to by the attachment of a FMVSS certification label on the vehicle by the contractor who shall be recognized as the responsible final manufacturer.

4. RECORDS

QTY: 1

The successful bidder shall be responsible for preparing and maintaining a record file of parts and assemblies used to manufacture the apparatus.

These records shall be maintained in the factory of the bidder for a minimum of twenty (20) years.

File shall contain copies of any and all reported deficiencies, all replacement parts required to maintain the apparatus, and original purchase documents including specifications, contract, invoices, incomplete chassis certificates, quality control reports and final delivery acceptance documents.

The {Company} shall have access to any and all documents contained in this file upon official written request.

5. GENERAL CONSTRUCTION SECTION 1.4

QTY: 1

Attachment: FPARC-07057-002-0524 KME 101' TDA FINAL Quote [Revision 1] (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER

The complete apparatus, assemblies, subassemblies, component parts, etc., shall be designed and constructed with the due consideration to the nature and distribution of the load to be sustained and to the general character of the service to which the apparatus is to be subject.

All parts of the apparatus shall be designed with a factor of safety, which is equal to or greater than that which is considered standard and acceptable for this class of equipment in firefighting service.

All parts of the apparatus shall be strong enough to withstand general service under full load.

The apparatus shall be so designed that the various parts and readily accessible for lubrication, inspection, adjustment and repair.

Bidder's specifications must meet minimum requirements of N.F.P.A. Pamphlet #1901; Underwriters Laboratories, Inc.; and all State and Federal Department of Transportation vehicle regulations at time of sale of unit.

The apparatus shall be designed and constructed, and the equipment so mounted, with due consideration to distribution of the load between front and rear axles that all specified equipment, including a full complement of specified ground ladders, full water tank, loose equipment, and firefighters shall be carried without overloading or injuring the apparatus.

6. SINGLE LINE RESPONSIBILITY

QTY: 1

KME is a true "sole source" manufacturer.

KME engineers, designs, manufactures, builds and paints our own fire apparatus cab, chassis, body, aerial devices and electrical systems.

All work is done in KME owned and operated manufacturing facilities by KME direct employees.

This capability provides consistent design and manufacturing procedures that will reduce warranty issues and provide ease in parts replacement.

7. PRODUCT LIABILITY

QTY: 1

Each bidder shall supply proof of product liability and facility insurance equal to or exceeding \$30,000,000.00.

This shall be provided as part of the proposal. There will be no exceptions.

8. CODE & CONFORMANCE - AERIAL SECTION 1.4

QTY: 1

The aerial ladder shall be designed to conform to the intent of NFPA 1901 Standard for Automotive Fire Apparatus.

The following additional design criteria shall be applicable to this specification to the extent specified herein:

- American Society for Testing and Materials (ASTM) A-36 Specification for Structural Steel
- Society of Automotive Engineers, Inc. (SAE) SAE Hand-book American Welding Society (AWS)
- AWS014.4-77 Classification and Application of Welded Joints for Machinery and Equipment
- American Society of Non-Destructive Testing (ASNT) ASNT Guidelines; Procedure SNT-TC-1 A.

The aerial device shall be designed, fabricated, and tested in accordance with these codes and specifications.

9. PAINT CERTIFICATION SECTION 1.22, 2.16, 2.17

QTY: 1

The finish paint shall be certified by the apparatus manufacturer as conforming to all applicable Commercial Vehicle Paint Standards in effect at the date of contract.

This shall be attested to by the attachment of a Sikkens certification.

10. PROPOSED SERVICE BY - KME FIRE APPARATUS – CALIFORNIA SECTION 1.9, 1.11, 1.13, 1.17

QTY: 1

SERVICE CENTER AND PARTS DEPOT
KME Fire Apparatus
FACTORY BRANCH - CALIFORNIA
KME APPARATUS SERVICE STATEMENT

The proposed KME Fire Apparatus vehicle is offered with complete single-source service performed by the regional KME factory service center.

Service is provided by:

KME Fire Apparatus
4725 Troy Court
Jurupa Valley, CA
Phone: (800) 328-1033 / (909) 937-3326
Fax: (909) 937-1762
Email: kmeca@kovatch.com

Jerry Hennessy - Service Manager

Service Center Capabilities:

- KME Fire Apparatus in Jurupa Valley, CA. celebrates fourteen (14) years of operation and employs twenty (20) people. The factory owned operation employs nine (9) full-time service mechanics two (2) certified paint and body technicians and two (2) fabrication technicians to handle any service-related issues or operational improvements that you may desire.
- KME Fire Apparatus employees EVTCC and ASE certified technicians, along with PPG and DuPont certified body shop technicians.
- KME Fire Apparatus operates five (5) mobile service trucks that offer In-Station Service repairs to your apparatus when needed. We also have towing available should your unit need to travel to our service facility.
- KME Fire Apparatus offers a twenty-four (24) hour service plan in which assigned service personnel carry pagers; one (1) man is always on call to handle any truck that is down and out of service.

KME Fire Apparatus offers:

- Sheet metal repair and fabrication
- Pump and electrical repair
- Aerial ladder service and repair
- Booster tank repair and replacement
- Minor or major refurbishment capabilities
- Mobile pump testing at your facility

KME Fire Apparatus offers factory authorized service and repairs to all makes of fire apparatus equipped with Hale, Waterous and Darley Pumps.

KME Fire Apparatus has the largest inventory of apparatus parts in Southern California and offers quick turn-around parts delivery when your unit is down. We also offer a large loose goods line and apparel to service the fire industry.

KME Fire Apparatus contact information, of proud service professionals.

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Service Contacts - (909) 937-3326
 Jerry Hennessey - Branch Manager
 Hector Gallo - Service Manager
 Victor Canhoto - Sales / Special Product
 Parts and Loose Goods Sales - (909) 937-3326
 Mike Gallardo - Parts Specialist
 Bob Rooker - Parts and Loose Goods
 Ruben Gonzales - Inventory Control Specialist
 KME Fire Apparatus employees are protected by Workman's Compensation Insurance.
 A 1 Million Dollar Garage Keepers Liability Insurance Coverage and a 25 Million Dollar Product Liability Insurance Policy protect your fire department and your fire department equipment.

11. PRICES & PAYMENTS SECTION 1.3

QTY: 1

The bid price will be F.O.B. Destination, on a delivered and accepted basis at the Fire Department. Total price on KME's proposal sheet will include all items listed in these specifications. KME has computed pricing less federal and state taxes. It is understood that any applicable taxes will be added to the proposed prices, unless the purchaser furnishes appropriate tax-exempt forms.

12. DELIVERY TIME SECTION 1.7

QTY: 1

Each bidder shall state the completed apparatus delivery time based on the number of calendar days, starting from the date the sales contract is signed and accepted by the apparatus manufacturer. Delivery Time: 360-390 Calendar days for the first unit and 30-45 days for each consecutive unit.

13. FAIR ETHICAL & LEGAL COMPETITION

QTY: 1

In order to ensure fair, ethical, and legal competition, neither original equipment manufacturer (OEM) nor parent company of the OEM shall have ever been fined or convicted of price fixing, bid rigging, or collusion in any domestic or international fire apparatus market.

There will be no exceptions.

14. MATERIAL & WORKMANSHIP SECTION 1.4

QTY: 1

All equipment furnished shall be guaranteed to be new and of current manufacture, to meet all requirements of these specifications.

All workmanship shall be of high quality and accomplished in a professional manner so as to insure a functional apparatus with a pleasing, aesthetic appearance.

15. CONTRACT ADMINISTRATOR SECTION 1.9

QTY: 1

The successful bidder shall designate a contract administrator to provide a single point interface between the purchaser and the contractor on all matters concerning the contract.

16. APPROVAL DRAWING SECTION 1.6

QTY: 1

A detailed drawing of the apparatus shall be provided to the purchaser for approval before construction begins. A copy of this drawing shall also be provided to the manufacturer's representative. Upon purchaser's approval, the finalized drawing shall become a part of the total contract.

The drawing shall show, but is not limited to, such items as the chassis make and model, major components, location of lights, sirens, all compartment locations and dimensions, special suction, discharges, etc. The drawing shall be a visual interpretation of the apparatus as it is to be supplied.

Attachment: FPARC-07057-002-0524 KME 101' TDA FINAL Quote [Revision 1] (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER

17. INSTRUCTION MANUALS - CUSTOM CHASSIS - TWO (2) SETS – PAPER SECTION 1.8, 3.79
QTY: 1

In accordance with standard commercial practices, applicable to each vehicle (including body and special equipment) furnished under the contract, the following listed manuals and schematics, in the quantity specified, shall be provided at time of delivery of each vehicle.

The contractor shall supply at time of delivery, two (2) sets, paper copies and two (2) USB copies of a complete operation and service manual covering the complete apparatus as delivered and accepted.

The manual shall contain the following:

- Descriptions, specifications, and ratings of chassis, pump (if applicable), and aerial device.
- Wiring diagrams.
- Lubrication charts.
- Operating instructions for the chassis, any major components such as a pump and any auxiliary systems.
- Instructions regarding the frequency and procedures recommended for maintenance.
- Parts replacement information.
- Operation manuals for all components and accessories.
- Service manuals for engine, transmission, and other major components.
- Bill of materials or factory work order showing part numbers of all components on vehicle.
- Engineering drawings as built.
- Chassis drawing as built.
- Color coded chassis air brake system drawing as built.
- Color coded electrical system schematic (12-Volt) as built, large and easy to read.
- Color coded chart sheet showing all points of lubrication and type/amount of lubrication.
- Color coded aerial diagram to include hydraulic and electrical schematics.
- Color coded engine charts.
- Color coded transmission charts.
- Color coded regeneration operation charts.
- UL inspection and test records.
- FMVSS compliance certification label.
- Weight certificate. The weight certificate shall show the total apparatus weight, the front axle weight, the rear axle weight, the right front tire weight, the left front tire weight, the right rear tire weight, and the left rear tire weight.
- Documents required for transferring ownership to County.
- Aerial testing and certification per NFPA standards.
- Performance test reports.
- Operating instructions for the aerial and components.
- Operating instructions for the chassis and any major components.
- Precautions related to multiple configurations of aerial devices, if applicable.
- Instructions regarding the frequency and procedure for recommended maintenance.
- Parts list for replacement.

- Operations and maintenance documents for components and equipment of the apparatus.

18. AS-BUILT WIRING SCHEMATICS SECTION 1.8

QTY: 1

In accordance with standard commercial practices, the manufacturer shall supply two (2) copies of "AS BUILT" wiring schematics/diagrams for the entire vehicle at the time of delivery.

19. AS-BUILT AIR SYSTEM SCHEMATICS SECTION 1.8

QTY: 1

In accordance with standard commercial practices, KME will supply two (2) copies of "AS BUILT" air schematics/diagrams for the air system at the time of delivery.

20. VEHICLE FLUID PLATE SECTION 1.4

QTY: 1

As required by NFPA-1901, the contractor shall affix a permanent plate in the driver's compartment specifying the quantity and type of the following fluids used in the vehicle:

A permanent plate in the driving compartment shall specify the quantity and type of the following fluids used in the vehicle:

- Engine oil
- Engine coolant
- Chassis transmission fluid
- Pump transmission lubrication fluid
- Pump primer fluid
- Drive axle(s) lubrication fluid
- Air-conditioning refrigerant
- Air-conditioning lubrication oil
- Power steering fluid
- Cab tilt mechanism
- Transfer case fluid
- Equipment rack fluid
- Air compressor system lubricant
- Generator system lubricant
- Aerial systems

21. PRE-DELIVERY SERVICE SECTION 1.17

QTY: 1

After transportation from the factory and immediately prior to delivery to the fire department, the apparatus shall receive a pre-delivery service consisting of: engine oil & filter change, transmission filter change, check differential fluid and change if needed, check coolant level, chassis lubrication, fuel filter(s) changed, adjustment of engine to manufacturers specifications, fill diesel and def tank, complete inspection including all electrical and mechanical devices, for proper operation and correction of leaks or obvious problems, check to ensure final inspection items were addressed. Also a complete detail of the apparatus will be performed before delivery.

22. UNIT BUILT AT HEADQUARTERS

QTY: 1

In order to insure top quality construction, maximum assembly line and engineering communication and the highest level of manufacturing supervision the entire apparatus shall be built at the bidders' primary (headquarters) manufacturing facility.

Apparatus constructed at satellite plants will not be considered.

23. EXACT BLUEPRINT WITH BID SECTION 1.6

QTY: 1

A scale drawing of the specific apparatus being proposed shall be submitted WITH THE BID.

Drawings of similar units or demo units shall not be permitted.

Bidders should be clear that this provision is requiring a SCALE drawing of the truck which is actually being bid.

The drawing shall be done at the manufacturer's facility by the manufacturer's engineering department in order to guarantee the accuracy of the drawing.

Failure to comply with this requirement shall be grounds for rejection of the bid!

24. FAMA MEMBERSHIP

QTY: 1

The apparatus manufacturer must be a current member of the Fire Apparatus Manufacturer's Association (FAMA).

25. MANUFACTURED IN UNITED STATES SECTION 1.3

QTY: 1

The entire apparatus shall be assembled within the borders of the Continental United States to insure more readily available parts (without added costs and delays caused by tariffs and customs) and service.

26. ISO REQUIREMENT

QTY: 1

The manufacturer shall operate a Quality Management System that is certified to ISO 9001 by an organization that is accredited by the ANSI-ASQ National Accreditation Board (ANAB).

This type of business management system shall allow the manufacturer to monitor processes to ensure they are effective; keep adequate records; check output for defects, with appropriate and corrective action where necessary; regularly review individual processes and the quality system itself for effectiveness; and facilitate continual improvement.

A copy of the registration certificate must be included in the proposal, NO EXCEPTIONS.

27. AMP DRAW REPORT SECTION 4.21

QTY: 1

The bidder shall provide with their bid proposal and at the time of delivery, an itemized print out of the expected amp draw of the entire vehicle's electrical system.

A written load analysis, which shall include the following:

- The rating of the alternator.
- The minimum continuous load of each component that is specified per: Applicable NFPA-1901.
- Additional loads that, when added to the minimum continuous load, determine the total connected load.
- Each individual intermittent load.

All of the above listed items shall be provided by the bidder per the applicable NFPA-1901.

28. PHOTO REQUIREMENT SECTION 1.5

QTY: 1

KME will provide, on a weekly or as requested basis, from the time the chassis arrives/begins and construction of the body compartments begins, "digital" color photos of each phase of construction.

The above specified digital photos shall include, but not be limited to: bare chassis (as it arrives from chassis factory), modifications to the chassis, installation of the fire pump and its related valves and piping (prior to being enclosed inside the fire pump cavity), water tank and foam tank (prior to their installation inside the apparatus body), fabricated apparatus body components (prior to their being assembled), assembly of the pump compartment fabrications, assembly of the compartmented body fabrications, installation of the water and foam tanks, interior compartment shelving arrangement, hose bed arrangement, and assembly of the fire pump control panel.

In addition to the specified photo shots, the purchaser shall have the right to request certain views of other features and accessories, during their manufacture and installation. Photo shots, the purchaser shall have the right to request certain views of other features.

29. COOPERATIVE PURCHASING

QTY: 1

The Manufacturer shall be pleased to allow other public agencies to use the purchase agreement resulting from this invitation to bid unless the bidder expressly notes on the proposal form that prices are not available for tag-on.

The condition of such use by other agencies shall be that any such agency must make and pursue contact, purchase order/contract, and all contractual remedies with the successful bidder.

Such tag-ons shall be done so that the original purchasing agency has no responsibility for performance by either the manufacturer or the agency using the contract.

30. VEHICLE DATA PLATE DESCRIPTION SECTION 1.4

QTY: 1

The following safety signs shall be provided in the cab:

- A label displaying the maximum number of personnel the vehicle is designed to carry shall be visible to the driver.
- "Occupants will be seated and belted when apparatus is in motion" signs shall be visible from each seat.
- "Do Not Move Apparatus When Light Is On" sign adjacent to the warning light indicating a hazard if the apparatus is moved (as described in subsequent section).
- A label displaying the height, length, and GVWR of the vehicle shall be visible to driver.
- This label shall indicate that the fire department will revise the dimension if vehicle height changes while vehicle is in service.

The following information shall be on labels affixed to the vehicle:

Fluid Data

- Engine Oil
- Engine Coolant
- Chassis Transmission Fluid
- Pump Transmission Lubrication Fluid
- Pump Primer Fluid (if applicable)
- Drive Axle(s) Lubrication Fluid
- Air Conditioning Refrigerant

- Air Conditioning Lubrication Oil
- Power Steering Fluid
- Cab Tilt Mechanism Fluid
- Transfer Case Fluid (if applicable)
- Equipment Rack Fluid (if applicable)
- Air Compressor System Lubricant
- Generator System Lubricant (if applicable)
- Front Tire Cold Pressure
- Rear Tire Cold Pressure
- Aerial Hydraulic Fluid (if applicable)
- Maximum Tire Speed Rating

Chassis Data

- Chassis Manufacturer
- Production Number
- Year Built
- Month Manufactured
- Vehicle Identification Number

Manufacturers weight certification:

- Gross Vehicle (or Combination) Weight Rating (GVWR or GCWR)
- Gross Axle Weight Rating, Front
- Gross Axle Weight Rating, Rear

31. !!! CRITICAL OVERALL HEIGHT REQUIREMENT !!! - "NO" SECTION 2.202

QTY: 1

32. !!! CRITICAL OVERALL LENGTH REQUIREMENT !!! - "NO" SECTION 2.03

QTY: 1

33. NFPA CERTIFICATION SECTION 3.78

QTY: 1

The proposed apparatus will be constructed to withstand the severe and continuous use encountered during emergency firefighting services.

The apparatus will be of the latest type, carefully designed and constructed with due consideration to the nature and distribution of the load to be sustained.

This proposal details the general design criteria of cab and chassis components, aerial device (if applicable), fire pump and related components (if applicable), water tank (if applicable), fire body, electrical components, painting, and equipment.

All items of these proposal specifications will conform to the fullest extent possible with the National Fire Protection Association Pamphlet No. 1901, latest edition, except as noted in the Statement-of-Exceptions.

KME will furnish satisfactory evidence of our ability to construct, supply service parts and technical assistance for the apparatus specified.

34. GENERAL INFORMATION - NFPA 1901 SECTION 3.78

QTY: 1

The proposed apparatus will be constructed to withstand the severe and continuous use encountered during emergency firefighting services. The apparatus will be of the latest type, carefully designed and constructed with due consideration to the nature and distribution of the load to be sustained.

This proposal details the general design criteria of cab and chassis components, aerial device (if applicable), fire pump and related components (if applicable), water tank (if applicable), fire body, electrical components, painting, and equipment.

All items of these proposal specifications will conform to the fullest extent possible with the National Fire Protection Association Pamphlet No. 1901, latest edition, except as noted in the Statement-of-Exceptions.

KME will furnish satisfactory evidence of our ability to construct, supply service parts and technical assistance for the apparatus specified.

35. NFPA TREADPLATE CERTIFICATION SECTION 3.41

QTY: 1

All stepping, standing, and walking surfaces on the body shall meet NFPA #1901 anti-slip standards.

Aluminum tread plate utilized for stepping, standing, and walking surfaces shall be Alcoa No-Slip type.

This material shall be a minimum 3/16 (0.1875") in thickness.

Upon request by the purchaser, the manufacturer shall supply proof of compliance with this requirement.

All vertical surfaces on the body, which incorporate aluminum tread plate material, will utilize the same material pattern to provide a consistent overall appearance.

36. NFPA-AERIAL APPARATUS SECTION 3.78

QTY: 1

The unit shall be designed to conform fully to the "Aerial Fire Apparatus" requirements as stated in the NFPA 1901 Standard (2016 Revision), which shall include the following required chapters as stated in this revision:

- Chapter 1 Administration
- Chapter 2 Referenced Publications
- Chapter 3 Definitions
- Chapter 4 General Requirements
- Chapter 8 Aerial Fire Apparatus
- Chapter 12 Chassis and Vehicle Components
- Chapter 13 Low Voltage Electrical Systems and Warning Devices
- Chapter 14 Driving and Crew Areas
- Chapter 15 Body, Compartments and Equipment Mounting
- Chapter 19 Aerial Devices

37. 120/240 VOLT ELECTRICAL SYSTEM TESTING

QTY: 1

All line voltage wiring and permanently connected devices and equipment shall be subjected to a dielectric voltage withstand test of 900 volts for one minute. The test shall be conducted between live parts and the neutral conductor and between live parts and the vehicle frame with any switches in the circuits closed. The test shall be conducted after all bodywork has been completed. The dielectric tester shall have a minimum 500 VA transformer with a sinusoidal output voltage that can be verified.

Electrical polarity verification shall be made of all permanently wired equipment and receptacles to determine that connections have been properly made.

The apparatus manufacturer shall perform the following operation test and shall certify that the power source and any devices that are attached to the line voltage electrical system are properly connected and in working order.

The generator shall be started from a cold start condition and the line voltage electrical system shall be loaded to 100 percent of the nameplate voltage rating.

The following items shall be monitored and documented every 15 minutes:

- The cranking time until the generator starts and runs.
- The voltage, frequency, and amperes at continuous full rated load.
- The generator oil pressure, water temperature, transmission temperature, hydraulic temperature, and the battery rate charge, as applicable.
- The ambient temperature and altitude.

The generator shall operate at 100 percent of its nameplate wattage for a minimum of two (2) hours.

38. UL LINE VOLTAGE TESTING SECTION 4.21

QTY: 1

When the unit successfully meets all the requirements outlined in NFPA 1901, 2016 Edition, UL shall issue a Certificate of Automotive Fire Apparatus Examination and Test stating the unit's compliance with the required line voltage section of NFPA.

39. UL TESTING-AERIAL SECTION 3.76, 3.77, 3.78

QTY: 1

The proposed unit will be tested and certified for KME Fire Apparatus by Underwriters Laboratories Inc. (UL) Underwriters Laboratories Inc.

(UL) is recognized worldwide as a leading third party product safety certification organization for over 100 years.

UL has served on National Fire Protection Association (NFPA) technical committees for over thirty years.

UL is a nationally recognized testing laboratory recognized by OSHA.

UL complies with the American Society for Testing and Materials (ASTM) Standard ASTM E543 "Determining the Qualifications for Nondestructive Testing Agencies."

UL has more than 40 years of automotive fire apparatus safety testing experience and 16 years of factory aerial device testing and Certification experience.

UL has more than 100 years of experience developing and implementing product safety standards.

UL does not represent, is not associated with, nor is in the manufacture or repair of automotive fire apparatus.

All test work for fire pumps outlined in NFPA 1901, Edition will be conducted.

UL has included a list of all factory aerial device manufacturers for whom testing is currently being conducted on a regular basis.

UL carries ten million dollars in excess liability insurance for bodily injury and property damage combined.

All work outlined in NFPA 1911, current Edition, including nondestructive testing, will be conducted at the manufacturer's facility. In addition, the following test work outlined in Section 19, Certification Tests, of NFPA 1901 will be conducted:

1-1/2 Times Rated Capacity on Level Ground Stability Test: A load of 1-1/2 times rated capacity (as specified by the manufacturer) will be suspended from the tip of the aerial ladder, or the platform of the elevating platform, when it is in the position of least stability. If the manufacturer specifies a rated capacity while flowing water, then one times the water load and the worst case nozzle reaction will be added to the stability test weights. The apparatus will show no signs of instability. For a water tower, the stability test includes 1-1/2 times the weight of the water in the system and 1-1/2 times the maximum nozzle reaction force when it is in the position of least stability.

1-1/3 Times Rated Capacity on a 5 degree Slope Stability Test: A load of 1-1/3 times rated capacity will be suspended from the tip of the aerial ladder, the platform of the elevating platform, or the tip of the water tower when it is in the position of least stability. The apparatus will show no signs of instability.

Aerial Device Water System Tests: A friction loss test will be conducted for an aerial device equipped with a permanent water system and has a rated vertical height of 110 ft. or less. The standard model flow test results will be provided to the manufacturer. If the water system has been modified from the standard model configuration, a new flow test will be conducted to determine that the friction loss in the water system between the base of the swivel and the monitor outlet does not exceed 100 psi with 1000 gpm flowing and the water system at full extension.

A maximum vertical height flow test will be conducted to determine that the water system is capable of flowing 1000 gpm at 100 psi nozzle pressure with the aerial device at full elevation and extension.

If the apparatus is equipped with a fire pump designed to supply the water system, the test will be conducted using the onboard fire pump.

The intake pressure to the fire pump will not exceed 20 psi.

UL provides the manufacturer a complete written Examination and Test Report for each aerial device inspection performed at the manufacturer's facility.

This Report specifies the points of inspection and results of such examinations and tests.

The test report, as required by NFPA 1911, will include the following test results:

Torque verification of all mounting bolts including bolt size, grade, and torque specification.

The following NDT methods and results will be recorded:

All ferrous welds will be magnetic particle inspected for defects.

All nonferrous welds will be visually inspected, and if questionable defects are identified, a penetrating dye will be used to further evaluate the quality of the weld.

All bolts and pins will be ultrasonically inspected for internal flaws.

The following measurements will be taken and recorded in the examination and test record:

Bearing clearance and backlash, elevation cylinder drift, engine speed operating rpm, relief pressure, stabilizer extension cylinder drift, ladder section twist, hardness readings, base rail thickness, winch drift, extension brake drift, and extension cylinder drift.

The UL inspectors performing the test work on the units are certified to Level II in the required NDT methods, under the requirements outlined in ASNT document CP-189.

The actual person(s) performing the inspection will present for review proof of Level II Certification in the required NDT methods.

KME will designate, in writing, who is qualified to witness and certify these test results.

Prior to submittal to the automotive fire apparatus manufacturer, the final Report will be reviewed by the Supervisor of Fire Equipment Services and a Registered Professional Engineer, both of whom are directly involved with the aerial device certification program at UL.

When the unit successfully meets all the requirements outlined in NFPA 1901, 2016 Edition, UL will issue a Certificate of Automotive Fire Apparatus Examination and Test stating the units compliance with NFPA-1901.

40. PREDATOR CAB - BASE, 100" SECTION 2.1, 2.10

QTY: 1

The cab shall be a custom tilt style, built specifically for fire service.

The cab shall be a cab over engine design, with integral tilt mechanism and engine access from inside the cab.

Cab shall be designed, fabricated, assembled in its entirety, and installed on the frame rails in the manufacturer's factory.

This requirement will eliminate any split responsibility in warranty and service.

The cab interior shall be the "Open-Space" design with no wall, window or vertical support posts between the front and rear crew areas to allow direct communication, better visibility and air circulation in the cab.

41. PREDATOR CAB - BASE -ALUMINUM CONSTRUCTION SECTION 2.10

QTY: 1

The cab shall be fabricated from 5052-H 32 aluminum alloy, utilizing the minimum material thickness as follows:

- Cab side panels 0.125 thick (1/8")
 - Cab roof 0.125 thick (1/8")
 - Forward cab front sheet 0.125 thick (1/8")
- 42. INTERIOR CAB PANELS 0.125 THICK (1/8")**
- Other panels 0.125 thick (1/8")
 - Cab doors 0.1875 thick (3/16")
 - Engine enclosure side panels 0.250 thick (1/4")

Cab, sub-frame shall be a welded assembly, fabricated of 6063 structural aluminum alloy. This frame shall extend the full length and width of the cab and be secured to the chassis frame through two (2) rear, urethane, self-centering load cushions, two (2) forward pivot brackets, and two (2) cab locks. The cab shall be of entirely welded construction.

The front cab wall shall be of double wall type construction, featuring an inner and outer panel. {No Exceptions}

43. PREDATOR 100" - CRASH TESTING SECTION 2.26

QTY: 1

To ensure the safety of the cab occupants and cab integrity, proof of third party testing shall be provided.

The cab shall be certified for SAEJ2422 side impact, SAEJ2420 with ECER29 cab front impact, and ECER29 cab roof strength.

Furthermore, proof of testing and certification shall be provided that the cab, in accordance to SAE J2420 was front impact tested at 2.1 times the standard energy required in SAE J2420, thus exceeding the NFPA requirement.

This test shall be performed with no support immediately behind the cab, thus providing an authentic test result.

44. PREDATOR 100" - 120,000# ROOF & SIDE TESTING SECTION 2.26

QTY: 1

The cab design will include additional third party testing to ensure the safety of the cab occupants and cab integrity, proof of third party testing shall be provided.

The cab shall be certified for SAEJ2422 side impact, SAEJ2420 with ECER29 cab front impact, and ECER29 cab roof strength.

The manufacturer shall provide proof that third party testing has been conducted to prove a static roof and a static side-load test has been completed.

In these tests, a 120,000 pound static load was first applied to the roof.

This test was followed by applying the same 120,000 pound static load to the side of the cab.

These tests will be conducted per the SAE J2422, Cab Roof Strength Evaluation, protocol and the ECE R29,

Uniform provisions concerning the approval of vehicles with regard to the protection of occupants of the cab of a commercial vehicle, protocol.

During both tests, the cab will withstand these loads without encroachment into the occupant survivable space and all doors remained closed during the test.

The tests will be documented with photographs and real-time video in a report provided to the manufacturer.

45. PREDATOR 100" - MFD CAB LENGTH (DIM - 62-1/2") SECTION 2.10, 2.11

QTY: 1

The cab shall be fully enclosed, capable of comfortably seating six (6) fire fighters in full firefighting turnout gear, cab over engine design with integral tilt mechanism, and engine access on top of doghouse. Minimum Cab Dimensions:

- Overall width 100"
- Inside width across ceiling 92"
- Front area floor to ceiling 63"
- Crew seat area width 92"
- Outer crew seat risers to rear wall 42"
- Centerline front axle to back of cab 62-1/2"
- Centerline axle to front of cab 74"

46. FLAT ROOF SECTION 2.10, 2.22

QTY: 1

Cab Entry Door Width Dimensions

Forward door opening 40" wide
 Rear door opening 37" wide
 Cab Entry Step Dimensions
 Forward door recessed step 32" wide x 9" deep
 Rear door recessed step 32" wide x 9" deep
 Cab Entry Door Height Dimensions
 Forward door opening 76-1/4" high
 Rear door opening 75-1/4" high
 CAB ROOF

The roof will be of a FLAT ROOF design with radius edges for an aesthetic, streamline appearance. The roof {will/shall} be constructed the same material as the main structure and {will/shall} be internally reinforced using framing which {will/shall} span the entire width and length of the cab for maximum structural integrity. This {will/shall} allow the roof to support personnel and roof mounted equipment without the need for additional reinforcement.

The cab roof over the rear crew area {will/shall} be FLAT, NO HIGHER than the front driver and officer area.

Approximate dimensions:
 Crew area floor to ceiling 54"
 Top of crew seat to ceiling 36" (depending upon seat type)

47. CAB ROOF LINE-X

QTY: 1

The cab roof shall be painted with LINE-X. The Line-X on top of the cab shall not be visible from the ground from a standing position. The Line-X material shall stop at the inside of the drip rail on each side. The Line-X shall be applied from a point just to the rear of the cab roof light bar and will continue to the rear cab wall. **The color of the Line-X shall be light gray with UV stabilizer.** All Line-X color, over-painting and/or treatment information/coding shall be provided to the Department. Note: The antenna rail shall be painted job color apparatus red.

48. CAB ROOF DRIP RAIL 100" PREDATOR/PANTHER SECTION 2.14

QTY: 1

For enhanced protection from inclement weather, an integral drip rail shall be furnished on each side of the cab roof.

The drip rail shall extend the full length of the cab roof.

49. CAST ANTI-SLIP ENTRY STEPS FOR REDUCED LENGTH DOOR SECTION 2.152

QTY: 1

The front entrance steps {will/shall} be a minimum of 9" deep. Each step {will/shall} be an open grate Stainless Steel style step fabricated by Bustin. with a polished stainless steel outer surface. The cab step risers {will/shall} be overlaid with .063" polished aluminum tread plate.

The rear entrance steps {will/shall} be a minimum of 9" deep. Each step {will/shall} be an open grate Stainless Steel style step fabricated by Bustin. with a polished stainless steel outer surface. The cab step risers {will/shall} be overlaid with .063" polished aluminum tread plate.

50. BATTERY ACCESS DOORS - REAR STEP WELLS, EACH SIDE SECTION 4.2

QTY: 1

The battery access door(s) shall be 1/8" aluminum tread plate, drop down doors with thumb latches at each side rear cab step well.

51. BARRIER HEIGHT CAB DOORS, 100" PREDATOR "MFD, LFD & X-LFD" SECTION 2.23

QTY: 1

Four (4) side-opening doors shall be provided. The cab doors shall be shortened to the floorboard level thus leaving an exposed step well area at each cab entrance. The cab doors shall be totally constructed of aluminum with an extruded aluminum frame and an aluminum outer door skin. The forward cab door opening shall be a minimum of 40" wide and the rear cab door opening shall be a minimum of 37" wide. The rearward cab doors shall have a radius cutout allowing the door opening to protrude forward over the cab wheel well, while providing full access to the rear crew area. There shall be a heavy duty piano type stainless steel hinge on each door of a minimum pin diameter of 5/16". Hinges shall be slotted for ease of horizontal and vertical adjustment. There shall be a cab door seal and the doors shall close flush with the side of the cab. A heavy-duty 6" wide belting material shall be utilized to prevent the cab doors from opening greater than 90 degrees.

52. CAB DOOR INSULATION - PREDATOR/SEVERE SERVICE SECTION 2.24

QTY: 1

A 1/4" insulation panel shall be installed in each cab door. This insulation panel shall provide an additional acoustical barrier as well as help with heating/cooling properties of the apparatus.

53. CAB DOORS -BOLT ON WEATHER STRIP SECTION 2.22

QTY: 1

The cab doors shall be equipped with a weather strip seal track on the lower portion of the door. Bolt-on tracks shall be provided to allow for a snap-on replaceable weather stripping to be changed easily and shall be fastened in place with nutserts to ensure longevity.

54. PREDATOR DOOR LATCHES, HD LOOP STYLE LATCH -BARRIER HEIGHT DOORS SECTION 2.178

QTY: 1

A semi-recessed chrome plated pull handle, capable of operating with a gloved hand, shall be provided on the exterior of each cab door.

Heavy-duty, bright finish cast paddle latches shall be provided on the interior of each cab door.

Door latch mechanisms which utilize spring steel clamps shall not be considered due to their tendency to both rust and break.

The interior door latch cables are to be designed to reduce adjustment or possible wear at the adjustment turnbuckles.

55. LOCKING CAB DOOR , OUT + IN, LOOP STYLE LATCH SECTION 2.179

QTY: 1

Each exterior cab door shall be equipped with keyed locks. The cab doors shall be capable of being locked from the outside with a key and from the inside with a control in each interior paddle latch.

56. TRI-MARK KEY MODEL #2004 SECTION 2.179

QTY: 1

The specified door lock cylinder/s shall be equipped with Tri-Mark #2004 key/s. **FOR CLARIFICATION: A total of (4) four cab door keys will be provided with each apparatus.**

57. ELECTRIC WINDOWS, FOUR (4) DOORS, MFD, X-MFD, LFD CAB SECTION 2.141, 2.142, 2.143

QTY: 1

Each side cab door shall have a tinted retractable window,

The window track shall be designed into the door frame extrusion, which shall be extruded with a track groove to house a window track and seal.

The window shall be capable of being removed from an access slot designed in the bottom of the door frame.

All side cab doors shall be equipped with electrically operated windows.

Power window controls shall be provided either on the door panel or dash panel depending on the cab and interior trim configuration.

The control for each rear door shall be a rocker type, automotive style switch located on the inside door panel within easy reach.

58. DOOR WINDOW TRIM EXTRUSION, 4 DOOR

QTY: 1

Each side cab door window shall be designed with a custom extruded trim plate, which shall conform to the perimeter of the window opening in each door.

The trim plate shall extend from the edge of the door skin to the window and shall have a silver anodized finish.

59. FULL HEIGHT INTERIOR DOOR PANELS - LINE-X, 4 DOOR

QTY: 1

The cab door interior panels shall be covered with an aluminum panel at full height.

The panel shall be 1/8" aluminum and painted with Line-X and shall be designed to allow easy access to the inner door.

60. INNER DOOR PANEL TO BE THREE (3) PIECE DESIGN FOR ACCESS

QTY: 1

The inner door panel shall be designed as a three (3) piece panel to allow easy access to the door latching mechanism, electrical components or the window mechanism without disassembling the entire door.

61. DOOR WARNING – CHEVRON

QTY: 1

Chevron reflective striping matching the rear Chevron shall be installed on each inner cab door panel.

62. WINDSHIELD, 100" CAB

QTY: 1

A two piece, symmetrical, safety glass windshield shall be provided on the cab for the driver and officer providing a clear viewing area.

The windshields shall be full width to the center of the front cab support for each side and provide the occupants with a panoramic view.

To provide enhanced peripheral vision on each side of the cab, the windshield and cab structure shall be designed with radius corners, which provide a minimum of 8" of glass area, measured from the glass face to the side edge near the door post.

The windshield shall consist of three (3) layers; the outer light, the middle safety laminate and the inner light.

The thick outer light layer shall provide superior chip resistance, the middle safety laminate layer shall prevent the windshield glass pieces from detaching in the event of breakage and the inner light shall provide yet another chip resistant layer.

The windshield will be a contour design with 3422 sq. in. of area for improved visibility and style.

The windshield glass shall be designed so it can be used on either the driver or officer side.

Single piece windshields that utilize epoxy or that are bonded to the cab structure shall not be acceptable.

63. WINDSHIELD WIPERS & WASHERS - 100"

QTY: 1

Dual, electric operated, pantographic type windshield wipers shall be provided.

One (1) electric drive motor shall be provided for each wiper.

Wipers shall have "HI/LO" and "INTERMITTENT" operating speeds. "HI/LO" speeds shall be controlled by a steering column control, within the turn signal control stem.

"INTERMITTENT" operation shall be controlled by a twist switch within the control on the steering column.

The wipers shall be of the self-parking type.

Windshield washers shall be electric operated wet-arm type with a 3/4 gallon washer fluid reservoir, mounted inside the engine enclosure and readily accessible through the engine hatch at the rear of the engine enclosure.

The washer control shall be integral with the intermittent wiper control switch.

There shall be individual removable panels on the front face of the cab for access to the wiper motor assemblies.

Windshield wipers shall survive testing in excess of 3 million cycles in accordance with section 6.2 of SAE J198 "Windshield Wiper Systems – Trucks, Buses and Multipurpose Vehicles".

The bidder shall certify that the wiper system design has been "Third party tested" and that the wiper system has met this criteria.

64. SIDE VIEWING WINDOWS NON-SLIDING

QTY: 1

A fixed, tinted window with 620 sq. in of glass area shall be provided on each side of the cab behind the forward cab doors.

This window will be the same height as the window in the rear cab door for maximum visibility.

65. DARK TINT WINDOWS, SIDE VIEWING, REAR DOORS & REAR WALL

QTY: 1

The windshield and the forward cab door glass shall be provided with standard DOT, green automotive tint.

The side cab windows to the rear of the front doors, the rear cab door windows, and any rear viewing windows shall be equipped with a dark, automotive tint.

66. GRAB RAILS EXTERIOR, HANSEN KNURLED ALUMINUM LIGHTED - RED INSERT

QTY: 1

Four (4) Hansen 1-1/4" diameter x 28" long, knurled, bright anodized aluminum handrails shall be provided.

There will be one (1) at each cab door entrance.

Each grab rail shall have white LED lights that shall be wired to the DOT marker lights and interlocked to illuminate when the parking brake is applied.

In addition to the LED lights, each handrail shall have two (2) red reflexive, reflective strips for enhanced visibility.

Grab rail stanchions shall be chrome plated and offset when necessary to prevent "hand-pinching" when opening or closing the doors.

Formed rubber gaskets shall be provided between each stanchion base and the cab surface.

67. ONE (1) KNURLED ALUMINUM HANDRAIL FRONT OF CAB BELOW WINDSHIELD

QTY: 1

One (1) Hansen 1-1/4" diameter x 14" long, knurled aluminum, grab rail shall be provided on the front of the cab, below the windshield. **The handrail shall match the side handrails, but without LED lighting and reflective material. The mounting stanchions shall be offset in an upward direction. The handrail shall be made to be the widest available without creating any clearance issues.** Formed rubber gaskets shall be provided between each stanchion base and the cab surface.

68. PREDATOR INTERIOR GRAB HANDLES – WHEELABRATED

QTY: 1

Grab rails shall be provided to assist in entry and exiting of the cab. Each grab rail shall be a cast aluminum "D" style handle that shall have a wheelabrated finish and shall be located in the following locations:

- Three (3) 12" long, vertically mounted with one (1) on the officers side of the cab interior A post and one (1) on each side of the cab interior on the C post in the crew area
- One (1) 11" long, horizontally mounted on each front cab door on the interior door panel
- One (1) 11" long, horizontally mounted on each rear cab door on the interior door panel
- One (1) 30" long, horizontally mounted on each rear cab door, located approximately 8" above the bottom of the window opening.

69. DRIVER GRAB RAIL

QTY: 1

One (1) 12" long, vertically mounted, one (1) on the driver's inner door panel, mounted on an angle as near as possible to the door hinge. The grab handle shall have a wheelabrated finish to match the other interior mounted grab handles.

70. FRONT CAB GRILLE - SHAPED POLISHED STAINLESS STEEL

QTY: 1

A shaped mirror finished stainless steel grille shall be installed to allow for maximum air flow to the charge air cooler and the radiator. **Clarification; the front cab grille will be a 3-D formed polished stainless steel grille assembly.**

A four (4) inch wide solid band shall extend across the middle of the grill for lettering or lighting purposes.

71. FRONT CAB GRILLE SCREEN - AMERICAN FLAG

QTY: 1

An American flag mesh bug screen shall be provided behind the front grill assembly to protect the radiator from bugs and other debris.

The screen shall be secured to the front of the cab by button snaps, behind the main grill.

72. SIDE CAB GRILLES -SHAPED POLISHED STAINLESS STEEL

QTY: 1

Two (2) shaped, mirror finished stainless steel air inlets/outlets shall be provided horizontally above the wheel well opening, one on each side of the cab.

The grilles shall be equipped with a mesh screen to serve as a secondary ember separator.

The design shall permit proper ducting of air through the engine compartment and cooling system.

The left side inlet, used for the air intake to the air cleaner, shall be equipped with dual ember separators for separating burning embers from the air intake system.

This system shall be such that particles larger than .039 inches (1 mm) in diameter cannot reach the air filter element.

No part of the air intake system for the engine shall be lower than the top of the frame rails to ensure the vehicle can navigate pooled water without any part of the air intake system being exposed to water when the vehicle is stopped or in motion.

Chassis designs, which the engine air intake system is lower than the frame rails shall not be acceptable!

73. ALUMINUM TREAD PLATE OVERLAY, EXTERIOR REAR WALL

QTY: 1

A bright finish aluminum tread plate overlay shall be provided over the entire exterior rear cab wall.

The tread plate overlay shall be sealed with caulking around the edges to prevent moisture from getting between the cab and the overlay.

74. OFFICER CAB STEP WELL COMPARTMENT

QTY: 1

A watertight removable storage compartment shall be provided in the officer's side cab step well. The compartment shall be designed with minimum dimensions of 25" wide x 14" deep x 14" high. A drop down door shall have a stainless steel recessed large "D" handle with twist-type single point cam locks, easily operable with a gloved hand. A horizontally hinged, 1/8" aluminum tread plate door shall be provided with a full length, heavy-duty, stainless steel, piano-type hinge and stainless steel pin. The hinge pin shall be secured to prevent creeping. The compartment shall not be louvered for ventilation.

75. ALUMINUM CAB WHEEL LINERS

QTY: 1

The front cab, wheel wells shall be equipped with fully removable bolt-in aluminum inner wheel well liners.

The liners shall extend full depth into the truck frame.

The completely washable wheel well liners shall be designed to protect the cab substructure, inner panels, and other miscellaneous installed components from road salts, debris, dirt accumulation and corrosion.

76. STAINLESS STEEL CAB FENDERETTES

QTY: 1

The cab wheel well openings shall be trimmed with replaceable, bolt-in, polished stainless steel fenderettes.

The fenderettes shall be secured to the cab with stainless steel threaded fasteners along the internal perimeter of the wheel well.

Dissimilar metal tape and black vinyl trim molding shall be used where the cab and fender meet.

77. FRONT MUD FLAPS

QTY: 1

Heavy duty, black rubber type mud flaps shall be provided behind the front wheels.

78. RAMCO - RADIUS MOUNTED MIRROR - 6001 SERIES - TOP ADD ON CONVEX

QTY: 1

Two, (2) Ramco model 6001 FFHR-750HR polished aluminum, full face, heated, remote operated, 13 inches high X 9 3/4 wide mirrors, with a 750 top add-on heated/remote convex mirror, on a standard arm length of 15 inches shall be provided and installed.

The flat glass and top mirror head shall be remote operated.

The mirror head shall be attached to a polished, aluminum arm, mounted on the cab radius panel.

79. MIRROR CONTROL - SWITCHES ON DASH

QTY: 1

The mirrors will be controlled by switches on the cab dash.

80. PREDATOR 100" - DIMENSIONS FRONT SEATING & ENGINE ENCLOSURE – WIDE

QTY: 1

Top of front seat to ceiling 44" (depending upon seat type)
 Seat back to steering wheel 22" (depending upon seat type)
 Inside width (door to engine enclosure) 24" (driver's side, at floor)
 Inside width (door to engine enclosure) 20-1/2" (officer's side, at floor)
 Floor to top of engine enclosure 29.5"
 Centerline axle to front of cab 74"

Glass Area Dimensions:

- Windshield (Contour) 3,422 sq. in.
- Front door window, retractable 743 sq. in. each
- Rear door window, retractable 875 sq. in. each
- Fixed side windows 620 sq. in. each

81. INTERIOR TRIM, 100" PREDATOR

QTY: 1

The cab interior shall be constructed to create an ergonomically designed interior to be user friendly and functional for the driver and officer. The forward overhead panel shall be covered with a three (3) piece custom formed ABS vinyl overlay, which shall have integrated windshield defroster/heat vents and four (4) comfort vents. All ABS formed material panels, as well as all of the interior upholstery panels shall be painted with Black Line-x. The upholstered cab overhead and side wall portions shall utilize black vinyl upholstery with padding underneath to provide additional insulation.

82. INTERIOR CAB WALL BLACK VINYL UPHOLSTERY

QTY: 1

The interior rear wall of the cab shall be covered with black vinyl for durability and shall match the other upholstered areas of the cab.

83. TREAD PLATE KICK PLATE ON LOWER INTERIOR REAR WALL

QTY: 1

A twelve (12) inch high, bright finish, aluminum, tread plate, scuff plate shall be provided on the lower portion of the rear interior cab wall.

84. BARYFOL FLOORING

QTY: 1

The floor of the driver's compartment and the floor of the crew area shall be lined with Baryfol vinyl composite flooring to comply with NFPA noise and heat requirements.

85. 1" ACOUSTICAL INSULATION

QTY: 1

One (1) inch thick acoustical insulation shall be provided on the cab roof and rear and side walls of the cab.

This material shall be fitted between the cab structural members and secured with adhesive to provide an insulation barrier for noise and heat.

86. ENGINE ENCLOSURE 100" PREDATOR (ABS W/ LINE-X)

QTY: 1

The forward portion of the engine enclosure shall be covered with a custom formed ABS overlay that shall be coated with Line-X to match the balance of the cab interior. To allow maximum "elbow room" for the driver and officer, the forward portion of the engine enclosure shall feature a contour shape. The engine enclosure shall not significantly obstruct the driver's vision in any direction. The enclosure shall be an integral part of the cab structure, which shall be constructed from material providing adequate strength to support radio, map boxes, etc. The engine enclosure shall be insulated to protect from heat and sound. The noise insulation shall keep the DBA level within the limits stated in the current NFPA series 1900 pamphlet.

A, hinged access door shall be provided in the top rearward portion of the engine enclosure. The door shall allow access to the engine oil, transmission fluid, power steering fluid level dipsticks and the windshield washer fluid reservoir. The access door shall be provided with two (2) flush mounted latches and gas shock holders. There shall be an ABS cover, that shall be coated with Line-X, over the access door to give a cleaner look to the top of the engine enclosure and doghouse area.

87. HD SOUNDPROOFING/ INSULATION PACKAGE UNDER ENGINE ENCLOSURE

QTY: 1

Premium soundproofing/insulation material, Barymat BTRLAX3-14BY shall be installed in the engine enclosure.

To ensure a clean, smooth surface, this material shall be retained by flat aluminum panels fastened to studs that are welded to cab as needed.

These panels shall be removable.

Any gaps in this insulation barrier shall be sealed with 3M #425 aluminized high temperature tape.

88. HD SOUNDPROOFING/INSULATION BETWEEN UPHOLSTERY & ENGINE ENCL

QTY: 1

To further reduce the noise and heat levels inside the cab, 1/4" foam upholstery material shall be installed on all interior surfaces of the engine enclosure, below the upholstery material.

89. ENGINE ENCLOSURE MOUNTING PANEL

QTY: 1

The entire top of the engine enclosure (Dog house) will be overlaid with an aluminum mounting panel. The panel will be spaced 1" above the top of the dog house. The panel will be a split design with two equal sized panels.

90. SUN VISORS, 100" PREDATOR CAB, PADDED VINYL

QTY: 1

To provide maximum protection for the driver and officer, two (2) padded vinyl sun visors shall be mounted in the cab overhead on each side.

91. DASH & CENTER CONSOLE - 100" PREDATOR (ABS W/ LINE-X)

QTY: 1

The driver and officer side dash, along with the center dash, shall be covered with a custom formed ABS overlay that shall be coated with Line-X.

The Line-X color shall match the interior color of the cab to create an ergonomically designed interior to be user friendly and functional for the driver and officer.

The dash gauge panel shall be a custom formed ABS pewter gray wrap-around design for improved visibility.

A full complement of gauges shall be provided in custom formed bezels.

The starter and ignition switches shall also be integrated into the upper left portion of the gauge panel for easier access.

All warning lights and indicators shall be located in either the gauge itself or in the warning light cluster located in the lower center portion of the dash.

Each gauge shall be equipped with an international symbol that is easily recognizable, denoting the system being monitored.

Instrumentation shall be backlit for easy identification.

The transmission gear selector and the spring brake control valve shall be located on an angled section of the center dash assembly toward the driver for easy access.

There shall be provisions for mounting a switch panel in the center of the dash between the driver and officer.

The top center of the dash assembly shall contain one (1) removable panel to access the main chassis wiring circuits and breaker panels.

92. OVERHEAD PANEL, FABRICATED CENTER THREE WING PANEL

QTY: 1

An overhead console with a center three piece removable panel assembly shall be provided on the cab roof between the driver and officer to permit installation of the multiplex smaller sized control screens and other components as space allows.

The overhead console shall be painted to match the interior of the cab.

The overhead console shall not obstruct the driver's vision through the officer's side window.

93. CAB DOOR STEP TRIM

QTY: 1

Cast aluminum wheel-a-brated cab step trim shall be included in the area of the cab where the floor meets the step transition area.

94. SEAT AND SEAT BELT ANCHOR TESTING

QTY: 1

Each seat belt anchor shall be tested to withstand 3,000lbs of pull on both the lap and shoulder belt in accordance with FMVSS 210 section 4.2.

Each seat mounting position shall be tested to withstand 20G's of force in accordance with FMVSS 207 section 4.2(c).

Both tests shall be performed and verified at a third party testing and evaluation center.

95. STORAGE COMPARTMENTS UNDER FRONT SEATS

QTY: 1

There shall be a compartment provided under each front seat with a latched access door.

96. DRIVERS SEAT, USSC ELECTRIC BASE – ABTS

QTY: 1

The driver's seat shall be a USSC Valor, 8 way electric, ABTS LH bucket seat.

The seat shall have a contoured and padded seat cushion with adjustable, lumbar support.

The seat shall have a horizontal slide adjustment, a vertical height adjustment, and tilt adjustment.

All seat movements shall be electrically controlled from panel on the forward, lower edge of the seat.

The seat shall be equipped with a red, integrated, 3-point shoulder harness with lap belt, and a dual retractor belt configuration with ready reach built into the seat assembly.

97. OFFICERS SEAT, USSC - FIXED BASE, BUCKET, ABTS

QTY: 1

The officer's seat shall be a USSC ABTS RH, fixed base bucket seat.

The seat shall have a tapered and padded seat cushion.

The seat shall be equipped with a red, integrated, 3-point shoulder harness with lap belt, and a dual retractor belt configuration with ready reach built into the seat assembly.

98. USSC - HORIZONTAL SLIDE ADJUSTMENT - OFFICERS SEAT

QTY: 1

The officer's seat shall be equipped with a horizontal slide adjustment six (6) inches on center.

99. USSC SCBA ABTS REAR FACING, OUTBOARD, DRIVER SIDE

QTY: 1

The driver's side, outboard, rear facing crew seat shall be a USSC Valor ABTS RH series fixed base SCBA seat.

The seat shall have a contoured and padded seat cushion with a dynamic, SCBA back frame that adjusts rearward with each occupant to properly seat them against the bolster and headrest.

The seat shall be equipped with magnetic, SCBA strap holders which secure the SCBA straps.

Limiting straps shall be provided as a standard feature to allow the adjustment of the dynamic back.

The seat shall be equipped with a red, integrated, 3-point shoulder harness with lap belt, and a dual retractor belt configuration with ready reach built into the seat assembly.

100. IMMI - SMARTDOCK- SCBA BOTTLE BRACKET - OUTBOARD DRIVER SIDE

QTY: 1

The seat shall include a SmartDock GenII bottle bracket.

101. USSC SCBA ABTS REAR FACING, OUTBOARD, OFFICER SIDE

QTY: 1

The officer's side, outboard, rear facing crew seat shall be a USSC Valor ABTS LH series, fixed base SCBA seat.

The seat shall have a contoured and padded seat cushion with a dynamic, SCBA back frame that adjusts rearward with each occupant to properly seat them against the bolster and headrest.

The seat shall be equipped with magnetic, SCBA strap holders which secure the SCBA straps.

The seat shall be equipped with a red, integrated, 3-point shoulder harness with lap belt, and a dual retractor belt configuration with ready reach built into the seat assembly.

102. IMMI - SMARTDOCK- SCBA BOTTLE BRACKET - OUTBOARD OFFICER SIDE - SEATS INC

QTY: 1

The seat shall include a SmartDock GenII bottle bracket.

103. FORWARD FACING SEAT POSITION -WITH BACK, OUTBOARD, DRIVER SIDE

QTY: 1

The driver's side outboard forward facing crew seat position shall be provided.

The rear cab wall will include a back pad that will serve for back support.

The seating position shall be equipped with a red, 3-point shoulder harness with lap belt.

104. FLIP UP SEAT, FORWARD FACING, OUTBOARD, DRIVER SIDE

QTY: 1

The driver's side outboard, forward facing, crew seat position shall have a flip-up style seat.

105. FORWARD FACING SEAT POSITION -WITH BACK, OUTBOARD, OFFICER SIDE

QTY: 1

The officer's side outboard, forward facing, crew seat position shall be provided.

The rear cab wall will include a back pad that will serve for back support.

The seating position shall be equipped with a red, 3-point, and shoulder harness with lap belt.

106. FLIP UP SEAT, FORWARD FACING, OUTBOARD, OFFICER SIDE

QTY: 1

The officer's side outboard, forward facing, crew seat shall have a flip-up style seat.

107. USSC PARADE PACKAGE PADDED SCBA COVERS

QTY: 2

A removable padded covers shall be provided for the SCBA seat openings.

108. SEAT ADJUSTMENT NOTICE

QTY: 1

If equipped, adjustable seats may be limited by outside factors such as optional installed equipment (ie. ems compartments, battery chargers, SCBA cylinder brackets) and seat placement.

109. USSC SEATING MATERIAL - BLACK CORDURA

QTY: 1

The seats shall be upholstered with Black Cordura material with red top stitching as provided by USSC.

All seating shall have "quick removal" covers.

110. DELETE - 4FRONT - FRONTAL AIR BAG PROTECTION SYSTEM

QTY: 1

111. AKRON/WELDON SEAT BELT WARNING SYSTEM - UP TO 12 SEATS - VMUX DISP

SECTION 2.31

QTY: 1

The apparatus shall be equipped with an Akron/Weldon seat belt warning system.

The system shall consist of a Seat Belt module and shall display the seating positions through the main, V-MUX screen.

112. SEVEN (7) SEATING POSITIONS

QTY: 1

Seat belt and seat cushion sensors shall be provided on the seven (7) specified seating positions.

113. AKRON/WELDON VEHICLE DATA RECORDER - MULTIPLEX

QTY: 1

An Akron/Weldon Vehicle Data Recorder (VDR) system shall be provided.

The system shall include an NFPA compliant "Black Box", with reporting software that shall be capable of data storage to coincide with the NFPA requirements.

Data storage capabilities shall include interfaces with the following systems:

- Display module (Master Optical Warning Device)
- VDR, date & time stamp
- Max Vehicle speed (MPH)
- Vehicle acceleration / deceleration (MPH/Sec.)
- Engine Speed (RPM)
- ABS event
- Data password protected
- Data sampled once per second, in 48-hour loop
- Data sampled min by min for 100 engine hours
- Throttle position (% of Throttle)
- Data software
- PC / Mac Compatible
- Data summary reports

114. AKRON/WELDON VEHICLE DATA RECORDER DOWNLOAD HARNESS

QTY: 1

A Weldon model #0L40-2597-00, VDR download harness shall be supplied with the system to allow the data to be downloaded to a computer.

115. PAINTED CAB DS REARWALL EMS COMPT 53"H X 40"W X 24"D **SECTION 2.162**

QTY: 1

A storage compartment shall be mounted against the rear wall of the cab crew area. The compartment shall be approximately 24" deep x 53" high (depending on roof height) x 40" wide. The door opening shall be approximately 38" high x 30" wide. There will access points on the side for the lower 20 inches of the compartment. These opening will be secured with a black nylon webbing type door. The nylon webbing will be 2" wide. The compartment shall be constructed of smooth aluminum. The top of the EMS compartment will have 1" square holes punched out for proper circulation of air from the AC unit mounted just above the compartment. The EMS compartment shall be equipped with a roll-up door. The compartment shall be painted with textured paint, matching the interior color of the cab. **FOR CLARIFICATION: The three door openings on the EMS compartment will be maximized for efficiency.**

- The mounting location for all two way radio components will be inside of the EMS compartment, on the rear wall, as close to the compartment ceiling as practical.

- All antenna coax cables will terminate in the upper portion of the EMS compartment.

- A wire chase will be provided from the EMS compartment to the center dash for additional wiring needs and the two-way radio remote head.

NOTE: The EMS compartment is currently specified to be 40" wide. At this width there would be a total of 27" available on each side between the compartment and the side wall of the cab. We will need the customer to determine what is an acceptable width for maintaining comfort for a firefighter sitting in either of the parade seats. When the customer advises us as to that width we will adjust the width of the EMS compartment to maximize storage space.

116. ADJUSTABLE SHELVES FOR EMS STORAGE COMPARTMENT SECTION 2.162

QTY: 3

An adjustable shelf shall be provided in the EMS compartment. The shelf shall be constructed from 3/16" brush aluminum mounted to uni-strut tracking material.

117. CAB EMS COMPARTMENT LIGHTING, ROM V4 TRACK, LED SECTION 2.162

QTY: 1

The EMS compartment shall be equipped with the noted quantity ROM V4 brand LED interior track light(s). The lighting shall be wired to automatically activate when the compartment door is open and the master battery switch is in the "on" position.

118. CAB INTERIOR FULL TREAD PLATE FLOOR OVERLAY SECTION 2.148

QTY: 1

The floor of the driver's, officer's area and the floor of the crew area shall be covered with bright finish aluminum tread plate over the standard floor covering.

119. ENGINE ENCLOSURE STORAGE MODULE

QTY: 1

A storage module shall be installed on the center of the engine access door between the rear facing seats.

The module shall be constructed of 1/8" aluminum and shall be coated with scuff resistant paint to match the cab interior.

This storage module will provide storage for up to six (6) map books along with a center storage tray for small equipment or personal belongings. Four (4) individual cup holders shall also be provided. The exact mounting location to be determined during an in-process inspection.

120. JOHNSON EQUIPMENT PROVIDED AND INSTALLED ITEMS SECTION 4.84

QTY: 1

The Gambler Johnson Mobile Data Computer setup as listed in Section 4.84 and the Sigtronics Intercom system as listed in section 4.80 will be provided and installed by Johnson Emergency Company. KME will only be responsible to provide the 12 volt power and ground connection points and the lighted rocker switch for the MDC power supply. The GPS antenna will terminate at the MDC provision above the Officers glove box.

121. CUSTOMER SUPPLIED MOBILE RADIO

QTY: 1

The Customer Supplied Mobile radio and control boxes will be mounted by KME radio vendor.

Note: KME will comply with Addendum#1 of the Riverside County Specification.

The two-way radio head will not be dash mounted. The remote radio head will be mounted on top of the center dash extension, using a swivel which will allow for both front seat occupants to control and view. A new revised dash drawing will be provided.

122. OFFICER FOLD DOWN FOOT REST ON FIREWALL SECTION 2.159

QTY: 1

A fold down foot rest shall be provided on the firewall electrical access panel, in front of the officer's seating position.

The foot rest shall be designed with a 14" wide x 3" deep foot rest plate.

123. ANTENNA ROOF RAIL SECTION 2.27

QTY: 1

A 72 inch wide antenna mounting rail will be welded to the cab roof three inches forward of the rear wall edge of the cab, as per the drawing. The antenna mounting rail shall be constructed of three (3) inch aluminum tubing welded to the cab roof, sealed on both ends and painted job color. Four (4) equally spaced exterior access openings shall be provided in the mounting rail on the forward surface, to allow for antenna mounting and cable routing. The access openings shall include an access panel with rubber gasket and nutserts to secure the access panels. Access holes shall be drilled through the tubing into the cab roof to provide access to the communications area located within the upper portion of the EMS compartment.

Design, layout and attachment must be approved by the District.

124. FLAT DASH IN FRONT OF OFFICER (ABS)

QTY: 1

There shall be a flat surface area in front of the officer for use with such items as a lap top computer.

125. HEATER/DEFROSTER & ACCESS, PREDATOR 100" - 10" RAISED ROOF SECTION 2.146

QTY: 1

CLIMATE CONTROL SYSTEM

A climate-control system shall be provided for total cab environmental comfort. This system shall provide heat, cooling and defrost capabilities to various areas in the cab. The system shall consist of a single evaporator unit, mounted in the center overhead of the cab.

The ceiling mounted evaporator/heater unit shall include the following:

Heavy-duty, high output blower.

High efficiency coil that includes "rifled" tubing and oversized header tubes for maximum refrigerant distribution.

Four (4) 3" diameter, adjustable louvers; two (2) each side of the cab overhead, facing the driver and officer seat positions.

Two (2) larger louvers located in the center of the overhead assembly, facing the windshield.

A large center mounted multi-vent defroster louver positioned above the windshield to provide adequate airflow for windshield defrost.

Four (4) integral 3" diameter louvers, one (1) below the driver and officer seat positions and one (1) under each outboard rear facing crew seat.

Damper controls shall be pneumatically operated to provide air discharge to the windshield, front overhead air discharge louvers or the seat riser/floor outlets as required.

An adjustable electric water valve to control the amount of heat.

Housing shall be fully insulated and enclosed.

BTU: 71,000 A/C

BTU: 85,000 Heat

CFM: 680 Heat as mounted in the cab

CFM: 680 A/C as mounted in the cab

The ceiling mounted evaporator unit shall be designed to include a deep well condensate collection pan, which shall include an automatic air vacuum pump to ensure proper drainage.

The ceiling mounted evaporator unit shall be enclosed with an ergonomically designed, custom padded ABS panel to provide maximum headroom and a pleasing appearance.

A serviceable foam intake filter shall be installed on the rear of the evaporator.

The controls panel shall actuate the air-distribution system with air cylinders, which are to be separated from the brake system by an 85-90 psi pressure protection valve.

All defrost/heating systems will be plumbed with one (1) seasonal shut-off valve mounted near the engine.

ROOF MOUNT CONDENSER

A 12-volt roof top dual condenser shall be strategically positioned on the cab roof so as not to interfere with any emergency lighting systems. The condenser shall be designed with high performance, long life fan assemblies. The fan motors are to be equipped with sealed housings and shaft. The condenser and coil design shall include rifled tubing for maximum efficiency. Each coil shall be painted black. The condenser unit must include a receiver drier with a high and low pressure switch. The wire harness shall include necessary wiring for the clutch circuit as well as a separate power relay circuit. Mounting design shall enable easy servicing of all components and unit replacement if necessary.

126. HVAC CONTROL SYSTEM - CONTROLS ABOVE DRIVER SECTION 2.146

QTY: 1

The driver's overhead panel shall contain all controls for the cab HVAC system.

The following controls shall be provided: mode selector switch, front fan speed switch, rear fan speed switch, air conditioning on/off switch, and temperature control dial.

All controls shall be clearly labeled, adequately backlit, and installed in an easily removable panel.

127. BERGSTROM AUXILIARY A/C SECTION 2.146

QTY: 1

A Bergstrom Model # BSP00029AC12 12-volt. The system shall consist of one (1) air conditioning roof mounted unit which shall be located above the crew area and offset left of center on the cab roof above the crew area. The cover of the air conditioning unit shall be painted red (job/body color). An IOTA #DLS-75-X converter to convert 110 volt power to 12 volt power for the aux AC system will be provided. The system shall be powered through the blue shoreline power auto eject. The system shall be managed through the load manager to shut down auxiliary AC system in the event that the battery power drops below recommended levels. Note: This electrical system shall feed both the cab mounted and the tiller cab mounted auxiliary AC systems. (Note: The tiller cab mounted AC unit is located in the tiller cab area of the specification.

128. CAB TILT SYSTEM SECTION 2.137

QTY: 1

A hydraulic cab lift system shall be provided, consisting of an electric-powered hydraulic pump, fluid reservoir, dual lift cylinders, remote cab lift controls and all necessary hoses and valves.

The cab tilt mechanism shall be custom designed for ease of maintenance and consist of two (2) hydraulic cylinders.

Hydraulic lines shall be rated at 20,000 PSI burst pressure.

The hydraulic cylinders shall be equipped with a velocity fuse that protects the cab from accidentally descending when the cab is in the tilt position.

Hydraulic cylinders shall be detachable to allow removal of the engine for major service.

A remote cable operated mechanical cylinder stay bar and release shall be provided to insure a positive lock in the tilted position.

The two (2) rear outboard cab latches shall be of the hydraulic pressure release, automatic re-latching type, and provide an automatic positive lock when the cab is lowered.

The latch shall not disengage or experience any damage when subjected to a pull apart tensile load of 6,000 lbs. The hydraulic pressure required to unlock the latch shall not exceed 550 PSI. The latch shall withstand 5,000 PSI without leaks or damage and withstand 1,000 continuous cycles of operation under a load of 1,000 lbs. at liftoff. The tilt pump shall be electric over hydraulic type, with a pressure rating of not

less than 4,000 PSI. Additionally, the cab tilt device shall be both electrically and hydraulically interlocked to prevent inadvertent activation of the cab tilt system.

- A "CAB NOT LATCHED" indicator shall be provided in the cab dash-warning cluster.
- A dual switch control system shall be provided for the cab tilt, located on the passenger side of the vehicle or on the optional tether control. System shall consist of a three (3) position toggle switch along with a rubber covered push button switch.

129. AUXILIARY - MANUAL CAB LIFT BACKUP SYSTEM SECTION 2.138

QTY: 1

An auxiliary, manual cab, lift backup system shall be furnished inside the passenger side of the pump enclosure or front compartment for use in the event of total electrical shutdown.

130. TETHER CONTROL FOR CAB TILT , W/COMPARTMENT FOR CONTROL SECTION 2.139

QTY: 1

A 12' tether control shall be provided to control the cab movement.

This arrangement will provide the operator with a full view of the cab.

The control shall include a two (2) switch control, one (1) three (3) position toggle switch, and one (1) push button type switch.

Both controls must be depressed for activation of the system.

The auxiliary cab lift control shall be located in the Officers side lower step area CR-3. The tether control for the cab tilt shall be hard wired and shall also be located within the CR-3 compartment.

131. PARKING BRAKE/CAB TILT INTERLOCK SECTION 2.137

QTY: 1

The cab tilt control shall be equipped with an interlock.

This shall disable the cab tilt system in the event the parking brake is not applied.

132. CAB TILT SECONDARY SAFETY LOCK SECTION 2.137

QTY: 1

A secondary, swing down, safety bar shall be applied to the driver side cab tilt cylinder with a manual lock to engage the lock, as required for extended service operations.

133. REAR CAB LIFTING EYELETS SECTION 2.214

QTY: 1

The cab shall be capable of tilting to a 90-degree angle, with the assistance of an overhead hoist, to facilitate unobstructed removal of the engine and/or radiator.

The manufacturer shall provide attachment points to safely facilitate, tilting the cab to a 90-degree angle.

The rear cab, lifting eyelets shall be located at the upper portion of the rear cab sheet metal and attached to the upper cab, cross brace.

The cab lift eye system shall be much like the LA County units except with a removable swiveling hoist ring provided for each of the two (2) lift points. The mounting locations for the swivel hoist rings shall have a cap to prevent water/dirt intrusion. Each of the mounting locations for the swivel hoist rings mounting locations shall have a stainless steel backing plate. The swivel hoist rings shall be shipped loose.

134. 110,000 PSI FRAME: STD MAIN RAIL WITH FULL LENGTH LINER SECTION 2.130, 2.133

QTY: 1

The chassis frame shall be fabricated in its entirety at the manufacturer's facility. This will prevent any split responsibility in warranty or service.

The frame shall consist of two (2) channels fastened together by cross members. All structural fasteners

used in the frame shall be Grade 8 hardware. Hardened steel washers shall be used under all bolt heads and nuts to avoid stress concentrations. Top flange shall be free of bolt heads. All spring hangers shall be machined steel castings. Frame assemblies that are welded or assembled with "Huck" type fasteners are not acceptable.

Each main frame rail shall be 10-1/4" x 4" x 3/8", fabricated from Domex™ 110,000 PSI minimum yield steel, with a minimum section modulus of 18.396 cu in and a resisting bending moment (RBM) of 2,023,560 inch pounds. The frame rails shall be drilled "together" (back to back) on a frame drilling machine with an internally cooled drill bit in order to minimize the deviation in hole diameter or location. Frames are built for the specific apparatus under construction so that no unnecessary holes or modifications are made to the frame assembly.

A full length inner frame liner 9.44" X 3.63" X 3/8" shall be installed. Total section modulus of each rail, with liner, shall be 33.56 cu in and the total resisting bending moment (RBM) shall be a minimum of 3,691,050 in-lbs., per rail.

The chassis frame assembly, consisting of frame rails, cross members, axles and steering gear(s), shall be finish painted before installation of any electrical wiring, fuel system components, or air system components. All components or brackets fastened to the frame rails shall be cleaned, primed and painted prior to being attached to the frame rails.

135. BUMPER 12" STAINLESS STEEL CONTOUR - ALL CABS SECTION 2.134

QTY: 1

A 12" high, 101" wide, two (2) ribbed, bright finish, stainless steel, front bumper shall be provided.

The bumper shall be a wrapped design to match the contour of the front cab sheet.

136. 10" FRONT BUMPER EXTENSION WITH TREAD PLATE GRAVEL SHIELD SECTION 2.134

QTY: 1

The bumper shall be extended 10" with a polished aluminum, tread plate, gravel shield enclosing the top and ends.

137. TOW FORK - TOW EYE PROVISION SECTION 2.134

QTY: 1

Two (2) heavy duty, tubular, steel, towing forks shall be bolted to the underside of the frame drop at the front of the chassis.

They are incorporated into forks which shall have two (2) painted steel tow eyes.

The forks shall be shaped like an upside down "U" to act as a designated hookup point to accept a tow bar from a service vehicle.

The robust design shall allow a disabled vehicle to be lifted and towed without doing damage to the bumper or bumper mounted options.

FOR CLARIFICATION: The lift and tow option shall be painted frame/chassis color (red).

138. 22,000# FRONT AXLE STEERTEK, DISC BRAKES SECTION 2.6

QTY: 1

The Steertek NXT front axle beam shall be rated to carry 22,000 lbs. and consist of a fabricated box cross section construction with 100ksi plate and a continuous beam architecture to minimize stress points for added durability.

The axle shall incorporate a removable kingpin feature for ease of kingpin serviceability. The knuckles shall allow for compatibility with disc brakes mounted at the 12 o'clock position and with drum brakes, and allow for wheel cut up to 45 degrees. They shall also utilize premium kingpin bushings and seals to provide enhanced protection from the elements to improve bushing life. Oil seals with viewing window shall be provided.

The suspension shall consist of multi-leaf parabolic springs rated at 22,000 lbs. with double wrapped front eye that are packaged within an integrated clamp group that allows for ease of OEM assembly on to the axle beam and reduced part count. The clamp group bolts are tightened on the top of the clamp group opposed to the traditional U-bolt on the bottom making it easier to access with a torque wrench for servicing. The spring shall also include a lower shock attachment with an upturned eye. The springs will contain threaded pin bushings to allow simplification of spring alignment as well as long service life and improved ride quality. The suspension and spring geometry will be optimized to provide improved bump steer and Ackermann. Two ZF Sachs twin-tube shocks shall be provided with the front suspension assembly. The shocks shall be specially developed for parabolic leaf springs with a digressive characteristic curve using a patented piston system. The shocks shall feature multi-stage piston and base valves. The combination of valves shall achieve the desired damping characteristics that are ideal for the application.

Meritor EX-225 H, 17" disc brakes shall be provided for the front axle.

The front brakes shall be full air actuated with automatic, slack adjustment.

139. OIL SEALS, NON DRIVE AXLES ONLY SECTION 2.6, 2.87

QTY: 1

Premium Stemco oil seals with viewer glass shall be provided on the front axle.

140. STEERING - DUAL SHEPPARD POWER STEERING GEARS SECTION 2.93, 2.96

QTY: 1

A dual power steering system shall be provided utilizing a Sheppard model #M110 main steering gear on the driver side of the chassis and a Sheppard model #M90 steering gear on the officer side of the chassis.

The power steering gear on the officer side of the chassis shall increase performance in turning the officer side wheel assembly, reducing loads and forces on the main gear and components.

The steering system shall be designed to maximize the turning capabilities of the front axle no matter the rating and tire size.

The use of a power assist cylinder on the officer side of the chassis is NOT ACCEPTABLE on front axles of this capacity.

The system shall be designed utilizing an engine driven hydraulic pump, with a maximum operating pressure of 2000 PSI.

Steering design shall permit a maximum of 5.6 turns from stop to stop.

Steering system components shall be mounted in accordance with the steering gear manufacturer's instructions.

141. STEERING COLUMN - BASE "NARROW" SECTION 2.91

QTY: 1

The steering column shall be a "Douglas Autotech" tilt and telescope column.

A lever mounted on the side of the column shall control the tilt and telescope features.

The steering shaft from the column to the miter box shall have a rubber boot to cover the shaft slip and a second rubber boot to seal the passage hole in the floor.

There shall be a self-canceling lever that shall control the following functions:

- Left and right turn signals

- High beam activation
- Two speed with intermittent windshield wiper control
- Windshield washer control

142. 18" STEERING WHEEL SECTION 2.91

QTY: 1

The steering wheel shall be a two (2) spoke, vinyl padded, minimum 18" diameter, with a center hub mounted horn button.

143. POWER STEERING FLUID - COOLING SYSTEM SECTION 2.93

QTY: 1

A power steering fluid cooling system shall be provided.

The heat exchanger shall be a tube and fin type and shall be a separate unit.

The cooler shall be mounted forward of the radiator and plumbed to the power steering fluid return line.

144. 31,000# REAR AXLE MERITOR RS-30-185 SECTION 2.6

QTY: 1

Rear axle shall be a single, Meritor RS-30-185 with a capacity of 31,000 lbs.

(Minimum). Axle shall be a single reduction axle with hypoid gearing and oil-lubricated wheel bearings.

Oil seals shall be provided as standard equipment.

145. 16.5" X 8.6" S-CAM BRAKES - MERITOR REAR AXLE, W/ AUTO SLACK ADJUSTERS SECTION 2.116, 2.119

QTY: 1

Brakes shall be "S" Cam, 16-1/2" x 8 5/8" size, and shall be full air actuated with automatic, slack adjusters.

146. VEHICLE TOP SPEED NFPA STATEMENT SECTION 2.100

QTY: 1

The rear axle/s (will/shall) be geared for a vehicle top speed in accordance with NFPA sections 4.15.2 and 4.15.3.

Units with GVWR over 26,000 pounds (will/shall) be limited to 68 mph. If the combined tank capacity is over 1250 gallons of foam and water or the GVWR is over 50,000 pounds, the vehicle top speed (will/shall) be limited to 60 mph or the fire service rating of the tires, whichever is lower.

147. NEWAY SUSPENSION AD-130,AIR RIDE- SA 31,000# SECTION 2.101

QTY: 1

The drive axle, air-ride suspension shall be a heavy-duty, severe fire service rated, 31,000 lb. capacity Neway model AD-130 with heavy-duty, air springs and heaviest duty, available hardware and urethane bushings.

Dual air leveling valves shall be provided for side to side leveling of air suspension.

The suspension shall be self-leveling from front to back and side to side and shall have restricted inlet and outlet ports to control sudden air loss.

The suspension shall be provided with quick-change type air bags and spring loaded snubbers.

The Neway rear suspension warranty will be three (3) years.

148. FRONT WHEELS, POLISHED ALUMINUM, 22.5 X 12.25, 24,000# SECTION 2.108

QTY: 1

The front wheels shall be 22.5" x 12.25" ten stud, hub piloted, polished aluminum disc type.

149. FRONT WHEELS, LUG AND HUB TRIM (ALUMINUM WHEELS) SECTION 2.111

QTY: 1

The front wheels shall be provided with bright, nut covers and hub caps.

150. FRONT, CONTINENTAL 425/65R22.5 L 24,400# HTR2 HIGHWAY - 68MPH SECTION 2.103

QTY: 1

The front tires shall be Continental 425/65R22.5, "20 Ply", tubeless, radial, HTR2, wide base highway tread.

The tires shall be fire service rated up to 24,400 lbs. and shall have a top speed of 68 mph when inflated to 120 psi.

151. FRONT AXLE - COUNTERACT BALANCING BEADS SECTION 2.110

QTY: 1

Each front tire shall be equipped with Counteract Balancing Beads.

152. REAR WHEELS, POLISHED ALUMINUM, 22.5 X 9, SA SECTION 2.109

QTY: 1

The single rear axle wheels shall be 22.5" x 9" ten stud, hub piloted polished aluminum disc type.

153. REAR WHEELS, LUG AND HUB TRIM, SA (ALUMINUM) SECTION 2.111

QTY: 1

The single, rear axle aluminum disc wheels shall be provided with bright, nut covers and hub caps.

154. REAR, CONTINENTAL 315/80R22.5 L 36,360# COACH HA3 HWY - 75MPH, SINGLE AXLE SECTION 2.104

QTY: 1

The rear tires shall be Continental 315/80R22.5, "20 Ply", tubeless, radial, Conti Coach HA3, highway tread.

The tires shall be fire service rated up to 36,360 lbs. and shall have a top speed of 75 mph when inflated to 130 psi.

155. TIRE PRESSURE MONITORING - LED VALVE STEM CAPS - EIGHT TIRES SECTION 2.107

QTY: 1

Each tire shall be equipped with an LED, tire alert, pressure management system (Vecsafe equal) that shall monitor tire pressure.

A chrome plated, brass sensor shall be provided on the valve stem of each tire.

The sensor shall calibrate to the tire pressure, when installed on the valve stem for pressures between 10 and 200 psi.

The sensor shall activate an integral, battery operated, LED when the pressure of that tire drops 8 psi.

156. ENGRAVED TIRE INFLATION TAG

QTY: 1

KME will add an engraved tag to instruct Department on proper tire inflation pressure for all tires on the apparatus. Provide documentation to support tire inflation pressure. Tag will be located in the same general area of the vehicle fluid plate and within view of the driver.

This tag will be provided after the apparatus is delivered and the Department has fully outfitted the apparatus with all operational equipment. The Department will be required to weigh the vehicle (all wheels separately, each axle separately and total vehicle weight) and provide this information to KME within 3 months of the apparatus being placed in service. KME will consult with the tire manufacture and provide a recommended tire inflation pressure. This recommended tire inflation pressure shall take into consideration all NFPA, FAMA, FMVSS and any/all Local, State and Federal standards.

157. REAR AXLE - COUNTERACT BALANCING BEADS - SINGLE AXLE SECTION 2.110

QTY: 1

Each rear tire shall be equipped with Counteract Balancing Beads.

158. REAR WHEEL SPACERS, SA SECTION 2.112

QTY: 1

The rear wheels shall be equipped with wheel spacers that shall protect against dissimilar metals coming in contact with one another.

159. CROSSFIRE TIRE EQUALIZATION SYSTEM FOR SINGLE REAR SECTION 2.106

QTY: 1

A Crossfire dual tire equalization system shall be provided for the single rear axle of the chassis.

160. BRAKE SYSTEM, SINGLE AXLE CHASSIS SECTION 2.114

QTY: 1

A dual circuit, air operated braking system, meeting the design and performance requirements of FMVSS -121 and the operating test requirements of NFPA 1901 current edition shall be installed.

It shall be direct air type with dual air treadle in the cab.

The system shall be powered by an engine mounted, gear driven air compressor protected by a heated air dryer.

The air system shall be plumbed with reinforced, air brake tubing/hose in conformance to SAE J 844-94, Type B and U.S.D.O.T. standards.

The compressor discharge shall be plumbed with stainless steel braided hose lines with a Teflon lining.

Eaton Synflex Eclipse Air Brake tubing shall be run along the inside frame rails and connected with push to connect type fittings that meet or exceed all industry standards.

All Synflex tubing shall be secured with non-conductive, corrosion resistant strapping mounted with standoff fasteners.

Cord reinforced rubber hose lines with brass fittings shall be installed from the frame rails to axle mounted air connections.

The air system shall provide a rapid air build-up feature and low-pressure protection valve with light and buzzer, designed to meet the requirements of NFPA 1901, current edition.

161. ABS BRAKING FOR SINGLE REAR AXLE CHASSIS

QTY: 1

An Anti-Skid Braking System (ABS) shall be provided to improve braking control and reduce stopping distance. This braking system shall be fitted to all of the axles. All electrical connections shall be environmentally sealed, water, weatherproof, and vibration resistant.

The system shall constantly monitor wheel behavior during braking. Sensors on each wheel shall transmit wheel speed data to an electronic processor which shall sense approaching wheel lock causing instant brake pressure modulation up to 5 times per second in order to prevent wheel lockup. Each wheel shall be individually controlled.

To improve service trouble shooting, provisions in the system for an optional diagnostic tester shall be provided. The system shall test itself each time the vehicle is started. A dash-mounted light shall go out once the vehicle has attained 4 mph after successful ABS start-up. To improve field performance; the system shall be equipped with a dual circuit design. The system circuits shall be configured in a diagonal pattern. Should a malfunction occur, the defective circuit shall revert to normal braking action. A warning light shall signal malfunction to the operator. The system shall consist of a wheel mounted toothed ring, sensor, sensor clip, electronic control unit and solenoid control valve.

The sensor clip shall hold the sensor in close proximity to the toothed ring. An inductive sensor consisting of a permanent magnet with a round pole pin and coil shall produce an alternating current with a frequency proportional to wheel speed. The unit shall be sealed, corrosion resistant and protected from electromagnetic interference. The electronic control unit shall monitor the speed of each wheel. A deviation shall be corrected by cyclical brake application and release. If a malfunction occurs, the defective circuit shall signal the operator and the malfunctioning portion of the system shall shut down. The system shall be installed in a diagonal pattern for side-to-side control. The system shall insure that each wheel is braking to optimum efficiency up to 5 times a second.

The system shall also control application of the auxiliary engine exhaust or drive line brakes to prevent wheel lock.

This system shall have a three (3) year or 300,000 mile parts and labor warranty as provided by Meritor Wabco Vehicle Control Systems.

162. TELMA DRIVELINE RETARDER SINGLE REAR AXLE - FOCAL MOUNT SECTION
2.75

QTY: 1

A Telma electromagnetic, air cooled, drive line retarder shall be furnished and focal mounted to the rear axle.

The retarder shall be sized to the maximum G.V.W.R. of the vehicle.

The system shall have an on/off switch and an indicator light on the dash.

The retarder shall automatically disengage when the vehicle is not in motion.

Activation of the retarder shall illuminate the vehicle brakes lights.

The Telma retarder shall be equipped with an electronic interface, to de-activate the retarder anytime the ABS system is activated.

163. TELMA RETARDER OPERATION W/BRAKE PEDAL PROGRESSIVE STAGES 1, 2, 3, & 4 SECTION 2.76

QTY: 1

The magnetic, retarder control shall be controlled with an on/off switch on the dash and shall be activated in conjunction with the brake pedal.

The application shall be in progressive stages, (1/4, 1/2, 3/4 & full).

164. TELMA RETARDER APPLICATION JOYSTICK - FOUR STAGE SECTION 2.76

QTY: 1

The magnetic, retarder control shall be controlled with a five (5) position joystick control, mounted on the dash panel.

This joystick will allow for manual activation of the retarder when the throttle is released.

The retarder application shall be in four (4) progressive stages, (1/4, 1/2, 3/4 & full) as the joystick control is moved downward.

165. AIR RESERVOIRS 4700 CUBIC INCH, SINGLE AXLE, W/1127 CUBIC INCH ADDITIONAL TANK SECTION 2.124, 2.125

QTY: 1

There shall be a minimum of three (3) air reservoirs installed in conformance with best automotive practices.

An additional 1127 cu. in. air reservoir shall be provided for the accessory air outlet.

Reservoir capacity total shall be a minimum of 5820 cubic inches.

The air reservoirs shall be color coded to match the air lines for easy identification, maintenance, and troubleshooting.

The reservoirs shall be painted the following colors:

- Wet Tank Black
- Primary Tank Green
- Secondary Tank Blue
- Auxiliary Tank(s) Yellow

166. 1/4 TURN DRAIN VALVES ON ALL AIR TANKS SECTION 2.124, 2.125

QTY: 1

For ease of daily maintenance, each air system reservoir shall be equipped with a brass 1/4 turn drain valve.

The brass, quarter turn, air tank drains shall be remotely mounted to the side of the body on a labeled panel just forward of rear wheel for ease of maintenance.

167. MERITOR/WABCO SYSTEM SAVER #1200, AIR DRYER HEATED SECTION 2.120

QTY: 1

A Meritor/Wabco System Saver 1200, heated air dryer shall be furnished.

An automatic, moisture ejector on the primary shall also be furnished.

168. COLOR CODED SYNIFLEX BRAKE LINES W/QUICK RELEASE FITTINGS - SA

QTY: 1

The entire chassis air system {will/shall} be plumbed utilizing reinforced, Syniflex air lines, which {will/shall} be equipped with compression type brass fittings... All of the airlines {will/shall} be color coded to correspond with an air system schematic and {will/shall} be adequately protected from heat and chafing.

169. AIR COMPRESSOR -WABCO 18.7 CFM- STD. FOR ALL CUMMINS ENGINES
SECTION 2.122, 2.123

QTY: 1

Air compressor shall be a Wabco brand, minimum of 18.7 cubic feet per minute capacity.

Air brake system shall be the quick build up type.

The air compressor discharge line shall be stainless steel braid reinforced Teflon hose.

A pressure protection valve shall be installed to prevent the use of air horns or other air operated devices should the air system pressure drop below 80 psi (552 kPa).

The chassis air system shall meet NFPA 1901, latest edition for rapid air pressure build-up within sixty (60) seconds from a completely discharged air system.

This system shall provide sufficient air pressure so that the apparatus has no brake drag and is able to stop under the intended operating conditions following the sixty (60) seconds build-up time.

170. BRAKE TREADLE VALVE

QTY: 1

A Bendix dual brake treadle valve shall be mounted on the floor in front of the driver.

The brake control shall be positioned to provide unobstructed access and comfort for the driver.

171. PARKING BRAKE CONTROL - NEAR DRIVER - ALL WHEEL LOCK SECTION 2.117

QTY: 1

Parking brake shall be of the spring-actuated type, mounted on the rear axle brake chambers.

The parking brake control shall be mounted on the cab center, instrument panel.

A red, indicator light shall be provided in the driver dash panel that shall illuminate when the parking brake is applied.

The parking brake shall be plumbed to provide all wheel lock-up when applied.

172. SECOND PARKING BRAKE CONTROL NEAR OFFICER SECTION 2.118

QTY: 1

A secondary, parking brake control shall be provided and installed on the cab dash in a location convenient to the officer.

173. AUX. AIR INLET IN LH DOOR AREA (TO CHARGE VEHICLE AIR SYSTEM) SECTION 2.126

QTY: 1

One (1) air inlet with male coupling shall be provided. It shall allow station air to be supplied to the apparatus brake system through a shoreline hose. The inlet shall be located in the driver side lower step well of cab. A check valve shall be provided to prevent reverse flow of air. The inlet shall discharge into the "wet" tank of the brake system. A mating female coupling shall also be provided with the loose equipment.

This inlet shall allow a purchaser furnished external air supply to be connected to the chassis air system.

174. BLUE SEA 12VDC, 125PSI, AIR COMPRESSOR SECTION 2.215

QTY: 1

A Blue Sea 7920 air compressor shall be provided and installed to maintain the air pressure in the chassis air brake system while the vehicle is not in use.

- Automatically turns ON at 95 PSI and OFF at 125 PSI
- Industrial grade compressor provides reliable, long term operation
- Easy installation, no mounting plate required
- Integrated vibration dampening mounts
- Serviceable air filter and water separator filter
- Works in conjunction with engine driven compressor
- Integrated auto drain to protect your air system

The compressor will be powered by shore power only.

175. KUSSMAUL AUTO DRAIN ACHP - 120V

QTY: 1

A Kussmaul # 091-9-090 Auto Drain ACHP shall be installed to protect the Auto Pump from built up moisture.

**176. CUMMINS X15 600 HP @ 1800 RPM TQ 1850 LB-FT @ 1200 - PREDATOR WIDE
SECTION 2.35**

QTY: 1

Engine shall be a Cummins, Model X15 600, diesel, turbo-charged, per the following specifications:

- Max. Horsepower 600 HP @ 1800 RPM
- Governed Speed 2100 RPM
- Peak Torque 1850 lb. ft. @ 1150 RPM
- Cylinders Six (6)
- Operating Cycles Four (4)
- Bore & Stroke 5.39 x 6.65 in.
- Displacement 912 cu. in.
- Compression Ratio 17.2:1
- Governor Type Limiting Speed
- Drive line Size 1810 Series

Engine oil filters shall be engine manufacturers branded or approved equal.

Engine oil filters shall be accessible for ease of service and replacement. A fuel/water separator shall be provided.

177. ENGINE IQA CERTIFICATION - X15 SECTION 2.35

QTY: 1

The Cummins X15 engine shall be certified by Cummins Power Systems for installation in the manufacturer's custom chassis.

178. SECONDARY BRAKING - ENGINE COMPRESSION BRAKE SECTION 2.41, 2.42

QTY: 1

An engine compression brake shall be furnished for increased braking capabilities.

Controls shall be as provided by the engine manufacturer and shall be activated by releasing the throttle pedal to the idle position.

The engine compression brake shall have dash mounted control switches to turn the brake on or off as well as to control the operational level of the brake.

The engine brake shall be wired in such a manner so as to illuminate the chassis brake lights when the engine brake is engaged and operating.

The engine brake shall be interlocked with the PTO operation and shall automatically disengage any time the apparatus is operating with the PTO active.

179. ENGINE AIR CLEANER SECTION 2.55

QTY: 1

An engine air cleaner shall be provided.

The air cleaner shall include a dry type element and shall be installed in accordance with the engine manufacturer's recommendations.

The air cleaner shall be located to the rear of the engine, with streamline air pipes and hump hose connections from the inlet to the air cleaner and from the air cleaner to the turbo.

The air cleaner shall be easily accessible when the cab is tilted.

The air cleaner shall be plumbed to the air intake system that shall include a self-sealing connection between the cab and air cleaner assembly to allow the cab to be tilted.

To draw fresh clean air, the intake for the air cleaner shall be on the side of the cab on the driver's side.

The inlet shall be a minimum of 41" above the ground to allow the vehicle to navigate through water without any part of the air intake system being below the frame rail, preventing any type of water intake.

There will be no exceptions.

180. EMBER SEPARATOR SECTION 2.55

QTY: 1

An ember separator shall be installed in the chassis air intake system.

This separator shall be mounted behind the intake grille to filter out airborne embers.

The ember separator housing must be easily accessible when the cab is tilted.

181. ACCELERATOR PEDAL - FLOOR MOUNT

QTY: 1

A floor mount accelerator pedal shall be installed on the floor in front of the driver.

The pedal shall be positioned for comfort with ample space for fire boots and adequate clearance from the brake pedal control.

182. REMOTE THROTTLE & INTERLOCK HARNESS

QTY: 1

An apparatus interface wiring harness for the engine shall be supplied with the chassis.

The harness shall include a connector for connection to the chassis harness which shall terminate in the left frame rail behind the cab for reconnection to required throttle control harnesses.

The harness shall contain necessary connectors for a pressure governor and a multiplexed gauge.

Separate circuits shall be included for pump controls, "Pump Engaged" and "OK to Pump" indicator lights, open compartment ground, start signal, park brake ground, ignition signal, master power, customer ignition, air horn solenoid switch, high idle switch and high idle indication light.

An apparatus interface wiring harness shall also be included which shall be wired to the cab harness interface connectors and shall incorporate circuits with relays to control pump functions.

This harness shall control the inputs for the transmission lock up circuits, governor/hand throttle controls and dash display which shall incorporate "Pump Engaged" and "OK to Pump" indicator lights.

The harness shall contain circuits for the apparatus builder to wire in a pump switch.

The engine ECM (Electronic Control Module) discreet wire remote throttle circuit shall be turned off for use with a J1939 based pump controller or when the discreet wire remote throttle controls are not required.

183. CUMMINS INLINE MINI

QTY: 1

A Cummins Inline Mini datalink adaptor will be provided. This is a Bluetooth enable Vehicle Datalink adaptor that allows a mobile device to communicate wirelessly with the on board ECN. Two (2) modules will be delivered with the first unit and one per truck for the remaining life of the contract. Software updates are provided by Cummins via their website and the mobile device app.

184. COOLING/RADIATOR, 100" PREDATOR – WIDE SECTION 2.48, 2.50, 2.51

QTY: 1

The radiator and the complete cooling system shall meet or exceed NFPA and engine manufacturer cooling system standards.

To provide maximum corrosion resistance and cooling performance, the entire radiator core shall be constructed using long life aluminum alloy.

The core shall be made of aluminum fins, having a serpentine design, brazed to aluminum tubes.

The tubes shall be brazed to aluminum headers. No solder joints or leaded material of any kind shall be acceptable in the core assembly.

The radiator core shall have a height of 35.92" x a width of 37.62".

Supply and return tanks made of glass-reinforced nylon shall be crimped on to the core assembly using header tabs and a compression gasket to complete the radiator core assembly.

The radiator shall be compatible with commercial antifreeze solutions.

There shall be a full steel frame around the entire radiator core assembly.

The radiator core assembly shall be isolated within the steel frame by rubber inserts to enhance cooling system durability and reliability.

The radiator shall be mounted in such a manner as to prevent the development of leaks caused by twisting or straining when the apparatus operates over uneven ground.

The radiator assembly shall be isolated from the chassis frame rails with rubber isolators.

The cooling system shall include a surge tank mounted to the top of the radiator framework that shall remove air in the system.

The surge tank shall be equipped with a sight glass to monitor the level of coolant.

The radiator shall be equipped with a dual seal cap that shall allow for expansion and recovery of coolant into a separate integral chamber.

The cooling system shall be designed for a maximum of fifteen (15) PSI operation.

A drain port shall be located at the lowest point of the cooling system and/or the bottom of the radiator to permit complete flushing of the coolant from the system.

Extended life engine coolant shall provide anti-freeze protection to -30° F.

The mixture shall be per the engine manufacture's specifications.

185. ENGINE COOLANT FILTER - CUMMINS L9, X12, X15 SECTION 2.52

QTY: 1

The engine cooling system shall have an inline coolant filter that shall have a shut off valve for ease of maintenance.

A complete list of coolant hoses and filter manufactures along with part numbers will be provided at time of apparatus delivery.

186. COOLING SYSTEM CRITERIA SECTION 1.18

QTY: 1

The engine cooling system shall be certified by the engine manufacturer to meet cooling index requirements for a minimum ambient temperature or 110-degrees Fahrenheit.

187. TRANSMISSION COOLER SECTION 2.68

QTY: 1

A shell and tube transmission oil cooler shall be provided using engine coolant to control the transmission oil temperature.

The cooler shall have an aluminum shell and copper tubes.

The cooler shall be assembled using pressed in rubber tube sheets to mechanically create a reliable seal between the coolant and the oil.

No brazed, soldered, or welded connections shall be used to separate the coolant from the oil.

188. RADIATOR CROSS MEMBER SECTION 2.49

QTY: 1

The radiator installation shall include a radiator cross member for additional strength and durability.

This cross member shall be designed so the angle of approach is not effected.

189. HEAVY DUTY RADIATOR SKID PLATE SECTION 2.49

QTY: 1

The radiator installation shall include a heavy-duty radiator skid plate to protect the radiator from debris or obstructions under the chassis.

The skid plate shall be designed so the angle of approach is not effected.

This skid plate design shall include wire cover wing plates for additional protection to wires and hoses on each side of the radiator assembly.

190. CHARGED AIR COOLER (STACK MOUNT), 100" PREDATOR CAB SECTION 2.48

QTY: 1

The charge air cooler shall be constructed of aluminum with cast aluminum side tanks.

To not restrict air flow to the radiator, the charge air cooler shall designed to be an integral part of the radiator assembly, mounted directly on top of the radiator.

Rubber isolators shall be used at the mounting points to reduce transmission of vibrations.

Where applicable, the charge air cooler pipes shall be constructed of appropriately sized aluminized steel tubing with 0.06" wall thickness and formed hose barbs.

The connections between these pipes, the engine and charged air cooler, shall be made using high temperature silicone hoses rated for use in temperature up to 500°F, and heavy duty constant tension T-Bolt spring hose clamps.

These connections shall adequately allow for movement of the engine relative to the charged air cooler.

Charge air coolers that are located in front of the radiator, that block or restrict air flow into the engine radiator or introduce above ambient temperature air into the radiator in any way shall not be used.

191. COOLANT FAN, W/CLUTCH - CUMMINS X15 SECTION 2.47

QTY: 1

The engine cooling system shall incorporate a heavy duty fan, installed on the engine and include a shroud.

The fan shall be equipped with an air operated clutch fan, which shall activate at a pre-determined temperature range.

Recirculation shields shall be installed to ensure that air which has passed through the radiator is not drawn through it again.

192. SILICONE HEATER AND COOLANT HOSE SECTION 2.54

QTY: 1

All coolant piping shall be constructed of appropriate sized, powder coated, steel tubing with 0.06 wall thickness and formed hose barbs. All connections between coolant pipes and chassis components shall be made using appropriately sized silicone hoses or elbows, rated for use in temperatures ranging from -60F to +350F. The connections will use appropriately sized, constant torque, hose clamps.

These connections shall be minimal in number to reduce the number potential leak points and shall adequately allow for movement of the engine relative to chassis mounted components.

All integral hoses supplied with the engine shall be as supplied by the engine manufacturer.

Silicone heater hoses shall be furnished for the heater system within the interior structure of the cab. All heater hoses shall be equipped with constant torque type hose clamps. All integral hoses supplied with the engine shall be as supplied by the engine manufacturer.

A complete list of coolant hoses and filter manufactures along with part numbers will be provided at time of apparatus delivery.

193. HEATER AND COOLANT SHUT OFF VALVE

QTY: 1

A mechanical shut off valve shall be installed on the engine to shut down the flow of coolant to the cab heating system.

194. LOW COOLANT LIGHT SECTION 2.187

QTY: 1

A low engine coolant indicator light located in the dash instrument panel shall be provided. An audible alarm shall be provided to warn of the low coolant condition.

195. ALLISON 4500EVS, WIDE RATIO TRANSMISSION - COMPRESSION BRAKE SECTION 2.62, 2.64

QTY: 1

An Allison World Transmission, Model 4500EVS (Wide Ratio), electronically controlled, automatic transmission shall be provided.

Transmission specifications shall be as follows:

- Max. Gross Input Power 600 HP
- Max. Gross Input Torque 1770 lb. ft.
- Input Speed (Range) 1700- 2300 RPM
- Direct Gear (Pumping) 4th (Lock-up)

Transmission installation shall be in accordance with the transmission manufacturer's specification.

The transmission shall be readily and easily removable for repairs or replacement.

One (1) PTO opening shall be provided on both the left and right side of the converter housing (positions one (1) o'clock and eight (8) o'clock).

196. SIX (6) SPEED AUTOMATIC TRANSMISSION - 4500 SERIES SECTION 2.62

QTY: 1

The transmission shall be calibrated for six (6) forward gears and one (1) reverse gear.

Each gear shall have the following ratios:

- First 4.70:1
- Second 2.21:1
- Third 1.53:1
- Fourth 1.00:1
- Fifth 0.76:1
- Sixth 0.67:1
- Reverse -5.55:1

KME will provide a performance scan showing performance using different gear ratios.

197. ALLISON TRANSMISSIONS, ELECTRONIC TOUCH PAD SHIFTER IN CAB SECTION 2.66

QTY: 1

An illuminated, touch-pad type, shift control shall be mounted in the cab, convenient to the driver.

Shift control shall be approved by the transmission manufacturer.

198. MODE BUTTON PROGRAMMED 4TH START-UP/ 5TH-6TH MODE SECTION 2.63

QTY: 1

The transmission, upon startup, shall select four (4) speed operation. By pressing the "mode" switch on the shift pad (mode on) provides access to the remaining forward gears in the transmission.

199. TRANSMISSION OIL LEVEL SENSOR SECTION 2.62

QTY: 1

The transmission shall be equipped with the oil level sensor (OLS); this sensor shall allow the operator to obtain an indication of the fluid level from the shift selector.

The sensor display shall provide the following checks, correct fluid level, low fluid level and high fluid level.

200. ALLISON PARK TO NEUTRAL

Attachment: FPARC-07057-002-0524 KME 101' TDA FINAL Quote [Revision 1] (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER

QTY: 1

The transmission, upon application of the parking brake, shall automatically shift into neutral.

201. ALLISON PRESELECT PROGRAMMING SECTION 2.67

QTY: 1

The transmission shall have Allison Pre select enabled to automatically downshift when the secondary engine brake is active.

202. PRESELECT PROGRAMMED FOR 2ND GEAR

QTY: 1

The transmission shall be programmed at the factory to automatically downshift to 2nd gear.

This feature shall be enabled/disabled with the main on/off switch for the engine brake.

203. TES 295 SYNTHETIC TRANS FLUID 4000 EVS SECTION 2.62

QTY: 1

TES 295 transmission fluid shall be utilized to fill the 4000 EVS transmission.

204. DRIVE LINES DANA-SPICER #1810 SERIES SECTION 2.74

QTY: 1

Drive lines shall be Dana (Spicer) 1810 heavy duty series or equal, with "glide coat" splines on all slip shafts.

The manufacturer shall utilize an electronic type balancing machine to statically and dynamically balance all drive shafts.

The manufacturer shall provide proof of compliance with all drive shaft manufacturer's standards and specifications. {No Exceptions}

Where applicable, the universal joints shall be the half loop style joints.

205. DIESEL EXHAUST FLUID LEVEL GAUGE SECTION 2.187

QTY: 1

Diesel Exhaust Fluid level (E-1/2-F); low fuel level warning @ 1/8 tank

206. 10 GALLON DEF TANK SECTION 2.58

QTY: 1

A ten (10) gallon diesel exhaust fluid (DEF) tank shall be provided and installed. The tank shall be mounted in the area of the battery box and shall be accessible through a door in the crew area step well.

207. EXHAUST SYSTEM - DPF & SCR SYSTEM - INLINE SYSTEM SECTION 2.57

QTY: 1

The exhaust system shall be installed in accordance with the engine manufacturer's requirements and meet all Environmental Protection Agency and State noise level requirements.

Exhaust system components shall be securely mounted and easily removable.

The diesel particulate filter/muffler shall be fabricated from stainless steel and of a size compatible with the engine exhaust discharge.

Exhaust tubing shall be a minimum of 16 gauge stainless steel from the turbocharger on the engine to the inlet of the diesel particulate filter.

Any flexible exhaust tubing shall be HDT stainless steel type.

To minimize heat build-up, exhaust tubing within the engine compartment shall be wrapped with an insulating material.

Exhaust shall be wrapped from the turbocharger to the entrance of the muffler.

Material shall be held in place with worm gear type clamps.

An exhaust diffuser shall be provided to reduce the temperature of the exhaust as it exits the tailpipe.

If the electrical system is hardwired or V-Mux multiplex, separate "regeneration" enable and prohibit switches shall be provided under the dash board on the driver's side.

Each switch shall be provided with a spring loaded protective cover and shall be clearly marked as to function.

If the electrical system is class-1 es-key, the regeneration switches shall be incorporated into the ultra-view screen.

The vehicle shall be equipped with SCR technology that uses a urea based diesel exhaust fluid (DEF) and a catalytic converter to significantly reduce oxides of nitrogen (NOx) emissions.

The SCR system shall reduce levels of NOx (oxides of nitrogen emitted from engines) by injecting small quantities of diesel exhaust fluid (DEF) into the exhaust upstream of a catalyst, where it vaporizes and decomposes to form ammonia and carbon dioxide.

The ammonia (NH₃), in conjunction to the SCR catalyst, converts the NOx to harmless nitrogen (N₂) and water (H₂O).

208. ALUMINIZED STEEL EXHAUST TAILPIPE/OUTLET OS – DPF SECTION 2.57

QTY: 1

The exhaust tailpipe extending from the SCR catalyst to the side of the vehicle shall be constructed from 16-gauge aluminized steel tubing.

The exhaust discharge shall be on the officer side of the apparatus forward of the rear axle.

209. PLYMOVENT EXHAUST EXTRACTION SYSTEM TAILPIPE ADAPTER SECTION 2.57

QTY: 1

The exhaust outlet shall be a straight pipe, forward of the rear axle. It shall be terminating minimum 6" forward of rear tire, minimum 2.5" below rub rail/body, and flush with outboard of rub rail/body to connect with a Plymovent, ventilation system.

210. FUEL TANK - 70 GALLON, STEEL SECTION 2.81, 2.82

QTY: 1

Fuel tank shall be a minimum of seventy (70) gallon capacity. It shall have a minimum, fuel filler neck of 2" ID and 1/4 turn fill cap. A 1/2" minimum diameter drain plug shall be provided. The tank shall be fabricated from hot rolled, pickled and oiled steel. Provisions for an additional feed line and fuel level float shall be provided for future use. The fuel tank shall be installed behind the rear wheels between the frame rails. The fuel tank shall meet all FHWA 393.67 requirements including a fill capacity of 95% of tank volume. The fuel tank shall be able to withstand a longitudinal acceleration of -23.0g at 0.166 seconds in accordance to SAE J211 standards using a channel frequency class 600 filter. Testing shall be performed at and verified by a third party testing and evaluation center.

211. STAINLESS STEEL FUEL TANK STRAPS SECTION 2.83

QTY: 1

The straps supporting the diesel fuel tank shall be made of Type 304L stainless steel with grade 8, zinc coated steel hardware.

There will be no exceptions.

212. FUEL TANK MOUNTING STRAP ISOLATION MATERIAL

QTY: 1

The fuel tank mounting straps shall utilize dense rubber between the straps and the fuel tank to prevent chaffing.

213. FUEL LINES - FIBER REINFORCED HOSE SECTION 2.78

QTY: 1

Fuel lines shall be an Aeroquip FC332 AQP Series fiber reinforced hose. The lines shall be sized to meet engine manufacture's requirements, and shall be carefully routed and secured along the inside of the frame rails.

214. DUAL FUEL LINE SHUT-OFF VALVES

QTY: 1

A fuel line shut-off valve shall be provided on both the inlet and outlet side of the primary fuel filter to allow for easy removal of the filter.

The valves shall be labeled "Fuel Shut-Off".

No reserve feature shall be included in the tank.

215. FUEL TANK SERVICEABILITY PROVISIONS SECTION 2.85

QTY: 1

An additional eight feet of fuel line shall be provided.

The line shall be coiled and secured above the fuel tank to improve serviceability of the tank.

Clarification; The 4' of additional fuel hose will be provided and coiled on top of the fuel tank in order that in the event that the tank needs to be serviced or removed, preventing the removal of the fuel hose.

216. FUEL COOLER SECTION 2.80

QTY: 1

A fuel cooling system {will/shall} be provided. The heat exchanger {will/shall} be a tube and fin type and {will/shall} be a separate unit. The cooler {will/shall} be mounted forward of the radiator and plumbed to the fuel return line.

217. RACOR S328 SERIES HEATED FUEL-WATER SEPARATOR WITH ALARM SECTION 2.77

QTY: 1

A Racor S328 series, heated, fuel filter/water separator shall be provided in the fuel system. A "water in fuel" indicator shall be provided on the dash.

218. FUEL POCKETS, LEFT & RIGHT SIDE REAR WHEEL WELL PANEL SECTION 2.84

QTY: 1

A fuel fill shall be provided in the left and right side rear wheel well area.

A Cast Products heavy duty cast aluminum spring loaded hinged fill door shall be provided.

A label indicating "Ultra Low Sulfur Diesel Fuel Only" shall be provided adjacent to the fuel fills.

219. CUSTOM CHASSIS ELECTRICAL SYSTEM SECTION 2.28, 2.29

QTY: 1

All electrical wiring in the chassis shall be GXL cross link insulated type. Wiring is to be color coded and include function codes every three (3) inches on both sides. Wiring harnesses shall be routed in protective, heat resistant loom, securely and neatly installed. Two (2) power distribution centers shall be provided in central locations for greater accessibility. The power distribution centers shall contain thermal automatic reset breakers, power control relays, flashers, diode modules, daytime driving light module, and engine and transmission data links. All breakers and relays shall have a capacity substantially greater than the expected load on the related circuit, thus ensuring long component life. Power distribution centers shall be composed of a system of interlocking plastic modules for ease in custom construction.

The power distribution centers are function oriented. The first is to control major truck function. The second shall control center to overhead switching and interior operations. Each module is single function coded and labeled to aid in troubleshooting. The centers will also have accessory breakers and relays for future installations. All harnesses and power distribution centers shall be electrically tested prior to installation to ensure the highest system reliability.

All external harness interfaces shall be of a triple seal type connection to ensure a proper connection. The cab/chassis and the chassis/body connection points shall be mounted in accessible locations. Complete chassis wiring schematics shall be supplied with the apparatus.

220. CUSTOM CHASSIS WIRING INSTALLATION SECTION 2.28

QTY: 1

The wiring harness contained on the chassis shall be designed to utilize wires of stranded copper or copper alloy of a gauge rated to carry 125% of maximum current for which the circuit is protected without exceeding 10% voltage drop across the circuit. Wiring shall be uniquely identified by color code or circuit function code, labeled at a minimum of every three (3) inches. The identification of the wiring shall be referenced on a wiring diagram. All wires conform to SAEJ1127 (Battery Cable), SAEJ1128 (Low Tension Primary Cable), SAEJ1560 (Low Tension Thin Wall Primary Cable).

The covering of harnesses shall be moisture resistant loom with a minimum rating of 289° Fahrenheit and a flammability rating of VW-1 as defined in UL62. The covering of jacketed cable shall have a minimum rating of 289° Fahrenheit.

All circuits shall conform to SAEJ2202. All circuits must be provided with low voltage over current protective devices.

All exposed electrical connections will be coated with "Z-Guard" to prevent corrosion.

221. DIRECT BATTERY GROUNDING STRAP - PREDATOR

QTY: 1

Direct grounding straps shall be mounted to the following areas; frame to cab, frame to body and frame to pump enclosure.

All exposed electrical connections shall be coated with "Z-Guard 8000" to prevent corrosion.

222. EMI/RFI PROTECTION SECTION 2.28

QTY: 1

The apparatus shall incorporate the latest designs in the electrical system with state of the art components to insure that radiated and conducted electromagnetic interference (EMI) and radio frequency interference (RFI) emissions are suppressed at the source.

EMI/RFI susceptibility is controlled by utilizing components that are fully protected and wiring that utilizes shielding and loop back grounds where required. The apparatus shall be bonded through wire braided ground straps. Relays and solenoids that are suspect to generating spurious electromagnetic radiation are diode protected to prevent transient voltage spikes.

In order to fully prevent the radio frequency interference the purchaser may be requested to provide a listing of the type, power output, and frequencies of all radio and bio medical equipment that is proposed to be used on the apparatus.

223. PREDATOR 12 VOLT ELECTRICAL SYSTEM TESTING SECTION 2.28, 4.21

QTY: 1

The apparatus low voltage electrical system shall be tested and certified by the manufacturer. The certification shall be provided with the apparatus. All tests shall be performed with air temperature between 0°F and 100°F.

The following three (3) tests shall be performed in order. Before each test, the batteries shall be fully charged.

TEST #1-RESERVE CAPACITY TEST

The engine shall be started and kept running until the engine and engine compartment temperatures are stabilized at normal operating temperatures and the battery system is fully charged. The engine shall be shut off and the minimum continuous electrical load shall be activated for 10 minutes. All electrical loads shall be turned off prior to attempting to restart the engine. The battery system shall then be capable of restarting the engine. Failure to restart the engine shall be considered a test failure.

TEST #2-ALTERNATOR PERFORMANCE TEST AT IDLE

The minimum continuous electrical load shall be activated with the engine running at idle speed. The engine temperature shall be stabilized at normal operating temperature. The battery system shall be tested to detect the presence of battery discharge current. The detection of battery discharge current shall be considered a test failure.

TEST #3-ALTERNATOR PERFORMANCE TEST AT FULL LOAD

The total continuous electrical load shall be activated with the engine running up to the engine manufacturers governed speed. The test duration shall be a minimum of 2 hours. Activation of the load management system shall be permitted during this test. However, an alarm sounded due to excessive battery discharge, as detected by the system, or a system voltage of less than 11.7 volts DC for a 12 volt system, for more than 120 seconds, shall be considered a test failure.

Following completion of the preceding tests, the engine shall be shut off. The total continuous electrical load shall be activated and shall continue to be applied until the excessive battery discharge alarm is activated.

The battery voltage shall be measured at the battery terminals. With the load still applied, a reading of less than 11.7 volts shall be considered a test failure. The battery system shall then be able to restart the engine.

At time of delivery, documentation shall be provided with the following information:

Documentation of the electrical system performance test

A written load analysis of the following:

- Nameplate rating of the alternator
- Alternator rating at idle while meeting the minimum continuous electrical load
- Each component load comprising the minimum continuous electrical load.
- Additional loads that, when added to the minimum continuous load, determine the total connected load.

- Each individual intermittent load.

224. SEQUENCER SECTION 4.18

QTY: 1

A sequencer shall be provided that automatically activates and deactivates vehicle loads in a preset sequence thereby protecting the alternator from power surges. This sequencer operation shall allow a gradual increase or decrease in alternator output, rather than loading or dumping the entire 12 volt load to prolong the life of the alternator.

Emergency light sequencing shall operate in conjunction with the emergency master light switch. When the emergency master switch is activated, the emergency lights shall be activated one by one at half second intervals. Sequenced emergency light switch indicators shall flash while waiting for activation.

When the emergency master switch is deactivated, the sequencer shall deactivate the warning light loads in the reverse order.

Rear of cab Air-Conditioning and Heat shall be load managed.

225. VINYL SCHEMATICS ON ELECTRICAL ACCESS PANEL SECTION 1.8

QTY: 1

An electrical schematic shall be printed on vinyl material and applied to the underside of the cab center dash access panel and inside the body junction compartment access panel.

226. PUMPER BODY ELECTRICAL SYSTEM SECTION 2.28, 2.29

QTY: 1

All electrical lines in the body shall be protected by automatic circuit breakers, conveniently located to permit ease of service.

Flashers, heavy solenoids and other major electrical controls shall be located in a central area near the circuit breakers.

All lines shall be color and function coded every 3", easy to identify, oversized for the intended loads and installed in accordance with a detailed diagram.

A complete wiring diagram shall be supplied with the apparatus.

Wiring shall be carefully protected from weather elements and snagging.

Heavy duty loom shall be used for the entire length.

Grommets shall be utilized where wiring passes through panels.

In order to minimize the risk of heat damage, wires run in the engine compartment area shall be carefully installed and suitably protected by the installation of heat resistant shielded loom.

All electrical equipment shall be installed to conform to the latest federal standards as outlined in NFPA 1901.

227. 12 VOLT ELECTRICAL SYSTEM TESTING - ALL UNITS SECTION 4.21

QTY: 1

The apparatus low voltage electrical system shall be tested and certified by the manufacturer. The certification shall be provided with the apparatus. All tests shall be performed with the air temperature between 0°F and 100°F.

The following three (3) tests shall be performed in order. Before each test, the batteries shall be fully charged.

The engine shall be started and kept running until the engine and engine compartment temperatures are stabilized at normal operating temperatures and the battery system is fully charged. The engine shall be shut off and the minimum continuous electrical load shall be activated for 10 minutes. All electrical loads shall be turned off prior to attempting to restart the engine. The battery system shall then be capable of restarting the engine. Failure to restart the engine shall be considered a test failure.

The minimum continuous electrical load shall be activated with the engine running at idle speed. The engine temperature shall be stabilized at normal operating temperature. The battery system shall be tested to detect the presence of battery discharge current. The detection of battery discharge current shall be considered a test failure.

The total continuous electrical load shall be activated with the engine running up to the engine manufacturers governed speed. The test duration shall be a minimum of 2 hours. Activation of the load management system shall be permitted during this test. However, an alarm sounded due to excessive battery discharge, as detected by the system, or a system voltage of fewer than 11.7 volts DC for a 12-volt system, for more than 120 seconds, shall be considered a test failure.

Following completion of the preceding tests, the engine shall be shut off. The total continuous electrical load shall be activated and shall continue to be applied until the excessive battery discharge alarm is activated.

The battery voltage shall be measured at the battery terminals. With the load still applied, a reading of fewer than 11.7 volts shall be considered a test failure. The battery system shall then be able to restart the engine.

At the time of delivery, documentation shall be provided with the following information:

- Documentation of the electrical system performance test
- A written load analysis of the following;
 - Nameplate rating of the alternator
 - Alternator rating at idle while meeting the minimum continuous electrical load
 - Each component load comprising the minimum continuous electrical load.
 - Additional loads that, when added to the minimum continuous load, determine the total connected load.
 - Each individual intermittent load.

228. WELDON V-MUX MULTI-PLEXED ELECTRICAL SYSTEM SECTION 4.18

QTY: 1

A Weldon style V-MUX Multiplex System shall be provided. The V-MUX shall provide an on-board diagnostics and status, increase reliability and durability, minimize downtime, supply reverse polarity protection and dramatically simplify troubleshooting and repairs for the vehicle. It shall provide short and open circuit detection and notification, on board service information and reduce splices by 80-90%. Each node shall enable discrete load shedding, sequencing, diagnostics and PWM control. All V-MUX hardware shall be rated for -40° to +85° C. A series of Multiplexing Input/output Modules shall be installed. The Input/output modules shall permit the multiplexing system to reduce the amount of wiring and components used as compared to non-multiplexed apparatus. These modules shall vary in I/O configuration, be waterproof allowing installation outside of enclosed areas and shall possess individual output internal circuit protection. The modules shall also have three status indicators visible from a service persons vantage point that shall indicate the status of the module. In the event a load requires more than 7.5 AMPS of operating current, the module shall activate a simple relay circuit integral to any of the 3 pillbox assemblies installed in the cab. V-MUX integration shall be available for: System Voltage Meter Ammeter Emergency Flasher Headlamp Flasher Load Management Load Sequencer Back-Up

Monitor Relays Circuit Breakers Door "Open" System Interlock Modules Engine Monitor Devices Separate Interlock Control Special Waterproof Enclosures.

229. WELDON V-MUX DISPLAY - VISTA IV - TOUCH WITH BUTTONS SECTION 4.18

QTY: 1

The Vista IV, touch screen display node with external buttons shall include the following custom programmed features:

- Outside temperature display.
- A real time clock with display.
- Four (4) programmable video inputs.
- A useable temperature range from -40 degrees to 185 degrees F.
- Eight (8) factory programmed virtual switches
- Seven (7) preset navigation switches
- Selectable font sizes, types, and colors for optimum user efficiency.
- Selectable color buttons and screen backgrounds.

230. ADDITIONAL WELDON V-MUX VISTA IV TOUCH DISPLAY, OS OF CAB SECTION 4.18

QTY: 1

An additional Weldon V-Mux Vista IV touch screen display shall be recessed mounted on the officer side of the cab.

The second display shall have the ability to perform and display all the same functions and information of the main display located on the driver side of the cab.

QTY: 1

The Officers side V-Mux screen will be mounted in the area directly forward of the officer's seat. A fabricated box will be provided and mounted to the dash in this area. The Officers side dash wing panel will remain open as this area will be utilized by the customer for mounting the MDC and keyboard.

231. AXIS SMART TRUCK VEHICLE MONITORING SYSTEM

QTY: 1

The apparatus shall be equipped with a smart truck technology system designed specifically for first responder apparatus. The system shall interconnect major apparatus CAN networks including but not limited to the chassis J1939/OBD2 data, vehicle multiplex system, water pump pressure governor, electric valves and electric actuated deck gun. The system shall securely report real-time vehicle information from these systems via cellular data to a globally supported cloud computing service for storage and real time access via web dashboards. The dashboards shall be accessible by the department's computers, tablets and smartphones.

The smart truck technology installed on the apparatus shall provide real-time notification via text or e-mail when a check engine light is displayed. The notification shall include the fault code and brief explanation for the code to reduce down-time.

The system shall feature a truck down feature on the web-based user interface to allow instant notification of needed apparatus service to both the authorized dealership and OEM via text or e-mail.

The system shall provide remote diagnostics of vehicle subsystems such as VMUX, pressure governors, electric monitors and electric valves.

By use of the web based user interface, the system shall allow for over the air programming updates to various subsystems should the need arise.

The web-based user interface shall also provide the following:

- Fuel and DEF levels
- GPS tracking
- Data logging for apparatus multiplex system
- Easy access to the NFPA VDR data

The smart truck technology shall also feature seamless integration to the HAAS ALERT Safety Cloud providing Responder to Vehicle (R2V) alerts to motorists using navigation apps such as WAZE.

The system shall be designed with an open architecture to incorporate future growth with new technology partners designed to enhance fire ground operations

VEHICLE GATEWAY

The vehicle gateway module shall be rugged in construction using a durable cast aluminum enclosure designed for emergency vehicle applications. The module shall have sealed Deutsch connectors providing four (4) CAN network ports, one (1) RS-485 port, one (1) Ethernet RJ45 port, one (1) USB port, embedded cellular modem, Bluetooth and GPS capability. The Core Vehicle Gateway shall be capable of 2 way vehicle telemetry, supporting both remote diagnostics and remote over-the-air software updates.

ANTENNA

A low profile cellular antennae shall be installed on the cab roof.

DATA PLAN

A 5 year data plan shall be provided with the initial vehicle purchase. At the end of the 5 year period the department shall be given the option to extend service.

232. INTER-LOCK MODULE FOR MULTIPLEX SYSTEM SECTION 4.18

QTY: 1

A Vocation Module, which is the interface between the multiplexing system and the pump system shall be provided.

This module shall serve as the interface between the operator, engine, transmission and pumping system.

The module shall be installed under the driver's side dash, in a sealed enclosure that shall possess green indicating LEDs that shall indicate to service personnel the interlock state of the apparatus.

In the event of a multiplexing error involving pump operation can be activated to ensure reliable pumping operations at ALL times.

In addition to controlling pump function, this vocation module shall be able to provide automatic and/or manual activation of engine "Fast Idle", to maintain adequate alternator output and thus, chassis voltage.

There will be no exceptions.

233. AUTOMATIC FAST IDLE OPTION FOR WELDON VMUX ELECT MANAGER SECTION 4.18

QTY: 1

This feature automatically increases engine rpm and the available alternator output current. Chassis voltage is monitored at all times by the Weldon system and when it drops to or below 12.8VDC for more than 10 seconds, the hi-idle output of the Weldon system is activated. As long as the proper interlocks are

present; transmission in NEUTRAL, park brake SET, and additional drive line assessors (Pump & PTO's) are NOT engaged; the engine rpm's shall increase to a specified set point. At any time, the Weldon system's hi-idle command can be canceled by a loss of any of the specified required interlocks. The Weldon system's automatic hi-idle command shall remain active until the chassis voltage rises above 12.8VDC and remains there for 3 minutes.

When the hi-idle command is requested by the Weldon system due to the lower chassis voltage described, the Weldon dashboard display shall read "Auto Hi-Idle" to clearly indicate to the apparatus operator that the engine is at a, or shall go to, a hi-idle state. When all interlocks are preset and the engine is at a hi-idle state, the red "FAST IDLE" indicator in the dashboard shall illuminate.

234. MULTIPLEX SCREEN LOCATION - CENTER DASH EXTENSION DRIVER SIDE

QTY: 1

235. DELCO REMY 55SI, 430 AMP BRUSHLESS ALTERNATOR SECTION 4.6

QTY: 1

There shall be a Delco Remy Model 55SI, 430 amp brushless, serpentine belt, driven alternator.

The brushless design of the 55SI transfers magnetic fields between the rotor and stator air-gap without brushes.

The alternator installation shall be designed to provide maximum output at engine idle speed, by using Remote Sense in order to meet the minimum continuous electrical load of the apparatus as required.

The alternator shall carry a 3 Year/Unlimited Mile warranty.

236. BATTERIES - SIX (6) HARRIS GROUP 31, 925CCA -31XHD SECTION 4.1

QTY: 1

Six (6) Harris # C31S-HD, sealed maintenance free batteries {will/shall} be provided. Each battery {will/shall} be rated at 1000 CCA @ 0-degrees and 1250 CA @ 32-degrees F. and {will/shall} have a reserve capacity of 200 minutes.

These batteries {will/shall} be supplied as they are the Fire Department's standard.

Wiring for the batteries {will/shall} be 4/0 welding type dual path starting cables for SAEJ541.

237. PREDATOR BATTERY STORAGE, STEEL, MFD, XMFD, LFD, XLFD SECTION 4.2

QTY: 1

Batteries shall be securely mounted in fixed 3/16" GR50 steel trays located on each side of the chassis frame.

Complete access shall be provided when the cab is fully tilted.

Batteries shall be mounted on non-corrosive matting material.

The battery tray shall be able to withstand a longitudinal acceleration of -46.5g at 0.246 seconds in accordance to SAE J211 standards using a channel frequency class 600 filter.

Testing shall be performed at and verified by a third party testing and evaluation center.

238. BATTERY BOX COVER SECTION 4.3

QTY: 1

The battery box shall be overlaid with an "L" shaped, and will be fabricated from non-skid aluminum tread-plate. This cover shall protect the batteries from road spray, snow and road debris. The cover of this box shall be easily removable for inspection, testing and maintenance of the batteries.

239. COLE HERSEE BATTERY JUMPER STUDS, DS SIDE CAB STEP

QTY: 1

A set of Cole Hersee battery jumper studs, model #46210-02 (red) and #46210-03 (black) shall be provided to allow the battery system to be jump started or charged from an external source.

The studs shall be located on the back wall of the drivers step well.

Each stud shall be equipped with both a rubber protector cap and a 2" square non-conductive plate to prevent accidental shorting.

240. 120 VOLT 20 AMP SURE EJECT FOR BATT CHARGER – CUSTOM SECTION 4.9

QTY: 1

One (1) Blue Sea Sure Eject 120 volt, 20 amp shoreline disconnect shall be provided for the on board, 110 volt battery charging systems.

The disconnect shall be equipped with a NEMA 5-20 P male receptacle, which shall automatically eject the shoreline when the vehicle starter is energized.

The mating connector shall be included with the auto eject and shall be provided as loose equipment. A label shall be provided indicating voltage and amperage ratings.

241. AUXILIARY 120 VOLT 20 AMP SURE EJECT FOR AUX AC SECTION 4.9

QTY: 1

One (1) Blue Sea Sure Eject 120 volt, 20 amp shoreline disconnect shall be provided for the auxilliary air conditioning unit only. The disconnect shall be equipped with a NEMA 5-20 P male receptacle, which shall automatically eject the shoreline when the vehicle starter is energized. The mating connector shall be included with the auto eject and shall be provided as loose equipment. A label shall be provided indicating voltage and amperage ratings. This shoreline will only power the supplementary air conditioning unit. The auto eject will have a blue cover.

242. SHORELINE RECEPTACLE LABEL – NFPA SECTION 4.9

QTY: 1

A shoreline power receptacle information plate shall be permanently affixed at or near the power inlet. The plate shall indicate the following:

Type of Line Voltage
Current Rating in Amps Power Inlet Type (DC or AC).

243. BLUE SEA SURE EJECT COVER (RED)

QTY: 1

The Blue Sea Sure Ejects shall be equipped with weatherproof covers.

A Red Cover will be provided for the Sure Eject designated for charging the electrical system and batteries.

A Blue Cover will be provided for the Sure Eject designated for the auxiliary AC system.

244. SHORELINE LOCATION - ADJACENT TO DRIVER'S DOOR

QTY: 1

The shoreline receptacle shall be located in the area directly adjacent to the driver's side cab door in a pre-determined location by KME.

245. BLUE SEA MODEL 7532 BATTERY CHARGER, 12VDC/40 AMP SECTION 4.7, 4.8

QTY: 1

A Blue Sea model #7532 12VDC, 40 AMP battery charger shall be provided and installed for maintaining the vehicle battery system.

A Blue Sea model #7517 battery charger display shall be located near the shoreline connection to monitor the battery status.

The Blue Sea compressor will be powered by shore power only.

246. 120V AUTOMATIC TRANSFER SWITCH

QTY: 1

An automatic power relay shall be installed to allow interior 120 volt accessories to be powered by the 120 volt shoreline or the generator.

The interior accessories to be powered by the shoreline shall be wired through a separate sub-panel breaker box.

This shall allow for a continuous power supply to the interior accessories while the apparatus is parked in the station.

The maximum load for the transfer / relay shall be 20 amps at 120 volts.

247. INSTRUMENT PANEL, 100" PREDATOR - WIDE ABS SECTION 2.148

QTY: 1

The main instrument panel shall be centered in front of the driver and shall be mechanically fastened to the main dash assembly.

The panel shall contain the primary gauges, an instrument warning light cluster and the ignition and engine start switches.

Each gauge shall be designed with an integral red warning light with a pre-programmed warning point.

Gauges monitoring drive-train component status shall be of the direct data bus type capable of displaying information broadcast on the J 1939 data-link.

Each gauge warning indicator shall be capable of activating an audible alarm inside the dashboard.

Additional auxiliary control switches and instruments (if applicable) shall be located within the center or overhead panel located near the driver's position.

The primary gauges shall consist of:

- Vehicle speedometer (0-80 mph)
- Engine tachometer (0-3000 rpm)
- Engine oil pressure (0-100 psi); low oil pressure warning
- Engine coolant temperature (100-250 °F); high engine temp warning (based on engine)
- Transmission oil temperature (100-350 °F); high transmission fluid temp warning
- Vehicle battery voltage (9-18 VDC); low voltage warning at 11.8 amps
- Front air system gauge (0-150 psi); low air pressure warning at 65 psi
- Rear air system gauge (0-150 psi); low air pressure warning at 65 psi
- Fuel level (E-1/2-F); low fuel level warning @ 1/8 tank
- Air cleaner restriction gauge (0 - 40), warning at 25" restriction.

248. AMETEK "OFFICER'S SPEEDOMETER" SECTION 2.190

QTY: 1

Ametek "Officer's Speedometer" will be displayed within the officer side Vista Screen.

249. INDICATOR CLUSTER, 100" PREDATOR SECTION 2.187

QTY: 1

The driver's dashboard panel shall consist of Ametek gauges, an 18 item instrument warning light cluster and a 16 item, dead front type alarm panel.

This display shall contain the system control unit that collects data from the vehicle data bus (J1939), analog sensors, and switches throughout the vehicle.

This data shall be presented using gauges, telltales and the two (2) display panels.

The warning light display shall include a 2 x 20 dot matrix display, 18 telltales and 2 buttons to navigate through the screen menus.

The LCD dot matrix display shall be a 2 line by 20-character display with each character being 7 dot by 5 dot configuration.

FSTN technology shall be used on the display for wide viewing capability.

The module shall be backlit with amber LEDs.

The unit shall also be supplied with a heater to ensure proper operation over the entire 40 to +85 deg. C.

This display contains a series of two (2) screens to provide information about the vehicle.

To control the display of that information, the screens are divided into two (2) menus; one that can be displayed while the vehicle is in motion and one that can only be accessed when the parking brake is set.

On the Road displays include:

- Two (2) configurable displays that can show any of the parameters the unit collects. This includes odometer, trip information, fuel economy information; all gauge data, and virtually any other data available on the vehicle that the display has access to, either through the data bus or via analog inputs.
- Two (2) trip displays for miles and hours that are capable of being reset.
- Two (2) fuel data screens: shall be provided; one for fuel remaining until empty and one for fuel economy. The fuel economy display shall be capable of being reset so that average economy over a predetermined period can be displayed.

The displays that can be accessed when the parking brake is set include:

- Engine hours as maintained by the engine ECU
- Service Alarm screens to report miles to next service or miles past required service. These screens shall allow the operator to choose the length of the service interval and shall have the ability to reset it.
- Message screens with warning messages the display has collected during the current ignition cycle. These screens shall be divided into configured warnings such as "Low Air Pressure" and the data bus faults reported by ECU's on the vehicle. Both lists shall allow the operator to review the last 12 events that occurred on the vehicle for maintenance and troubleshooting purposes.
- Diagnostic screens shall test the instrumentation system to verify it is working correctly.
- Setup screens shall be used to select either English or metric display. They shall also allow the operator to choose the data that shall be displayed by the configurable on-the-road screens.

The system shall be configured with user defined warning messages such as Low Air Pressure or High Coolant Temperature. When these events occur the warning message shall come up on the screen and can be accompanied by a buzzer. The messages shall be prioritized so the most important messages are always displayed. Whether the message can be dismissed by pressing a button shall be configurable. Messages that have been dismissed but are still active shall be retained in the message screens for review until the ignition is turned off. Listed below are the defined telltales and their indicators.

- "Right And Left Directional" arrows (green in color)
- "Hi Beam" indicator (blue in color)
- "Battery ON" indicator (green in color)
- "Parking Brake ON" indicator (red in color)
- "Check Transmission" indicator (amber in color)
- "Cab Not Latched" indicator (red in color)
- "Stop Engine" indicator (red in color)
- "Check Engine" indicator (amber in color)
- "ABS Warning" indicator (red in color)
- "Low Coolant Level" (red in color)
- "Fuel Restriction" indicator (amber in color)
- "Water In Fuel" indicator (amber in color)
- "Fasten Seat Belts" indicator (red in color)
- "Fast Idle" Indicator (amber in color)
- "Do Not Move Truck" indicator (red in color)
- "DPF Regeneration" (amber in color)
- "Exhaust High Temperature" (amber in color)
- "Engine Diagnostic Fault" (amber in color)
- "Retarder On" (green in color)

Listed below are indicators that may be included, depending upon the vehicle configuration:

- "Wait To Start" indicator (amber in color)
- "Exhaust System Fault" (amber in color)
- "Topps System Fault" (amber in color)
- "Lube System Active" (amber in color)
- "Jacks Not Stowed" (red in color)
- "PTO Engaged" (green in color)
- "Inter Axle Lock" (amber in color)
- "Driver Controlled Diff Lock" (green in color)
- "Ok to Pump" (green in color)
- "Auto Traction Control" (amber in color)
- "Retarder Active" (amber in color)
- "Auxiliary Brake Active" (amber in color)

250. DRIVER INDICATOR INDICATOR CLUSTER CHROME GAUGES SECTION 2.187

QTY: 1

Each gauge shall have a raised glass lens with polished chrome trim ring and be backlit by integral blue LEDs.

251. AUXILIARY SWITCH PANEL - LOWER DASH AREA SECTION 2.171

QTY: 1

An auxiliary lower dash panel shall be capable of housing five (5) guarded type rocker switches.

Examples of the switches that shall be installed in this area are automatic chains, fan clutch override, ATC, inter-axle diff lock, electric fuel pump, all-wheel drive, etc.

This panel location shall take the pump shift panel location into consideration for optimum location of both.

252. BATTERY DISCONNECT SWITCH, ALL UNITS SECTION 2.186

QTY: 1

The chassis batteries shall be wired in parallel to a single 12 volt electrical system, controlled through a heavy duty master disconnect switch.

The master disconnect switch shall be located within easy access of the driver upon entering or exiting the cab.

253. "POWER ON" LIGHT ON FRONT FACE OF CAB SECTION 2.186

QTY: 1

A 12-volt "Power On" indicator lamp shall be provided and located on the front face of the cab.

The light shall be wired to the master battery switch to indicate that the batteries are on.

254. CAB DASH PANELS WITH CENTER EXTENSION MODULE – PRE LABELED AND BACKLIT SECTION 2.172

QTY: 1

The apparatus cab shall be outfitted with backlit gradient dash and overhead panels. These gradient panels shall be utilized across the entire front of the cab dash and include the instrument cluster and brow panels. The panels shall be constructed from 3mm aluminum composite panels with second surface screen printed 15 mil Bayfol UV-1 polycarbonate graphic overlays, to provide scratch and UV protection. A carbon-graphite shaded graphic overlay shall be provided. All essential control and/or switch verbiage shall be flush with the panel surface and backlit by LED printed circuit board assemblies mounted to the rear of the panels where necessary and powered by a 12V power source.

255. LARSEN RADIO ANTENNA INSTALLED SECTION 4.82

QTY: 1

Two (2) Larsen model NMOKHFUDMPL antennas will be install on the cab roof and routed to the radio compartment with N type RF connectors at termination. The first cable will be labeled 700 MHz and have a Larsen Model NMOQW700 antenna installed on the roof. The second cable will be labeled PSEC. A lighted rocker switch will be provided on the dash labeled PSEC the switch will be hot at all times.

All antennas will mount to the cab roof antenna rail.

256. ENGINE COMPRESSION BRAKE CONTROLS

QTY: 1

Engine brake controls shall be provided on the dash within easy reach of the driver.

257. FAST IDLE ON DASH FOR ALL ELECTRONIC ENGINES SECTION 4.18

QTY: 1

A fast idle for the electronic controlled engine shall be provided.

The engine fast idle switch will be located within the Vista Screen module.

An electronic interlock system shall prevent the fast idle from operating unless the transmission is in "Neutral" and the parking brake is fully engaged.

If the fast idle control is used in conjunction with a specified engine/transmission driven component or accessory, the fast idle control shall be properly interlocked with the engagement of the specified component or accessory.

258. CONTROL SWITCHING THROUGH MULTIPLEX TOU SECTION 4.18

QTY: 1

Switching for the emergency and auxiliary systems shall be performed through the multiplex control screen.

Switching shall be programmed through various menus that are accessible from the display buttons.

259. CONTROL SWITCH IN CAB FOR LIGHT(S) ABOVE WINDSHIELD

QTY: 1

A switch shall be provided in the cab warning light switch console to turn the light(s) above windshield on and off.

260. CONTROL SWITCHES IN CAB FOR BEHIND FRONT CAB DOOR LIGHTS

QTY: 1

Two (2) switches shall be provided in the cab warning, light switch console to turn the lights at the cab doors on and off.

One (1) switch shall control the driver side light and one (1) switch shall control the officer side light.

261. CONTROL SWITCH IN CAB FOR REAR OF BODY LIGHTS

QTY: 1

A switch shall be provided in the cab warning, light switch console to turn the rear of body lights on and off.

262. WELDON #8080-8001-13 WHITE/RED LED INTERIOR LIGHTS (4) SECTION 4.4

QTY: 1

Four (4) Akron 8080-8001-13 interior LED combination red/white dome lights shall be furnished in the cab, with two (2) in the forward section and two (2) in the rear crew section.

Each dome light shall have an integral selector switch.

Each dome light shall also activate when the respective, adjacent cab door is opened.

263. INNER CAB DOOR FLASHERS (LED), TRUCK-LITE MODEL SUPER 44 SECTION 4.47

QTY: 1

One (1) flush mounted, Truck-Lite Model Super 44 LED flashing lights, with integral flashers shall be provided on the inside door panel of each cab door.

The light shall be recessed into the door's lower scuff plate and shall be activated when the respective door is opened.

Each light shall be furnished with a red lens.

264. SUNNEX MODEL #HS762,MAP LIGHT SECTION 4.42

QTY: 1

Sunnex model # HS762-00, 12 volt-20 watt, halogen light designed for direct connection shall be furnished and located one (1) on the driver and officer side overhead. The lights shall have a rectangular base with an on/off rocker switch and feature a swivel joint with 360 degree, axial rotation and 90 degree angular adjustment.

265. ENGINE COMPARTMENT WORK LIGHTS - TECNIQ LED SECTION 4.32

QTY: 1

Two (2) Tecniq model #E18 LED lights shall be provided inside the engine enclosure that will provide 800 lumens each.

Each light shall have their own independent switch incorporated into the light head.

266. EMS COMPARTMENT POWER POINT SECTION 2.162

QTY: 1

The interior EMS compartment shall be equipped with a Blue Sea 5025 power point capable of 60 amps with power and ground connections conveniently positioned in the upper area inside the compartment, connected directly to the chassis batteries.

267. POWER AND GROUND STUD FOR ACCESSORIES IN DASH SECTION 2.32

QTY: 1

One (1) dedicated circuit; 12 volt, 40 Amp, power and ground on 3/8 stud and fused at battery shall be provided in the cab dash.

The circuit shall be for future installation of radios or accessories.

268. 12 VOLT POWER AND GROUND CIRCUIT, EMS COMPARTMENT SECTION 4.83

QTY: 1

A total of three (3) 12-volt power and ground studs will be provided within the EMS compartment, located near the top rear center of the compartment. The studs will be 3/8" and will be fused at the batteries. The studs will be as follows:

- Stud #1, 40-amps, constant hot, battery direct
- Stud #2, 40-amps, switched with mastery battery
- Stud #3, direct ground to negative terminal of chassis batteries

269. BLUE SEA FUSE BLOCK - 12 CIRCUIT IN CREW AREA SECTION 4.83

QTY: 1

A Blue Sea 5026B, 12 circuit fuse block, shall be installed behind the officer's seat.

This block has a maximum amperage of 60 Amps per block and 30 Amps per circuit.

270. MULTI - USE POWER POINT ON CENTER DASH EXTENSION

QTY: 1

A Blue Sea model 4365 accessory panel will be provided. The accessory panel shall include (1) 12-volt power port, (2) dual USB charging ports, along with a circuit breaker switch. The accessory panel will be surface mounted to the rear of the center auxiliary dash panel.

271. IGNITION STUD - REAR CREW AREA

QTY: 1

An ignition stud shall be installed in the rear crew area for items needing an ignition circuit (i.e. mobile radio).

This stud has a maximum amperage of 20 Amps.

272. CUST PUMP/TANK/RES CHASSIS LED MARKER LIGHTS SECTION 4.25

QTY: 1

DOT MARKER LIGHTS AND REFLECTORS

273. OPTRONICS LED MARKER LIGHTS @ FRONT ROOF EDGE OF CAB SECTION 4.26

QTY: 1

Five (5) amber DOT approved, Optronics MCL13 Light Emitting Diode (LED) cab marker lamps shall be mounted on the front upper edge of the cab, above the windshield.

274. CAB STEP LIGHTS, TECNIQ EON 3 LED, ALL DEVICES SECTION 4.30

QTY: 4

Polished, stainless steel, TecNiq Eon, 3-LED, horizontal surface mounted chassis step lights shall be provided and controlled with marker light actuation.

Step lights shall be located to properly illuminate all chassis access steps and walkway areas and shall include a mounting gasket to provide a watertight seal.

275. M6 LED TURN ABOVE HEADLIGHTS W/WHELEN M6 LED SECTION 4.57

QTY: 1

Two (2) Whelen M6* super LED light heads shall be provided, one (1) in each side dual light module, above the headlights, in matching chrome plated bezels.

Each light head shall be equipped with red LEDs and a colored lens.

The lights noted above shall be provided in addition to the NFPA required, minimum optical warning light package and will be activated by the master warning light control. They will be wired through the load management system to prevent excessive amperage draw.

The NFPA required, Zone "A" lower warning lights shall be incorporated into each side dual light module noted above.

Two (2) Whelen M6T arrow shaped, amber LED turn signals shall be provided in chrome plated housings, mounted one (1) each side between the windshield and the dual light modules.

276. M6 LED TURN ABOVE HEADLIGHTS W/WHELEN M6 LED SECTION 4.57

QTY: 1

Two (2) Whelen M6* super LED light heads shall be provided, one (1) in each side dual light module, above the headlights, in matching chrome plated bezels.

Each light head shall be equipped with red LEDs and a clear lens.

The lights noted above shall be provided in addition to the NFPA required, minimum optical warning light package and will be activated by the master warning light control. They will be wired through the load management system to prevent excessive amperage draw.

The NFPA required, Zone "A" lower warning lights shall be incorporated into each side dual light module noted above.

Two (2) Whelen M6T arrow shaped, amber LED turn signals shall be provided in chrome plated housings, mounted one (1) each side between the windshield and the dual light modules.

277. DUAL HEADLIGHTS LED PETERSON SECTION 4.22

QTY: 1

Two (2) dual, Peterson LED headlight modules with a bright finish bezel shall be furnished, one (1) each side, on the front of the cab.

Each head light module shall incorporate an individual LED low beam and a LED high beam headlight.

High beam actuation shall be controlled on the turn signal lever.

278. DAYTIME RUNNING LIGHTS SECTION 4.27

QTY: 1

The chassis head lights shall have integrated circuitry to actuate the low beam headlights at a maximum of 80 percent of capacity whenever the chassis engine is running.

The daytime running lights shall be interlocked with the parking brake.

279. GOLIGHT #20204 REMOTE LED SPOT LIGHT, DS SIDE CAB SECTION 4.62

QTY: 1

A Golight model #20204 remote controlled spotlight shall be provided and mounted on the driver side of the cab roof. The Golight spotlight shall be equipped with a LED light and shall be controlled from the cab. The remote control shall be mounted within easy reach of the driver and officers or as directed by the fire department.

280. GOLIGHT CAB RISER FOR DS SIDE LIGHT SECTION 4.62

QTY: 1

The driver side Golight shall be mounted on an aluminum riser that shall be painted to match the cab color and mounted on the cab roof.

281. GOLIGHT #20204 REMOTE LED SPOT LIGHT, OS SIDE CAB SECTION 4.62

QTY: 1

A Golight model # 20204 LED remote controlled spotlight shall be provided and mounted on the officer side of the cab roof. The Golight spotlight shall be equipped with a LED light and shall be controlled from the cab. The remote control shall be mounted within easy reach of the driver and officers or as directed by the fire department.

282. GOLIGHT CAB RISER FOR OS SIDE LIGHT SECTION 4.62

QTY: 1

The officer side Golight shall be mounted on an aluminum riser that shall be painted to match the cab color and mounted on the cab roof.

283. TECNIQ #E96 LED DOCKING LIGHTS IN REAR WHEELWELL PANELS

QTY: 1

FOUR (4) Tecniq LED docking lights shall be provided in the rear wheel well panels, TWO (2) each side. The lights shall be surface mounted on the wheel well panel and shall be equipped with a stainless steel housing.

Lights will be activated by the turn signal switch on the Tillerman's steering column. Left turn activation will activate the drivers side lights, right turn activation will activate the officers side lights. All four (4) lights will activate when the transmission is placed in reverse. A high beam activation from the Tillerman will also activate all four (4) lights.

284. HIVIZ FIRETECH 80" BROW LIGHT W/ IML, 305W12V LED, (1) ABOVE WINDSHIELD

QTY: 1

One (1) HiViz LEDs "FireTech" Scene light, model FT-B-80-ML-W shall be provided. This light will also incorporate the required 5 amber ICC marker lights. The light instrument shall be low in profile with a mounting bracket allowing installation at the top edge of the windshield. The housing shall be made of an extruded 6061 aluminum; 82.75" wide and less than 3" tall. Additionally, the bar shall meet CISPR25 EMI requirements. The light shall operate on 12v DC, generate 31,680 lumens and draw 26 amps. Mounting shall be possible in any direction while still meeting NFPA 1901 compliance requirements. The housing color shall be White. **Note: Although there are three separate circuits within the HiViz bar, a single switch within the KME cab switch panel will control all three circuits.**

285. NFPA COMPLIANT WARNING LIGHT PACKAGE SECTION 1.4

QTY: 1

The following warning light package shall include all of the minimum warning light and actuation requirements for the current revision of the NFPA 1901 Fire Apparatus Standard.

The lighting as specified shall meet the requirements for both "Clearing Right of Way" and "Blocking Right of Way" which includes disabling all white warning lights when the apparatus is in "Blocking Right of Way" mode.

286. WARNING LIGHT FLASH PATTERN - NFPA FLASH PATTERN SECTION

QTY: 1

All of the perimeter warning lights shall be set to a default NFPA compliant flash pattern as provided by the light manufacturer.

287. LIGHT PACKAGE ACTUATION/CONTROLS SECTION 4.35, 4.41

QTY: 1

The entire warning light package shall be activated through the 'E-Master' button on the cab Vista Screen. The wiring for the warning light package shall engage all of the lights required for "Clearing Right of Way" mode when the vehicle parking brake is not engaged.

An automatic control system shall be provided to switch the warning lights to the "Blocking Right of Way" mode when the vehicle parking brake is engaged.

288. LIGHT PACKAGE NFPA CERTIFICATION SECTION 1.4

QTY: 1

The warning light system(s) specified above shall not exceed a combined total amperage draw of 45 AMPS with all lights activated in either the "Clearing Right of Way" or the "Blocking Right of Way"

The warning light system(s) shall be certified by the light system manufacturer(s), to meet all of the requirements in the current revision of the NFPA 1901 Fire Apparatus Standard as noted in the General Requirements section of these specifications.

The NFPA required "Certificate of Compliance" shall be provided with the completed apparatus.

Any large truck as defined by NFPA shall have the lower zone warning lights mounted no higher than 62" to the optical center of the warning light from ground level. {No Exceptions}

289. LIGHTBAR RISER FOR SCENE LIGHT CLEARANCE

QTY: 1

290. C-UPPER, FEDERAL IVP SLR RED LED BEACONS W/ RED LENS & LOWER LED SECTION 4.64

QTY: 1

Two (2) Federal Signal VSLR1-R1A02 LED beacons shall be furnished and mounted with one (1) on each side at the rear, upper portion of the apparatus.

In addition to the beacons, a IPX6 shall be integrated into the lower portion of the beacon to provide additional warning to meet NFPA.

Each light shall be equipped with the following:

- Red lens with Red LEDs in the rotator
- Clear Lens with Amber LEDs in the IPX6

291. UPPER ZONE C WARNING LIGHT LENS - RED

QTY: 1

The upper zone C warning lights shall include red LEDs and a red lens if available from the manufacturer. If a red lens is unavailable, a clear lens shall be included.

292. UPPER ZONE C WARNING LIGHT BEZEL - CHROME

QTY: 1

The upper zone C warning lights shall include a chrome bezel if available from the manufacturer. If a chrome bezel is unavailable, a black bezel shall be included.

293. B/D-UPPER FRONT, COVERED BY LIGHTS IN ZONE A-UPPER

The lighting requirement for this area is covered by the lights noted in Zone "A" - Upper.

QTY: 1

294. B/D-UPPER REAR, COVERED BY LIGHTS IN ZONE C-UPPER

QTY: 1

The lighting requirement for this area is covered by the lights noted in Zone "C" - Upper.

295. A-UPPER, FEDERAL LED NVG87-NFPA1 NAVIGATOR 87" BAR SECTION 4.44

QTY: 1

A Federal Signal NVG87-NFPA1 "Navigator", 87" LED cab roof warning light bar Part# 1532275834 shall be furnished and rigidly mounted on top of the cab roof. The light bar shall be equipped with the following:

- * Clear Lenses
- * Four (4) QL73 Red LED Modules
- * One (1) QL73 Red LED Module set to Steady Burn
- * Two (2) QL64 Red LED Module
- * Two (2) QL64 Red/White LED Modules
- * 3M Opticom Emitter
- * No Rear Lighting

A Lightbar layout will be provided to Riverside County Fire before the light bar is ordered for approval. If equipped, the forward facing white lights shall be automatically disabled for the "Blocking Right of Way" mode.

296. A-LOWER FRONT MOUNTING, CUSTOM CHASSIS

QTY: 1

The lower Zone A warning lights shall be mounted in the custom chassis headlight bezels.

297. A-LOWER FRONT, WHELEN M6 SUPER LEDS

QTY: 1

Two (2) Whelen, M6* super LED light heads shall be provided and installed one (1) each side.

298. A-LOWER FRONT, WHELEN M6 SUPER LEDS SECTION 4.44

QTY: 1

Two (2) Whelen, M6* super LED light heads shall be provided and installed one (1) each side. The lights will be red LED's with a clear lens

299. LOWER ZONE A WARNING LIGHT LENS - CLEAR

QTY: 1

The lower zone A warning lights shall include red LEDs and a clear lens if available from the manufacturer. If a clear lens is unavailable, a red lens shall be included.

300. LOWER ZONE A WARNING LIGHT BEZEL - CHROME

QTY: 1

The lower zone A warning lights shall include red leds and a chrome bezel if available from the manufacturer. If a chrome bezel is unavailable, a black bezel shall be included.

301. C-LOWER REAR, WHELEN M6 SUPER LEDS SECTION 4.64

QTY: 1

Two (2) Whelen M6* super LED light heads shall be provided and installed with one (1) on each side directly below the DOT stop, tail, turn and backup lights.

302. LOWER ZONE C WARNING LIGHT LENS - RED

QTY: 1

The lower zone C warning lights shall include red LEDs and a red lens if available from the manufacturer. If a red lens is unavailable, a clear lens shall be included.

303. LOWER ZONE C WARNING LIGHT BEZEL - CHROME

QTY: 1

The lower zone C warning lights shall include a chrome bezel if available from the manufacturer. If a chrome bezel is unavailable, a black bezel shall be included.

304. B/D-LOWER FRONT MOUNTING, CUSTOM CHASSIS

QTY: 1

The lower Zone B & D warning lights shall be mounted on the sides of the custom chassis front bumper.

305. B/D-LOWER FRONT, WHELEN M6 SUPER LEADS SECTION 4.64

QTY: 1

Two (2) Whelen, M6D split RED/WHITE super LED light heads shall be provided and installed with one (1) on each side. Each light head shall be equipped with a clear lens. The lights shall be installed with a chrome plated mounting flange. **Note: The lights shall flash red until the parking brake is released, in which the lights will flash alternating red/clear.**

306. B/D-LOWER MID, WHELEN M6 SUPER LEADS SECTION 4.46

QTY: 1

Two (2) Whelen M6D split RED/WHITE super LED light heads shall be provided and installed with one (1) on each side of the cab. Each light head shall be equipped with a clear lens. The lights shall be installed with a chrome plated mounting flange. **Note: The lights shall flash red until the parking brake is released, in which the lights will flash alternating red/clear.**

307. B/D-LOWER SECONDARY MID, WHELEN M6 SUPER LEADS SECTION 4.46

QTY: 1

Two (2) Whelen, M6D Split RED/WHITE super LED light heads shall be provided and installed with one (1) on each side. Each light head shall be equipped with a clear lens. The lights shall be installed with a chrome plated mounting flange. **Note: The clear flashing LED light shall be disabled when the parking brake is set.**

308. B/D-LOWER REAR, WHELEN M6 SUPER LEADS SECTION 4.46

QTY: 1

Two (2) Whelen M6D Split RED/WHITE super LED light heads shall be provided and installed with one (1) on each side. Each light head shall be equipped with a clear lens. The lights shall be installed with a chrome plated mounting flange. **Note: The clear flashing LED light shall be disabled when the parking brake is set.**

309. FEDERAL 31", VPX LED "SIGNAL MASTER" LIGHT AT REAR OF BODY SECTION 4.65

QTY: 1

One (1) Federal VPX LED "Signal Master" model # 320866, 31" rear directional light shall be installed on the vertical rear surface of the body.

The light shall be equipped with six (6) lights.

The light shall be controlled from the cab with a Federal, 331105 deluxe control head.

The controller shall be located within the center overhead dash panel, located toward the driver's side.

The rear directional light shall be wired through the load management system of the unit.

310. TRAFFIC ADVISOR - MOUNTING ON THE REAR SHEET SECTION 4.65

QTY: 1

The traffic advisor shall be mounted on the rear sheet.

311. WHELEN M6, SUPER LED LIGHTS ON (2) OUTRIGGER PANELS

QTY: 1

One (1) Whelen M6 super split LED light shall be mounted on each of the outrigger cover panels, for a total of two (2).

Each light head shall be equipped with red/white LEDs and a clear lens.
The lights shall be installed with a chrome plated mounting flange.

312. OUTRIGGER WARNING LIGHT ACTIVATION, PRIMARY WARNING

QTY: 1

The outrigger warning lights shall be energized by the ladder power circuit.

The outrigger warning lights shall also be energized by the primary warning light switch.

313. WHELEN 3X7 LED SCENE LIGHTS

QTY: 1

Two (2) Whelen #M7ZC, LED scene lights shall be provided, (1) one on each side of the rear body panel in a chrome plated flange. The scene lights shall be wired through the load management system. These will be labeled as Rear Scene.

Two (2) Whelen #M7ZC, LED scene lights shall be provided, (1) one on each side on the front of the tiller cab in a chrome plated flange. The scene lights shall be wired through the load management system. These will be labeled as Front Scene.

Both Sets of lights will be able to be controlled from the Tiller cab and Tractor.

The scene lights mounted on the tiller cab will be controlled from within the tiller cab. There shall be a switch to control the front facing lights and a separate switch to control the rear facing lights.

314. NFPA (4) FEDERAL WARNING LED GROUND LIGHTS, BELOW CAB DOORS
SECTION 4.29

QTY: 1

One (1) Federal Signal model 607141-05 LED ground light with an aluminum mounting bracket, shall be provided under each side cab door entrance step, four (4) total. The ground lights shall turn on automatically with each respective door jamb switch and also by a master ground light switch in the warning light switch console. Each light shall illuminate an area at a minimum 30" outward from the edge of the vehicle.

315. GROUND LIGHTS, 2 LED BELOW LOCKER COMPARTMENT **SECTION 4.52**

QTY: 1

One (1) Federal Signal LED ground light with an aluminum mounting bracket, shall be provided under each locker compartment, two (2) total. The ground lights shall be activated by a master ground light switch in the cab and shall be wired through the load management system.

316. GROUND LIGHTS, 2 LED BELOW MID-SHIP COMPARTMENT **SECTION 4.52**

QTY: 1

One (1) Federal Signal LED ground light with aluminum mounting bracket, shall be provided under each mid ship compartment, two (2) total. The ground lights shall be activated by a master ground light switch in the cab and shall be wired through the load management system.

317. GROUND LIGHTS, 2 LED BELOW FRONT BODY CORNERS **SECTION 4.52**

QTY: 1

One (1) Federal Signal LED ground light with an aluminum mounting bracket, shall be provided under each front body corner, two (2) total. The ground lights shall be activated by a master ground light switch in the cab and shall be wired through the load management system.

318. GROUND LIGHTS, 2 LED AT REAR BODY CORNERS – **SECTION 4.52**

QTY: 1

One (1) Federal Signal LED ground light with an aluminum mounting bracket, shall be provided under each rear body corner, two (2) total. The ground lights shall be activated by a master ground light switch in the cab and shall be wired through the load management system.

319. CAB AND BODY GROUND LIGHTS ACTIVATE WITH PARKING BRAKE

QTY: 1

The cab and body ground lights shall activate by engaging the parking brake.

320. AERIAL LADDER, LADDER POWER SWITCH IN CAB – TDA SECTION 2.73

QTY: 1

There shall be an aerial device power engagement switch located in the cab switch console. An aerial device PTO/hour meter shall be furnished. See ladder description for details.

321. CHASSIS DIAGNOSTICS SYSTEM

QTY: 1

Diagnostic ports shall be accessible while standing on the ground and located inside the driver's side door left of the steering column. The diagnostic panel shall allow diagnostic tools such as computers to connect to various vehicle systems for improved troubleshooting providing a lower cost of ownership. Diagnostic switches shall allow engine and ABS systems to provide blink codes should a problem exist.

The diagnostic system shall include the following:

- A single port to monitor the engine, transmission and ABS system and diagnostics of the roll sensor (if applicable)
- Engine diagnostic switch (blink codes)
- ABS diagnostic switch (blink codes)
- Allison Transmission Codes (through touch pad shifter)

322. VOLTAGE MONITORING SYSTEM - 12 VOLT SECTION 4.18

QTY: 1

A voltage monitoring system shall be provided to indicate the status of the battery system connected to the vehicle's electrical load. The system shall provide visual and audible warning when the system voltage is below or above optimum levels.

The alarm shall activate if the system falls below 11.8 volts DC for more than two (2) minutes.

323. INDICATOR LIGHT AND ALARM PROVE-OUT SYSTEM SECTION 4.18

QTY: 1

A system shall be provided which automatically tests basic indicator lights and alarms located on the cab instrument panel.

324. ELECTRICAL HARNESS INSTALLATION - 12 VOLT SECTION 4.17

QTY: 1

To ensure dependability, all 12-volt wiring harnesses installed by the manufacturer shall conform to the following specifications:

- SAE J 1128 - Low tension primary cable
- SAE J 1292 - Automobile, truck, truck-tractor, trailer and motor coach wiring
- SAE J 163 - Low tension wiring and cable terminals and splice clips
- SAE J 2202 - Heavy duty wiring systems for on-highway trucks
- NFPA 1901 - Standard for automotive fire apparatus
- FMVSS 302 - Flammability of interior materials for passenger cars, multipurpose passenger vehicles, trucks and buses
- SAE J 1939 - Serial communications protocol
- SAE J 2030 - Heavy-duty electrical connector performance standard
- SAE J 2223 - Connections for on board vehicle electrical wiring harnesses
- NEC - National Electrical Code
- SAE J 561 - Electrical terminals - Eyelet and spade type

- SAE J 928 - Electrical terminals - Pin and receptacle type A.

For increased reliability and harness integrity, harnesses shall be routed throughout the cab and chassis in a manner which allows the harnessing to be laid into its mounting location. Routing of harnessing which requires pulling of wires through tubes is never allowed at the manufacturer.

Wiring shall be run in loom or conduit where exposed, and have grommets or other edge protection where wires pass through metal. Wire colors shall be integral to each wire insulator and run the entire length of each wire. Harnessing containing multiple wires and uses a single wire color for all wires shall not be allowed. Function and number codes shall be continuously imprinted on all wiring harness conductors at 3.00" intervals. All wiring installed between the cab and into doors shall be protected by a wire conduit to protect the wiring. Exterior exposed wire connectors shall be positive locking, and environmentally sealed to withstand elements such as temperature extremes, moisture and automotive fluids. Electrical wiring and equipment shall be installed utilizing the following guidelines:

- All holes made in the roof shall be caulked with silicon. {No Exceptions} Large fender washers, liberally caulked, shall be used when fastening equipment to the underside of the cab roof.
- Any electrical component that is installed in an exposed area shall be mounted in a manner that shall not allow moisture to accumulate in it. Exposed area shall be defined as any location outside of the cab or body.
- For low cost of ownership, electrical components designed to be removed for maintenance shall be quickly accessible. For ease of use, a coil of wire shall be provided behind the appliance to allow them to be pulled away from the mounting area for inspection and service work.
- Corrosion preventative compound shall be applied to non-waterproof electrical connectors located outside of the cab or body. All non-waterproof connections shall require this compound in the plug to prevent corrosion and for easy separation of the plug.
- Any lights containing non-waterproof sockets in a weather-exposed area shall have corrosion preventative compound added to the socket terminal area.
- All electrical terminals in exposed areas shall have protective coating applied completely over the metal portion of the terminal.
- Rubber coated metal clamps shall be used to support wire harnessing and battery cables routed along the chassis frame rails.
- Heat shields shall be used to protect harnessing in areas where high temperatures exist. Harnessing passing near the engine exhaust shall be protected by a heat shield.
- Cab and crew cab harnessing shall not be routed through enclosed metal tubing. Dedicated wire routing channels shall be used to protect harnessing therefore improving the overall integrity of the vehicle electrical system. The design of the cab shall allow for easy routing of additional wiring and easy access to existing wiring.
- All standard wiring entering or exiting the cab shall be routed through sealed bulkhead connectors to protect against water intrusion into the cab.

All 12-volt battery cables and battery cable harnessing installed by the apparatus manufacturer shall conform to the following requirements:

- SAE J 1127 - Battery Cable
- SAE J 561 - Electrical terminals, eyelets and spade type
- SAE J 562 - Nonmetallic loom
- SAE J 836 A - Automotive metallurgical joining
- SAE J 1292 - Automotive truck, truck-tractor, trailer and motor coach wiring
- NFPA 1901 - Standard for automotive fire apparatus.

Battery cables and battery cable harnessing shall be installed utilizing the following guidelines:

- Splices shall not be allowed on battery cables or battery cable harnesses.
- For ease of identification and simplified use, battery cables shall be color coded. All positive battery cables shall be marked red in color. All negative battery cables shall be black in color.
- For ease of identification, all positive battery cable isolated studs throughout the cab and chassis shall be red in color.
- For increased reliability and reduced maintenance, all electrical buss bars located on the exterior of the apparatus shall be coated to prevent corrosion.
- An operational test shall be conducted to ensure that any equipment that is permanently attached to the electrical system is properly connected and in working order.

325. AERIAL BODY ELECTRICAL SYSTEM SECTION 4.17

QTY: 1

All electrical lines in the body shall be protected by automatic circuit breakers, conveniently located to permit ease of service.

Flashers, heavy-duty solenoids and other major electrical controls shall be located in a central area near the circuit breakers.

All lines shall be color and function coded every 3", easy to identify, oversized for the intended loads and installed in accordance with a detailed diagram.

A complete wiring diagram shall be supplied with the apparatus.

Wiring shall be carefully protected from weather elements and snagging.

Heavy duty loom shall be used for the entire length.

Grommets shall be utilized where wiring passes through panels.

In order to minimize the risk of heat damage, wires run in the engine compartment area shall be carefully installed and suitably protected by the installation of heat resistant shielded loom.

All electrical equipment shall be installed to conform to the latest federal standards as outlined in NFPA-1901.

326. TILLERS, AERIAL DEVICE ELECTRICAL JUNCTION COMPARTMENT

QTY: 1

An electric junction compartment shall be provided within the aerial body.

This compartment shall provide an easily accessible enclosure to house all of the aerial device wiring junction points, terminal strips, solenoids, etc.

All wiring for the aerial device including outrigger, diverter valve, and swivel circuits shall be in this compartment.

327. BODY ELECTRICAL HARNESS - V-MUX SECTION 4.18

QTY: 1

328. DOOR OPEN INDICATOR W/ AUDIBLE ALARM SECTION 2.188

QTY: 1

A Whelen Ion red LED flashing warning light with an external alarm, shall be functionally located in the cab to signal when an unsafe condition is present such as an open cab door or body compartment door,

an extended ladder rack, a deployed stabilizer, an extended light tower or any other device which is opened, extended or deployed which may cause damage to the apparatus if it is moved. This light shall be activated through the parking brake switch to signal when the parking brake is released. This light shall be labeled "DO NOT MOVE TRUCK".

All door open/close indicator switches shall be of the magnetic design ILO of plunger style. FDNY standard.

329. COMPARTMENT LIGHT ACTIVATION SECTION 4.56

QTY: 1

Compartment lighting shall be switched either from an integral switch as provided by the roll up door manufacturer or a magnetic proximity switch if it is a KME manufactured door.

All door open/close indicator switches shall be of the magnetic design ILO of plunger style. FDNY standard.

330. WALKWAY LIGHTING SECTION 4.53

QTY: 1

On top of the body each side of the ladder will be four (4) Federal Signal Mico Pulse 300 series white LED lights. These lights will come on with park brake and be used to illuminate the walkway on the top of the body.

331. BODY TURN SIGNALS SECTION 4.50

QTY: 1

A Whelen M6 arrow turn signal will be provided on a painted aluminum bracket on each side of the tiller body near the tiller axle. These lights will function with the main turn signals.

332. COMPARTMENT LIGHTS, AMDOR LUMA BAR LED LIGHTING – DUAL SECTION 4.56

QTY: 24

Each individual, equipment storage compartment shall be equipped with the AMDOR, Luma Bar, LED light fixture, mounted on each side of the forward (and rear) vertical door frame.

333. T-1 COMPARTMENT DOOR PAN LIGHTING

QTY: 1

Two (2) Tecniq model E07; Recessed LED lights will be provided and located within the interior door of the T-1 compartment door. Lighting intent is to provide a well-lit working area for the pull out surface in the T-4 compartment.

334. CUST PUMP/TANK/RES BODY LED MARKER LIGHTS

QTY: 1

335. OPTRONICS MARKER LIGHTS FORWARD OF FRONT CAB DOOR SECTION 4.25

QTY: 1

Optronics MCL series amber LED marker lights with reflector shall be provided and mounted forward of the front cab door, one (1) each side.

336. OPTRONICS MARKER/TURN LIGHTS @ EA SIDE OF BODY SECTION 4.49

QTY: 1

Optronics model MCL82RB, red, LED marker lights with integral reflectors shall be provided at the lower side rear, having one (1) on each side.

Optronics Model #STL71AMB, yellow, LED side marker and turn lights shall be provided on the apparatus lower side, forward of rear axle that puts one (1) on each side, if the apparatus is 30' long or longer.

337. OPTRONICS MARKER LIGHTS @ REAR OF BODY SECTION 4.49

QTY: 1

Optronics MCL65, red, LED clearance lights shall be provided on the apparatus rear upper having one (1) on each side at the outermost practical location.

Optronics MCL12, LED, 3-lamp identification bar will be provided on the apparatus rear center.

The lights shall be red in color.

338. TRUCK-LITE DOT AMBER REFLECTORS @ SIDE OF BODY

QTY: 1

Truck-Lite # 98034Y, yellow reflectors shall be provided on the apparatus body lower side, as far forward and low as practical with one (1) on each side if the apparatus is 30' long or longer.

339. TRUCK-LITE DOT RED REFLECTORS @ REAR OF BODY

QTY: 1

Truck-Lite # 98034R, red reflectors shall be provided on the apparatus rear with one (1) on each side at the outermost practical location.

340. TECNIQ #L10 LED LICENSE PLATE LIGHT @ DS REAR OF BODY

QTY: 1

One (1) Tecniq model #L10 LED license plate light shall be provided above the mounting position of the license plate.

The light shall be clear in color and shall have a chrome finish.

341. WHELEN #M6 LED BRAKE, REVERSE, & TURN W/ QUAD HOUSING

QTY: 1

Two (2) Whelen M6 series, 4-5/16" x 6-3/4", LED red combination tail and stop lights, shall be mounted one each side at the rear of the body.

Two (2) Whelen M6 series, 4-5/16" x 6-3/4", LED amber arrow turn signal lights, shall be mounted one each side, on a vertical plane with the tail/stop lights.

Two (2) Whelen M6 series, 4-5/16" x 6-3/4", LED white back-up lights, shall be mounted, one each side on a vertical plane with the turn/tail/stop signals.

These lights shall activate when the transmission is placed in reverse gear.

Two (2) Whelen M6FCV4 mounting flanges, installed one (1) on each side, shall be provided to mount the lights described above in one common mounting flange.

The fourth opening shall be for the lower rear warning lights.

The lights shall be mounted in order, from top to bottom, as described above.

342. FEDERAL SIGNAL LED THIRD BRAKE LIGHT SECTION 4.65

QTY: 1

One (1) Federal QuadraFlare, 4" x 6" size, red LED stop light {will/shall} be mounted centered on the rear of the body as high as practical. The light {will/shall} be mounted with a chrome flange.

The brake light shall be located below the Signal Master on the rear facing surface of the tiller cab.

343. BODY STEP LIGHTS, TECNIQ EON 3 LED, ALL DEVICES SECTION 4.53

QTY: 2

Polished, stainless steel, TecNiq Eon 3-LED, horizontal surface, mounted body step lights shall be provided and controlled with marker light actuation.

Step lights shall be located to properly illuminate all body access steps and walkway areas and shall include a mounting gasket to provide a watertight seal.

344. FEDERAL 9X7 LED SCENE LIGHTS BEHIND FRONT CAB DOORS

QTY: 1

Two (2) Federal #QL97, LED scene lights shall be provided, (1) one on each side of the cab, directly behind the front cab entrance door in a chrome plated flange.

The scene lights shall be wired through the load management system.

345. CAB SCENE LIGHTS TO BE ACTIVATED BY CAB DOORS

QTY: 1

In addition to the cab mounted switch for the cab scene lights, the driver and officer cab doors shall activate the respective light when a cab door is opened.

346. REAR SCENE LIGHTS TO BE ACTIVATED BY REVERSE LIGHTS

QTY: 1

In addition to the cab mounted switch for the rear scene lights, the rear scene lights shall illuminate when the transmission is placed in reverse gear and the apparatus is operating as an emergency vehicle (Primary Warning switch on).

347. HARRISON PTO/HYD GEN, 10.0-MAS SERIES, 10000 WATT SECTION 4.70

QTY: 1

One (1) Harrison Hydraulic Driven Generator model number 10.0MAS-16R rated at 10000 watts, 80/40 amps, 120/240VAC, 60 Hz, 1-phase shall be provided.

The system shall be designed and assembled by a company with no less than 10 years' experience in the manufacture of hydraulic driven generators. The system shall be tested at the full nameplate load prior to shipping and be accompanied with the test report. The test report shall document the generators performance at various loads from no load to full load to ensure reliable power delivery at those loads.

The motor/generator shall be placed in a frame which affords protection to the components and provides a unitized mounting module containing the motor/generator, reservoir, oil cooler, filtration, on/off manifold containing a cross port check valve allowing unit to be started and shut down remotely.

The generator shall be a commercial type with a heavy-duty bearing and of brush less design to ensure low maintenance. No brushes or slip rings shall be allowed. The reservoir shall include an oil level sight gauge, oil temperature gauge; fill cap, oil filter, and a venturi boost unit to provide positive pressure to the pump suction port.

The generator and motor shall be close coupled and aligned using a Morse taper with a through bolt to secure the motor to the generator. No two (2) bearing generators shall be permitted.

The system must be capable of producing the full nameplate power when driven from the vehicle PTO from idle to maximum engine speed.

The generator system must be able to operate on either a Constant Engaged PTO or a Hot Shift PTO. The generator must be able to be used while vehicle is either stationary or in motion.

The hydraulic motor and pump shall be of axial piston design to provide low internal leakage and a high degree of frequency stability. No gear pumps or motors shall be used. The pump shall match the system with the proper orifice, pressure compensator, and load sense settings to provide stable output regardless of engine rpm or electrical load demands.

The system shall be capable of normal operations using a commonly available ISO 46 hydraulic fluid. All fluid service points shall be in close proximity to the reservoir for ease of scheduled maintenance.

When properly installed, the system shall be warranted for a period of not less than two (2) years or 2000 hours, whichever should come first.

The generator shall be remotely turned on/off by using a 12 VDC switch mounted on the cab dash.

348. 120 & 240 VOLT WIRING METHODS SECTION 4.74

QTY: 1

Wiring/conduit shall not be attached to any chassis suspension components, water or fuel lines, air or air brake lines, fire pump piping, hydraulic lines, exhaust system components or low voltage wiring.

All wiring shall be installed at a minimum of 12 inches away from any exhaust piping and a minimum of 6 inches from any fuel lines.

All wiring shall be securely clamped within 6 inches of any junction box and at a minimum of every 24 inches of run. All supports shall be of nonmetallic material or corrosion protected metal. All supports shall not cut or abrade conduit or cable and shall be mechanically fastened to the vehicle.

All power supply assembly conductors, including neutral and grounding conductors, shall have an equivalent amperage rating and shall be sized to carry not less than 115% of the main breaker rating.

All Type SO or Type SEO cable not installed in a compartment shall be installed in wire loom. Where Type SO or Type SEO cable penetrates a metal surface, a rubber or plastic grommet or bushing shall be provided.

The installation of all 120/240 wiring shall meet the current NFPA-1901 Standards {No Exceptions}.

120/240 VOLT WIRING IDENTIFICATION

All line voltage conductors located inside the main breaker panel box shall be individually and permanently identified. When pre-wiring for future power wiring installations, the non-terminated ends shall be labeled showing function and wire size.

120/240 VOLT GROUNDING

The neutral conductor of the power source shall be bonded to the vehicle frame only at the power source.

The grounded current carrying conductor (neutral) shall be insulated from the equipment grounding conductors and from the equipment enclosures and other grounded parts. The neutral conductor shall be colored white or gray.

In addition to the bonding required for the lower voltage return current, each body and driving/crew compartment enclosure shall be bonded to the vehicle frame by a copper conductor. The conductor shall have a minimum amperage rating of 115 percent of the name plate current rating of the power source specification label.

120/240 VOLT CIRCUIT BREAKER / RECEPTACLE INSTALLATION

The system shall be installed by highly qualified electrical technicians to assure the required level of safety and protection to the fire apparatus operators. When multiple circuit are required, the circuits shall be wired to the breaker panel in a staggered configuration to minimize electrical loads on each breaker or generator (leg) circuit. The wiring, electrical fixtures and components shall be to the highest industry

quality standards available on the domestic market. The equipment shall be the type as designed for mobile type installations subject to vibration, moisture and severe continuous usage.

349. GEN LOCATION BETWEEN TRACTOR ACCESS LADDER OR COMPART SECTION 4.70

QTY: 1

The generator shall be mounted between the tractor and the access ladder or compartment. Locating the generator greater than 144" from the main breaker panel may require the installation of an additional power disconnecting means.

350. HARRISON HOT SHIFT PTO SECTION 2.71, 2.73

QTY: 1

A hot shift PTO shall be provided on the transmission for the Harrison generator.

The PTO shall be controlled from the cab. The control shall include a PTO engagement switch and a PTO engaged indicator light.

351. DIGITAL QUAD METER FOR HARRISON GENERATORS SECTION 4.72

QTY: 1

A weatherproof digital Quadra meter containing the volt, amp, and frequency shall be installed near the breaker panel.

352. TWELVE (12) SPACE, 125 AMP MAIN LUG LOAD CENTER SECTION 4.73

QTY: 1

The generator output line conductors shall be wired from the generator output connections to a Square D, model #QO112L125G breaker panel.

The breaker panel shall be equipped with a properly sized main breaker, using two (2) of the twelve (12) spaces which leaves a total of ten (10) available spaces.

The generator output conductors shall be sized to 115% of the main breaker rating and shall be installed as indicated in the wiring section.

353. TEN (10) GFI BREAKERS IN LIEU OF STANDARD BREAKERS SECTION 4.73

QTY: 1

Ten (10) appropriately sized, 120 volt, GFI ground fault circuit breakers, shall be installed in place of standard circuit breakers.

354. LOCATE BREAKER PANEL DRIVER SIDE LOCKER COMPARTMENT SECTION 4.73

QTY: 1

The breaker panel shall be located on the front wall of the driver side locker compartment.

355. FEDERAL SIGNAL FIXED LIGHTS, OFFICER SIDE SECTION 4.63

QTY: 1

Two (2) Federal Signal Commander, 20,000 Lumen model #COM120 top mounted, non-telescoping with full 400+ turning ability (which can rotate horizontally 1 1/4 full turns) to eliminate blind spots and positive stop which shall not allow wires to bind. The entire assembly shall be UL listed as Scene light for Fire Service Use. The base shall incorporate a self-adjusting friction brake so the light does not spin in transit and shall be leak proof so as not to allow water to enter the compartment below its installation.

The lights shall be mounted one (1) above the R-3 compartment and one (1) above the R-6 compartment on the officer side of the body. Wiring used for the lighting shall be a minimum of 16 gauge three (3) wire cable that is properly supported and protected from damage. These lights shall be switched at the electrical breaker only.

356. FEDERAL SIGNAL FIXED LIGHTS, DRIVER SIDE SECTION 4.63

QTY: 1

Attachment: FPARC-07057-002-0524 KME 101' TDA FINAL Quote [Revision 1] (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER

Two (2) Federal Signal Commander, 20,000 Lumen model #COM120 top mounted, non-telescoping with full 400+ turning ability (which can rotate horizontally 1 1/4 full turns) to eliminate blind spots and positive stop which shall not allow wires to bind. The entire assembly shall be UL listed as Scene light for Fire Service Use. The base shall incorporate a self-adjusting friction brake so the light does not spin in transit and shall be leak proof so as not to allow water to enter the compartment below its installation. The lights shall be mounted one (1) above the L-3 compartment and one (1) above the L-6 compartment on the driver side of the body. Wiring used for the lighting shall be a minimum of 16 gauge three (3) wire cable that is properly supported and protected from damage. These lights shall be switched at the electrical breaker only.

357. NEMA L5-15 DUPLEX RECEPTACLES REAR BODY PANEL

QTY: 1

One (1) 120 volt, NEMA L5-15, 15 amp, duplex twist-lock receptacle with a grey thermoplastic, corrosion resistant, weatherproof cover shall be installed.

This receptacle shall require one (1) 15 amp, 120 volt circuit breaker to be installed in the load center.

358. NEMA L5-15 DUPLEX RECEPTACLES REAR BODY PANEL AC OUTLET 2 SECTION 4.78

QTY: 1

One (1) 120 volt, NEMA L5-15, 15 amp, duplex twist-lock receptacle with a grey thermoplastic, corrosion resistant, weatherproof cover shall be installed at the rear body panel.

This receptacle shall require one (1) 15 amp, 120 volt circuit breaker to be installed in the load center.

359. ONE (1) HANNAY #ECR-1616-17-18, 120 VOLT ELECTRIC CORD REEL

QTY: 2

One (1) Hannay Model #ECR-1616-17-18, 120 volt, electric rewind cord reel shall be provided and wired to the breaker panel.

The reel shall be securely mounted and equipped with a rewind control adjacent to the reel.

360. CORD REEL LOCATION CEILING MOUNT DRIVER FRONT COMPARTMENT SECTION 4.75

QTY: 1

The cord reels shall be ceiling mounted in the CL/R 1 compartments.

361. CIRCUIT BREAKER REQUIREMENTS FOR CORD REELS

QTY: 2

The circuit breaker used to protect any device attached to the cord reel shall be sized to the smallest electrical connection used.

362. REWIND SWITCH - ON COMPARTMENT WALL SECTION 4.75

QTY: 2

A reel rewind switch(s) shall be provided on the compartment wall

363. STAINLESS STEEL, 4 WAY ROLLER ASSEMBLY SECTION 4.75

QTY: 2

A Hannay 4-way stainless steel roller assembly shall be provided. The roller assembly opening shall be the full width of the reel drum.

364. BALL STOP ON END OF CABLE SECTION 4.75

QTY: 2

A cable ball stop(s) shall be installed on the cable to keep the end from passing through the roller assembly.

365. 200' OF 12/3 YELLOW CABLE FOR ONE (1) 120 VOLT REEL SECTION 4.75

QTY: 2

Two hundred (200) feet of Type SO yellow 12/3 heavy duty electric cable shall be provided on the reel.

366. ALUMINUM TREAD PLATE JUNCTION BOX HOLDER, PER EACH

QTY: 2

A holder(s) constructed from 1/8" aluminum tread plate shall be provided for each cord reel(s) junction box. The location of the holder shall be adjacent to the cord reel roller assembly or as directed by the fire department.

367. NEMA L5-15, 120 VOLT 15 AMP TWIST LOCK RECEPTACLE ON CABLE SECTION 4.76

QTY: 2

One (1) NEMA L5-15R, 15 amp, three prong twist-lock receptacle shall be provided on the end of the cable.

368. CIRCLE-D (15 TWIST) PF51G-3P J-BOX W/ PIGTAIL SECTION 4.76

QTY: 2

A Circle-D Model #PF51G-3P, four (4) outlet junction box(es) with four (4) NEMA L5-15R twist-lock receptacles with a 12" pigtail with a NEMA L5-15P twist-lock plug shall be provided.

369. CHASSIS SINGLE ELECTRIC (DOT) HORN

QTY: 1

A single electric horn activated by the steering wheel horn button shall be furnished.

370. ECCO #575, BACK-UP ALARM - 107 DBA SECTION 4.16

QTY: 1

An Ecco, model #575, 107dBA back-up alarm, shall be provided and installed at the rear of the apparatus under the tailboard.

The back-up alarm shall activate automatically when the transmission is placed in reverse gear and the ignition is "on".

371. DUAL CHROME AIR HORNS – GROVER SECTION 2.135

QTY: 1

Two (2) chrome plated Grover air horns shall be at the front of the vehicle. The air horns shall be mounted in full compliance with NFPA-1901. The supply lines shall be dual 1/4" lines with equal distance from each horn. **CLARIFICATION: The air horns shall comply with section 2.135 of the customer's specification (One horn will be 15 inches while the second horn will be 24 inches in length, both with a 6 inch flare).**

372. DUAL AIR HORNS RECESSED IN OFFICER SIDE OF FRONT BUMPER SECTION 2.135

QTY: 1

Both air horns shall be recessed in the officer side of the front bumper.

373. HORN BUTTON - TWO WAY SWITCH SECTION 4.13

QTY: 1

A two (2) position rocker switch shall be installed on the cab dash to activate from the steering wheel horn button one of the following:

- DOT horn
- Electronic/mechanical siren.

374. AIR HORN CTRL - DASH BUTTON FOR OFFICER & FLOOR SECTION 4.14

QTY: 1

The air horn(s) shall be controlled by a push button, located on the dash on the officer's side, as well as a foot mounted switch on the driver's side.

375. SIREN, FEDERAL PA300MSC, 200W SECTION 4.11

QTY: 1

One (1) Federal Model # PA300-MSC 200 watt electronic siren shall be provided featuring: wail, yelp and hi-lo siren tones along with public address, radio rebroadcast, TAP II and air horn with siren override.

A hardwired microphone shall provided for the public address feature.

The electronic siren and speaker shall meet the NFPA required SAE certification to ensure compatibility between the siren and speaker.

376. TWO (2) FEDERAL, #ES100C SPEAKERS

QTY: 1

Two (2) Federal, model # ES100C siren speakers shall be provided, recessed in the front bumper and wired to the electronic siren.

377. FEDERAL Q2B SIREN @ CAB FRONT SECTION 4.12

QTY: 1

One (1) Federal Model #Q2B mechanical siren shall be provided to provide audible warning.

378. Q2B MOUNT - FULLY-RECESSED INTO DRIVER'S SIDE OF BUMPER SECTION 4.12

QTY: 1

The Q2B siren shall be fully-recessed into the bumper on the driver's side.

The siren shall be recessed so the front grille portion of the siren is flush with the front of the bumper.

379. SIREN CONTROL - FLOOR SWITCH, DRIVER AND OFFICER SECTION 4.12

QTY: 1

Two (2) floor mounted foot switches shall be provided, one (1) for the officer and one (1) for the driver.

A siren brake button shall be provided near the driver's position.

380. ADDITIONAL SIREN BRAKE BUTTON NEAR OFFICER SECTION 4.12

QTY: 1

A second push button siren brake switch shall be provided on the cab dash near the officers seating position.

381. BODY AND COMPARTMENT HEADER

QTY: 1

382. GENERAL ALUMINUM BODY DESCRIPTION FOR 100' TILLER AERIALS SECTION 3.1, 3.19, 3.20, 3.40

QTY: 1

The general body construction shall be a modular body consisting of independent body modules or subassemblies with an independent heavy duty support framework. These specifications outline the minimum standards of construction.

To ensure the customer of soul source manufacturing, the body must be built by the same manufacturer of the entire chassis and aerial device. {No Exceptions}

COMPARTMENT FABRICATION

Compartment panels and body side sheets shall be a minimum of 1/8" aluminum 5052 alloy. Each side compartment assembly shall be both plug welded and stitch welded to ensure proper weld penetration on

all panels while avoiding the distortion caused by a full seam weld. The side compartments shall be welded on a fixture to ensure true door and body dimensions. All compartments shall have a sweep-out style floor.

The floors of each compartment shall be adequately braced to provide maximum loading without undue deflection. All seams shall be caulked prior to finish paint to ensure proper compartment seal.

Compartments that are transverse below the trailer frame rails shall be designed with a bolt-in center section. This design shall provide removable access to the center section of the trailer frame rails for maintenance and aerial testing.

The referenced compartment sizes approximate the extreme outside compartment dimensions without deductions for material thicknesses, flanges, door pans/hardware, or ladder storage compartment headers.

BODY SUBFRAME

The body sub-frame shall be an all-welded configuration utilizing aluminum tubing, channel, and angle. This structure shall be designed to totally support the full length and width of the body and shall be welded to the body side compartments by use of reinforcement plates to incorporate the compartments into an integral part of the body weldment. The super structure shall be bolted to the sides of the chassis frame at a minimum of four (4) points.

FLEX JOINTS

Due to the trailer flexing associated with tractor drawn aerial bodies, the tiller body shall be segregated into separate modules. Each module shall be spaced apart by a flex joint to allow movement between each body module when the vehicle is in road travel or aerial operations.

COATED FASTENERS

All exterior fasteners shall be coated stainless steel screws. Screw threads shall be coated with reusable, self-locking, sealing material to provide vibration resistance. Screw heads shall be coated with a sealing element to prevent galvanic corrosion between dissimilar metals. Non-coated screws shall only be provided as part of vendor supplied component installations.

383. GENERAL COMPARTMENT SECTION 3.39, 3.41, 3.42

QTY: 1

COMPARTMENT TOPS

Compartment tops shall be covered with polished aluminum tread plate. **The side body panels on the trailer, outboard of the ladder storage area will be smooth aluminum, painted job color red.** The aluminum tread plate shall have a flange downward, over the top of compartments to serve as a drip rail above the compartment doors.

ACCESS PANELS

Removable access panels shall be provided in the lower running board compartments to access hydraulic components, electrical harnesses, and the rear body mounts.

All access panels shall be equipped with the same finish as the compartment interiors.

COMPARTMENT VENTILATION

Ventilation between compartments to atmosphere shall be provided and located in a position that avoids water entry into compartments.

COMPARTMENT DRIP MOLDING

Compartment tops overall side compartments shall be equipped with a flanged edge to provide protection against water run-off. A secondary polished extruded aluminum drip molding shall be provided between lower compartments and auxiliary high side compartments.

BODY TRIM

The body shall be protected and covered with bright finished polished aluminum tread plate. The tread plate shall be fastened with stainless steel hardware and shall be coated with rubber type undercoating between the body panel and tread plate to protect from moisture. All edges shall be sealed with silver, rubber caulking.

Polished aluminum tread plate shall be provided in the following areas:

- All surfaces of the compartments or on top of the body where personnel may walk or mount equipment
- Front of body
- Below aerial turntable decking
- Top of the pump enclosure (if applicable)
Cover over the water tank (if applicable)
- Cover over hydraulic tank
- Top of mid-ship compartment (if applicable)

384. ALUMINUM WHEEL LINERS TILLER TRAILER

QTY: 1

Fully removable, bolt-in, 1/8" aluminum fender liners shall be provided. The wheel well liners shall extend from the outer wheel well body panel, into the truck frame. Removable vertical splash shields, inward of the wheels, shall be provided to give access to the hydraulic components. The completely washable fender liners shall be designed to protect the front and rear compartments and the main body supports from road salts, dirt accumulation and corrosion.

385. DRIVER FORWARD FENDER - TRIPLE STORAGE SLOT

QTY: 1

A storage compartment shall be inserted into the fender to provide a storage area for three (3) customer supplied SCBA cylinders (or fire extinguishers of similar size).

The storage area shall be sized as tall and wide as possible in the fender (minimum of 14" wide x 15" tall with an angled floor by fender radius), and shall be 26" deep.

The compartment shall have a non-abrasive lined cradle storage area for each of the three (3) devices.

This storage compartment shall provide a minimum of 2.3 cubic feet of storage space.

386. DRIVER REARWARD FENDER - TRIPLE STORAGE SLOT

QTY: 1

A storage compartment shall be inserted into the fender to provide a storage area for three (3) customer supplied SCBA cylinders (or fire extinguishers of similar size).

The storage area shall be sized as tall and wide as possible in the fender (minimum of 14" wide x 15" tall with an angled floor by fender radius), and shall be 26" deep.

The compartment shall have a non-abrasive lined cradle storage area for each of the three (3) devices.

This storage compartment shall provide a minimum of 2.3 cubic feet of storage space.

387. TILLER TRACTOR, REAR WHEEL WELLS & FENDERS - TAPERED TREADPLATE
SECTION 2.113

QTY: 1

The tractor shall be equipped with a flat aluminum tread plate wheel well and fender step assembly, which will be tapered on the front and rear. The fenders shall be two (2) separate sections that shall be attached to the tractor frame rails for adequate strength to support a fire fighter.*Fender to match Nashville TDA.

388. TILLER TRACTOR, REAR WHEEL WELLS & FENDERS - PAINT FLAT / TREADPLATE

QTY: 1

The tractor shall be equipped with a flat aluminum tread plate wheel well and fender step assembly. The sides of the fenders shall be painted to match the body color. The front and rear edge of the fender assembly shall be equipped with a 6" radius. The fenders shall be two (2) separate sections that shall be attached to the tractor frame rails for adequate strength to support a fire fighter.

389. OFFICER FORWARD FENDER - TRIPLE STORAGE SLOT

QTY: 1

A storage compartment shall be inserted into the fender to provide a storage area for three (3) customer supplied SCBA cylinders (or fire extinguishers of similar size).

The storage area shall be sized as tall and wide as possible in the fender (minimum of 14" wide x 15" tall with an angled floor by fender radius), and shall be 26" deep.

The compartment shall have a non-abrasive lined cradle storage area for each of the three (3) devices.

This storage compartment shall provide a minimum of 2.3 cubic feet of storage space.

390. OFFICER REARWARD FENDER - TRIPLE STORAGE SLOT

QTY: 1

A storage compartment shall be inserted into the fender to provide a storage area for three (3) customer supplied SCBA cylinders (or fire extinguishers of similar size).

The storage area shall be sized as tall and wide as possible in the fender (minimum of 14" wide x 15" tall with an angled floor by fender radius), and shall be 26" deep.

The compartment shall have a non-abrasive lined cradle storage area for each of the three (3) devices.

This storage compartment shall provide a minimum of 2.3 cubic feet of storage space.

391. TRACTOR DRAWN AERIAL TRAILER BODY COMPARTMENTS **SECTION 3.22, 3.31, 3.33, 3.34**

QTY: 1

DRIVER SIDE COMPARTMENTATION

One high side compartment shall be provided above the stabilizer (L0). The compartment dimensions shall be 28" wide x 11" high x transverse.

One full height/full depth compartment shall be provided to the rear of the stabilizer. The compartment dimensions shall be 30" wide x 59" tall x 28" deep. A false floor shall be welded in creating two storage areas. The upper area (L1) shall be 16" high with transverse storage. The lower area (L2) shall be 43" high x 28" deep and transverse below the frame rails.

One full height/full depth compartment shall be provided to the rear of the front compartment (L3). The compartment dimensions shall be 40" wide x 59" tall x 28" deep. The area above and below the frame rails shall be transverse.

One full height/full depth compartment shall be provided to the rear of the front compartment (L4). The compartment dimensions shall be 40" wide x 59" tall x 28" deep. The area above and below the frame rails shall be transverse.

One full height/full depth compartment shall be provided to the rear of the front compartment (L5). The compartment dimensions shall be 40" wide x 59" tall x 28" deep. The area below the frame rails shall be transverse.

One full height/full depth compartment shall be provided to the rear of the front compartment (L6). The compartment dimensions shall be 40" wide x 59" tall x 28" deep. The area below the frame rails shall be transverse.

One full height/full depth low side compartment shall be provided forward of the trailer steer axle (L7). The compartment dimensions shall be 32" wide x 31" tall x 28" deep. The area below the frame rails shall be transverse.

One full height/full depth low side compartment shall be provided rearward of the trailer steer axle (L8). The compartment dimensions shall be 41" wide x 31" tall x 28" deep.

OFFICER SIDE COMPARTMENTATION

One high side compartment shall be provided above the stabilizer (R0). The compartment dimensions shall be 28" wide x 11" high x transverse.

One full height/full depth compartment shall be provided to the rear of the stabilizer. The compartment dimensions shall be 30" wide x 59" tall x 28" deep. A false floor shall be welded in creating two storage areas. The upper area (R1) shall be 16" high with transverse storage. The lower area (R2) shall be 43" high x 28" deep and transverse below the frame rails.

One full height/full depth compartment shall be provided to the rear of the front compartment (R3). The compartment dimensions shall be 40" wide x 59" tall x 28" deep. The area above and below the frame rails shall be transverse.

One full height/full depth compartment shall be provided to the rear of the front compartment (R4). The compartment dimensions shall be 40" wide x 59" tall x 28" deep. The area above and below the frame rails shall be transverse.

One full height/full depth compartment shall be provided to the rear of the front compartment (R5). The compartment dimensions shall be 40" wide x 59" tall x 28" deep. The area below the frame rails shall be transverse.

One full height/full depth compartment shall be provided to the rear of the front compartment (R6). The compartment dimensions shall be 40" wide x 59" tall x 28" deep. The area below the frame rails shall be transverse.

One full height/full depth low side compartment shall be provided forward of the trailer steer axle (R7). The compartment dimensions shall be 32" wide x 31" tall x 28" deep. The area below the frame rails shall be transverse.

One full height/full depth low side compartment shall be provided rearward of the trailer steer axle (R8). The compartment dimensions shall be 41" wide x 31" tall x 28" deep.

REAR COMPARTMENTATION

One compartment shall be provided below the ladder storage area (T5). The compartment dimensions shall be 33" wide x 9" tall and as deep as the trailer frame work will allow.

One compartment shall be provided in the lower area under the ladder storage (T4). The compartment dimensions shall be 28" wide x 13" tall x 28" deep.

Two compartments shall be provided outboard of the tow eyes and below the ladder storage (T2 & T3). The compartment dimensions shall be 23" high x 13" wide x 28" deep

392. TRACTOR LOCKER COMPARTMENT CL1/CR1 & CL2/CR2 SECTION 2.210

QTY: 1

One full height/full depth locker compartment shall be provided to the rear of cab on the driver's side (CL2). The compartment dimensions shall be 33" wide x 36" tall x 25" deep.

One high side compartment shall be provided above the driver's side locker compartment (CL1). The compartment dimensions shall be 25" wide x 28" high x 25" deep.

One full height/full depth locker compartment shall be provided to the rear of cab on the officer's side (CR2). The compartment dimensions shall be 33" wide x 36" tall x 25" deep.

One high side compartment shall be provided above the officer's side locker compartment (CR1). The compartment dimensions shall be 25" wide x 28" high x 25" deep.

393. HOSE STORAGE TRAY SECTION 2.209

QTY: 1

The hose storage compartment located at the rear of the tractor cab, in between the locker compartments shall have a storage capacity for 150 feet of 3 inch hose. A latching tread-plate cover shall be provided and designed to be utilized as a walking surface. The hinge shall be towards the tractor. The lid and rear vertical surface to hinge upward to allow for hose deployment. A gas shock strut system to hold the door in the open position shall be provided.

394. STORAGE MODULE SECTION 3.37

QTY: 1

One (1) polished aluminum tread plate compartment box, with access doors on each right and left side, {will/shall} be provided and mounted transversely across the top of the trailer compartment body above the outrigger and front trailer compartment. The compartment will be designed to hold the supplied stokes basket.

One (1) watertight polished aluminum tread plate compartment box, with access doors on each right and left side, {will/shall} be provided and mounted transversely across the top of the trailer compartment body above the outrigger and front trailer compartment. The compartment {will/shall} be designed to hold the supplied Werner Ladder.

395. BEVELED OVERLAPPING DOORS, ALL COMPARTMENTS, ALL DEVICES SECTION 3.26

QTY: 1

The compartment doors shall be beveled overlapping type doors. The outer door skin shall be fabricated from 3/16" aluminum, which shall be beveled on all four (4) sides to add structural integrity to the door. The door frame shall be constructed from 2" x 1" x 1/8" "C" channel on vertically hinged doors and 1" x 5" x 1/8" channel for horizontally hinged doors.

396. #8 POLISHED (MIRROR) FINISHED STAINLESS STEEL DOOR PANS SECTION 3.40

QTY: 1

The inner door panels of each compartment door shall be equipped with high polished 16gauge stainless.

Each panel shall be fitted to the compartment door framework.

397. DOOR HINGE FOR BEVELED OVERLAPPING HINGED DOORS SECTION 3.26

QTY: 1

Hinges shall be full length polished stainless steel piano type. The hinges shall be mounted with stainless steel hardware.

398. DOOR SEAL FOR BEVELED OVERLAPPING HINGED DOORS SECTION 3.26

QTY: 1

All enclosed storage compartments shall include a full gasket around the perimeter of the compartment edge with heat resistant, "closed cell neoprene sponge" weather stripping, to insure a water tight seal.

399. ROTARY LATCHES WITH D-RING HANDLES SECTION 3.27

QTY: 1

Externally latched body doors shall be equipped with stainless steel D-ring handles.

Rotary door latches shall be provided for all full height body doors, which shall incorporate rotary latches at the top and bottom of all externally latched single or double doors.

Linkages shall be provided between the actuation handle and the latch mechanisms.

The blank door of a double door configuration shall have rotary latches at the top and bottom of each door with the latch release lever accessible thru the door frame, which eliminates the need to reach inside the compartment to release the door.

Linkages shall be provided between the actuation handle and the latch mechanisms.

Horizontally hinged doors shall be equipped with a single rotary door latch.

400. KEYED DOOR LOCKS, HINGED OR ROLL-UP DOORS

QTY: 24

Compartment door(s) shall be equipped with keyed locking door latches. All compartment door locks shall utilize a #1250 key. A total of 4 keys will be provided with each apparatus and shall be labeled to indicate the correct match.

401. GAS SHOCK ON HORIZONTALLY & VERTICALLY HINGED DOORS SECTION 3.28, 3.29

QTY: 1

Eberhard gas shock type door hold open devices shall be provided for each vertically and horizontally hinged door.

402. COMPARTMENT FLOORS (AERIALS ONLY) SECTION 3.25

QTY: 1

Compartment floors shall be welded to the compartment walls and have a sweep out design for easy cleaning.

403. REAR MUD FLAPS, TILLER ONLY SECTION 3.43

QTY: 1

Heavy duty mud flaps shall be provided behind the rear wheels on the tractor and the rear steer axle on the trailer.

404. TIE OFF RINGS SECTION 3.1

QTY: 1

Rope rigging anchor points rated at 9,000 pounds of straight line pull shall be provided in the following areas:

One each side of the trailer goose neck rearward of the waterway inlet

Engraved labels shall be provided at all tie off points indicating the weight rating associated with the anchor point.

405. WINCH RECEIVER POINT - EACH SIDE OF BODY SECTION 3.1

QTY: 1

A 2" square receiver point shall be provided beneath the rub rail toward each side of the body for a portable winch. **The winch receiver points shall be located under the L/R-7 compartment towards the seam of the L/R-6 and L/R-7 compartments.**

The receiver point shall be a 2 1/2" x 2 1/2" x 1/4" full width of body seamless steel tube welded and gusseted to 3" x 1 1/2" steel channel directly bolted to four points on the chassis frame rails. **Receiver shall be rated at a minimum of a Class IV (10,000 lbs.).**

NOTE: Receiver points **WILL NOT** include 12-volt power connections.

406. POLISHED STAINLESS STEEL FENDERETTES, TILLER TRAILER AXLE SECTION 3.24

QTY: 1

The tiller rear fenders shall be equipped with easily replaceable, polished stainless steel fenderettes.

The fenderettes shall be equipped with a rubber gasket molding between the body panel and the fender.

Integral welded crown type liners shall not be acceptable.

407. TILLER, TILLER CAB ACCESS LADDERS SECTION 3.17, 3.18

QTY: 1

Two (2) access areas, one on each side, shall be provided at the rear of the trailer in a step or ladder style configuration. The steps shall be configured to climb from the ground to the tiller cab with spacing not to exceed NFPA 1901 step distances. The steps shall be fabricated from "Grip-Strut" anti-slip material, providing a non-slip surface on each step. The steps shall provide access or egress to and from the top of the aerial body and tiller cab.

408. STAINLESS STEEL SILL PROTECTORS SECTION 3.24

QTY: 24

Stainless steel scuff plates shall be installed on the floor of each compartment near the edge of the door opening to protect the compartment floor when accessing equipment from the compartment.

409. TREAD PLATE OVERLAY, FRONT OF SIDE COMPARTMENTS (NON-WRAP AROUND) SECTION 3.24

QTY: 1

The front face of the side compartments, next to the driver and officer pump panels shall be overlaid with full height aluminum tread plate protection panels.

The overlays shall cover the front face of the compartments only, they shall not wrap around to the door opening.

410. POLISHED S.S. SCUFF PLATES, FULL HEIGHT OF REAR BODY CORNERS SECTION 3.24

QTY: 1

A polished stainless steel scuff plate shall be installed on the rear body corners.

The scuff plate shall extend the full height of the body corner panel.

411. PAINTED REAR BODY PANEL, TILLERS SECTION 3.42

QTY: 1

The entire rear of the body shall be equipped with a painted finish, which shall extend the full width between body side compartments. The paint color shall match the body job color. The rear of the body shall have an opening to access the ground ladder storage area. The opening shall be equipped with a door as specified in the ground ladder storage section.

412. 1/2 WIDTH S. S. OUTRIGGER COVER PANEL, TILLER DEVICES

QTY: 1

Each outrigger opening shall be covered by a panel mounted to the outrigger beam. The panels shall be fabricated from 14 gauge #8 finished stainless steel material. Each panel shall be adjustable up and down to help match the panel to the body lines.

The outrigger covers shall be fabricated only as wide as the outrigger beam, to allow positioning of the outriggers between parked cars or in tight areas.

413. BODY RUB RAILS, C-CHANNEL SECTION 3.46

QTY: 1

Sacrificial, C-Channel style, rub rails shall be mounted at the base of the body, extending outward from the body. The rub rails shall extend the full length of the main body. Rub rails shall be bolted to the body from the bottom side of the compartment area so it does not damage the body side panels on initial impact and provide easy replacement.

414. TILLER, BODY HANDRAILS- LIGHTED - RED INSERT SECTION 4.48

QTY: 1

All non-aerial device handrails are to be 1-1/4" diameter knurled bright anodized aluminum with chrome plated end brackets. Each grab rail shall have white LED lights that shall be wired to the DOT marker lights and interlocked to illuminate when the parking brake is applied. Each handrail shall have two (2) red reflexive reflective strips.

Locations shall be as follows:

One pair of grab handles on each corner of the turntable walking deck to assist climbing to the turntable. One full length rail attached to the rear edge of each tiller cab access ladder.

415. CHROME REAR TOW EYES, THROUGH REAR SHEET SECTION 3.47

QTY: 1

Two (2) chrome plated tow eyes shall be furnished on the rear of the vehicle and extends through the rear body panel. The tow eyes shall be made from plate steel and bolted directly to the chassis frame rails with grade 8 bolts. The tow eyes shall be smooth and free from sharp edges. They will have a minimum eyelet hole of 2-1/2".

416. CENTER LADDER STORAGE, 101' LADDER, TILLER SECTION 3.30

QTY: 1

All ground ladders (except as noted) shall be stored in the center rear of the aerial body. The ladders stored in the center of the body shall be fully enclosed.

417. HINGED PAINTED ALUM DOOR, LADDER STORAGE, RM ONLY SECTION 3.30

QTY: 1

A horizontally hinged, painted flat aluminum door shall be provided for the ladders at the rear of the vehicle. The compartment door shall be flat overlapping type doors. The outer door the skin shall be fabricated from 3/16" (5052 -H32) aluminum. The door frame shall be constructed from 2" x 1" x 1/4" "C" channel or 1" x 5" x 1/8" channel.

The inner pan shall be constructed from 1/8" aluminum material, which shall be provided with a brushed finish. The inner door pan on running board compartments shall enclose the latch and reinforcements completely. The pan shall be easily removable to access the enclosed latch mechanism.

Two (2) gas shock door holders shall be provided on each door. The doors shall latch with a "D" ring handle.

418. STAINLESS STEEL LADDER LOCK SYSTEM SECTION 3.54

QTY: 1

A stainless plate with a two bend flange and a stainless steel hinge shall be provided to secure the aerial ladder complement. The plate assembly shall be mounted to the bottom of the entrance of the torque box ladder storage area. The plate shall be equipped with a spring loaded release to allow it to be hinged open.

When the plate is vertical, it shall secure the ladders and prevent them from migrating to the rear of the apparatus. When the plate is down and not securing the ladders, the roll-up door cannot close, which shall activate the "Open Door Indicator Light" within the cab. The roll-up door together with hinge friction shall secure the plate in place during driving operations.

419. DUO-SAFETY 1200-A 35' 2-SECTION EXTENSION LADDER (ALUMINUM) SECTION 3.54, 5.1

QTY: 2

A Duo-Safety series 1200-A, 35', aluminum, two (2) section extension ladder shall be provided.

420. DUO-SAFETY 1200-A 28' 2-SECTION EXTENSION LADDER (ALUMINUM) SECTION 3.54, 5.1

QTY: 2

A Duo-Safety series 1200-A, 28', aluminum, two (2) section extension ladder shall be provided.

421. DUO-SAFETY 875-A 20' ROOF LADDER W/ FOLDING HOOKS (ALUMINUM) SECTION 3.54, 5.1

QTY: 1

A Duo-Safety series 875-A, 20', aluminum, straight roof ladder with folding hooks shall be provided.

**422. DUO-SAFETY 875-A 18' ROOF LADDER W/ FOLDING HOOKS (ALUMINUM)
SECTION 3.54, 5.1**

QTY: 1

A Duo-Safety series 875-A, 18', aluminum, straight roof ladder with folding hooks shall be provided.

**423. DUO-SAFETY 875-A 16' ROOF LADDER W/ FOLDING HOOKS (ALUMINUM)
SECTION 3.54, 5.1**

QTY: 2

A Duo-Safety series 875-A, 16', aluminum, straight roof ladder with folding hooks shall be provided.

424. DUO-SAFETY 585-A 10' FOLDING ATTIC LADDER (ALUMINUM) SECTION 3.54, 5.1

QTY: 2

A Duo-Safety series 585-A, 10', folding, aluminum, attic ladder shall be provided.

425. 6' FIBERGLASS LADDER SECTION 3.54, 5.1

QTY: 1

A 6' Werner #6206 fiberglass 300lb rated step ladder will be provided and installed in the storage module with the stokes basket.

426. NUPLA 4' PIKE POLE SECTION 3.54, 5.1

QTY: 1

Two (2) Nupla 4' CWH-4YDA fiberglass handled pike pole(s) shall be provided.

427. NUPLA 12' PIKE POLE SECTION 3.54, 5.1

QTY: 1

Two (2) Nupla 12' model YPD-12 fiberglass handled pike pole(s) shall be provided.

428. NUPLA 10' PIKE POLE SECTION 3.54, 5.1

QTY: 1

Two (2) Nupla YPD-10, 10' fiberglass handled pike pole(s) shall be provided.

429. NUPLA RUBBISH HOOKS SECTION 3.54, 5.1

QTY: 1

The following rubbish hook pike poles from Nupla will be provided

- Three (3) RH-6DA 6' Rubbish Hooks
- One (1) RH-4DA 4' Rubbish Hook
- Two (2) CWH-4YDA 4' Ceiling/Wall Hooks

430. NUPLA 6' PIKE POLE SECTION 3.54, 5.1

QTY: 1

Two (2) 6' Nupla RH-6DA fiberglass handled pike pole(s) shall be provided.

431. FIRE HOOKS UNLIMITED NY ROOF HOOKS SECTION 3.54, 5.1

QTY: 1

The following Fire Hooks Unlimited NY Roof Hooks will be provided

Two (2) 6'

Two (2) 4'

432. NUPLA 18' PIKE POLE SECTION 3.54, 5.1

Attachment: FPARC-07057-002-0524 KME 101' TDA FINAL Quote [Revision 1] (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER

One (1) 18' Nupla YPD-18 fiberglass handled pike pole(s) shall be provided.

QTY: 1

433. 1/2 DEPTH ADJUSTABLE SHELF LOCATED IN DRIVER LOCKER COMPARTMENT
SECTION 3.51

QTY: 2

Adjustable shelf in the driver side locker compartment.

434. 1/2 DEPTH ADJUSTABLE SHELF LOCATED IN OFFICER LOCKER COMPARTMENT
SECTION 3.51

QTY: 2

Adjustable shelf in the officer side locker compartment.

435. ADJUSTABLE SHELF DESCRIPTION – RESCUE SECTION 3.51

QTY: 1

Compartment shelving shall be constructed of 3/16" brush finish aluminum with a **2" lips front and back, unless otherwise noted at the shelving location**, and side supports. Shelving shall be vertically adjustable with spring nuts in aluminum strut channel. ***Note; Each of the trailer side body compartments will have Uni-strut channels provided for future installation of compartment accessories.**

Adjustable shelves shall be located as indicated at each compartment description.

436. ADJUSTABLE SHELF(S) LOCATED CL-2 SECTION 3.51

QTY: 1

Located in the left side 'CL-2' compartment. **Note: the shelf shall have a 1" lip on the outer edge.**

437. ADJUSTABLE SHELF(S) LOCATED L-2 SECTION 3.51

QTY: 2

Located in the left side compartment #2. **NOTE: THE UPPER SHELF SHOULD HAVE A 1" OUTER LIP**

438. ADJUSTABLE SHELF(S) LOCATED L-4 SECTION 3.51

QTY: 3

Located in the left side compartment #4

439. ADJUSTABLE SHELF(S) LOCATED L-5 SECTION 3.51

QTY: 2

Located in the left side compartment #5

440. ADJUSTABLE SHELF(S) LOCATED L-6 SECTION 3.51

QTY: 2

Located in the left side compartment #6. **NOTE: Both of these shelves are to have a 1" lip.**

441. ADJUSTABLE SHELF(S) LOCATED L-7 SECTION 3.51

QTY: 1

Located in the left side compartment #7

442. ADJUSTABLE SHELF(S) LOCATED CR-2 SECTION 3.51

QTY: 1

Located in the right side 'CR-2' compartment. **NOTE: The shelf shall have a 1" outer lip.**

443. ADJUSTABLE SHELF(S) LOCATED R-2 SECTION 3.51

QTY: 1

Located in the right side compartment #2. **NOTE: This shelf is to have a 1" outer lip.**

444. ADJUSTABLE SHELF(S) LOCATED R-3 SECTION 3.51

QTY: 1

Located in the right side compartment #3 NOTE: The adjustable shelf shall have a 1 inch lip and be mounted in the middle of the compartment, centered between the pull out trays.

445. ADJUSTABLE SHELF(S) LOCATED R-4 SECTION 3.51

QTY: 1

Located in the right side compartment #4. NOTE: The adjustable shelf shall have a 1" lip and be mounted in the middle of the compartment, centered between the pull out trays.

446. ADJUSTABLE SHELF(S) LOCATED R-5 SECTION 3.51

QTY: 4

Located in the right side compartment #5 as follows:

One (1) adjustable shelf shall have a 2" lip and be top mounted.

The other three (3) adjustable shelves shall have a 1" lip and be mid mounted.

447. ADJUSTABLE SHELF(S) LOCATED R-6 SECTION 3.51

QTY: 3

Located in the right side compartment #6 as follows:

One (1) adjustable shelf with a 2 inch lip. Top mounted

Two (2) adjustable shelves with a 1 inch lip. Mid mounted

448. ADJUSTABLE SHELF(S) LOCATED R-7 SECTION 3.51

QTY: 1

Located in the right side compartment #7. NOTE: The shelf shall have a 1" lip.

449. ADJUSTABLE SHELF(S) LOCATED REAR COMPARTMENT SECTION 3.51

QTY: 1

Located in the rear compartment

450. 250# FLOOR MOUNTED PULL OUT TRAY SECTION 3.52

QTY: 1

The slide out floor mounted pull out tray shall be constructed of 3/16" brush finish aluminum with 2" lip/edge, and side supports attached to #250 rated slides. The slide out floor mounted pull out tray shall have gas shocks to hold the tray in and out.

The slide out floor mounted pull out tray shall be provided in the L-7 compartment.

451. 250# FLOOR MOUNTED PULL OUT TRAY SECTION 3.52

QTY: 1

The slide out floor mounted pull out tray shall be constructed of 3/16" brush finish aluminum with 2" lip/edge, and side supports attached to #250 rated LOCK-IN/LOCK-OUT LOCKING SLIDES.

The slide out floor mounted pull out tray shall be provided in the T-4 compartment (located at the rear of the body) and shall be designed to be as deep as possible. **No pneumatic struts shall be provided.** This tray is to be used by firefighters as a work station for rebuilding chain saws.

452. 500#, FLOOR MOUNTED, ROLLOUT TRAY 100% - RESCUE SECTION 3.52

QTY: 1

500 POUND FLOOR MOUNTED ROLL OUT TRAYS SHALL BE SLIDE MASTER BRAND. EACH TRAY SHALL BE HELD OPEN AND CLOSED WITH A MANUAL 1/4 TURN RELEASE (TURN LOCK). Floor mounted roll-out trays shall consist of heavy duty, roller bearing slide tracks with a load rating of 500 pounds, securely fastened to the compartment floor. The tray shall be fabricated from 3/16" brushed aluminum with a minimum 2" high flange on each of the four sides to assist in retaining the equipment stored on each tray. The slide tracks shall have a 100% extension, allowing the tray to extend out of the compartment completely.

The 500 pound floor mounted roll out trays shall be as indicated at each compartment description.

453. ROLLOUT TRAY, LOCATED R-3 - 100% SECTION 3.52

QTY: 2

Located in the right side compartment #3 as follows:

An upper located 60 inch deep pull out tray with 6 inch high lips.

A floor mounted 70 inch deep pull out tray with 4 inch high lips.

454. ROLLOUT TRAY, LOCATED R-4 - 100% SECTION 3.52

QTY: 2

Located in the right side compartment #4 as follows:

A top mounted 70 inch deep pull out tray with 2 inch high lips.

A floor mounted 70 inch deep pull out tray with 4 inch high lips.

455. ROLLOUT TRAY, LOCATED R-5 - 100% SECTION 3.52

QTY: 1

Located in the right side compartment #5. **NOTE: This shall be a floor mounted 70 inch deep pull out tray with 4 inch high lips.**

456. ROLLOUT TRAY, LOCATED R-6 - 100% SECTION 3.52

QTY: 1

Located in the right side compartment #6 and mounted as follows:

The floor mounted pull out tray shall be located under the frame with 6 inch high edges (right, rear, left), but no lip on the front/Officers side. Gas shock. Accessed from the Officers side only.

***Tray approx. 36" x 36".**

457. ROLLOUT TRAY, LOCATED R-8 - 100% SECTION 3.52

QTY: 1

Located in the right side compartment #8 and shall have 2" high edges.

458. DRI-DEK MATERIAL ON ALL COMPARTMENT FLOORS SECTION 3.49

QTY: 1

Dri-Dek brand floor material shall be installed on all compartment floors.

The Dri-Dek shall be custom installed to provide full floor coverage.

459. FLOORING MATERIAL ON SHELF(S) OR TRAY(S) SECTION 3.49

QTY: 32

Floor matting material shall be provided on the noted quantity of specified shelves or roll-out trays.

460. FLOORING MATERIAL COLOR (BLACK IS DEFAULT) SECTION 3.49

QTY: 1

The compartment flooring color shall be black.

461. YELLOW FLOOR EDGING SECTION 3.49

QTY: 1

All compartment floor tile shall have a beveled/ramped edge at the door opening as provided by Dri-Dek.

462. PIKE POLE TUBE(S) AERIALS SECTION 3.55

QTY: 1

Fourteen (14) pike pole tube(s) shall be provided. Each shall be an individual tube type holder, mounted in the ladder storage area (if space allows). Each pike pole holder shall be labeled to indicate the pike pole length.

463. TILLER TRAILER FRAME ASSEMBLY, 101' LADDER SECTION 3.1

QTY: 1

The trailer frame shall be of welded steel construction and gooseneck design.

The gooseneck area shall be constructed using tube and plate. This area of the trailer frame shall have a section modulus of 1172.6 in³ and a resistance to bending moment of 8,375,714 in-lb.

The rearward portion of the trailer frame shall be constructed, using "C" channel and plate. The section of frame from the gooseneck to the axle shall have a section modulus of 376.3 in³ and a resistance to bending moment of 4,038,366 in-lb.

The tube and plate gooseneck area shall be 48" wide and 14" deep. The "C" channel and plate portion of the frame shall be 34" wide and 11-1/4" deep.

464. TILLER TRAILER WHEELBASE - 343" SECTION 2.205

QTY: 1

The trailer shall be designed to provide maximum compartment space and shortest possible overall length utilizing a trailer wheelbase of 343".

465. TRAILER, STEERING AXLE, MERITOR MFS-20-133A-N, 23,000 SECTION 3.1

QTY: 1

The trailer axle shall be a Meritor MFS-20-133 A-N, includes low friction "Easy Steer" bushing technology for maximum steering ease and longer life. The axle shall be rated at 23,000 lbs.

466. TRAILER, MERITOR STEER AXLE EX-225 DISK BRAKES SECTION 3.1

QTY: 1

Meritor EX-225, 17" disk brakes shall be provided for the trailer steering axle.

Automatic slack adjusters are provided as standard equipment.

The trailer brakes shall be plumbed to the tractor parking brake control in the tractor cab within easy reach of the tractor driver's seating position.

An on indicator light shall be installed in the tractor cab dash adjacent to the control.

The trailer air brake system shall be equipped with two (2) air tanks with the capacity of 3,566 cu. in.

467. TILLER TRAILER, STEERING AXLE POLISHED ALUMINUM WHEELS SECTION 3.1

QTY: 1

The trailer wheels shall be 22.50 x 13", hub piloted polished aluminum disc.

The wheels shall have an 11-1/2" diameter bolt circle with ten (10) holes.

Chrome plated hub and nut covers shall be provided on each trailer wheel.

468. TRACTOR STEP COMPARTMENT CL3 & CR3 SECTION 2.153

QTY: 1

The fenders shall incorporate an aluminum tread plate compartment, one (1) each side forward of the wheel well, which shall also serve as step. The driver's side compartment shall be compartment CL3 and the officer's side shall be compartment CR3

The compartment will measure approximately 18" high x 14" deep x 26" wide. Depending on the type of rear suspension, the rear way of this compartment may be notch to accommodate the suspension mounts. The compartment shall be equipped with an aluminum tread plate door that shall be equipped with a stainless steel hinge and "D" ring automotive latch.

469. TILLER TRAILER, OIL SEAL FOR TRAILER STEERING AXLE

QTY: 1

Premium oil seals with viewer glass shall be provided on the trailer steering axle.

470. TILLER TRAILER, CONTINENTAL 425/65R22.5 L 22,800# HTR2 HIGHWAY - 68MPH SECTION 2.103

QTY: 1

The trailer tires shall be Continental 425/65R22.5 "20 Ply" tubeless radial HTR2 wide base highway tread.

The tires shall be fire service rated up to 22,800 lbs. and shall have a top speed of 68 mph when inflated to 120 psi.

471. TIRE PRESSURE MONITORING - VALVE STEM CAPS - TDA TIRES SECTION 2.107

QTY: 1

Each tire shall be equipped with an air pressure indicator cap on the valve stem.

Each cap shall have a visual indicator to show if the tire is correctly inflated.

472. TILLER TRAILER, STEERING SYSTEM, ROSS TA-70 SECTION 3.1

QTY: 1

The trailer steering gear shall be Ross TAS integral power steering gear box.

Steering wheel shall be vinyl padded, minimum 18" diameter.

Steering column shall have tilting and telescoping capabilities.

473. TILLER TRAILER, STEERING PUMP - PIGGYBACK ON MAIN AERIAL PUMP SECTION 3.1

QTY: 1

The trailer hydraulic steering pump shall be a Parker gear pump that shall be piggybacked on the main aerial hydraulic pump.

The steering pump shall be plumbed to the aerial hydraulic reservoir.

474. TILLER TRAILER, 100' & 101' LADDER, FIFTH WHEEL PIVOT SECTION 3.1

QTY: 1

The fifth wheel shall be a monorace bearing, 3.38 x 40.8 diameter, with the mounting plate bolted to the chassis.

The longitudinal pivot point mounting shall utilize two (2) 2-3/4" diameter steel pins.

Grease fittings shall be provided in two (2) locations on the bearing.

Due to the high load and wear on the trailer pivot points, the pin journals in the trailer gooseneck shall be designed to provide bearing surfaces utilizing ToughMet® 3 AT110 Temper Plate high strength alloy bearing material.

The journals shall have minimum yield strength of 110,000 psi.

Both upper and lower surfaces mated to the bearing shall be milled to provide a true bearing plate.

There will be no exceptions.

To reduce flexing between the tractor and trailer during aerial operation, a trailer lock-out system shall be provided.

The lock out system shall consist of four (4) stainless steel pins that are lowered into position by the operator during the aerial outrigger setup.

475. TILLER TRAILER, SUSPENSION, RIDEWELL RAS-227 AIR R SECTION 3.1

QTY: 1

The trailer suspension shall be a Ridewell Model RAS-227 air ride suspension system.

The suspension shall have a capacity at ground equal to that of the trailer steer axle.

Heavy duty shock absorbers shall be installed on the trailer suspension.

476. TILLER CAB, GENERAL DESCRIPTION SECTION 3.2

QTY: 1

A permanently mounted tiller cab shall be provided on top of the trailer, to the rear of the aerial ladder.

The minimum width of the cab shall be 42" to provided adequate room and improve visibility for the tiller driver.

The tiller cab shall be constructed from a combination of 3/16" and 1/8" 5052 and 6063 aluminum and shall be painted to match the body.

The tiller cab shall be designed and tested to meet NFPA 1901 roof loading standards.

477. TILLER CAB, INTERIOR SECTION 3.2

QTY: 1

The floor of the tiller cab compartment shall be covered with aluminum tread plate.

The dash and headliner shall be padded and upholstered to reduce noise level.

478. TILLER CAB INTERIOR PAINT SECTION 3.2

QTY: 1

The structure and interior surfaces of the cab {will/shall} be painted with Black Line-X to match the cab interior.

479. TILLER CAB SEAT, USSC SECTION 3.2

QTY: 1

Tiller driver's seat shall be non-air ride with adjustable fore/aft seat base. USSC seat, I back ABTS with Ready Reach seat belt holder.

480. USSC SEATING MATERIAL - BLACK CORDURA SECTION 3.2

QTY: 1

The seats shall be upholstered with Black Cordura material with red top stitching as provided by USSC.

All seating shall have "quick removal" covers.

481. TILLER CAB SEAT, RED LAP SEAT BELT SECTION 3.2

QTY: 1

A lap seat belt shall be provided for the Tillerman seating position.

The seat belt assembly shall be mounted to the seat frame and the tiller cab framework.

The color of the seat belt shall be red.

482. TILLER CAB WIND/GLASS, "NO POST VISION", SLIDING DOORS SECTION 3.5

QTY: 1

The front windshield of the tiller cab shall be a 740 in². flat, single piece of tinted automotive industry approved safety glass.

The front windshield shall be designed with a "No Post Vision" seamless joint between the front and side viewing windows, requiring no corner post which shall obstruct the visibility of the driver.

Two (2) rear viewing corner windows shall be provided in each rear corner of the tiller cab.

The rear corner windows shall provide a clear view for the tiller driver when looking over his shoulder at the rear corners of the tiller body.

The rear corner windows shall be designed with a "No Post Vision" seamless joint between the rear and side viewing windows, requiring no corner post which shall obstruct the visibility of the driver.

One (1) horizontally split sliding rear window assembly shall be provided on the back of the tiller cab.

483. TILLER CAB, WINDSHIELD WIPERS, SINGLE PANOGRAPHIC SECTION 3.5

QTY: 1

A single electrically operated, pantographic, wet arm, self-parking windshield wiper shall be installed on the front center of the tiller cab.

The Tillerman shall be able to control wiper state (ON/OFF), speed (LOW /HI), and intermittent delay time (DLY) as well as washer pump (ON) from clearly labeled switches on the overhead panel.

A 3/4 gallon washer fluid reservoir shall be readily accessible in the tiller cab.

There shall be a removable panel on the front face of the cab for access to the wiper motor assembly.

There will be no exceptions.

484. TILLER CAB, STEERING WHEEL/COLUMN SECTION 3.6

QTY: 1

The tiller steering wheel shall be vinyl padded, minimum 18" diameter, with a center hub mounted horn button.

There shall be a self-canceling, directional signal lever and a traffic hazard switch on the steering column.

The steering column shall have tilting and telescoping capability to provide increase comfort and visibility for the Tillerman.

485. TILLER CAB, STEERING WHEEL POSITION INDICATOR SECTION 3.16

QTY: 1

The tiller steering wheel shall have a rudder position indicator to confirm orientation of the trailer steering position.

The gauge shall be located in the tiller cab dash panel.

486. TILLER CAB, PADDED SUNVISOR

QTY: 1

A 19.5" x 7.5" vinyl covered, padded sun visor shall be provided for the front windshield.

The visor shall be double hinged for a wider range of sun screening.

487. KICK PANEL

QTY: 1

Install a 4" high, polished stainless steel kick plate on the sides, doors and front of the tiller cab.

488. TILLER CAB, TWO (2) SALEM SERIES MANUAL VENTS, REAR OF CAB

QTY: 1

Two (2) Salem series, two-way, hinge less air vents shall be provided on the rear of the tiller cab, one (1) each side.

The vents shall be flush mounted below the windshield and painted to match the color of the tiller cab.

489. TILLER CAB, ALUMINUM KNURLED GRAB RAILS, EACH SIDE, LIGHTED, RED INSERT SECTION 3.17, 3.18

QTY: 1

Two (2) 1-1/4" diameter x full height, knurled, bright anodized aluminum grab rails shall be provided, located one (1) at each tiller cab door entrance.

Grab rail stanchions shall be chrome plated and of an offset design, when necessary, to prevent "hand-pinching" when opening or closing the doors.

Each grab rail shall have white LED lights that shall be wired to the DOT marker lights and interlocked to illuminate when the parking brake is applied.

Each handrail shall have two (2) red diamond grade reflective strips.

Formed rubber gaskets shall be provided between each stanchion base and the cab surface.

490. TILLER CAB, VELVAC # 708164-5, 6-1/2" X 6" CONVEX SECTION 3.15

QTY: 1

Two (2) Velvac # 708164-5, 6 1/2" x 6" convex mirrors shall be provided and mounted on the exterior of the cab.

The mirrors shall be attached to adjustable arms and shall be mounted and located at final inspection.

491. TILLER CAB, GROTE 6" CONVEX MIRROR ON BODY FORWARD SECTION 3.15

QTY: 1

Two (2) Grote #28043, 6" convex mirrors shall be provided and mounted on the top body edge forward of the tiller cab.

The mirrors shall be attached to adjustable arms and shall be located and mounted during the final inspection.

492. TILLER CAB, SLIDING DOORS SECTION 3.3

QTY: 1

The tiller cab shall be equipped with sliding doors for access to the cab.

The tiller cab door opening shall be a minimum of 36-3/4" W x 47-5/8" H.

The slides for the doors shall be a heavy duty ball bearing design.

The tiller cab doors shall have drop down (vertically) sliding type windows to provide greater ventilation of the tiller cab.

Each window shall be 37-7/8" H x 28" W.

The doors shall be capable of being latched in the open and closed positions.

The tiller cab doors shall be wired to the "Door Open Indicator" of the tractor cab with an override switch for training.

493. TILLER CAB, INSTRUMENT & SWITCH PANEL SECTION 3.2

QTY: 1

A switch panel shall be installed in the Tillerman cab forward of the steering wheel.

The switch panel shall be provided with illuminated rocker switches to enable the Tillerman to turn on/off the under body lights, the step lights and any other specified lights.

494. TILLER CAB, TURNSIGNAL INDICATORS, WELDON #9186-15 SECTION 3.7

QTY: 1

Two (2) Weldon, model #9186-1500-20, amber LED, left and right turn signal indicator lights shall be mounted on cab dash frame on each side of the steering column.

The lights shall alert the Tillerman of the tractor driver's intent.

495. TILLER CAB, WELDON 8080-8000-13 WHITE/RED LED INTE SECTION 4.33

QTY: 1

A combination red/white LED dome light shall be furnished in the tiller cab. The light shall be Weldon model # 8080-8000-13, LED with euro style switch. The dome light shall have an integral selector switch. The dome light shall also activate when the either tiller cab door is opened.

496. TRACTOR ALIGNMENT LIGHT ON TRACTOR CAB ROOF SECTION 4.34

QTY: 1

An amber surface mounted light shall be provided and mounted at the center rear of the antenna array/rear of the roof mounted HVAC. The light must be visible to the rear for the Tillerman to use for alignment.

497. TILLER CAB, DRIVE DISABLE SYSTEM - TILLER CAB STEERING COLUMN SECTION 3.8

QTY: 1

To not allow the transmission to be shifted without a Tillerman seated in the tiller cab, a safety drive system shall be provided between the tractor cab and the tiller cab.

One (1) Linemaster #491-S foot switches shall be floor mounted on the officer's side of the tiller cab floor, and shall serve as a momentary contact switch, which must be activated in conjunction with shifting the transmission in the tractor cab.

The system shall reset with park brake activation. *Note; this system will allow for the tractor driver to start the engine, but the transmission will not shift out of neutral until the tiller driver is depressing the floor mounted switch.

498. TILLER CAB, BUZZER SECTION 3.9

QTY: 1

A buzzer warning system shall be provided between the tractor and tiller cabs.

The tiller cab buzzer shall be activated through a dash mounted switch in the tractor, and the Tillerman's steering wheel center horn push button activator.

The buzzer controls shall be labeled: 1-Stop, 2-Go, 3-Backup.

499. JACK KNIFE ALARM SECTION 2.187

QTY: 1

An audible and visual warning system to alert both the driver and tiller operator when the tractor and trailer approaches the maximum allowable "jackknife" angle. Warning system, audible and visual warning devices to be as per previous units.

The "jack knife" alarm will be silenced whenever the park brake is set.

500. TILLER CAB, HEATER - BUS AIR 12VDC - 1100 BTU SECTION 3.11

QTY: 1

A Bus Air 12 VDC, 1100 BTU, 450 cfm, electric controlled combination heater/defroster shall be furnished for the tiller cab.

The heater shall be mounted under the dash with an outlet vent on each side of the dash.

Controls shall will be provided on the tiller cab dash panel.

501. TILLER CAB, TWO (2) ACC CLIMATE CONTROL 12-VOLT DEFOGGER FANS SECTION 3.11

QTY: 1

Two (2), six (6) inch ACC Climate Control defogger fans shall be provided for the tiller cab windshield.

They shall be located with one (1) at each forward corner of the cab overhead.

502. BERGSTROM AUXILIARY AC TILLER CAB SECTION 3.11

QTY: 1

A Bergstrom Model # BSP00029AC12 12-volt. The system shall consist of one (1) air conditioning roof mounted on top of the tiller cab. The cover of the air conditioning unit shall be painted red (job/body color). An IOTA #DLS-75-X converter to convert 110 volt power to 12 volt power for the aux AC system will be provided. The system shall be powered through the blue shoreline power auto eject. The system shall be managed through the load manager to shut down auxiliary AC system in the event that the battery power drops below recommended levels. Note: This electrical system shall feed both the cab mounted and the tiller cab mounted auxiliary AC systems. (Note: The custom cab mounted AC unit is located in the custom cab area of the specification.)

503. 101' TILLER LADDER

QTY: 1

504. 101' LADDER, TILLER GEN, INTENT & DESIGN STANDARDS SECTION 3.78, 3.85, 3.86, 3.87, 3.88, 3.89, 3.90

QTY: 1

The aerial ladder assembly shall be a four (4) section telescoping ladder constructed from high strength steel alloy, pre-piped waterway (if applicable), steel turntable, and outriggers.

The intent of these specifications is to describe a telescoping elevating ladder.

It shall consist of the true steel truss ladder type.

The aerial ladder consists of four (4) steel ladder sections, a steel turntable, and two (2) outriggers.

The height of the unit is 101' and the horizontal reach is 94'.

The device shall meet all the requirements of the National Fire Protection Association's (NFPA) 1901 standard, in effect at time of purchase.

This is a fire service proven piece of apparatus that shall be manufactured in the U.S.A.

Ladders attached to booms, whether solid or lattice, or articulating arms shall not be considered as meeting these specifications or the intent of these specifications.

The design criteria of the unit shall be to create a structure and system that emphasizes safety, product reliability, and ease of operation.

These criteria are:

The hydraulic system shall be designed so that if a failure of any component or assembly within the system occurs, a single point failure of the entire system shall not occur.

The minimum ultimate design condition at the ladder base shall be 6.8 million inch pounds.

All structure load supporting elements of the aerial ladder that are made of a ductile material, shall have a design stress of not more than 50 % of the minimum yield strength of the material based on the combination of the live load and the dead load.

This 2.5:1 structural safety factor meets the current National Fire Protection Association (NFPA) 901 standard.

Attachment: FPARC-07057-002-0524 KME 101' TDA FINAL Quote [Revision 1] (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER

Design verification shall be accomplished with comprehensive Finite Element Analysis (FEA) and verified with extensive strain gage testing.

An independent engineering firm employing a Registered Professional Engineer shall verify the aerial safety factor.

The aerial device shall be capable of sustaining a static load one and one-half times it's rated tip load capacity (live load), in every position in which the aerial device can be placed when the vehicle is on a firm and level surface.

The aerial device shall be capable of sustaining a static load one and one-third times it's rated tip load capacity (live load) in every position in which the aerial devices can be placed when the vehicle is on a slope of five degrees downward in the direction most likely to cause overturning.

All welds in the aerial device shall be designed per the static and fatigue criteria of the American Welding Society No. D1.1.

All aluminum welds shall be designed per the static and fatigue criteria of the American Welding Society Standard No. D1.2.

To optimize strength versus weight, high strength steel shall be utilized for the construction of the aerial device

The aerial device shall be capable of operating with a rated tip load in the following conditions:

Conditions of high wind up to 50 mph.

Conditions of icing, up to a coating of 1/4" over the entire aerial structure.

All of the design criteria will be supported by the following information:

Strain gauge testing of the complete aerial device.

Analysis of deflection data taken while the aerial device was under test load.

Accelerometer test to determine dynamic response during ladder operation.

Accelerometer test to determine dynamic response during road travel.

Material fracture mechanics testing.

Weld fracture mechanics testing.

Hydraulic component operating and burst strength testing.

505. MOUNTING OF AERIAL, TILLERS

QTY: 1

The elevating aerial ladder turntable shall be tiller mounted thus providing the following vehicle benefits:

Improved mobility vs. rear and mid ship mounted units.

Greater positioning ability of the turntable for optimum reach at fire ground operations.

Increased compartmentation and ladder storage.

506. HEIGHT AND REACH, 101' TILLER SECTION 3.89

QTY: 1

The height of the unit shall be a minimum of 101' as measured by NFPA-1901 requirements, Section 19.2.2, which states, "The rated vertical height of an aerial ladder shall be at least 50 ft and shall be measured in a vertical plane with the ladder at maximum elevation and extension from the outermost rung of the outermost fly section to the ground."

The horizontal reach of the unit shall be a minimum of 94' as measured by NFPA-1901 requirements, Section 19.2.3, which states, "The rated horizontal reach of an aerial ladder shall be measured in a horizontal plane from the centerline of the turntable rotation to the outermost rung on the outermost fly section with the aerial ladder extended to its maximum horizontal reach."

507. MATERIAL STANDARDS, ALL DEVICES

QTY: 1

The following standards for materials are to be used in the design of the aerial device.

Materials are to be certified by the mill that manufactured the material.

Materials that are certified or recertified by vendors other than the mill shall not be accepted.

Material testing that is performed after the mill test shall be only for verification and not with the intent of "paper changing" the material classification.

508. 100' & 101' LADDER, TILLER. HYDRAULIC SYSTEM SECTION 3.132

QTY: 1

The hydraulic system shall provide power to the entire aerial device as efficient as possible without the use of a hydraulic cooler.

There will be no exceptions.

A hydraulic system relief valve as well as individual circuit relief valves shall be provided to prevent damage to any function or circuit.

The relief valve shall have a stain-less steel relief spring to ensure proper function and product reliability.

509. PARKER HOSE KIT - 2 JACK UNIT TDA SECTION 3.132

QTY: 1

All hydraulic steel tubing, hydraulic rubber covered wire braided hoses, and hydraulic fittings/adapters shall have a minimum burst pressure rating of four times the operating pressure. Hoses and tubing shall be properly sized to minimize heat buildup during extended periods of operation. Hoses and tubing shall be properly sized to minimize flow restrictions.

All hydraulic hose shall have a tube and cover constructed of synthetic rubber and shall have a braided/spiral wire reinforcement capable of maintaining a 4:1 safety factor in all areas of the hydraulic system. The hose shall meet the appropriate SAE performance specifications: 100R2, 100R19, J517, J1942, ISO 3862-1, USCG HF, DNV,ABS or 100R12.

The connector system was jointly designed by engineers from both the manufacturer and Parker Hannifin and incorporate the following design upgrades and advantages:

All hydraulic ports (manifolds, pumps, tank, etc) to elastomeric sealing technology

No pipe threads in the hydraulic system

Sealing to be done by O-rings with the mechanical holding power of straight threads

All tube and hose connections to Parker Seal-Lok, O-ring face seal technology

Sealing to be done by O-ring with the mechanical holding power of straight thread fittings rated up to 6000 psi

Drop-in design of Seal-Lok connectors to allow easier maintenance and assembly

Fittings resist 200% over torque, with optimum vibration resistance.

Shaped fittings machined from forged bodies for compact design and strength

Fittings meet/exceed the performance and dimensional requirements of SAE J1453 and J1926

Minimized unnecessary fittings and adapters, streamlining the system

Increased connector accessibility, making assembly and maintenance easier

Standardized the connector system on the aerial unit

Incorporated pressure diagnostic system with Parker PD diagnostic test points into the connector design

All fluid connector assemblers have been trained and certified in Dry Technology.

This training included: proper handling, installation, torque requirements, troubleshooting, and quality control procedures of the fluid connector products.

An exclusive three-year leak free guarantee shall warrant the Seal-Lok, O-ring face seal connections to be leak-free for a period of three (3) years.

510. HYDRAULIC PUMP - PRESSURE COMPENSATED (TDA) SECTION 3.130

QTY: 1

A load sense pressure compensated hydraulic axial piston pump shall be provided which shall be capable of operating under any rated platform load condition and aerial device position at normal engine idle or governor controlled fast idle.

The hydraulic pump shall be capable of generating sufficient flows to allow multiple aerial functions without significant loss of speed.

511. HYDRAULIC RESERVOIR-TDA SECTION 3.132

QTY: 1

A hydraulic oil reservoir shall be provided to supply the needs of the hydraulic system.

A 2" gated suction line shall be provided between the oil reservoir and the hydraulic pump.

The tank fill shall be provided with a strainer screen and vent cap.

Located near the fill cap shall be a dip-stick for checking fluid levels.

The tank shall be mounted in behind the cab on the tractor.

Before adding fluid the tank must be cleaned and free from all contaminants.

Suction and return ports will be designed to SAE Straight Thread O-ring Specifications. These ports will incorporate an O-ring seal rather than pipe threads.

512. HYDRAULIC OIL - REGULAR - A/W 46 - 60 GALLON SECTION 3.132

QTY: 1

The hydraulic oil reservoir shall be filled with A/W 46 grade Hydraulic Oil.

This oil provides superior anti wear properties, and is specially formulated with improved thermally stable additives.

These oils offer outstanding resistance to sludge formation, are chemically stable and exhibit excellent anti wear protection.

513. MAGNETIC DISKS IN BOTTOM OF HYDRAULIC RESERVOIR SECTION 3.132

QTY: 1

A six (6) disc type magnetic drains shall also be provided to collect any ferrous contaminants.

514. ELECTRONIC LEVEL GAUGE FOR HYDRAULIC RESERVOIR SECTION 3.133

QTY: 1

An electronic oil level sensor in the reservoir shall provide an indication of oil level on a gauge mounted adjacent to the hydraulic oil tank.

515. DIVERTER VALVE, TDA SECTION 3.126

QTY: 1

There shall be an automatic electric over hydraulic three (3) position diverter valve located at the left side of the apparatus.

This diverter valve shall divert hydraulic fluid to either the aerial ladder controls or the outrigger controls.

To prevent accidental operation of the ladder prior to the outriggers being properly set, the diverter valve shall only allow hydraulic fluid to the outriggers until the outriggers are set properly.

To prevent accidental operation of the outrigger system during the aerial ladder operation the diverter valve shall only allow hydraulic fluid to the ladder controls, when the aerial device is raised from the aerial travel support.

In the event of electrical failure the operator shall be able to manually move the diverter valve to the ladder or outrigger position for continuous uninterrupted operation.

NOTE: All safety controls are displaced when vehicle is in manual mode of operation.

516. MAUNAL OUTRIGGER HYDRAULIC CONTROL VALVE – TDA SECTION 3.125

QTY: 1

The outrigger cylinder system shall be controlled by a pressure compensated control valve that is designed for parallel hydraulic circuit operations.

This valve shall be modular in design so that individual sections can be replaced in the field, rather than complete valve assemblies, thus reducing maintenance costs.

The valve housings shall be made of high tensile cast iron for durability and the individual spools shall be hard, chrome plated for long life and resistance to corrosion.

Each valve shall be equipped with mechanical handles of ease in override operations.

The mechanical handles shall be equipped with large knobs with integral labels inside each knob indicating the function of the handle.

517. MANUAL TURNTABLE HYDRAULIC CONTROL VALVE, TDA LADDER SECTION 3.127

QTY: 1

The lift, extension, and rotation systems shall be controlled by a pressure compensated, proportional control valve.

This valve shall be of a modular construction that simplifies troubleshooting, minimizes downtime, and simplifies field service.

The main control valve shall be positioned at the turntable control console for direct manual control of each aerial function.

Use of electrical controls at the main turntable control console shall not be acceptable.

518. MAUNAL OUTRIGGER HYDRAULIC CONTROL VALVE – TDA SECTION 3.125

QTY: 1

The outrigger cylinder system shall be controlled by a pressure compensated control valve that is designed for parallel hydraulic circuit operations.

This valve shall be modular in design so that individual sections can be replaced in the field, rather than complete valve assemblies, thus reducing maintenance costs.

The valve housings shall be made of high tensile cast iron for durability and the individual spools shall be hard, chrome plated for long life and resistance to corrosion.

Each valve shall be equipped with mechanical handles of ease in override operations.

The mechanical handles shall be equipped with large knobs with integral labels inside each knob indicating the function of the handle.

Clarification; The manual handles for the outriggers and 5th wheel will be oriented as follows, working from left to right

Drivers side beam

Officers side beam

Drivers side jack

Officers side jack

5th wheel lock.

***This configuration matches the customers current KME TDAs**

519. HYDRAULIC SYSTEM FILTRATION, TDA SECTION 3.132

QTY: 1

The pressure filter shall be made of a micro glass medium, which has the highest capture efficiency, dirt holding capacity and life expectancy over other media such as cellulose and synthetic.

The pressure filter shall have a bypass circuit protected by a check valve, which shall be installed around the pressure filter.

The pressure line filter shall be required even if a suction line filter is provided in the reservoir due to the suction line filter's inability to trap contaminates entering the system.

The pressure filter cartridge shall have a sensor, which shall indicate the condition of the filter and provide an output for a warning light or message if the pressure filter is blocked or in the bypass mode.

The pressure filter shall have an absolute rating of five (5) microns.

The return filter shall be made of a micro glass medium, which has the highest capture efficiency, dirt holding capacity and life expectancy over other media such as cellulose and synthetic.

The return filter shall have a bypass circuit protected by a check valve, which shall be installed around the return filter.

The return filter shall have a bypass circuit protected by a check valve, which shall be installed around the return filter.

The return filter cartridge shall have a sensor, which shall indicate the condition of the filter and provide an output for a warning light or message if the return filter is blocked or in the bypass mode.

The return filter shall have an absolute rating of five (5) microns.

520. 100' & 101' LADDER, TILLER, EMERG HYD. PUMP, EPU SECTION 3.138

QTY: 1

In the event of failure of the main hydraulic pump or vehicle engine, the unit shall be equipped with an emergency hydraulic pump which shall be plumbed into the hydraulic system and be electrically driven from the chassis batteries. The emergency pump system shall be capable of limited functions of the ladder and outriggers to stow the unit. The pump shall be controlled from both the outrigger control box and turntable control stations with spring loaded momentary contact switches.

The pump shall have a separate hydraulic oil supply line, from the main supply line attached directly to the hydraulic oil reservoir. A shutoff valve for each line shall be provided and check valve shall be incorporated on the pressure side of the pump to ensure that one shall continue to operate the ladder in the event the other fails.

The pump shall have high tensile steel shafts and gears with the shafts supported by needle bearings. The cylinder plate and gears shall be ground as a set to ensure exacting tolerances. Clearance shall be maintained by a Mylar shim.

521. PTO CONTROLS IN CAB FOR ALL TILLER AERIAL DEVICES SECTION 2.73

QTY: 1

The apparatus shall be equipped with a PTO driven by the chassis transmission.

The PTO shall be engaged at all times to allow for the trailer steering pump to be activated.

The PTO shall be a heavy duty pressure lubricated and cooled unit for extended operations.

A master 12 volt "Ladder Power" switch shall be provided to control of all ladder 12 volt power, with the exception of the emergency pump circuits.

An aerial hour meter shall be installed in the cab adjacent to the ladder power control switch.

The hour meter shall be wired to the aerial PTO circuit to record the amount of hours the PTO is activated.

The hour meter shall aid in scheduling preventative maintenance as outlined in the operator's manual.

522. FAST IDLE CONTROL FOR ALL AERIAL DEVICES

QTY: 1

The fast idle actuator shall be used to raise the engine RPM to a preset level for proper aerial operation.

The fast idle switches shall be located at the main outrigger control station and the aerial control station/s.

For the safety of personnel and equipment, the fast idle system shall not activate unless the transmission is in neutral.

There will be no exceptions.

523. TRACTOR DRAWN LADDER, "IQAN" MOTION CONTROL SYSTEM - MANUAL CONTROLS @ TURNTABLE SECTION 3.111, 3.112, 3.113

QTY: 1

The ladder, outrigger system and interlock systems shall be controlled with the computer operated and monitored hydraulic motion control system. The motion control system shall provide state of the art controls for the ladder, outriggers, auto-level and interlock systems as required. The motion control system must be an electro-hydraulic management system that monitors operator inputs from the control station(s) and converts this data to a usable electronic signal that controls hydraulic valve functions.

The turntable control station shall be equipped with a Master Display Module MD3. The Master Display Module MD3 shall be a completely weather proof and shock resistant microprocessor which includes a 3" x 4.5" LCD screen (referenced above). The MD3 shall contain programmed parameters for each aerial device function, which provide for proper machine operation and reduce the possibility of abusive operation. The number of wires required to connect the MD3 module and control hardware shall be kept to a minimum through the use of serial CAN-bus data transmission technology. The CAN-bus modules shall be attached to each other using just two communication wires.

Each component of the IQAN motion control system shall be proven, off the shelf modules and parts, which are available throughout the world. Proprietary hardware designs are not acceptable due to the lack of parts availability and support.

The MD3 display will have built-in troubleshooting and shall allow troubleshooting and function history monitoring for the entire motion control system. The memory function will allow a service technician to identify if these warnings were ignored or overridden.

The IQAN motion control system shall receive rotation information from an absolute encoder located on the rotation swivel. The encoder shall provide absolute position of the turntable at any given position from 0 degrees to 360 degrees of rotation.

An MD3 information center shall be provided at the turntable. The MD3 display shall allow the system to be diagnosed and calibrated without the need for separate controllers or computers.

The turntable MD3 display shall indicate the following information from on-demand screen:

524. 100' & 101' LADDER, TILLER MANUAL OUTRIGGER CONTROLS SECTION 3.125

QTY: 1

Two (2) illuminated manual outrigger control stations shall be provided on the forward section of the body to the rear of the gooseneck area, one (1) on each side of the turntable. The control handles shall be enclosed with slots for each control handle in an aluminum door. The controls shall be located such that the operator can see the outrigger he is operating.

Out and down outrigger control functions for the outriggers shall be operated independently, so that vehicle may be set up in restricted areas or on uneven terrain. The diverter valve override control shall be mounted behind the left side control panel.

A hinged outrigger control panel shall be provided at the left side of the trailer gooseneck area. The panel shall be equipped with a stainless steel hinged, which shall allow the operator to access the diverter valve manual override control and manual override controls.

The main outrigger control station shall incorporate the following:

Four (4) outrigger set indicator lights
 One (1) ladder power indicator light
 Fast idle switch
 Emergency pump control button with red indicator light
 Warning decals
 "Hydraulic Filter By-Pass" indicator light
 Hydraulic test ports

525.	<u>HYDRAULIC PUMP PRESSURE – DISPLAY</u> SECTION 3.134	QTY: 1
	Hydraulic pump pressure.	
526.	<u>ELEVATION ANGLE OF LADDER – DISPLAY</u> SECTION 3.134	QTY: 1
	Elevation angle of the ladder.	
527.	<u>HYDRAULIC PRESSURE GAUGE NEAR OUTRIGGER VALVE</u>	QTY: 1
	A Hydraulic pressure gauge shall be located near the outrigger hydraulic valve.	
528.	<u>VERTICAL HEIGHT OF LADDER – DISPLAY</u> SECTION 3.145	QTY: 1
	Continuous ladder extension percentage.	
529.	<u>DEGREE OF ROTATION FROM VEHICLE CENTERLINE - DISPLAY</u>	QTY: 1
	Degree of rotation from centerline of vehicle.	
530.	<u>E-ZONE SHORT JACK WARNING - DISPLAY</u>	QTY: 1
	E-Zone™ short jack warning.	
531.	<u>CRADLE ALIGNMENT MESSAGE - DISPLAY</u>	QTY: 1
	Cradle alignment message.	
532.	<u>DEVICE LOAD MONITORING - DISPLAY</u>	QTY: 1
	Device tip moment load monitoring.	
533.	<u>IQAN - INCLINOMETER</u>	QTY: 1
	An inclinometer shall be provided on the base section of the aerial device to measure the relative angle of the ladder.	
534.	<u>IQAN - MOMENT LOAD INDICATOR</u>	QTY: 1
	A pressure switch shall be installed on the lift cylinder to indicate the amount of lifting force being imparted onto the aerial device.	

535. WARNING MESSAGES - TURNTABLE ONLY

QTY: 1

The MD3 screen will also display warning/message screens to alert the operator to a potentially unsafe condition of the aerial device.

536. IQAN - "E-ZONE" ROTATION SAFETY SYSTEM, 2-OUTRIGGERS SECTION 3.111

QTY: 1

The E-Zone™ Rotation Safety System has been designed to aid the aerial device operator who has primary operational responsibility in preventing the rotation of the aerial device into an over turning mode.

Controlled by the IQAN system, the E-Zone™ Rotation Safety System senses outrigger extension and outrigger jack positioning in conjunction with the aerial device movement.

If the aerial device operator attempts to move the aerial device off vehicle center, and the outriggers are not fully extended on the direction of the rotation side, and all jacks in firm ground contact, the E-Zone™ Rotation Safety System shall sense this fault and shall audibly and visually warn the operator to return the aerial device to the center line position.

If the operator continues rotation into the short-jacked zone, the aerial device rotation shall stop.

When rotation is stopped, the E-Zone™ Rotation Safety System shall allow the operator to only rotate back to the fully jacked side of the vehicle.

537. IQAN - "E-ZONE" CAB & BODY PROXIMITY SYSTEM - LADDERS SECTION 3.112

QTY: 1

Controlled by the IQAN system, a cab proximity system shall be provided utilizing E-Zone™ technology on the rotation and elevation systems to alert the aerial device operator when rotating left or right at low angles and or lowering the ladder, toward the vehicle cab.

The E-Zone™ system shall also automatically stop rotation or lowering functions when the device is in the defined zone regardless of the ladder rotation degree or elevation degree. When the E-Zone™ system stops rotation towards the cab, the operator shall only be capable of rotating in the opposite direction or elevate the ladder above the defined zone.

If the E-Zone™ system stops the lowering function when the ladder is in the defined zone over the cab, the operator shall only be capable of raising or rotating the ladder away from the cab. The E-Zone™ system shall sound an audible alarm and display a warning message in the MD3 display located at the control stations. The audible and visual warning message shall stay activated until the operator moves the device from the defined zone.

Controlled by the IQAN system, a body proximity system shall be provided utilizing E-Zone™ technology on the rotation and elevation systems to alert the aerial device operator when rotating left or right at low angles and or lowering the ladder, toward the body.

The E-Zone™ system shall also automatically stop rotation or lowering functions when the device is in the defined zone regardless of the ladder rotation degree or elevation degree. When the E-Zone™ system stops rotation towards the body, the operator shall only be capable of rotating in the opposite direction or elevate the ladder above the defined zone.

If the E-Zone™ system stops the lowering function when the ladder is in the defined zone over the body, the operator shall only be capable of raising or rotating the ladder away from the body. The E-Zone™ system shall sound an audible alarm and display a warning message in the MD3 display located at the control stations. The audible and visual warning message shall stay activated until the operator moves the device from the defined zone.

538. IQAN - EXTENSION SYSTEM STRING POTENTIOMETER

QTY: 1

An extension string potentiometer shall be provided on the aerial device to measure the relative extension of the aerial device.

539. 101' LADDER, TILLER TORQUE BOX SECTION 3.114

QTY: 1

The torque box shall be steel side tubes which shall be welded together within the gooseneck of the tiller trailer.

The gooseneck shall be an integral design housing the fifth wheel bearing plate, turntable lower bearing plate and the outrigger housings creating a torque box weldment that shall transfer all aerial loads to the outrigger.

The torque box assembly shall be equipped with two (2) integral "H" type, out and down outriggers.

There shall be a 44-1/4" x 44-1/4" welded structural steel pedestal plate to support the turntable, secure the outriggers trailer gooseneck and torque box as one integral unit.

The torque box structure shall transfer all aerial loads into the outriggers, thus preventing damage to the chassis frame, trailer frame and body.

540. AERIAL TRAVEL SUPPORT, ALL DEVICES SECTION 3.100

QTY: 1

A heavy duty rest shall be provided to support the aerial in the travel position.

Stainless steel bedding plates shall be attached to the aerial base section to protect the aerial when the unit is in the travel position.

541. IQAN - OUTRIGGER STRING POTENTIOMETER - TWO (2) OUTRIGGERS

QTY: 1

An extension string potentiometer shall be provided on each outrigger to measure the relative extension of the outrigger

The potentiometer shall sense and provide a signal for full outrigger extension.

542. OUTRIGGER INTERLOCK SYSTEM & ALARM, ALL DEVICES

QTY: 1

An interlock system shall be provided between the outriggers and ladder that prevents the operation of the ladder until the operator places all jacks in the load supporting configuration. Each outrigger shall be equipped with a pressure sensitive switch that closes only when the jack is firmly in contact with the ground. Until all jack switches close, electrical power shall not be transmitted to the turntable (hence preventing ladder operation).

A guarded momentary toggle switch shall be provided at the central outrigger control station for emergency override of the interlock system. A green indicator light shall be provided on the outrigger control panel to indicate the position of the foot pad. Illumination of the indicator light indicates firm ground contact.

An outrigger deployment warning device shall be provided to warn personnel in the vicinity of the apparatus that the outriggers are in motion. Whenever an outrigger control is utilized, the device shall produce a pulsing tone, separate and distinctive from that of other audible warning systems provided on the apparatus. When the outrigger control is released to its neutral position, the signal shall cease.

A guarded momentary toggle switch will be provided for the outrigger/aerial manual over-ride system. A keyed system will not be acceptable.

543. 101' LADDER, TILLER OUTRIGGERS, 14' STANCE SECTION 3.115

QTY: 1

Two (2) double box beam "H" type out and down outriggers shall be located below the turntable to provide vehicle stability during aerial tower operation.

The outriggers shall be equipped with a 14' jack spread. There will be no exceptions.

The horizontal outrigger beam shall be fabricated from 3/8" steel side plates and 3/4" steel top and bottom plates.

Each outrigger assembly shall have 2 Nylatron slide pads with a total square area of 24 sq. in. to provide smooth operation and to extend the life of the outrigger.

The vertical jack cylinder rods shall be fully enclosed by a telescopic inner steel jack box that shall do the following:

Protect the cylinder rods against damage which may occur while on the fire ground.

Add lateral stability to the outrigger structure.

544. OUTRIGGER ORALITE - V98, RED/LIME

QTY: 1

Red/Lime Oralite V98 material in a Chevron pattern shall be furnished on both sides of the horizontal and vertical beams of the rear outriggers. This material/colors should match the rear of body chevron.

545. 101' LADDER, TILLER OUTRIGGERS - HORIZONTAL CYLINDERS SECTION 3.115, 3.118

QTY: 1

The extension of the horizontal outrigger beam shall be accomplished by a hydraulic cylinder which shall have a 3" bore and 2" rod and 38" stroke.

This cylinder shall have cushion porting to reduce shocks in stopping the cylinder at full extension and retraction.

The horizontal outrigger beam shall be fabricated from 3/8" steel side plates and 3/4" steel top and bottom plates.

546. OUTRIGGER LEVEL SIDE TO SIDE, ALL TILLER DEVICES SECTION 3.122

QTY: 1

One (1) bubble type side to side leveling device shall be provided at each outrigger control location to assist the operator aerial device setup.

These leveling devices shall be mounted on the front face of the body panel and shall be at eye level to the operator.

The leveling devices shall be color coded indicating the following conditions:

Green Safe operating zone.

Yellow Caution operating zone.

Since use of this leveling device is of a critical nature, it shall have a serialized number from its manufacturer to indicate documented quality control.

547. OUTRIGGERS NOT STOWED INDICATOR ON DASH

QTY: 1

"Outrigger(s) Extended" indicator light

548. DRIVER START OVERRIDE

QTY: 1

A switch will be provided under the dash to allow the driver to start the vehicle without a Tillerman being inside of the tiller cab.

549. 101' LADDER, TILLER OUTRIGGERS - VERTICAL CYLINDER SECTION 3.116

QTY: 1

Each jack cylinder shall have a 5" bore with a 3-3/4" rod and a 27" stroke.

The jack cylinders shall be equipped with integral (on the cylinder) holding valves, which shall hold the jack cylinder in either the stowed position or the deployed position should a hydraulic line be severed at any point within the hydraulic system.

Each jack cylinder shall also have a thermal relief system that shall prevent the cylinder fluid pressure from rising due to fluid temperature increase.

550. OVERSIZED OUTRIGGER/JACK FOOT PADS, TILLER DEVICES

QTY: 1

A permanently attached self-centering steel foot pad, 1/2" x 20.5" x 22.5" shall be provided on each vertical jack beam.

Each foot pad shall swivel longitudinal and require no adjustment during outrigger set-up.

The outrigger pad shall be attached without the use of a bearing type swivel due to maintenance required on this design.

551. LED OUTRIGGER GROUND LIGHTS SECTION 3.121

QTY: 1

One (1) adjustable, Federal Signal COM750-SQ LED ground flood light mounted under the body, to illuminate each outrigger foot pad area.

Both the flashing lights and the foot pad illumination lights shall be energized by the ladder power circuit.

552. FEDERAL SIGNAL LED LOLLIPOP LIGHTS, 2-OUTRIGGERS SECTION 3.121

QTY: 1

Two (2) Federal Signal Micro Pulse LED lights shall be mounted back to back on the inside surface of each outrigger.

Each light head shall be equipped with red LEDs and a colored lens.

553. 101' LADDER, TILLER TURNTABLE SECTION 3.95

QTY: 1

The turntable shall be a fabricated steel weldment designed for the rotation and elevation of the ladder sections.

It shall consist of the following:

A 44.25" x 48.00" x 1" machined steel bearing plate and matching top plate that shall be machined to insure proper fit to the rotation bearing.

There will be no exceptions.

554. TURNTABLE DECK - ALUMINUM TREADPLATE SECTION 3.95

QTY: 1

The turntable deck shall cover the entire turntable frame, providing a safe walking surface around the ladder.

It shall have a 1.5" downward flange on all sides.

The deck shall be constructed from aluminum tread plate to provide an anti-slip walking surface.

555. TDA NOTICE!!! TURNTABLE DECK SECTION 3.95

QTY: 1

Special attention is required for the size and position of the turntable deck to provide adequate clearance for the trailer break over angles.

Proper clearance shall be designed into any components located forward of the trailer gooseneck and trailer fifth wheel.

556. HEEL PIN STEP ON TURNTABLE, 79', 103', 109' & 123' SECTION 3.95

QTY: 1

A two (2) step aluminum tread plate access step shall be mounted near the heel of the ladder to provide easy access to the ladder from the turntable deck. The step shall cover the rotation motor and brake assembly and shall easily removable for access to the drive assembly.

557. TURNTABLE HANDRAILS, KNURLED ALUM. LIGHTED - NO INSERTS - 3 SIDES SECTION 3.95

QTY: 1

Two (2) Hansen 1-1/4" diameter, knurled, bright anodized aluminum handrails shall be provided at the rear most portion of the turntable.

Each grab rail shall have white LED lights that shall be wired to the DOT marker lights and interlocked to illuminate when the parking brake is applied.

Additional side safety handrails shall be provided as non-lighted.

The handrails shall be knurled aluminum tubing and the joining fittings shall be polished chrome plated tees and ells.

The handrails shall secure to the turntable deck with coated steel stanchions.

All rails shall be a minimum of 42" high.

Formed rubber gaskets shall be provided between each stanchion base and the turntable surface.

558. HEEL PINS - 100' & 101' TDA SECTION 3.96

QTY: 1

The turntable and ladder shall be designed with dual heel pins at the turntable/ladder pivot point.

The pins shall be solid steel extending the full width of the turntable vertical supports.

The heel pins shall be a minimum of 3" in diameter and is to be equipped with large pin journals in the ladder and turntable supports, which will reduce wear and distribute loads.

Due to the high load and wear on the ladder pivot points, the pin journals in the ladder base rail shall be designed to provide bearing surfaces utilizing ToughMet® 3 AT110 Temper Plate high strength alloy bearing material.

The journals shall have minimum yield strength of 110,000 psi.

Grease fittings shall be provided in bearing at the rear of the ladder section.

559. STAINLESS STEEL CRADLE ALIGNMENT ARROWS ON TURNTABLE SECTION 3.101

QTY: 1

Stainless steel arrows shall be provided on the turntable surface in view of the operator when standing at the turntable control station.

The arrows shall assist the operator in indicating the alignment of the aerial ladder with the ladder travel cradle.

The indicators shall be overlaid with Scotchlite material.

560. FIRE RESEARCH "MAN SAVER" BARS @ TURNTABLE OPENINGS SECTION 3.95

QTY: 1

Two (2) Fire Research model #MSA110-A34-N, "ManSaver" safety bars shall be provided at the turntable handrail opening at the rear of the turntable.

The "ManSaver" bars SHALL BE PROVIDED WITH NO VINYL PADDED COVERING that shall open in two (2) directions, in and up to provided additional safety at the turntable walking areas.

The safety bars shall be mounted to the turntable handrails with MS22 mounting brackets.

561. 101' LADDER, TILLER TURNTABLE SWIVEL SECTION 3.139, 3.140

QTY: 1

Hydraulic power to the turntable hydraulic circuits shall be provided through a three (3) port, high pressure, hydraulic swivel that permits 360 degrees of continuous turntable rotation.

Electrical power to the turntable electric circuits shall be provided by a collector ring assembly.

The collector rings shall be used for electrical ground, ladder control functions, and a 120 volt A.C. system during 360 degrees of continuous turntable rotation.

The collector ring assembly shall have a minimum of 32 circuits.

Water shall be transferred to the aerial waterway by means of a four (4) inch water swivel enabling 360 degree continuous rotation of the turntable (if applicable).

562. IQAN - SWIVEL ROTATION ENCODER

QTY: 1

The swivel shall be designed with an integral absolute encoder to provide a continuous output indicating the position of the turntable at any given time.

The encoder shall be designed to indicate position of the turntable even if power interruption occurs.

The number of degrees of rotation shall be shown in a digital readout on the MD3 display.

563. 101' LADDER, TILLER, LADDER CONSTRUCTION SECTION 3.90

QTY: 1

The elevating ladder shall consist of four (4) steel ladder sections referred to as the base section, lower mid-section, upper mid-section and fly section.

Each section will be fabricated from 100,000 psi yield ultra high strength steel.

The design and construction criteria for these ladder sections shall be:

Each section shall be fabricated using high strength steel, welded together to form a structural unit.

All welding shall be done by welders that have been certified in accordance with the American Welding Society Standard specifications #D1.1.

Each ladder section shall be constructed in an assembly fixture to ensure uniformity and interchangeability.

K-bracing at each rung shall be utilized to minimize side deflection of the ladder.

All rungs shall be 1-1/8" in diameter, spaced at 14" centers. Rungs will be round. {No Exceptions}

All rungs, K-braces, and diagonals shall be positioned so that they are continuously welded to the ladder section.

All side rails shall be protected from interior corrosion by coating the interior of the rail with a corrosion preventative film.

Ladder handrails and diagonal material are to be constructed from square or rectangular tubing, which provide a larger welding surface area where the materials are attached to each other.

564. 101' H.D. 4-SECTION TILLER, LADDER DIMENSIONS SECTION 3.92

QTY: 1

The aerial device shall be constructed with the following section dimensions:

Handrail
Height
Handrail
Width

Base Section

28-3/8"
41"

Lower Mid-Section

25-5/8"
34-1/2"

Upper Mid-Section

23-7/16"
29"

Fly Section

21-5/16"
23-1/2"

Overlap surfaces between sections:

Base to Mid-Section
78"

Lower Mid to Upper Mid-Section
78"

Upper Mid to Fly Section
78"

565. RUNG COVERS - PHOTOLUMINESCENT, ALL DEVICES SECTION 3.93

QTY: 1

Each rung shall be covered with a secure, heavy-duty, fiberglass pultrusion that incorporates an aggressive, non-slip coating.

The rung covers shall be secured to each rung utilizing a Silyl Modified Polymer (SMP) based adhesive and shall be easily replaceable should the rung cover become damaged.

Each rung shall have a minimum of 4" of photo luminescent coating in the center of the rung, two (2) 5" black sections on each side of the center photo luminescent and additional photo luminescent sections on the outside edge of each cover.

The covers shall provide an aggressive, non-slip coating and assist in providing a light source for each rung during low light conditions.

The photo luminescent coating shall remain visible for up to 20 hours after exposure to light.

The rung covers shall be covered by a ten (10) year warranty. A copy of the written warranty shall be provided.

There will be no exceptions.

566. LADDER, CABLE/HOSE/WIRE ROUTING, 101' LADDER

QTY: 1

All lines to the ladder tip shall be enclosed and protected from the turntable to the ladder tip.

All lines shall be routed through extrusions and high flex energy chain systems.

567. ROOF LADDER MOUNT WITHIN FLY SECTION; 3S-75-MM-HD SECTION 3.146

QTY: 1

There shall be a mount furnished in the fly section of the aerial ladder.

The mounts shall include an aluminum receptacle box for the heel end of the ladder and a mechanical pin lock for the roof hook end of the ladder.

568. 10' DUO-SAFETY 585A-10 ATTIC LADDER PROVIDED – FLY SECTION 5.1

QTY: 1

One (1) Duo-Safety model 585A-10; 10', aluminum, folding attic ladder shall be provided to be mounted in the roof ladder mount in the fly section. **Clarification; A folding attic ladder will be mounted within the aerial fly section. The ladder will be mounted to the driver's side of the ladder, as viewed when the aerial ladder is resting in the cradle.**

569. SPECIFIED ROOF LADDER MOUNTED ON LEFT SIDE OF FLY SECTION 3.146

QTY: 1

The specified roof ladder shall be mounted on the left side of the fly section.

570. ROOF LADDER MOUNT ON BASE SECTION; 4S-100-HD SECTION 3.147

QTY: 1

There shall be a mount furnished on the base section of the aerial ladder for a roof ladder. The mounts shall be designed to cradle the ladder with a pin to keep the ladder from sliding when the aerial device is elevated. Velcro strap shall secure the ladder in the brackets. The brackets will be painted with dark grey line-x paint.

571. 14' DUO-SAFETY 775A-14 ROOF LADDER PROVIDED – BASE SECTION 3.147, 5.1

QTY: 2

One (1) Duo-Safety model 14-775A-DR; 14', aluminum, straight roof ladder with folding hooks on both ends, shall be provided to be mounted in the roof ladder mount on the base section.

572. SPECIFIED ROOF LADDER MOUNTED ON BOTH SIDE OF BASE SECTION 3.147

QTY: 1

The specified roof ladders shall be mounted on both sides of the base section.

573. RESCUE EYELET ON LAST RUNG OF LADDER TIP SECTION 3.191

QTY: 1

Two (2) lifting eyes shall be provided at the end of the ladder fly section. Each lifting eye shall give the fire department the capabilities to tie off or lift from the ladder fly section.

The lifting eyes shall be third party tested and certified with the device for a minimum capacity of 250 pounds. The rating shall include a 2:1 safety factor.

574. STAINLESS STEEL EGRESS W/TIP SKID GUARDS SECTION 3.94

QTY: 1

The tip of the fly section be equipped with a bolt-on egress section. The egress shall extend from the end of the fly and be constructed of 1.25" round knurled stainless steel. The knurled construction shall allow for easy grip during exit and entry off and on the ladder tip. The egress shall be designed to fully support the rated capacity of the ladder. Each end of the egress base rail shall be designed with rounded "Ladder Tip Skid Guard" to prevent ladder tip hang up if the ladder slides on a building surface.

575. DUAL FOLDING STEPS @ LADDER TIP, ALL DEVICES SECTION 3.98

QTY: 1

Two (2) sets of folding steps shall be conveniently located at the end portion of the fly section. These shall be used for one person to place his feet so that he is positioned parallel to the ladder. The steps shall fold into proper position for usage and fold toward the sides of the ladder when not in use to provide adequate clearance when the ladder is being climbed. The steps shall be placed approximately 56" & 84" from the center of the last rung toward the base of the aerial.

Clarification; The folding steps within the fly section will also have a cut out to allow for the 3" hose to be used in conjunction with the clamp-on monitor.

576. RED SCOTCHLITE MATERIAL ON LAST 6' OF LADDER TIP

QTY: 1

To assist in positioning of the ladder tip, the last six (6) feet of the fly section shall be equipped with red Scotchlite material on the ladder handrails, diagonal braces and ladder base rail.

577. LADDER LEVEL INDICATOR (BASE SECTION) – LIGHTED SECTION 3.144

QTY: 1

One (1) Rieker 12 volt lighted, ladder angle indicator shall be provided on the base section of the ladder, near the turntable control console. The integrated light shall be activated with ladder power.

578. 101' LADDER, TILLER, ELEVATION SYSTEM SECTION 3.89, 3.103

QTY: 1

Two (2) double acting lift cylinders shall be attached between the turntable and the base section near the midpoint of the base section thus creating a better lifting geometry resulting in lower hydraulic operating pressures and improved load distribution on the base ladder section.

The cylinders shall function only to elevate the aerial device and not as a structural member to stabilize the ladder sideways.

The lift cylinder rods shall be attached to the base section with self-aligning swivel bearings which prevent side loading on the lift cylinders resulting in longer cylinder seal life.

They shall provide smooth precise elevation from -7 degrees below horizontal to +80 degrees above horizontal.

The lift cylinders shall have a 5-1/2" internal bore, a 3" diameter rod and 29-13/16" stroke.

The lift cylinders shall be equipped with integral (on the cylinder) holding valves which prevents the ladder from lowering should a hydraulic line be ruptured at any point within the hydraulic system.

They shall also have a manifold line with velocity fuses between the cylinders to prevent uneven cylinder lift.

They shall have both rod and piston hydraulic cushions.

These cushions shall decelerate the cylinder near the end of its stroke creating a smooth stop at full stroke.

A limit switch at the aerial travel support shall be provided to prevent operation of the outriggers once the aerial has been elevated from the nested position.

This system will prevent operation of the outriggers once the ladder has been elevated from the nested position.

579. 101' LADDER, TILLER, ROTATION SYSTEM SECTION 3.108

QTY: 1

A 41" diameter external tooth monorace bearing shall be provided for 360 degree continuous rotation of the aerial device.

The bearing shall be bolted to the turntable and bolted to the pedestal bearing plate using forty (40) 3/4" diameter SAE Grade 8 bolts to secure the bearing to the turntable and thirty three (33) 3/4" diameter SAE Grade 8 bolts to secure the bearing to the pedestal bearing plate.

Both upper and lower bearing surfaces shall be milled to ensure a true mounting surface for the rotation bearing.

580. ROTATION MOTOR AND BRAKE - 41" EXTERNAL BEARINGS SECTION 3.110

QTY: 1

A hydraulic driven planetary swing drive system shall provide smooth and precise rotation. A spring applied, hydraulically released, disc type brake shall be furnished on each gear box to provide positive braking of the turntable assembly against reactionary forces such as water and gravity.

581. SWING DRIVE ADJUSTMENT

QTY: 1

The swing drive shall be designed with an adjustable mount. This shall allow the back lash to be set at assembly and provide the ability to re-adjust as components wear. This shall prevent the need to replace rotation components that may exceed manufacturer's allowable back lash in later aerial inspections. Units that do not allow adjustment shall not be acceptable.

582. 101' LADDER, TILLER, EXTENSION/RETRACTION SYSTEM SECTION 3.104

QTY: 1

A full hydraulic powered extension and retraction system of the ladder shall be provided through dual hydraulic cylinders and cables, each capable of operating the ladder in the event of failure of one of the systems.

The extension cylinders shall have a 3.00" internal bore with a 2.00" rod. Both cylinders shall be equipped with two integral holding valves to protect both extension and retraction movement during water tower

operations or to prevent the ladder from falling should a line be severed at any point within the hydraulic system.

Cables attached to the base and mid ladder sections shall be routed over sheave wheels on the base section and cylinder sheave mount. This cable arrangement shall act as a stroke multiplier to provide full ladder extension and retraction. The sheave wheel bearings shall be maintenance free and not require external lubrication. Extension and retraction cables shall have a minimum safety factor of 5 :1 and shall be .50" diameter from the base to mid-section cable and be .375" from the base to the fly section.. The minimum ratio of the diameter of wire rope to the sheave used shall be 1:12.

583. EXTENSION CYLINDERS PAINTED LADDER PAINT COLOR SECTION 3.59, 3.6

QTY: 1

The extension cylinders shall be painted to match the color of the ladder.

584. LADDER SLIDE PADS, 100' & 101' LADDER SECTION 3.106

QTY: 1

Nylatron slide pads with a sliding coefficient of friction of .15 shall be used between the telescoping ladder sections.

Slides are required because of greater surface area for load transfer between the telescoping sections.

Slide pads shall also be used to control side play between the ladder sections.

The rear slide pads shall be held into place by a machined receiver, which is welded into the base rail of the extending sections.

Each slide pad shall be held in place with an easily removable keeper, allowing the pad to be removed from the rear of the ladder section.

To control movement side to side the receiver shall allow for adjustment of each pad.

585. LADDER, 120 VOLT ELECTRICAL SYSTEM SECTION 4.68

QTY: 1

Two (2) 120 volt 20 amp electrical circuits utilizing 12 gauge five strand electrical cable shall be provided to the tip.

Circuits shall be wired from the tip to the turntable through the collector ring assembly.

586. TWO (2) FEDERAL SIGNAL COMMANDER SECTION 4.66

QTY: 1

Two (2) Federal Signal Commander 15,000 lumens, 120 volt permanently mounted, swivel based, LED lights shall be mounted at the tip of the ladder, one on each side. The lights shall be individually switched at the light head. **In addition, the 120-volt lights located at the tip of the aerial ladder will have a "cutoff" switch located on the turntable pedestal.**

587. LADDER, 120 VOLT NEMA L5-15 AMP RECEPTACLE @ LADDER SECTION 4.68

QTY: 1

One (1) 120 volt weatherproof outlet, Nema L5-15R, twist lock type and an environmental cover shall be furnished near the end of the fly section.

588. CRADLE ILLUMINATION LIGHTS - GROTE WHITELIGHT LED SECTION 3.100

QTY: 1

Two (2) 12 volt Grote White Light 63611 LED flood lights shall be mounted near the ladder travel support to illuminate this area during night time operation.

The lights shall be wired and activated by the ladder power circuit.

589. HEEL PIN STEP LIGHTS - TECNIQ EON 3 LED LIGHTS SECTION 3.97

QTY: 1

Seven (7) polished stainless steel, TecNiq Eon 3-LED horizontal surface mounted lights shall be provided and installed with a gasket at the base of the ladder in the turntable heel pin step area.

590. TURNTABLE CONTROL CONSOLE LIGHTING - LUMA BAR LED SECTION 3.127

QTY: 1

A sealed 12" Amdor Lumabar LED H20 light shall be used to illuminate the turntable control console.

The light shall be mounted across the top of the control panel to assure proper illumination of all controls.

The light shall be wired to the ladder power circuit.

591. TURNTABLE CONSOLE STEP LIGHT - TECNIQ EON 3 LED SECTION 3.97

QTY: 1

One (1) polished stainless steel, TecNiq Eon 3-LED horizontal surface mounted lights shall be provided and installed with a gasket at the front face of the turntable console facing the operator, to illuminate the step area in front of the control console.

The light shall be mounted no lower than 18" from the step deck.

592. TWO (2) FEDERAL SIGNAL LED LIGHTS @ LADDER BASE SECTION 3.97

QTY: 1

Two (2) Federal Signal 1220-SQ LED lights shall be mounted at the rear of the base ladder section, one on each handrail.

593. TWO (2) FEDERAL SIGNAL LED FLOOD LIGHTS @ LADDER TIP SECTION 3.99

QTY: 1

Two (2) Federal Signal Model COM1200-SQ LED floodlights shall be mounted near the tip of the ladder, one on each side.

594. LADDER WALKWAY ILLUMINATION LIGHTS, 4-SECT LADDER SECTION 4.69

QTY: 1

Both side of the ladder sections shall be equipped with the Luma Bar Pathfinder™ aerial illumination system. This system shall illuminate the rungs of the ladder to support night time operations. The Luma Bar Pathfinder™ system shall consist of a continuous path of Blue LED lights spaced every ¾" which shall offer a minimum viewing angle of 120 degrees. The assembly shall be encapsulated within an enclosure which is resistant to UV and ozone and shall be terminated using sealed end caps with RTV silicone.

The complete assembly shall offer a minimum water proof rating of IP68. This sealed enclosure shall be mounted within a clear anodized aluminum C-channel on the inside of the rung base rail, on each ladder section. The Luma Bar Pathfinder™ assembly shall incorporate a UV stabilized high impact polycarbonate shield which is integral to the supplied aluminum C-channel. The Luma Bar Pathfinder™ system shall be wired to the ladder power circuit with a disabling switch at the turntable control console.

595. CUTOFF SWITCH FOR LADDER TIP 12 VOLT LIGHTS @ LOWER CONTROL SECTION 3.127

QTY: 1

A switch shall be provided at the lower control console for the 12 volt light(s) located at the ladder tip.

The switch shall be wired to the light circuit to give the operator the capability to shut down the lights if the switch on the light head is in the on position.

596. BASE SECTION LIGHTS SWITCHES @ TURNTABLE CONSOLE SECTION 3.127

QTY: 1

One (1) switch shall be provided at the turntable control console for the base aerial section lighting.

597. LADDER, CONTROL STATION SECTION 3.127

QTY: 1

There shall be a control station at the turntable.

All elevation, extension and rotation operational controls shall operate from this position.

These controls shall be arranged to permit the operator to regulate the speed of these operations within the safe limits as determined by the manufacturer.

Load instruction plates shall be located at the control station to show the recommended safe load of the ladder.

The control devices shall be clearly marked and suitably lighted.

598. TDA LADDERS, CONSOLE LOCATED @ RH SIDE OF TURNTABLE SECTION 3.127

QTY: 1

The turntable control station shall be located on the right side of the turntable such that the operator can easily observe the ladder tip while operating the controls.

599. PAINTED ALUMINUM TURNTABLE CONSOLE - MATCH LADDER SECTION 3.59, 3.60

QTY: 1

The control console shall be manufactured from aluminum material and designed to support the components mounted in and on the console.

The console shall be painted to match the ladder structure.

600. 101' LADDER, TILLER TURNTABLE CONTROL STATION SECTION 3.127

QTY: 1

The lower part of the console shall be angled away from the operator, to provide as much foot room as possible for the operator.

An access door shall be provided on the front of the console to provide complete access to the electrical and hydraulic components mounted inside the console.

The console shall be illuminated for night operations, and shall have the following controls/indicators:

The following items shall be clearly marked:

Three (3) ladder control levers.

A foot operated "dead man switch". That electrically opens the aerial control valve shall protect against accidental movement of the control handles.

Master electrical power switch with emergency shutdown capabilities.

Rung alignment indicator light for ladder climbing operations.

Cradle alignment indicator light.

Engine fast idle control switch.

Emergency pump power switch.

5,000 psi hydraulic oil pressure gauge (Liquid filled).

Intercom controls

Illuminated load chart on front of console.

601. AERIAL HOURMETER @ TURNTABLE CONTROL CONSOLE SECTION 3.128

QTY: 1

Aerial Hour meter

602. ENGINE START

QTY: 1

Push Button waterproof momentary engine starter switch

603. LADDER TIP 12 VOLT LIGHTS SWITCH @ TURNTABLE CONSOLE SECTION 3.127

QTY: 1

Cutoff switch for 12 volt light(s) @ the ladder tip

604. TURNTABLE CONSOLE COVER - PAINTED RADIUS SECTION 3.127

QTY: 1

The turntable control console shall be designed with an aluminum cover to match the console.

The cover shall be designed with a radius shape that pivots over the top of the control panel and does not obstruct viability for the operator when the ladder is operated at low angles.

605. LADDER, FRC ACT -2 WAY COMMUNICATION SYSTEM - LOWER CONTROLS SECTION 3.141

QTY: 1

A Fire Research "ACT" communication system shall be furnished between the ladder tip and the rear operator's position.

A master control at the turntable operator's console shall be provided, with a push-to-talk button and a volume control.

606. LADDER, FRC ACT 2-WAY COMMUNICATION SYSTEM - UPPER SPEAKER/MIC SECTION 3.141

QTY: 1

A self-contained, hands-free speaker microphone shall be located at the ladder tip.

No operator action shall be required to transmit or receive messages at this speaker microphone.

607. AKRON #1494 LADDER CLAMP-ON MONITOR SECTION 3.143, 5.1

QTY: 1

An Akron #1494 CAN Electric aluminum ladder pipe monitor assembly including shutoff, ladder pipe, and a 5177 electronic CAN MS nozzle.

The Akron clamp on monitor shall be equipped with 2 1/2" NSTF threads.

The ladder pipe hose storage shall will be located on top of the officer's side of the base section. The clamp-on monitor mount shall be designed with rung spacing to accommodate the clamp on monitor.

A mount shall be provided for the Akron ladder pipe to securely be carried/stored. Final mounting location shall be made at the final inspection.

608. 101' LADDER, TILLER LADDER CAPACITIES SECTION 3.86

QTY: 1

The following ladder tip load capacities shall be established with the truck level, the outriggers fully extended and lowered to relieve the chassis weight from the axles. Capacities are based upon full extension and 360 degree rotation.

LADDER CAPACITIES IN POUNDS
(50 MPH WIND and 1/4" ICE BUILD UP CONDITIONS / UNCHARGED WATERWAY)

	DEGREES OF ELEVATION							
	-7 to 10	11 to 20	21 to 30	31 to 40	41 to 50	51 to 60	61 to 70	71 to 80
Base Section	250	250	500	500	500	500	500	500
Lower Mid	250	250	250	250	250	500	500	500

Attachment: FPARC-07057-002-0524 KME 101' TDA FINAL Quote [Revision 1] (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER

Upper Mid	---	---	---	---	250	250	500	500
Fly Section	---	---	---	---	---	---	250	500
Fly Tip	500	500	500	500	500	500	500	500

The ladder and water system shall be designed to permit the following flows:

- 1500 GPM at 90 degrees to ladder centerline either side.
 - 1500 GPM parallel to ladder centerline and as far below horizontal as nozzle design allows.
 - 1500 GPM above ladder centerline as far as deck gun design allows.
- Note: Tip capacity is reduced to 250 lbs. when flowing water with the nozzle above the waterway centerline.

LADDER CAPACITIES IN POUNDS
(50 MPH WIND and 1/4" ICE BUILD UP CONDITIONS / CHARGED WATERWAY)

	DEGREES OF ELEVATION							
	-7 to 10	11 to 20	21 to 30	31 to 40	41 to 50	51 to 60	61 to 70	71 to 80
Base Section	---	---	250	250	500	500	500	500
Lower Mid	---	---	---	---	250	250	500	500
Upper Mid	---	---	---	---	---	250	250	500
Fly Section	---	---	---	---	---	---	250	250
Fly Tip	500	500	500	500	500	500	500	500

The aerial unit can be operated in any plane up to 3.5 degrees out of level at full capacities. Operation beyond this limit shall be at operator's discretion.

609. AERIAL LADDER, MANUALS, TWO (2) SETS SECTION 3.79

QTY: 1

The aerial manufacturer shall provide the following manuals pertaining to the aerial device:

- Two (2) Operator's manuals
- Two (2) Parts manuals
- Two (2) Complete Electrical and Hydraulic Diagrams
- Four (4) USB Thumb drives will all information listed above

Attachment: FPARC-07057-002-0524 KME 101' TDA FINAL Quote [Revision 1] (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER

610. 100' & 101' LADDER, TILLER SPECIAL AERIAL TOOLS SECTION 3.80, 3.81

QTY: 1

A steel tool box shall be provided with the following special tools for retorquing of specified bolts as recommended by the aerial manufacturer:

Torque wrench

4:1 multiplier

Extensions, adapters and sockets as required

611. FIRE DEPT AERIAL FAMILIARIZATION - PROVIDED BY FACTORY SECTION 3.82

QTY: 1

An on-site program for familiarization of Fire Department personnel shall be provided.

This program shall be designed to assure complete understanding of all aspects of the aerial device in the operating environment.

The familiarization shall cover all applicable required items in NFPA 1901 code, and be performed by a qualified person per the code.

The familiarization program shall be designed to instruct the individual who has never utilized an aerial device of this type before.

The individual shall receive thorough instructions on operation of the device including hands-on operations for personnel.

The training shall include at a minimum:

Location and operation of all gauges and indicators, as well as fluid level checks.

How to tilt the cab (if a tilt cab is provided), or how to locate all required maintenance areas.

Explanation of all cab controls, instruments, mirrors, safety devices or alarms, brake operations, transmission control, pump controls (if equipped), exhaust regeneration (if provided), seat adjustments, warning light engagement, and other operational equipment.

Familiarization of the aerial device engagement, operations, emergency overrides, safety devices, and maintenance systems.

If the unit is equipped with a fire pump, familiarization of the complete pumping system components, engagement, operations, etc.

If the unit is equipped with a generator, familiarization of the generator system engagement and operations.

If the unit is equipped with a foam system, familiarization of the foam system engagement and operations.

612. FACTORY FAMILIARIZATION - FIVE (5) DAYS SECTION 3.82

QTY: 1

After the unit has been accepted, a factory qualified person shall be provided for a minimum of five (5) days of familiarization.

613. AERIAL SERVICE, ALL DEVICES

QTY: 1

Due to the importance of keeping this vital piece of firefighting apparatus in service with a minimum of downtime, the bidder maintains a network of service centers with factory trained personnel.

The bidder shall have a separate facility for service of units so they do not conflict with production units.

The service facility carries an inventory of parts, separate from production parts.

614. 101' LADDER, TILLER CERT. & TESTING SECTION 3.76, 3.77, 3.78

QTY: 1

The aerial device shall be tested in compliance with the National Fire Protection Association's Standard #1911 (latest edition).

Ongoing structural and physical property testing during construction shall also be done.

The following tests shall be conducted by personnel holding a Level II certification to detect defects and improperly secured components:

Three (3) random samples of each lot or shipment of raw material (plate, tubing, bar, etc.) and fabricated parts from outside vendors shall have a mechanical (tensile, yield, and elongation) and chemical (material content) analysis performed

Magnetic particle inspection shall be conducted on all ferrous welds to assure the integrity of the weldments and also detect any flaws or weaknesses. These tests shall be performed prior to paint or assembly.

Dye penetrant testing be conducted on all structural aluminum welds

Ultrasonic inspection shall be used to detect any flaws in pins, bolts and other critical mounting components. The bolts shall be tested after any torquing to ensure the bolt was not damaged.

All extension/retraction cables shall be proof load tested, serialized, and certified by the cable vendor.

All cable ends shall be dye penetrant tested to find any cracks, imperfections, etc.

Functional tests, load tests, stability tests and visual structural examination shall be performed.

These tests shall determine any unusual deflection, vibration, or instability characteristic of the unit.

Hydraulic oil sample test prior to delivery.

Additionally, a waterway pressure test shall be performed.

Upon completion of the preceding inspections, the independent testing company shall issue a Certificate of Inspection indicating that all specified standards have been satisfied.

The Type I certification shall be provided by Underwriters Laboratories Inc. (UL).

Aerial manufacturers not utilizing third party, independent testing companies shall not be acceptable.

The following test shall be conducted to the aerial device prior to delivery.

All listed tests shall be witnessed and certified by Underwriters Laboratories Inc. (UL) to ensure the device meets all requirements of NFPA-1901. The manufacturer of the aerial device is required to provide a written statement signed by the Chief Engineer certifying the aerial's ability to perform the following tests:

1-1/2:1 DYNAMIC STABILITY AND LIFT TEST -A test of the apparatus shall be performed that the ladder sections are so designed and powered to support a load representing 150% of the manufacturer's rated tip load capacity at maximum horizontal reach on level ground. Since this is a dynamic test, the load will

be raised, lowered and rotated without evidence of instability. Specifically, 750 pounds at the ladder tip with the ladder fully extended at zero degrees shall be rotated 360°.

1-1/3:1 DYNAMIC STABILITY AND LIFT TEST -A test of the apparatus shall be performed that the tip and ladder sections are so designed and powered to support a load representing 133% of the manufacturer's rated tip load capacity at maximum horizontal reach on a five (5) degree slope. Since this is a dynamic test, the load will be raised, lowered and rotated without evidence of instability. Specifically, 666 pounds at the ladder tip with the ladder fully extended at zero degrees shall be rotated 360°.

TIME TEST - A test of the apparatus shall be performed to raise the ladder from a bedded position extended to full height and rotated through a 90° turn smoothly and without undue vibration in not over 120 seconds.

WATER TOWER TEST #1 -A test of the apparatus shall be performed to test its ability to discharge 1000 gallons per minute parallel to the ladder with the unit at full extension and zero degree elevation and through a 360° rotation. The unit shall be capable of performing this test with a rated tip load of 250 pounds at the ladder tip.

WATER TOWER TEST #2 -A test of the apparatus shall be performed to test the ability to discharge 1000 gallons per minute, 90° to the ladder with the ladder at full extension, zero degree elevation and through 360° of rotation. The unit shall be capable of performing this test with a rated tip load of 250 pounds at the ladder tip.

WATER TEST #3 -A test of the apparatus shall be performed to test the ability to discharge 1000 GPM above the ladder centerline and as many degrees above 0° as the deck gun design allows. This test shall also be performed with the ladder fully extended at 0° elevation and through 360° of rotation with a rated tip load of 250 pounds.

Bidders must state their ability to comply with all of the above tests. Failure to do so shall be grounds for rejection of their bid.

615. WARNING DECALS, ALL DEVICES SECTION 3.148

QTY: 1

Warning decals shall be provided in appropriate locations to alert the operator of potential hazards and operating instructions.

All warning labels shall be in general compliance with ANSI Z34.1 recommendations.

616. GENERAL PAINT DESCRIPTION SECTION 3.62, 3.65

QTY: 1

The apparatus body shall be painted with Sikkens paint product. The paint process shall meet or exceed current state regulations concerning paint operations. Pollution control shall include measures to protect the atmosphere, water, and soil. Contractor shall, upon demand, provide evidence that the manufacturing facility is in compliance with State EPA rules and regulations.

The exterior shall have no mounted components prior to painting to assure full coverage of metal treatments and paint to the exterior surfaces of the body. Any vertically or horizontally hinged smooth-plate compartment doors shall be painted separately to assure proper paint coverage on body, door jambs and door edges.

Paint process shall feature Sikkens high solid LV products and be performed in the following steps:

- Corrosion Prevention - all aluminum surfaces shall be pre-treated with the Alodine 5700 conversion coating to provide superior corrosion resistance and excellent adhesion of the base coat.

- Sikkens Sealer/Primer LV - acrylic urethane sealer/primer shall be applied to guarantee excellent gloss hold-out, chip resistance and a uniform base color.
- Sikkens High Solid LVBT650 (Base coat) - a lead-free, chromate-free high solid acrylic urethane base coat shall be applied, providing excellent coverage and durability. A minimum of two (2) coats shall be applied.
- Sikkens High Solid LVBT650 (Clear coat) - high solid LV clear coat shall be applied as the final step in order to ensure full gloss and color retention and durability. A minimum of two (2) coats shall be applied.

Any location where the material is penetrated after painting, for the purpose of mounting steps, hand rails, doors, lights, or other specified components shall be treated at the point of penetration with a corrosion inhibiting pre-treatment (ECK Corrosion Control). The pre-treatment shall be applied to the aluminum sheet metal or aluminum extrusions in all locations where the aluminum has been penetrated. All hardware used in mounting steps, hand rails, doors, lights, or other specified components shall be individually treated with the corrosion inhibiting pre-treatment.

After the paint process is complete, the gloss rating of the unit shall be tested with a 20 degree gloss meter. Coating thickness shall be measured with a digital MIL gauge and the orange peel with a digital wave scan device.

617. GENERAL PRIMER & PREP DESCRIPTION - LADDER/PLATFOR SECTION 3.62

QTY: 1

All exposed welds shall be ground smooth for final finishing of areas to be painted. The compartments and doors are totally degreased and phosphatized. After final body work is completed, grinding (36 and 80 grit), and finish sanding shall be used in preparation for priming.

618. GENERAL FINISH PAINT DESCRIPTION - LADDER/PLATFORM SECTION 3.59

QTY: 1

The body shall be finish sanded and prepared for final paint. Upon completion of final preparation, the body shall be painted utilizing the highest quality, state of the art, low V.O.C., polyurethane base paint. Finish paint shall be applied in multiple coats to ensure proper paint coverage with a high gloss finish.

619. CUSTOM FINISH PAINT & PREP SECTION 3.59, 3.60

QTY: 1

The entire cab shall be finish sanded and prepared for final paint.

Upon completion of final preparation, the cab shall be painted utilizing the highest quality, state of the art, low V.O.C., polyurethane base paint.

Finish paint shall be applied in multiple coats to ensure proper paint coverage with a high gloss finish.

620. CUSTOM CAB PRIMER & PREP SECTION 3.59, 3.60

QTY: 1

The cab primer shall be a two (2) stage process.

First stage shall be a coating with a two part component, self-etching, and corrosion resistant primer to chemically bond the surface of the metal for increased adhesion.

Second stage shall be multiple coats of a catalyzed, two component, polyurethane primer applied for leveling of small imperfections and top coat sealing.

621. CUSTOM CAB UNDERSIDE PAINT - JOB COLOR SECTION 3.59, 3.60

QTY: 1

The exposed areas under the cab shall be painted job color to match the exterior cab.

On two tone cabs, this shall match the primary color.

622. CUSTOM CAB BUFFING & FINISH SECTION 3.61

QTY: 1

The entire exterior finish of the cab shall be buffed and detailed.

623. CUSTOM CAB INTERIOR PAINT - LINE-X + ABS - PREDATO

QTY: 1

624. CUSTOM CAB INTERIOR PAINT - BLACK LINE-X SECTION 2.21

QTY: 1

The interior metal surfaces of the cab shall be painted using black Line-X material.

The interior of both the tractor cab and the tillerman's cab will be sprayed with black Line-X

625. BODY BUFFING & FINISH - LADDER/PLATFORM SECTION 3.61

QTY: 1

The entire body shall be buffed and detailed.

626. INSIDE/UNDERSIDE BODY PAINTED JOB COLOR – TDA SECTION 3.60

QTY: 1

The inside and underside of the complete body assembly shall be painted job color using a Sikkens paint system, prior to installation of the body on the chassis or torque box.

627. LINE-X COMPARTMENT INTERIORS – TDA SECTION 3.57

QTY: 1

The interior of the body compartments shall be painted with Line-X material.

628. DARK GRAY LINE-X COMPARTMENT COLOR SECTION 3.57

QTY: 1

The Line-X coating shall be dark gray in color.

629. FENDER COMPARTMENT INTERIOR - DARK GRAY LINE-X SECTION 3.53

QTY: 1

The interior of the fender storage compartments (if fender compartments are specified) shall be finish painted with Dark Gray Line-X paint to provide a protective finish.

630. SINGLE COLOR CUSTOM CAB PAINT SCHEME – RED SECTION 3.66

QTY: 1

The cab exterior shall be finish painted with Sikkens paint system, single color, to match purchaser's furnished paint code.

631. SINGLE COLOR BODY PAINT SCHEME – TDA SECTION 3.66

QTY: 1

The body paint finish shall be Sikkens paint system in a single color, to match customer furnished paint codes and requirements.

632. LADDER RUST INHIBITOR - ALL DEVICES SECTION 3.84

QTY: 1

All internal surfaces of the ladder exposed to the atmosphere, i.e., inside base, mid and fly section side rails shall be undercoated prior to ladder assembly using Procyon Corrosion Inhibitor to prevent internal corrosion. The corrosion inhibitor will meet the Boeing BMS-3-29 specification and meet a 1500-hour salt spray test. Manufacturers that do not rustproof the interiors of the ladder sections shall not be considered. (No Exceptions)

633. PINT OF TOUCH-UP PAINT SECTION 3.67

QTY: 1

One (1) pint of each exterior color paint for touch-up purposes shall be supplied when the apparatus is delivered to the end user.

634. FINALIZATION & DETAILING - LADDER/PLATFORM

QTY: 1

Prior to delivery of the vehicle, the interior and exterior be cleaned and detailed. The finalization process detailing shall include installation of NFPA required labels, checking fluid levels, sealing and caulking required areas of the cab and body, rust proofing, paint touch-up, etc.

635. CUSTOM CHASSIS JOB COLOR FRAME RAILS SECTION 2.133

QTY: 1

The chassis frame rails, suspension, axles, and drivelines (with the exception of any PTO drivelines which shall be safety yellow) shall be painted with polyurethane paint to match the body color code prior to the installation of any air lines or electrical system to ensure serviceability.

FOR CLARIFICATION: The chassis, torque box, trailer frame along with the underside of both the tractor and trailer compartments will be painted job color red.

636. LADDER, PAINTING, ALL DEVICES, WHITE #FLNA41528 SECTION 3.63

QTY: 1

Prior to any painting, all weldments such as the outrigger beams, torque box, turntable, and ladder sections shall be sand blasted, cleaned and inspected to insure the removal of any surface imperfections and to insure superior paint adhesion to the metal.

The entire painting system shall utilize a single manufacturer's paint for compatibility between primers and finished coats. All painting shall be done in atmosphere controlled spray booths. The weldments shall then be primed with Sikkens primer. All seams between adjoining pieces that are not continuously welded shall be caulked to inhibit corrosion.

Before assembly, in preparation for final painting, the aerial unit shall be thoroughly cleaned, conforming to good painting practices.

The aerial components shall then be sprayed with Sikkens Polyurethane primer sealer. Finished paint used on the turntable, lift cylinder, and ladder sections shall be painted Sikkens FLNA41528 white.

637. LADDER, PAINTING, ALL DEVICES, WHITE #FLNA41528

QTY: 1

Prior to any painting, all weldments such as the outrigger beams, torque box, turntable, and ladder sections shall be sand blasted, cleaned and inspected to insure the removal of any surface imperfections and to insure superior paint adhesion to the metal.

The entire painting system shall utilize a single manufacturer's paint for compatibility between primers and finished coats. All painting shall be done in atmosphere controlled spray booths. The weldments shall then be primed with Sikkens primer. All seams between adjoining pieces that are not continuously welded shall be caulked to inhibit corrosion.

Before assembly, in preparation for final painting, the aerial unit shall be thoroughly cleaned, conforming to good painting practices.

The aerial components shall then be sprayed with Sikkens Polyurethane primer sealer. Finished paint used on the turntable, lift cylinder, and ladder sections shall be painted Sikkens FLNA41528 white. The rung rails of the ladder shall be painted job color.

638. EXTENSION CYLINDERS PAINTED TO MATCH LADDER COLOR SECTION 3.59, 3.60

QTY: 1

The extension cylinders shall be painted to match the color of the ladder.

639. TORQUEBOX PAINT - JOB COLOR SECTION 3.65

QTY: 1

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The torque box shall be painted to match job color or the base color of the body, allowing easy touch-up after extended use.

FOR CLARIFICATION: The chassis, torque box, trailer frame along with the underside of both the tractor and trailer compartments will be painted job color red.

640. OUTRIGGER PAINT - SILVER URETHABOND 104 SECTION 3.117

QTY: 1

The outrigger beams and the vertical jack shall be painted with Silver Urethabond 104 non-leafig aluminum urethane primer/finish, allowing easy touch-up after extended use.

641. TURNTABLE PAINT - LADDER COLOR SECTION 3.63

QTY: 1

The turntable shall be painted to match the base color of the ladder, allowing easy touch-up after extended use.

642. TURNTABLE CONSOLE PAINT - LADDER COLOR SECTION 3.63

QTY: 1

The turntable console shall be painted to match the base color of the ladder, allowing easy touch-up after extended use.

643. LIFT CYLINDERS PAINT - LADDER COLOR SECTION 3.63

QTY: 1

The aerial lift cylinders shall be painted to match the base color of the ladder, allowing easy touch-up after extended use.

644. SCOTCH-LITE W/ DROP SHADOW LETTERING ON FRONT CAB DOORS SECTION 3.68

QTY: 1

Scotch-Lite with drop shadow lettering shall be provided on the cab drivers and officer's doors per the fire department requirements.

The design of the lettering on the cab doors shall be designed to fit in the 496 sq. inches available.

645. 3" LETTERING ON FRONT CAB DOORS SECTION 3.68

QTY: 1

Lettering provided on the driver's and officer's cab doors shall be 3" high.

646. FRONT CAB DOOR TEXT LINE 1 - RIVERSIDE COUNTY SECTION 3.68

QTY: 1

647. FRONT CAB DOOR TEXT LINE 2 – FIRE SECTION 3.68

QTY: 1

648. FIRE DEPARTMENT LOGO SECTION 3.68

QTY: 1

The customer will supply two (2) county and (2) city logo's for each unit.

649. AMERICAN FLAG DECAL SECTION 1.23

QTY: 1

An American Flag, non-waving, decal will be provided and installed on each aerial sign panel, located toward the tip of the aerial device.

650. 6" SCOTCH-LITE CUSTOM RIBBON IN STRIPE SECTION 1.23, 3.71

QTY: 1

A six (6) inch custom ribbon shall be incorporated into the Scotch-Lite scheme on the body.

Final layout of this configuration shall be determined by the Fire Department.

651. 6" SCOTCH-LITE STRIPE ON CAB AND BODY - TDA AERIAL SECTION 1.23, 3.71

QTY: 1

A six (6) inch high "Scotch-Lite" stripe shall be provided. The stripe shall be applied on a minimum of 60 percent of each side of the unit, 60 percent on the rear of the unit and 40 percent on the front of the unit. The Scotch-Lite stripe layout shall be determined by the Fire Department.

652. WHITE SCOTCH-LITE

QTY: 1

The Scotch-Lite shall be white in color.

653. SILVER STRIPE IN RUB RAIL SECTION 1.23

QTY: 1

There will be a 2" diamond grade reflective striping installed in the rub rail channel. The reflective stripe will be silver in color

654. REAR CHEVRON STRIPING SECTION 1.23, 3.73

QTY: 1

REAR CHEVRON STRIPING

655. REAR CHEVRON TO BE AS FOLLOWS: SECTION 1.23, 3.73

QTY: 1

The rear trailer vertical surface of the body shall be 100% covered with alternating strips of reflective striping.

For Clarification: The Rear surface of the tiller cab is not to be covered.

656. 6" FULL REAR ORALITE CHEVRON STRIPING SECTION 1.23

QTY: 1

The striping shall be 6" Oralite reflective striping.

657. RED & FLOURESCENT LIME ORALITE V98 SECTION 1.23, 3.72

QTY: 1

The Oralite V98 reflective tape shall be 012 red and L2 fluorescent lime in color.

658. 19" X 144" LETTERING PANELS ON BASE SECTION SECTION 3.147

QTY: 1

Painted aluminum panels shall be furnished on each side of the aerial device base section. The panels shall be approximately 19" high X 144" long.

659. SIGN PANELS TO PAINTED TO MATCH AERIAL DEVICE COLOR SECTION 3.59,

3.60

QTY: 1

The sign panels shall be painted to match the aerial ladder paint color.

660. SCOTCH-LITE W/ DROP SHADOW LETTERING FOR AERIAL SECTION 3.150

QTY: 1

Scotch-Lite with drop shadow lettering shall be provided on the signboard per the fire department requirements. The design of the lettering on the signboard shall be designed with a maximum text height of 12" and fit in the available area.

The sign panels for the four trucks will be lettered as follows;

- City of Temecula**
- City of Moreno Valley**
- Cove Communities**
- City of Menifee**

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661. ROAD SAFETY KITS SECTION 2.193

QTY: 1

A road safety kit shall be furnished with the following equipment:

- 2 1/2 lb. B-C fire extinguisher
- Triangle safety reflectors.

662. ANGUS HOSE SECTION 5.1

QTY: 1

Two (2) 130 foot sections of 3" hose with 2.5" NST couplings will be provided for loose equipment.

663. TASK FORCE TIPS JUMBO GATE VALVE SECTION 5.1

QTY: 1

A TFT model AN4P7P02 jumbo gate valve will be included with the loose equipment. The valve shall be painted silver as per TFT standard.

664. ZICO SCBA BOTTLE BRACKET, MOUNTED AS DIRECTED SECTION 5.1

QTY: 3

A Zico # UH-6-30-2-SF SCBA bottle brackets shall be provided and installed.

The mounting location shall be determined at the final inspection.

665. STREAMLITE "FIRE VULCAN" C4LED HANDLIGHT SECTION 4.59, 5.1

QTY: 5

A Streamlight model 44451 orange "Fire Vulcan" C4 LED rechargeable hand light(s) and 12 volt charger shall be installed as directed by the purchaser. Charger shall be wired to the chassis battery system.

The lights shall be mounted in the following compartments:

Two (2) in the rear doghouse area of the cab, adjacent to each rear facing seat.

One (1) within the CL-2 compartment

One (1) within the CR-2 compartment

One (1) within the L-8 compartment

***Exact mounting locations within these compartments will be determined during an in-process or final inspection.**

666. FOUR (4) #SAC-44 FOLDING WHEEL CHOCKS, (2) MTD EACH SIDE SECTION 3.75

QTY: 1

Four (4) ZICO #SAC-44 folding wheel chocks shall be mounted two (2) on each side forward of the rear wheels below the side running board compartments.

667. KME WARRANTY, STARTING ON IN-SERVICE DATE

QTY: 1

Warranty coverage by KME will begin when the customer places the unit in service. This date may not exceed 60 days from the date of delivery to the customer.

The Customer must email kmeservice@kmeffire.com within 60 days of delivery, or the warranty start date will default to the original delivery date.

668. 2 YEAR WARRANTY - BASE WITH CUSTOM CHASSIS SECTION 1.10

QTY: 1

The proposed vehicle includes a two (2) year new vehicle warranty, upon delivery and acceptance of the vehicle. The warranty will ensure that the vehicle has been manufactured to the proposed contract specifications and will be free from defects in material and workmanship that may appear under normal use and service within the warranty period. The warranty may be subject to different time and mileage limitations for specific components and parts. This warranty is issued to the original purchaser of the vehicle.

The warranty will not apply to tires, batteries, or other parts or components that are warranted directly by their manufacturers. The warranty will not apply to routine maintenance requirements as described in the service and operators manual. No warranty whether express, implied, statutory or otherwise including, but not limited to any warranty of merchantability or fitness for purpose will be imposed.

OVERALL UNIT AND CUSTOM CHASSIS

All components and parts of the vehicle are warranted for a period of two (2) years from acceptance of the vehicle unless excluded elsewhere in this warranty or described as having longer time limitations.

669. 5 YEAR CUMMINS BASE WARRANTY SECTION 1.10

QTY: 1

The proposed unit will be equipped with a Fire Service rated engine, which will come furnished with a five (5) year Engine Manufacturer's warranty. A copy of the manufacturer's warranty will be supplied to define additional details of the warranty provisions.

670. 5 YEAR ALLISON EVS TRANSMISSION WARRANTY SECTION 1.10

QTY: 1

The proposed Allison transmission will be provided with a five (5) year warranty. A copy of the Allison transmission warranty will be supplied to the purchaser to define additional details of the warranty provisions.

671. 3 YEAR COOLING SYSTEM WARRANTY – CUSTOM SECTION 1.10

QTY: 1

Kovatch Mobile Equipment (KME) warrants all Cooling System Equipment components used in the construction of KME Fire Apparatus against defects and workmanship provided the apparatus is used in a normal and reasonable manner. This warranty is extended only to the original user-purchaser for a period of three (3) years from the date of delivery/acceptance to the original user-purchaser, whichever occurs first.

This warranty applies to both purchased and fabricated, manufacturer supplied coolant system components and is not provided in lieu of any Vendor provided warranties. All coolant system components provided by the engine manufacturer are covered by the engine manufacturer's warranty only.

672. LIFETIME FRAMERAIL WARRANTY SECTION 1.10

QTY: 1

The proposed KME custom chassis frame and cross members will be warranted to the original purchaser for the life of the vehicle. A copy of KME's frame rail warranty will be supplied to define additional details of the warranty provisions.

673. SHEPPARD STEERING GEAR STANDARD - THREE YEAR WARRANTY SECTION 1.10

QTY: 1

The proposed Sheppard steering gear will be warranted for a period of three (3) years from the first date of service or 150,000 miles (241,401 kilometers), whichever occurs first. The product will be free from defects in material and workmanship under normal use in applications approved in advance by Sheppard.

674. 5 YEAR MERITOR FRONT AXLE – WARRANTY SECTION 1.10

QTY: 1

The Meritor axle shall be provided with a five (5) year parts and labor warranty. The wheel seals, gaskets and wheel bearings shall have a one (1) year warranty. A copy of Meritor's warranty shall be supplied to define additional details of the warranty provisions.

675. 5 YEAR MERITOR SINGLE AXLE REAR – WARRANTY SECTION 1.10

QTY: 1

The Meritor axle/s shall be furnished with a five (5) year warranty; the first two (2) years shall be parts and labor, the remaining three (3) years shall be parts only. Wheel seals, gaskets and wheel bearings shall

be covered for one (1) year providing that Meritor supplies and assembles the wheel end equipment. A copy of the warranty from Meritor shall be supplied to define additional details of the warranty provisions. For vehicles that operate full or part-time outside of the United States and Canada, a one (1) year parts only warranty shall apply.

676. 3 YEAR MERITOR ABS – WARRANTY SECTION 1.10

QTY: 1

The Meritor ABS shall be provided with a three (3) year warranty, parts and labor. A copy of Meritor's warranty shall be supplied to define additional details of the warranty provisions. Vehicles that operate full or part-time outside the United States and Canada shall have a one (1) year, parts only warranty.

677. 10 YEAR CAB STRUCTURAL WARRANTY SECTION 1.10, 2.25

QTY: 1

The proposed cab will be warranted against structural defects for a period of ten (10) years from the date of acceptance of the unit. Details of warranty coverage, limitations and exclusions are included in the specific warranty document.

678. 10 YEAR BODY STRUCTURAL WARRANTY SECTION 1.10

QTY: 1

The proposed body will be warranted against structural defects for a period of ten (10) years from the date of acceptance of the unit. Details of warranty coverage, limitations and exclusions are included in the specific warranty document.

679. 10 YEAR CAB & BODY CORROSION WARRANTY SECTION 1.10

QTY: 1

The cab and body shall be warranted against rust-through or perforation, due to corrosion from within, for a period of ten (10) years. Perforation is defined as a condition in which an actual hole occurs in a sheet metal panel due to rust or corrosion from within. Surface rust or corrosion caused by chips or scratches in the paint is not covered by this warranty.

680. PAINT FINISH WARRANTY, TEN (10) YEAR SECTION 1.10

QTY: 1

The proposed paint finish will be warranted for a period of ten (10) years from the date of acceptance of the unit. Details of warranty coverage, limitations and exclusions are included in the specific warranty document.

681. 5 YEAR LETTERING WARRANTY SECTION 1.10

QTY: 1

The apparatus manufacturer will provide a five (5) year warranty against defects in material and workmanship for all graphics processes. Any valid claims must be made in writing within 15 days of the determination of any defects to the manufacturer's fire apparatus. The manufacturer will at its option make any necessary repairs either at a local authorized service center or at the factory if required. The manufacturer will make the final decision as to where the repairs are to be made and any transportation cost is the owner's responsibility. The manufacturer will at its option, repair or replace any verified defects in workmanship or materials at no cost to the owner provided all the requirements of this warranty have been met.

The manufacturer will not be liable to the original purchaser or anyone else for consequential, incidental, special or direct damages, including, but not limited to, any claims for loss of profits, downtime, loss of use or inconvenience. THE COMPANY MAKES NO OTHER WARRANTY, EXPRESSED OR IMPLIED, AND SPECIFICALLY, DISCLAIMS ANY IMPLIED WARRANTY INCLUDING THE WARRANTY OF MERCHANTABILITY.

The manufacturer continually strives to improve its products and therefore, reserves the right to make improvements or changes without incurring any obligations to make such changes or additions to equipment previously sold.

682. 1 YEAR BRIGHTWORK WARRANTY SECTION 1.10

QTY: 1

KME Fire Apparatus (KME) warrants all bright finish components used in the construction of KME Fire Apparatus against defects and workmanship provided the apparatus is used in a normal and reasonable manner. This warranty is extended only to the original user-purchaser for a period of one (1) year from the date of delivery/acceptance to the original user-purchaser, whichever occurs first.

The expressed warranty excludes corrosion or degradation of bright finished components caused by damage to the component.

683. REAR SUSPENSION - RIDEWELL - AIR RIDE - 3 YEAR WARRANTY SECTION 1.10

QTY: 1

Ridewell Suspensions warrants suspension systems manufactured by it to be free from defects in material and workmanship under proper use installation, application and maintenance for a period of three (3) years with no mileage limit after delivery to the original purchaser.

The responsibility of Ride well Suspensions under this warranty is limited to making good at the company factory by repair or replacement of any part or parts which it manufactures.

Subject to all of the above conditions, if repair or replacement of any defective part is made by Ridewell Suspensions, Ridewell will return the repaired or replaced part to the original purchaser with transportation charges prepaid.

1 to 12 months 100% Parts & Labor

13 to 24 months 100% Parts & 50% Labor

25 to 36 months 50% Parts Only

684. WELDON V-MUX - VEHICLE MULTIPLEXING WARRANTY SECTION 1.10

QTY: 1

The Weldon warranty will cover parts and labor at the Weldon service department to repair/replace a returned device. This does not reflect the labor to remove/replace any such devices, nor indicate Weldon accepts any responsibility for such removal, replacement or troubleshooting of said devices.(see attached warranty PDF for this line item)

685. USSC SEATING 6 YEAR WARRANTY SECTION 1.10

QTY: 1

USSC will warrant each new seat manufactured, to be free from defects in materials and workmanship when delivered to the original purchaser for a period of six (6) years.

Labor to remove or reinstall defective items will not be covered under this warranty. All warranty claims shall have prior approval from USSC warranty department.

686. CORROSION TREATMENT SECTION 1.10

QTY: 1

The entire unit shall be thoroughly rust proofed utilizing rustproof and sound deadening materials applied in manufacturer recommended application procedures.

Rust proofing shall be applied during the assembly process and upon completion to insure proper coverage in all critical areas.

687. HARRISON PTO/HYD GENERATORS SECTION 1.10, 4.71

QTY: 1

The specified generator shall have a five (5) year or one thousand (1000) hour warranty as provided by the generator manufacturer. A copy of the generator warranty shall be provided at the time of delivery.

688. ADDITIONAL ITEMS SHIPPED WITH VEHICLE SECTION 3.67

QTY: 1

- 1 - Pint of touch up paint for each color
- 1 - Bag of assorted stainless steel nuts and bolts

- 1 - Complete set of hydraulic filters for the pressure filter and the return line filter
- 2 - Complete sets of aerial override keys

Attachment: FPARC-07057-002-0524 KME 101' TDA FINAL Quote [Revision 1] (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER



One Industrial Complex – Nesquehoning, PA 18240
 (800) 235-3928 [Phone] - (570) 669-5124 [Fax]
www.kovatch.com URL

KME FIRE APPARATUS
NEW PRODUCT WARRANTY
 (Domestic Fire Service Sales)

Kovatch Mobile Equipment Corporation ("KME"), hereby warrants to the original purchaser (first end users) that any new products manufactured by KME shall be free from defects in material and workmanship under normal use, maintenance and service for a period of two (2) year from date of delivery, subject to the conditions and exceptions stated herein. Under this warranty, KME'S obligation is limited to the repair or replacement at KME'S option, at its factory, by its representative, or by its authorized service facility, of any part found to be defective by KME. If KME deems it necessary, all parts for which warranty claim is made, shall be returned to KME, transportation charges prepaid, for examination by KME who shall be the sole judge as to whether such part was defective in material or workmanship under normal use, maintenance or service.

THIS WARRANTY DOES NOT APPLY TO:

1. Any product or component which has been subjected to misuse, neglect, alteration, accident or lack of normal maintenance, or which has been operated above factory rated capacity.
2. Routine maintenance items; such as filters, belts and lights, and routine maintenance service, such as normal lubrication or proper adjustments.
3. Components manufactured by others that are warranted by the manufactures thereof to the original purchaser; such as, engines, tires, rims, ignition apparatus, horn or other signal devices, generators, batteries, speedometers, and other trade accessories.

THIS WARRANTY IS EXPRESSLY GRANTED IN LIEU OF ALL OTHER WARRANTIES, WHETHER EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OR MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF.

KME shall not be liable to the original purchaser or anyone else for consequential, incidental, special or direct damages, including, but not limited to, any claims for loss of profits, down time, loss of use or inconvenience.

KME neither assumes nor authorizes any other person to make or assume for it any other obligation, liability or warranty or to make any other representation on its behalf in connection with the sale or use of the new product covered by this warranty.

Legal Remedies: Any claim or controversy arising out of or relating to this limited warranty, or beach thereof, shall be settled by arbitration administered by the American Arbitration Association in Milwaukee, Wisconsin in accordance with the Commercial Arbitration Rules of the American Arbitration Association. The laws of the State of Wisconsin shall be applied in any arbitration proceedings, without regard to principles of conflict of law. Each party shall bear its own costs, fees and expenses of arbitration. The arbitrator(s) determination and the basis for that determination shall be in writing and shall include an explanation of the basis for the determination. The determination of the arbitrator(s) shall be final and binding and judgment upon such determination may be entered in any court having jurisdiction. The arbitration proceedings and arbitration award shall be maintained by the parties as strictly confidential, except as otherwise required by court order or as is necessary to confirm, vacate, or enforce the award and for disclosure in confidence to the parties' respective attorneys, tax advisors, or senior management personnel. Furthermore, any action for breach of warranty must be commenced within three months following the expiration of the warranty period.



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KME FIRE APPARATUS
NEW SHEET METAL CAB WARRANTY
 (Domestic Fire Service Sales)

KME FIRE APPARATUS DIVISION of KOVATCH MOBILE EQUIPMENT CORP., ("KME") hereby warrants to the original purchaser (first end user) that any new fire apparatus cab manufactured by KME shall be free from structural defects under normal use, maintenance, or service for a period of ten (10) years from date of delivery, subject to the conditions and exceptions stated herein. Under this warranty, KME'S obligation is limited to the repair or replacement at KME'S option, at its factory, by it's representative, or by its authorized service facility, of any structural part of the fire apparatus cab found to be defective by KME. For purposes of this warranty, fire apparatus cab is defined as all sheet metal and welds.

THIS WARRANTY DOES NOT APPLY TO:

1. Hinges, door latches, bolt-on items or accessories or other items that are not an integral part of the cab itself.
2. Any part or component which has been subjected to misuse, abuse, neglect, alteration, or lack of normal maintenance.
3. Components that may be manufactured by others and that are warranted by the manufacturers thereof to the original purchaser.
4. Cab components damaged as a result of corrosion, including but not limited to exposure to salt, acidic material, or other damaging chemicals.

THIS WARRANTY IS EXPRESSLY GRANTED IN LIEU OF ALL OTHER WARRANTIES, WHETHER EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OR MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF.

KME shall not be liable to the original purchaser or anyone else for consequential, incidental, special or direct damages, including, but not limited to, any claims for loss of profits, down time, loss of use or inconvenience.

KME neither assumes nor authorizes any other person to make or assume for it any other obligation, liability or warranty or to make any other representation on its behalf in connection with the sale or use of the new product covered by this warranty.

Legal Remedies: Any claim or controversy arising out of or relating to this limited warranty, or breach thereof, shall be settled by arbitration administered by the American Arbitration Association in Milwaukee, Wisconsin in accordance with the Commercial Arbitration Rules of the American Arbitration Association. The laws of the State of Wisconsin shall be applied in any arbitration proceedings, without regard to principles of conflict of law. Each party shall bear its own costs, fees and expenses of arbitration. The arbitrator(s) determination and the basis for that determination shall be in writing and shall include an explanation of the basis for the determination. The determination of the arbitrator(s) shall be final and binding and judgment upon such determination may be entered in any court having jurisdiction. The arbitration proceedings and arbitration award shall be maintained by the parties as strictly confidential, except as otherwise required by court order or as is necessary to confirm, vacate, or enforce the award and for disclosure in confidence to the parties' respective attorneys, tax advisors, or senior management personnel. Furthermore, any action for breach of warranty must be commenced within three months following the expiration of the warranty period.



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KME FIRE APPARATUS
NEW SHEET METAL BODY WARRANTY
 (Domestic Fire Service Sales)

KME FIRE APPARATUS DIVISION of KOVATCH MOBILE EQUIPMENT CORP., ("KME") hereby warrants to the original purchaser (first end user) that any new fire apparatus body manufactured by KME shall be free from structural defects under normal use, maintenance, or service for a period of ten (10) years from date of delivery, subject to the conditions and exceptions stated herein. Under this warranty, KME'S obligation is limited to the repair or replacement at KME'S option, at its factory, by it's representative, or by its authorized service facility, of any structural part of the fire apparatus body found to be defective by KME. For purposes of this warranty, fire apparatus body is defined as all sheet metal and welds.

THIS WARRANTY DOES NOT APPLY TO:

1. Hinges, door latches, bolt-on items or accessories or other items that are not an integral part of the body itself.
2. Any part or component which has been subjected to misuse, abuse, neglect, alteration, or lack of normal maintenance.
3. Components that may be manufactured by others and that are warranted by the manufacturers thereof to the original purchaser.

THIS WARRANTY IS EXPRESSLY GRANTED IN LIEU OF ALL OTHER WARRANTIES, WHETHER EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OR MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF.

KME shall not be liable to the original purchaser or anyone else for consequential, incidental, special or direct damages, including, but not limited to, any claims for loss of profits, down time, loss of use or inconvenience.

KME neither assumes nor authorizes any other person to make or assume for it any other obligation, liability or warranty or to make any other representation on its behalf in connection with the sale or use of the new product covered by this warranty.

Legal Remedies: Any claim or controversy arising out of or relating to this limited warranty, or breach thereof, shall be settled by arbitration administered by the American Arbitration Association in Milwaukee, Wisconsin in accordance with the Commercial Arbitration Rules of the American Arbitration Association. The laws of the State of Wisconsin shall be applied in any arbitration proceedings, without regard to principles of conflict of law. Each party shall bear its own costs, fees and expenses of arbitration. The arbitrator(s) determination and the basis for that determination shall be in writing and shall include an explanation of the basis for the determination. The determination of the arbitrator(s) shall be final and binding and judgment upon such determination may be entered in any court having jurisdiction. The arbitration proceedings and arbitration award shall be maintained by the parties as strictly confidential, except as otherwise required by court order or as is necessary to confirm, vacate, or enforce the award and for disclosure in confidence to the parties' respective attorneys, tax advisors, or senior management personnel. Furthermore, any action for breach of warranty must be commenced within three months following the expiration of the warranty period



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KME Fire Apparatus 10 Year Corrosion Limited Warranty

KME Fire Apparatus provides to the original owner a rustproofing warranty for a period of ten (10) years on new fire apparatus that is operated for non-commercial purposes, provided the owner to whom this warranty is issued follows the "Customer Responsibilities" set forth below. This warranty commences on the date of application of rustproofing material, and is non-transferable. The apparatus is warranted against rust perforation from the inside out (rust through) of any covered area(s). KME will at its discretion either (1) repair, or (2) replace the rusted through covered area(s).

CUSTOMER RESPONSIBILITIES:

1. **Inspections.** Customer shall have the apparatus inspected once a year by an authorized KME service provider. Records of such inspections shall be kept and presented to KME upon demand.
2. **Damage to Fire Truck.** If the fire truck is involved in a collision or other incident that damages the rustproofing application, the owner must notify KME within thirty (30) days of such occurrence. If notice is not given, then this warranty shall automatically become null and void. If KME is notified as required, KME will inspect the vehicle, and if KME determines it necessary in order to continue this warranty, KME will perform either partial or complete reapplication of the rust preventative material at the then-current rates to be charged to the customer.
3. **Rust-through Claims Procedure.** In the event of rust through during the term of this warranty, the customer must notify KME within thirty (30) days of the first notice of rust. Conformance by the customer with the thirty (30) day notice requirement will be judged by KME on the basis of the extent of damage resulting from rust-through. If, in the opinion of KME, the rust-through is substantially larger than that which could have reasonably occurred within thirty (30) days of the first notice of rust-through, no such claim will be valid under this warranty. Further, in no event shall a claim be considered timely if made later than the last day of the term of this warranty.

EXCLUSIONS:

Service provided by KME or its authorized representative under this warranty does not include the following:

- A. Repair or replacement of exhaust systems, which are not covered.
- B. Repair or replacement of any parts damaged by rusting through, if such repair or replacement was performed before obtaining KME's authorization in writing.
- C. This warranty does not apply to exterior surface or cosmetic rust, rust caused by external damage from any cause, such as dents, scratches, chipped paint, etc.
- D. Repair or replacement of parts damaged by rusting through on any fire truck whose owner does not present us with copies of inspection records showing that all required inspections have been timely performed.
- E. Repair or replacement of parts damaged by rusting through if such parts were repaired or replaced because of rust damage and such parts were not treated with rust preventative compound within thirty (30) days of repair or replacement.
- F. This limited warranty applies only to exterior body and cab paint. Paint on the vehicle's undercarriage, cab and body interior is warranted only under the KME proposed general warranty.
- G. Those areas within the vehicle that are foam or caulk filled.

DISCLAIMER OF IMPLIED WARRANTIES:

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. Some states do not allow disclaimers of or limitations on duration of implied warranties, so these limitations may not apply to you.

INCIDENTAL AND CONSEQUENTIAL DAMAGES EXCLUDED:

The customer shall not be entitled to recover from KME, its successors or assigns, any consequential damages to property, damages for loss of use, loss of time, loss of profits or income, or any other incidental or consequential damages. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

Legal Remedies: Any claim or controversy arising out of or relating to this limited warranty, or breach thereof, shall be settled by arbitration administered by the American Arbitration Association in Milwaukee, Wisconsin in accordance with the Commercial Arbitration Rules of the American Arbitration Association. The laws of the State of Wisconsin shall be applied in any arbitration proceedings, without regard to principles of conflict of law. Each party shall bear its own costs, fees and expenses of arbitration. The arbitrator(s) determination and the basis for that determination shall be in writing and shall include an explanation of the basis for the determination. The determination of the arbitrator(s) shall be final and binding and judgment upon such determination may be entered in any court having jurisdiction. The arbitration proceedings and arbitration award shall be maintained by the parties as strictly confidential, except as otherwise required by court order or as is necessary to confirm, vacate, or enforce the award and for disclosure in confidence to the parties' respective attorneys, tax advisors, or senior management personnel. Furthermore, any action for breach of warranty must be commenced within three months following the expiration of the warranty period.



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KME FIRE APPARATUS
CHASSIS LIFETIME FRAME WARRANTY
 (Domestic Fire Service Sales)

KOVATCH MOBILE EQUIPMENT CORP. warrants to the original purchaser of a KME chassis that the frame and frame cross members are free of defects in material and workmanship for the lifetime of the vehicle, provided that the chassis is used in a normal and reasonable manner. KOVATCH MOBILE EQUIPMENT CORP'S obligation under this warranty is strictly limited to repairing or replacing, as KOVATCH MOBILE EQUIPMENT CORP. may elect, any part or parts of such frame or frame members which KOVATCH MOBILE EQUIPMENT CORP'S examination discloses to be defective in material or workmanship.

Any part or parts considered to be covered by the conditions of this warranty shall be returned, freight prepaid, to the Company's factory at Nesquehoning, Pennsylvania.

This warranty shall be null and void if the frame shows evidence of alterations, cutting, splicing, welding or drilling of rails or flanges without the written authorization of KOVATCH MOBILE EQUIPMENT CORP. Further, this warranty shall be void if the vehicle is involved in an accident, shows signs of abuse or evidence of being operated in a manner, or for a purpose, not recommended by KOVATCH MOBILE EQUIPMENT CORP.

Chassis frame components damaged as a result of corrosion, including but not limited to exposure to salt, acidic material, or other damaging chemicals are not covered under this warranty.

Nothing contained in this warranty shall make KOVATCH MOBILE EQUIPMENT CORP. liable beyond the express limitations hereof, for loss, injury or damage of any kind to any person or entity resulting from any defect or failure in the chassis or frame.

To the extent permitted by law, THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

To the extent permitted by law, this warranty is also in lieu of all other obligations or liabilities on the part of KOVATCH MOBILE EQUIPMENT CORP., or the Seller, including liability for incidental and consequential damages.

KOVATCH MOBILE EQUIPMENT CORP. makes no representation that the chassis or frame has the capacity to perform any functions other than as contained in the Company's written literature, catalogs or specification accompanying delivery of the chassis.

No person or affiliated company representative is authorized to give any other warranties or to assume any other liability on behalf of KOVATCH MOBILE EQUIPMENT CORP. in connection with the sale, servicing or repair of any KME Chassis. KOVATCH MOBILE EQUIPMENT CORP. reserves the right to make design changes or improvements in its products without imposing any obligation upon itself to change or improve previously manufactured products.

Legal Remedies: Any claim or controversy arising out of or relating to this limited warranty, or breach thereof, shall be settled by arbitration administered by the American Arbitration Association in Milwaukee, Wisconsin in accordance with the Commercial Arbitration Rules of the American Arbitration Association. The laws of the State of Wisconsin shall be applied in any arbitration proceedings, without regard to principles of conflict of law. Each party shall bear its own costs, fees and expenses of arbitration. The arbitrator(s) determination and the basis for that determination shall be in writing and shall include an explanation of the basis for the determination. The determination of the arbitrator(s) shall be final and binding and judgment upon such determination may be entered in any court having jurisdiction. The arbitration proceedings and arbitration award shall be maintained by the parties as strictly confidential, except as otherwise required by court order or as is necessary to confirm, vacate, or enforce the award and for disclosure in confidence to the parties' respective attorneys, tax advisors, or senior management personnel. Furthermore, any action for breach of warranty must be commenced within three months following the expiration of the warranty period.



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KME FIRE APPARATUS - AERIAL DEVICE
TWENTY (20) – YEAR STRUCTURAL WARRANTY
(Domestic Fire Service)

1. **LIMITED WARRANTY.** Except as provided below, for a period beginning on the date of acceptance by the original purchaser/first end user (“Buyer”) and ending on the first to occur of the expiration of twenty (20) years or 100,000 miles of use KME Fire Apparatus warrants to the first end user that each new Aerial Device of its manufacture which is installed on its Fire and Rescue Apparatus vehicles shall be free of defects in materials and workmanship. This warranty shall apply to all structural load-supporting elements of the Aerial Device that are made of ductile material, as identified in the KME Fire Apparatus specifications for the Aerial Device. This warranty shall be void if, or to the extent that, the Aerial Device is not maintained in strict compliance with NFPA Standard 1911 in effect at time of sale, and including such periodic inspections and testing by qualified third parties as are required by that Standard as it may be in effect from time to time. Proof of such compliance shall accompany any claims under this warranty. Identification of third-party testing agencies known to KME Fire Apparatus to be qualified for such purposes may be obtained from the KME Customer Service Department. This limited warranty shall apply only if the Aerial Device is properly maintained and used in service which is normal to the particular vehicle on which it is installed. Normal service means service which does not subject the Aerial Device or vehicle to stresses or impacts greater than those that normally result from the careful use of the Aerial Device or vehicle. If the Buyer discovers a defect or nonconformity, it must notify KME Fire Apparatus in writing within thirty (30) days after the date of discovery. This limited warranty is not transferable by the first end user. KME Fire Apparatus makes no warranty whatsoever as to: (1) Integral parts, components, attachments or trade accessories not manufactured by KME Fire Apparatus, but instead, the applicable warranties, if any, of the respective manufacturers thereof shall apply; (2) Any Aerial Device, or component, part, attachment or accessory damaged by misuse, neglect or accident; (3) Any vehicle chassis or component, part, attachment or accessory that shall have been repaired, altered or assembled in any way by others than KME which, in the sole judgment of KME Fire Apparatus, affects the performance, integrity, stability or purpose for which it was manufactured; or (4) Products or parts which are not defective but which may wear out and have to be replaced during the warranty period, including, but not limited to, hoses, fluids, gaskets and light bulbs. KME Fire Apparatus assumes no responsibility for the assembly of its parts or sub-assemblies into finished products unless such assembly is performed by KME Fire Apparatus.

2. **DISCLAIMERS OF WARRANTIES.** THE WARRANTIES SET FORTH IN PARAGRAPH 1 ARE THE EXCLUSIVE WARRANTIES GIVEN BY KME FIRE APPARATUS. KME FIRE APPARATUS HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY IMPLIED WARRANTIES OTHERWISE ARISING FROM COURSE OF DEALING OR USAGE OF TRADE, EXCEPT AS PROHIBITED BY LAW.

3. **BUYER'S REMEDIES.** If the product fails to conform to the warranties as set forth in paragraph 1 and such nonconformity is not due to accident, misuse, improper maintenance, or other cause excluded under paragraph 1, Buyer shall notify KME Fire Apparatus as provided in paragraph 1, and shall make the product available for inspection by KME Fire Apparatus or its designated agent. At the request of KME Fire Apparatus, any defective part shall be returned to KME Fire Apparatus for examination, with transportation charges prepaid and assumed by shipper. Within a reasonable time after receipt, KME Fire Apparatus shall provide, at its option, with regard to a covered warranty claim, repair or replacement of any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance by KME Fire Apparatus. **THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.**

4. **EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES.** EXCEPT AS REQUIRED BY LAW, IN NO EVENT SHALL KME FIRE APPARATUS BE LIABLE FOR ANY INCIDENTAL, SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES, WHETHER RESULTING FROM NON-DELIVERY OR FROM THE USE, MISUSE OR INABILITY TO USE THE PRODUCT OR FROM DEFECTS IN THE PRODUCT OR FROM THE NEGLIGENCE OF KME FIRE APPARATUS OR FROM TORT. This exclusion applies regardless of whether such damages are sought for breach of warranty, breach of contract, negligence or strict liability in tort or under any other legal theory.

Note: Surety Bond, if a part of the sale of the vehicle to which this limited warranty is provided, applies only to the Basic One-Year Warranty for such vehicle, and not to any other warranty, extended or otherwise, made by KME Fire Apparatus or any KME Fire Apparatus Supplier.

KME continually strives to improve its products and, therefore, reserves the right to make improvements or changes without incurring any obligations to make such changes or additions on equipment previously sold.

Legal Remedies: Any claim or controversy arising out of or relating to this limited warranty, or beach thereof, shall be settled by arbitration administered by the American Arbitration Association in Milwaukee, Wisconsin in accordance with the Commercial Arbitration Rules of the American Arbitration Association. The laws of the State of Wisconsin shall be applied in any arbitration proceedings, without regard to principles of conflict of law. Each party shall bear its own costs, fees and expenses of arbitration. The arbitrator(s) determination and the basis for that determination shall be in writing and shall include an explanation of the basis for the determination. The determination of the arbitrator(s) shall be final and binding and judgment upon such determination may be entered in any court having jurisdiction. The arbitration proceedings and arbitration award shall be maintained by the parties as strictly confidential, except as otherwise required by court order or as is necessary to confirm, vacate, or enforce the award and for disclosure in confidence to the parties' respective attorneys, tax advisors, or senior management personnel. Furthermore, any action for breach of warranty must be commenced within three months following the expiration of the warranty period.



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STATEMENT OF WARRANTY 10-YEAR LIMITED PAINT AND PERFORATION

KME (the “Company”) warrants each new fire and rescue apparatus during the warranty period, when used in normal and reasonable manner. All apparatus shall be warranted against peeling, cracking, blistering and corrosion. This warranty shall provide for repair or replacement at KME’s option, any claim in accordance with the following terms and conditions.

WHAT IS COVERED

- **WARRANTY APPLIES** - This warranty is for all new fire and rescue apparatus manufactured by KME and is extended only to the original user-purchaser. The warranty registration must be received by KME within 30 days of the in-service for the warranty to apply.
- **REPAIRS COVERED** –The warranty covers repair or replacement at KME’s option. Repairs shall be made at a KME owned service facility or another approved service facility at KME’s option.
- **OBTAINING REPAIRS** –The original user-purchaser must notify KME in writing within 30 days after any claimed defect has appeared. Transportation costs to and from the servicing center shall be the responsibility of the user-purchaser.
- **WARRANTY PERIOD** –The warranty period shall begin upon delivery of the apparatus to the original user-purchaser. The warranty period shall be for TEN YEARS. Corrosion perforation is defined as complete penetration through the exterior metal of the apparatus. The following percentages apply:

<u>Topcoat & Appearance</u> Gloss, Color Retention, Cracking	<u>Coating System, Adhesion & Corrosion</u> Includes Dissimilar Metal Corrosion, Flaking, Blistering, Bubbling
0-72 Months 100%	0 To 36 Months 100%
73 To 120 Months 50%	37 To 84 Months 50%
	85 To 120 Months 25%

NOTES:

- Under carriage, cab and body interiors are covered under our standard one year warranty.
- Demonstration vehicles sold to an end user will have the full warranty, if sold within one year of demonstration service, and will be prorated if sold after the first year.

Attachment: FPARC-07057-002-0524 KME 101' TDA FINAL Quote [Revision 1] (3359 : AUTHORIZATION TO PURCHASE A 101' AERIAL LADDER

WHAT IS NOT COVERED

- ✓ Any cab not manufactured by KME.
- ✓ Damage caused by fire, misuse, negligence or accident.
- ✓ Damage caused by theft, vandalism, riot or explosion.
- ✓ Damage caused by lightning, earthquake, windstorm, hail, flood or use in an acidic environment (such as de-icing compounds, road salts and acid rain).
- ✓ Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of KME.
- ✓ Damage from lack of, maintenance and cleaning (proper cleaning and maintenance procedures are detailed in the KME maintenance manual).
- ✓ Gold leaf or striping except that which is affected by repair (Gold Leaf or striping must have been installed during manufacturing to be covered under this limited warranty).
- ✓ Loss of time, loss of use of the product, inconvenience, lodging, food or other consequential or incidental loss that may result from a failure.

Legal Remedies: Any claim or controversy arising out of or relating to this limited warranty, or breach thereof, shall be settled by arbitration administered by the American Arbitration Association in Milwaukee, Wisconsin in accordance with the Commercial Arbitration Rules of the American Arbitration Association. The laws of the State of Wisconsin shall be applied in any arbitration proceedings, without regard to principles of conflict of law. Each party shall bear its own costs, fees and expenses of arbitration. The arbitrator(s) determination and the basis for that determination shall be in writing and shall include an explanation of the basis for the determination. The determination of the arbitrator(s) shall be final and binding and judgment upon such determination may be entered in any court having jurisdiction. The arbitration proceedings and arbitration award shall be maintained by the parties as strictly confidential, except as otherwise required by court order or as is necessary to confirm, vacate, or enforce the award and for disclosure in confidence to the parties' respective attorneys, tax advisors, or senior management personnel. Furthermore, any action for breach of warranty must be commenced within three months following the expiration of the warranty period.



Report to City Council

TO: Mayor and City Council

FROM: Kathleen Sanchez, Human Resources Director

AGENDA DATE: June 4, 2019

TITLE: LIST OF PERSONNEL CHANGES

RECOMMENDED ACTION

Recommendation:

1. Ratify the list of personnel changes as described.

DISCUSSION

The attached list of personnel changes scheduled since the last City Council meeting is presented for City Council ratification.

Staffing of City positions ensures assignment of highly qualified and trained personnel to achieve Momentum MoVal priorities, objectives and initiatives.

FISCAL IMPACT

All position changes are consistent with appropriations previously approved by the City Council.

PREPARATION OF STAFF REPORT

Prepared By:
Denise Hansen
Executive Assistant

Department Head Approval:
Kathleen M. Sanchez
Human Resources Director

CITY COUNCIL GOALS

None

CITY COUNCIL STRATEGIC PRIORITIES

- 1. Economic Development
- 2. Public Safety
- 3. Library
- 4. Infrastructure
- 5. Beautification, Community Engagement, and Quality of Life
- 6. Youth Programs

ATTACHMENTS

- 1. Personnel Changes - 6.4.19

APPROVALS

Budget Officer Approval	<u>✓ Approved</u>	5/28/19 8:24 AM
City Attorney Approval	<u>✓ Approved</u>	5/28/19 10:49 AM
City Manager Approval	<u>✓ Approved</u>	5/30/19 12:00 PM

**City of Moreno Valley
Personnel Changes
June 4, 2019**

New Hires

Bryan Godinez
Network Administrator, City Manager's Office/Technology Services Division

Promotions

None

Transfers

None

Separations

None

Attachment: Personnel Changes - 6.4.19 (3407 : LIST OF PERSONNEL CHANGES)



Report to City Council

TO: Mayor and City Council
 Mayor and City Council Acting in its Capacity as
 President and Members of the Board of Directors of the
 Moreno Valley Community Services District (CSD)

FROM: Michael L. Wolfe, P.E., Public Works Director/City Engineer

AGENDA DATE: June 4, 2019

TITLE: AWARD OF AN ON-SITE AND/OR PROFESSIONAL
 SERVICES AGREEMENT FOR IRRIGATION PUMP
 MAINTENANCE (AGREEMENT NO. 2019-__) (CITY
 COUNCIL AND CSD BOARD)

RECOMMENDED ACTION

Recommendations:

1. Approve the Agreement for On-Site and/or Professional Services for Irrigation Pump Maintenance ("Agreement") with Eagle Pump Services, Inc., 12403 Central Ave. #428, Chino, CA 91710, and waive any and all minor irregularities, to provide irrigation pump maintenance services within landscape maintenance districts for a total contract amount not-to-exceed \$213,500.
2. Authorize the City Manager to execute the Agreement with Eagle Pump Services, Inc. and authorize the Public Works Director/City Engineer to execute subsequent amendments to the Agreement, in accordance with its terms, subject to the approval of the City Attorney and provided sufficient funding appropriations and program approvals have been granted by the City Council.

SUMMARY

This report recommends award of the Agreement to provide irrigation pump maintenance services within designated public landscape areas to Eagle Pump

Services, Inc. (the "Agreement") for a total contract amount not-to-exceed (NTE) \$213,500. The Agreement has a five-year term and is subject to an annual inflationary adjustment.

Funding for the public landscape and irrigation maintenance is provided through a parcel charge collected as part of the annual property tax bill. It is only applied to those properties receiving benefit from the public landscaping and where such qualified electors (registered voters or landowners) have approved the charges.

DISCUSSION

The City established landscape maintenance districts to provide the financial resources to maintain public landscaping in parkways, medians, and open space areas for designated developments throughout the community. Property owners within a landscape maintenance district pay a parcel charge as part of their annual property tax bill. Revenue received from the parcel charge funds the cost to provide the landscape and irrigation maintenance. The funds received are restricted and can only be used for landscape and irrigation maintenance services in the area for which they are collected.

Maintenance of the public landscaping and irrigation is performed by licensed and insured contractors. The contractors are selected through a competitive Request for Proposal (RFP) process every five-years, consistent with the City's Procurement Policy. The Uniform Public Construction Cost Accounting Act and Public Contract Code 22022 (Municipal Code 3.12.300) allows the use of the RFP procurement process for landscape maintenance services.

On March 14, 2019, an RFP for irrigation pump maintenance services was issued using the City's electronic bid and vendor management system (Planetbids). Two Hundred and sixty vendors were notified of the RFP, with three attending the optional pre-submittal meeting. Two responses were received before the RFP due date of 4:00 p.m. on April 11, 2019.

The RFP requested information on the proposer's: 1) ability to provide the services; 2) qualified staffing and equipment to perform services; 3) references; and 4) costs for various frequencies of service and additional work. Evaluations of the responses were independently completed by representatives from the Parks & Community Services Department and Special Districts Division, all of whom have landscape maintenance and/or contract management experience. Eagle Pump Services, Inc. (the "Contractor") was ranked the top proposer.

Staff recommends: 1) award of the Agreement to the Contractor, waiving any and all minor irregularities for a total contract amount NTE \$213,500; 2) authorizing the City Manager to execute it; and, 3) authorizing the Public Works Director/City Engineer to approve all future amendments (e.g. acceptance of new territory for maintenance), in accordance with the terms of the Agreement and subject to the approval of the City Attorney. Such amendments shall only be entered into provided they are within the authorized not-to-exceed amount and provided sufficient funding appropriations and program approvals have been granted by the City Council. Authorizing the Public Works

Director/City Engineer to amend the Agreement allows for adjustments for new areas or equipment assumed for maintenance by the City and additional work services, as may be necessary, within the five-year term without a delay in service.

This action meets the Strategic Plan Priorities by managing and maximizing Moreno Valley's public infrastructure to ensure an excellent quality of life, develop and implement innovative, cost effective infrastructure maintenance programs, public facilities management strategies, and capital improvement programming and project delivery.

The City Council will take action on this item, acting both as the City Council and CSD Board.

ALTERNATIVES

1. Approve the Agreement for irrigation pump maintenance services with Eagle Pump Services, Inc. and related recommended actions as presented in this staff report. *Staff recommends this alternative to provide uninterrupted services.*
2. Do not approve the Agreement with Eagle Pump Services, Inc. *Staff does not recommend this alternative as it may cause an interruption in providing irrigation pump maintenance services. Additional costs may be incurred to obtain another contractor with no guarantee that a more qualified contractor can be found at a better cost.*
3. Do not approve the Agreement with Eagle Pump Services, Inc. but continue the item to a future City Council meeting. *Staff does not recommend this alternative as it may cause an interruption in irrigation pump maintenance services.*

FISCAL IMPACT

Administration and maintenance costs to provide the maintenance of public landscaping and irrigation are funded through a property owner approved parcel charge levied on the property tax bill. Revenue from the parcel charge can only be used for costs associated with the landscape maintenance services. Costs for these services are included in the City's FY 2019/20 adopted Operating Budget and are allocated in the amounts as shown in the following table.

FY 2019/20							
Account Number/ Project	Zone	No. of Pumps	Testing Frequency	Base Work		Additional Work	Total
				Cost Per Pump	Total Testing Cost		
5111-70-79-25704-620910	D	6	Bi-Annual	\$ 220.00	\$ 2,640.00	\$ 6,360.00	\$ 9,000.00
5014-70-79-25721-620910 SD LMD ZN 01-TG	01	2	Bi-Annual	\$ 220.00	\$ 880.00	\$ 2,120.00	\$ 3,000.00
5014-70-79-25721-620910 SD LMD ZN 04-MVRE	04	1	Bi-Annual	\$ 220.00	\$ 440.00	\$ 1,060.00	\$ 1,500.00
5014-70-79-25721-620910 SD LMD ZN 05-SR	05	2	Bi-Annual	\$ 220.00	\$ 880.00	\$ 2,120.00	\$ 3,000.00
5014-70-79-25721-620910 SD LMD ZN 06-MF	06	3	Bi-Annual	\$ 220.00	\$ 1,320.00	\$ 3,180.00	\$ 4,500.00
5014-70-79-25721-620910 SD LMD ZN 09-SV	09 ¹	1	Bi-Annual	\$ 220.00	\$ 440.00	\$ 2,560.00	\$ 3,000.00
5112-70-79-25719-620910	M	3	Bi-Annual	\$ 220.00	\$ 1,320.00	\$ 2,680.00	\$ 4,000.00
2050-70-79-25722-620910	LM-02A	1	Bi-Annual	\$ 220.00	\$ 440.00	\$ 1,060.00	\$ 1,500.00
2050-70-79-25722-620910	LM-01K	1	Bi-Annual	\$ 220.00	\$ 440.00	\$ 1,060.00	\$ 1,500.00
2008-70-29-20450-620910	WQB	1	Bi-Annual	\$ 220.00	\$ 440.00	\$ 1,060.00	\$ 1,500.00
Totals		21			\$ 9,240.00	\$ 23,260.00	\$ 32,500.00

The term of the Agreement is for five years, beginning July 1, 2019. The Agreement is subject to an annual Consumer Price Index (CPI) inflation adjustment, at the discretion of the City and with appropriate City Council funding and program approvals. The following table is the estimated five-year value of the Agreement (including an estimate for annual CPI adjustments and addition of future areas).

Irrigation Pump Maintenance						
	FY 2019/20	FY 2020/21	FY 2021/22	FY 2022/23	FY 2023/24	Total
Base Work ¹	\$ 9,240.00	\$ 11,500.00	\$ 14,000.00	\$ 16,700.00	\$ 19,600.00	\$ 71,040.00
Additional Work ^{2,3}	\$ 23,260.00	\$ 25,600.00	\$ 28,200.00	\$ 31,100.00	\$ 34,300.00	\$ 142,460.00
Total	\$ 32,500.00	\$ 37,100.00	\$ 42,200.00	\$ 47,800.00	\$ 53,900.00	\$ 213,500.00

¹Base Work is for routine testing and maintenance of irrigation pumps.
²Additional Work is for unanticipated/emergency repairs, parts and labor.
³Additional work amounts are estimated and may fluctuate in any given year based on the area's ability to support the services and City Council approval of appropriate funding levels. Pricing is based on pricing terms of the Agreement (Exhibit E, Schedule II)

NOTIFICATION

The RFP was posted on the City's bid portal (PlanetBids) and was advertised in *The Press-Enterprise* on March 25 and 26, 2019. PlanetBids identified and notified 260 interested parties.

PREPARATION OF STAFF REPORT

Prepared By:
Candace E. Cassel
Special Districts Division Manager

Department Head Approval:
Michael L. Wolfe, P. E.
Public Works Director/City Engineer

Prepared By:

Concurred By:

Isa Rojas
Management Analyst

Angelic Davis
Purchasing & Facilities Division Manager

CITY COUNCIL GOALS

Positive Environment. Create a positive environment for the development of Moreno Valley's future.

Community Image, Neighborhood Pride and Cleanliness. Promote a sense of community pride and foster an excellent image about our City by developing and executing programs which will result in quality development, enhanced neighborhood preservation efforts, including home rehabilitation and neighborhood restoration.

CITY COUNCIL STRATEGIC PRIORITIES

1. Economic Development
2. Public Safety
3. Library
4. Infrastructure
5. Beautification, Community Engagement, and Quality of Life
6. Youth Programs

See the Discussion section above for details of how this action supports the City Council's Strategic Priorities.

ATTACHMENTS

1. Agreement for Irrigation Pump Maintenance Services

APPROVALS

Budget Officer Approval	<u>✓ Approved</u>	5/28/19 2:28 PM
City Attorney Approval	<u>✓ Approved</u>	5/29/19 9:15 AM
City Manager Approval	<u>✓ Approved</u>	5/30/19 1:38 PM

City of Moreno Valley

AGREEMENT FOR ON-SITE AND/OR PROFESSIONAL SERVICES

This Agreement is made by and between the City of Moreno Valley and Moreno Valley Community Services District, California, a municipal corporation, with its principal place of business at 14177 Frederick Street, Moreno Valley, CA 92552, hereinafter referred to as the “City”, and Eagle Pump Services, Inc., a Corporation, with its principal place of business at 12646 Orgren Ave., Chino, CA 91710 hereinafter referred to as the “Contractor,” based upon City policies and the following legal citations:

RECITALS

- A. Government Code Section 53060 authorizes the engagement of persons to perform special services as independent contractors;
- B. Contractor desires to perform and assume responsibility for the provision of professional irrigation pump maintenance services contracting services required by the City on the terms and conditions set forth in this Agreement. Contractor represents that it is experienced in providing professional irrigation pump maintenance services contracting services, is licensed in the State of California, if applicable;
- C. City desires to engage Contractor to render such services for the irrigation pump maintenance services as set forth in this Agreement;
- D. The public interest, convenience, necessity and general welfare will be served by this Agreement; and
- E. This Agreement is made and entered into effective the date the City signs this Agreement.

TERMS

1. CONTRACTOR INFORMATION:

Contractor’s Name: Eagle Pump Services, Inc.
 Address: 12646 Orgren Ave.
 City, State, Zip: Chino, CA 91710
 Business Phone: 909-229-7320
 Other Contact Number:
 Business License Number:
 Federal Tax I.D. Number: 41-2176394

2. CONTRACTOR SERVICES, FEES, AND RELEVANT DATES:

- A. The Contractor’s scope of service is described in Exhibit “A” attached hereto and incorporated herein by this reference.
- B. The City’s responsibilities, other than payment, are described in Exhibit “B” attached hereto and incorporated herein by this reference.

Attachment: Agreement for Irrigation Pump Maintenance Services [Revision 2] (3549 : AWARD OF AN ON-SITE AND/OR PROFESSIONAL

- C. Payment terms are provided in Exhibit “C” attached hereto and incorporated herein by this reference.
- D. The term of this Agreement shall be from July 1, 2019 to June 30, 2024 and as provided in Exhibit “D” attached hereto and incorporated herein by this reference, unless terminated earlier as provided herein. The City acknowledges that it will not unreasonably withhold approval of the Contractor’s requests for extensions of time in which to complete the work required. The Contractor shall not be responsible for performance delays caused by others or delays beyond the Contractor’s reasonable control (excluding delays caused by non-performance or unjustified delay by Contractor, his/her/its employees, or subcontractors), and such delays shall extend the time for performance of the work by the Contractor.
- E. The Contractor’s Proposal is provided in Exhibit “E” attached hereto and incorporated herein by this reference.

3. **STANDARD TERMS AND CONDITIONS:**

- A. Control of Work. Contractor is solely responsible for the content and sequence of the work, and will not be subject to control and direction as to the details and means for accomplishing the anticipated results of services. The City will not provide any training to Contractor or his/her/its employees.
- B. Intent of Parties. Contractor is, and at all times shall be, an independent contractor and nothing contained herein shall be construed as making the Contractor or any individual whose compensation for services is paid by the Contractor, an agent or employee of the City, or authorizing the Contractor to create or assume any obligation or liability for or on behalf of the City, or entitling the Contractor to any right, benefit, or privilege applicable to any officer or employee of the City.
- C. Subcontracting. Contractor may retain or subcontract for the services of other necessary contractors with the prior written approval of the City. Payment for such services shall be the responsibility of the Contractor. Any and all subcontractors shall be subject to the terms and conditions of this Agreement, with the exception that the City shall have no obligation to pay for any subcontractor services rendered. Contractor shall be responsible for paying prevailing wages where required by law [See California Labor Code Sections 1770 through 1777.7].
- D. Conformance to Applicable Requirements. All work prepared by Contractor shall be subject to the approval of City.
- E. Substitution of Key Personnel. Contractor has represented to City that certain key personnel will perform and coordinate the services under this Agreement. Should one or more of such personnel become unavailable, Contractor may substitute other personnel of at least equal competence upon written approval of City. In the event that City and Contractor cannot agree as to the substitution of key personnel, City shall be entitled to terminate this Agreement for cause. As discussed below, any personnel who fail or refuse to perform the services in a manner acceptable to the City, or who are

determined by the City to be uncooperative, incompetent, a threat to the adequate or timely completion of the project or a threat to the safety of persons or property, shall be promptly removed from the project by the Contractor at the request of the City. The key personnel for performance of this Agreement are as follows: Boue Roller.

- F. City's Representative. The City hereby designates the City Manager, or his or her designee, to act as its representative for the performance of this Agreement ("City's Representative"). Contractor shall not accept direction or orders from any person other than the City's Representative or his or her designee.
- G. Contractor's Representative. Contractor hereby designates Boue Roller, or his or her designee, to act as its representative for the performance of this Agreement ("Contractor's Representative"). Contractor's Representative shall have full authority to represent and act on behalf of the Contractor for all purposes under this Agreement. The Contractor's Representative shall supervise and direct the services, using his or her best skill and attention, and shall be responsible for all means, methods, techniques, sequences and procedures and for the satisfactory coordination of all portions of the services under this Agreement.
- H. Legal Considerations. The Contractor shall comply with applicable federal, state, and local laws in the performance of this Agreement. Contractor shall be liable for all violations of such laws and regulations in connection with services. If the Contractor performs any work knowing it to be contrary to such laws, rules and regulations and without giving written notice to the City, Contractor shall be solely responsible for all costs arising therefrom. Contractor shall defend, indemnify and hold City, its officials, directors, officers, employees and agents free and harmless, pursuant to the indemnification provisions of this Agreement, from any claim or liability arising out of any failure or alleged failure to comply with such laws, rules or regulations.
- I. Standard of Care; Performance of Employees. Contractor shall perform all services under this Agreement in a skillful and competent manner, consistent with the standards generally recognized as being employed by professionals in the same discipline in the State of California. Contractor represents and maintains that it is skilled in the profession necessary to perform the services. Contractor warrants that all employees and subcontractor shall have sufficient skill and experience to perform the services assigned to them. Finally, Contractor represents that it, its employees and subcontractors have all licenses, permits, qualifications and approvals of whatever nature that are legally required to perform the services and that such licenses and approvals shall be maintained throughout the term of this Agreement. Any employee of the Contractor or its subcontractors who is determined by the City to be uncooperative, incompetent, a threat to the adequate or timely completion of the project, a threat to the safety of persons or property, or any employee who fails or refuses to perform the services in a manner acceptable to the City,

shall be promptly removed from the project by the Contractor and shall not be re-employed to perform any of the services or to work on the project.

- J. Contractor Indemnification. Contractor shall indemnify, defend and hold the City, the Moreno Valley Housing Authority, and the Moreno Valley Community Services District (CSD), their officers, agents and employees harmless from any and all claims, damages, losses, causes of action and demands, including, without limitation, the payment of all consequential damages, expert witness fees, reasonable attorney's fees and other related costs and expenses, incurred in connection with or in any manner arising out of Contractor's performance of the work contemplated by this Agreement and this Agreement. Acceptance of this Agreement signifies that the Contractor is not covered under the City's general liability insurance, employee benefits, or worker's compensation. It further establishes that the Contractor shall be fully responsible for such coverage. Contractor's obligation to indemnify shall survive expiration or termination of this Agreement, and shall not be restricted to insurance proceeds, if any, received by the City, the Moreno Valley Housing Authority, and the CSD, and their officers, agents and employees.
- K. Additional Indemnity Obligations. Contractor shall defend, with counsel of City's choosing and at Contractor's own cost, expense and risk, any and all claims, suits, actions or other proceedings of every kind covered by Section "J" that may be brought or instituted against City, the Moreno Valley Housing Authority, and the CSD, and their officers, agents and employees. Contractor shall pay and satisfy any judgment, award or decree that may be rendered against City, the Moreno Valley Housing Authority, and the CSD, and their officers, agents and employees as part of any such claim, suit, action or other proceeding. Contractor shall also reimburse City for the cost of any settlement paid by City, the Moreno Valley Housing Authority, and the CSD, and their officers, agents and employees as part of any such claim, suit, action or other proceeding. Such reimbursement shall include payment for City's attorney's fees and costs, including expert witness fees. Contractor shall reimburse City, the Moreno Valley Housing Authority, and the CSD, and their officers, agents and employees for any and all legal expenses and costs incurred by each of them in connection therewith or in enforcing the indemnity herein provided.
- L. Insurance Requirements. The Contractor will comply with the following insurance requirements at its sole expense. Insurance companies shall be rated (A Minus: VII—Admitted) or better in Best's Insurance Rating Guide and shall be legally licensed and qualified to conduct business in the State of California:

The Contractor shall procure and maintain, at its sole expense, Workers' Compensation Insurance in such amounts as will fully comply with the laws of the State of California and which shall indemnify, insure and provide legal defense for the Contractor and the City, the Housing Authority and CSD against any loss, claim, or damage arising from any injuries or occupational diseases happening to any worker employed by the Contractor in the course of

carrying out the Agreement. This coverage may be waived if the Contractor is determined to be functioning as a sole proprietor and the city provided form "Exception to Worker's Compensation Coverage" is signed, notarized and attached to this Agreement

X General Liability Insurance—to protect against loss from liability imposed by law for damages on account of bodily injury, including death, and/or property damage suffered or alleged to be suffered by any person or persons whomever, resulting directly or indirectly from any act or activities of the Contractor, sub-Contractor, or any person acting for the Contractor or under its control or direction. Such insurance shall be maintained in full force and effect throughout the terms of the Agreement and any extension thereof in the minimum amounts provided below:

- Bodily Injury \$1,000,000 per occurrence/ \$2,000,000 aggregate
- Property Damage \$500,000 per occurrence/ \$500,000 aggregate

Professional Errors and Omission Insurance—such coverage shall not be less than \$1,000,000 per claim and aggregate.

X Liability and Property Damage Insurance coverage for owned and non-owned automotive equipment operated on City/CSD/Housing Authority premises. Such coverage limits shall not be less than \$1,000,000 combined single limit.

X A Certificate of Insurance and appropriate additional insured endorsement evidencing the above applicable insurance coverage shall be submitted to the City prior to the execution of this Agreement. The Certificate of Insurance or an appropriate binder shall bear an endorsement containing the following provisions:

Solely as respect to services done by or on behalf of the named insured for the City of Moreno Valley, it is agreed that the City of Moreno Valley, the Moreno Valley Housing Authority, and the Moreno Valley Community Services District, their officers, employees and agents are included as additional insured under this policy and the coverage(s) provided shall be primary insurance and not contributing with any other insurance available to the City of Moreno Valley, the Moreno Valley Housing Authority, and the Moreno Valley Community Services District, its officers, employees and agents, under any third party liability policy

The terms of the insurance policy or policies issued to provide the above coverage shall neither be amended to reduce the required insurance limits and coverages nor shall such policies be canceled by the carrier without thirty (30) days prior written notice by certified or registered mail of amendment or cancellation to the City, except that cancellation for non-payment of premium shall require ten (10) days prior written notice by certified or registered mail.

In the event the insurance is canceled, the Contractor shall, prior to the cancellation date, submit new evidence of insurance in the amounts established.

- M. Intellectual Property. Any system or documents developed, produced or provided under this Agreement, including any intellectual property discovered or developed by Contractor in the course of performing or otherwise as a result of its work, shall become the sole property of the City unless explicitly stated otherwise in this Agreement. The Contractor may retain copies of any and all material, including drawings, documents, and specifications, produced by the Contractor in performance of this Agreement. The City and the Contractor agree that to the extent permitted by law, until final approval by the City, all data shall be treated as confidential and will not be released to third parties without the prior written consent of both parties.
- N. Entire Agreement. This Agreement constitutes the entire agreement between the parties. There are no understandings, agreements, or representations of warranties, expressed or implied, not specified in this Agreement. This Agreement applies only to the current proposal as attached. This Agreement may be modified or amended only by a subsequent written Agreement signed by both parties. Assignment of this Agreement is prohibited without prior written consent.
- O. (a) The City may terminate the whole or any part of this Agreement at any time without cause by giving at least ten (10) days written notice to the Contractor. The written notice shall specify the date of termination. Upon receipt of such notice, the Contractor may continue work through the date of termination, provided that no work or service(s) shall be commenced or continued after receipt of the notice which is not intended to protect the interest of the City. The City shall pay the Contractor within thirty (30) days after receiving any invoice after the date of termination for all non-objected to services performed by the Contractor in accordance herewith through the date of termination.
- (b) Either party may terminate this Agreement for cause. In the event the City terminates this Agreement for cause, the Contractor shall perform no further work or service(s) under the Agreement unless the notice of termination authorizes such further work.
- (c) If this Agreement is terminated as provided herein, City may require Contractor to provide all finished or unfinished documents and data and other information of any kind prepared by Contractor in connection with the performance of services under this Agreement. Contractor shall be required to provide such documents and other information within fifteen (15) days of the request.
- (d) In the event this Agreement is terminated in whole or in part as provided herein, City may procure, upon such terms and in such manner as it may determine appropriate, similar to those terminated.
- P. Payment. Payments to the Contractor pursuant to this Agreement will be reported to Federal and State taxing authorities as required. The City will not withhold any sums from compensation payable to Contractor. Contractor is

independently responsible for the payment of all applicable taxes. Where the payment terms provide for compensation on a time and materials basis, the Contractor shall maintain adequate records to permit inspection and audit of the Contractor’s time and materials charges under the Agreement. Such records shall be retained by the Contractor for three (3) years following completion of the services under the Agreement.

- Q. Restrictions on City Employees. The Contractor shall not employ any City employee or official in the work performed pursuant to this Agreement. No officer or employee of the City shall have any financial interest in this Agreement in violation of federal, state, or local law.
- R. Choice of Law and Venue. The laws of the State of California shall govern the rights, obligations, duties, and liabilities of the parties to this Agreement, and shall govern the interpretation of this Agreement. Any legal proceeding arising from this Agreement shall be brought in the appropriate court located in Riverside County, State of California.
- S. Delivery of Notices. All notices permitted or required under this Agreement shall be given to the respective parties at the following address, or at such other address as the respective parties may provide in writing for this purpose:

Contractor:

Eagle Pump Services, Inc.
12403 Central Ave. #428
Chino, CA 91710
Attn: Boue Roller, President

City:

City of Moreno Valley
14177 Frederick Street
P.O. Box 88005
Moreno Valley, CA 92552
Attn: Special Districts Division

Such notice shall be deemed made when personally delivered or when mailed, forty-eight (48) hours after deposit in the U.S. Mail, first class postage prepaid and addressed to the party at its applicable address. Actual notice shall be deemed adequate notice on the date actual notice occurred, regardless of the method of service.

- T. Time of Essence. Time is of the essence for each and every provision of this Agreement.
- U. City’s Right to Employ Other Contractors. City reserves right to employ other contractors in connection with this project.
- V. Amendment; Modification. No supplement, modification, or amendment of this Agreement shall be binding unless executed in writing and signed by both parties.

- W. Waiver. No waiver of any default shall constitute a waiver of any other default or breach, whether of the same or other covenant or condition. No waiver, benefit, privilege, or service voluntarily given or performed by a party shall give the other party any contractual rights by custom, estoppel, or otherwise.
- X. No Third Party Beneficiaries. There are no intended third party beneficiaries of any right or obligation assumed by the parties.
- Y. Counterparts. This Agreement may be signed in counterparts, each of which shall constitute an original.
- Z. Invalidity; Severability. If any portion of this Agreement is declared invalid, illegal, or otherwise unenforceable by a court of competent jurisdiction, the remaining provisions shall continue in full force and effect.
- AA. Assignment or Transfer. Contractor shall not assign, hypothecate, or transfer, either directly or by operation of law, this Agreement or any interest herein without the prior written consent of the City. Any attempt to do so shall be null and void, and any assignees, hypothecates or transferees shall acquire no right or interest by reason of such attempted assignment, hypothecation or transfer.
- BB Supplementary General Conditions (for projects that are funded by Federal programs). The following provisions, pursuant to 44 Code of Federal Regulations, Part 13, Subpart C, Section 13.36, as it may be amended from time to time, are included in the Agreement and are required to be included in all subcontracts entered into by CONTRACTOR for work pursuant to the Agreement, unless otherwise expressly provided herein. These provisions supersede any conflicting provisions in the General Conditions and shall take precedence over the General Conditions for purposes of interpretation of the General Conditions. These provisions do not otherwise modify or replace General Conditions not in direct conflict with these provisions. Definitions used in these provisions are as contained in the General Conditions.
1. CONTRACTOR shall be subject to the administrative, contractual, and legal remedies provided in the General Conditions in the event CONTRACTOR violates or breaches terms of the Agreement.
 2. CITY may terminate the Agreement for cause or for convenience, and CONTRACTOR may terminate the Agreement, as provided the General Conditions.
 3. CONTRACTOR shall comply with Executive Order 11246 of September 24, 1965, entitled Equal Employment Opportunity, as amended by Executive Order 11375 of October 13, 1967, and as supplemented in Department of Labor regulations (41 CFR chapter 60). (All construction contracts awarded in excess of \$10,000 by CITY and/or subcontracts in excess of \$10,000 entered into by CONTRACTOR.)
 4. CONTRACTOR shall comply with the Copeland Anti-Kickback Act (18 U.S.C. 874) as supplemented in Department of Labor regulations (29 CFR Part 3) (All contracts and subcontracts for construction or repair.)

5. CONTRACTOR shall comply with the Davis-Bacon Act (40 U.S.C. 276a to 276a7) as supplemented by Department of Labor regulations (29 CFR Part 5).

6. CONTRACTOR shall comply with Sections 103 and 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 327330) as supplemented by Department of Labor regulations (29 CFR Part 5).

7. CONTRACTOR shall observe CITY requirements and regulations pertaining to reporting included in the General Conditions.

8. Patent rights with respect to any discovery or invention which arises or is developed in the course of or under the Agreement shall be retained by the CITY.

9. Copyrights and rights in data developed in the course of or under the Agreement shall be the property of the CITY. FEMA/CalOES reserve a royalty-free, nonexclusive, irrevocable license to reproduce, publish or otherwise use or authorize to others to use for federal purposes a copyright in any work developed under the Agreement and/or subcontracts for work pursuant to the Agreement.

10. CONTRACTOR shall provide access by the City, the Federal grantor agency, the Comptroller General of the United States, or any of their duly authorized representatives to any books, documents, papers, and records of the contractor which are directly pertinent to that specific contract for the purpose of making audit, examination, excerpts, and transcriptions.

11. CONTRACTOR shall retain all required records for three years after CITY makes final payments and all other pending matters relating to the Agreement are closed.

12. CONTRACTOR shall comply with all applicable standards, orders, or requirements issued under section 306 of the Clean Air Act (42 U.S.C. 1857(h)), section 508 of the Clean Water Act (33 U.S.C. 1368), Executive Order 11738, and Environmental Protection Agency regulations (40 CFR part 15). (This provision applies to contracts exceeding \$100,000 and to subcontracts entered into pursuant to such contracts.)

13. CONTRACTOR shall comply with mandatory standards and policies relating to energy efficiency which are contained in the State energy conservation plan issued in compliance with the Energy Policy and Conservation Act (Pub. L. 94163, 89 Stat. 871).

SIGNATURE PAGE TO FOLLOW

Attachment: Agreement for Irrigation Pump Maintenance Services [Revision 2] (3549 : AWARD OF AN ON-SITE AND/OR PROFESSIONAL

IN WITNESS HEREOF, the parties have each caused their authorized representative to execute this Agreement.

City of Moreno Valley and
Moreno Valley Community Services
District

Eagle Pump Services, Inc.

By: _____
Title: Thomas M. DeSantis, City Manager

By: _____
Title: (President or Vice President)

By: _____
Title: Thomas M. DeSantis, City
Manager, Acting in the capacity of
District Manager to the Moreno
Valley Community Services District

Date: _____

Date: _____

By: _____
Title: Corporate Secretary or Assistant
Secretary

<u>INTERNAL USE ONLY</u>
ATTEST:
_____ City Clerk <i>(only needed if Mayor signs)</i>
APPROVED AS TO LEGAL FORM:
_____ City Attorney
_____ Date
RECOMMENDED FOR APPROVAL:
_____ Department Head <i>(if contract exceeds 15,000)</i>
_____ Date

Date: _____

Affix Corporate Seal Below

Attachment: Agreement for Irrigation Pump Maintenance Services [Revision 2] (3549 : AWARD OF AN ON-SITE AND/OR PROFESSIONAL

EXHIBIT A – SCOPE OF WORK

IRRIGATION PUMP MAINTENANCE

1. GENERAL PROVISIONS

- A. The work to be performed under this agreement shall include the furnishing of all labor, material, and equipment necessary for the provision of irrigation pump maintenance services within the boundaries of the various City landscape maintenance districts, zones, or City responsible landscape areas as determined in the resolutions or agreements of the City Council and/or Community Services District Board establishing said landscape maintenance, zones, or City responsible landscape areas and as said boundaries may have been heretofore or may be hereafter amended, and as more particularly described in the Project Locations included herein and as may be amended during the term of this Agreement
- B. All work shall be performed in accordance with usual and industry practices for irrigation pump maintenance services. The Public Works Director of the City of Moreno Valley, or his/her delegated representative(s), hereinafter designated as "Director" will periodically inspect all the operations and approve or reject the work performed, and methods or materials used, and make changes in the work scheduling.
- C. The Contractor shall be responsible for carefully reviewing the site(s). The Contractor shall not be relieved of his/her/its liability under this agreement, nor shall the City be held liable for any loss sustained by the Contractor for any variance between conditions as referred to herein and the actual conditions revealed during the examination of the locations of the proposed work.
- D. All work shall be performed in accordance with the provisions of this agreement and in accordance with an approved service schedule, as approved by the Director. Service schedules may be modified with 30 days advance written notice by the City.
- E. Failure to adhere to comply with any provisions included herein may result in the assessment of non-performance penalties per Exhibit C.
- F. All equipment used in the performance of work under this agreement shall be compliant with the current regulations of the California Air Resources Board.

2. TECHNICAL PROVISIONS

A. GENERAL TECHNICAL REQUIREMENTS

- 1. During the entire term of the agreement, Contractor and subcontractor, if any, shall hold a valid California State Contractors License Class C-10.

2. Contractor shall perform comprehensive testing and maintenance twice (2 times) per fiscal year (from each July 1st to June 30th) of each irrigation pump located within the City's landscaped service areas to ensure proper operation. Testing shall occur during the months of July and January each year for each location listed in the location maps and include any additional areas that may be added after the commencement of this Contract or any extension thereof.
3. Contractor shall perform such irrigation pump maintenance, repairs, replacements, etc. in compliance with The National Electrical Code, 2014 Edition (or most current), as published by the National Fire Protection Association as well as applicable Federal, State, and local agency laws and regulations.
4. All electrical equipment used shall conform to the standards of the National Electrical Manufacturers Association (NEMA), the Underwriters Laboratories Inc. (UL), or the Electronic Industries Association as described in Section 209 of the "Greenbook" Standard Specifications for Public Works Construction 2009 Edition (or most current).
5. Contractor shall provide all labor, materials, equipment, and administrative costs necessary to perform the above-referenced tests, maintenance, repairs, etc.

B. MAINTENANCE AND REPAIR PROCEDURES

1. Pumps
 - a. Adjust packing as necessary
 - b. Check sniffer valve
 - c. Clean bleed lines
 - d. Inspect shaft for wear and scoring
 - e. Tighten bolts as necessary
 - f. Check head shaft adjustment nut and lubricate
 - g. Acid clean pump heads
 - h. Perform deadhead pressure and amp readings
2. Motors
 - a. Perform megger motor insulation test
 - b. Check motor leads at motor connection box
 - c. Lubricate motor bearings per manufacturers guidelines
 - d. Tighten bolts as necessary
 - e. Check for vibration
 - f. Check for bearing noise
 - g. Change motor oil
 - h. Clean intake and exhaust screens

- i. Blow out windings with compressed nitrogen as necessary
3. Valves
 - a. Check station isolation valves
 - b. Check pump isolation valves
 - c. Check pump check valves
4. Hydraulic Control and relief valves
 - a. Acid clean control line strainer
 - b. Blow out control lines
 - c. Flush bonnet
 - d. Polish stem
 - e. Replace o-rings as necessary
 - f. Check micro switches
 - g. Inspect valve body
 - h. Check CRL interstage pilot control and calibrate to design pressure
 - i. Check CRD downstream pilot control and calibrate to design pressure
 - j. Check CRL surge pilot control and calibrate to design pressure
 - k. Check CRL relief pilot control and calibrate to 15 psi above set point
 - l. Test valve operation.
5. Filtration
 - a. Test control circuits
 - b. Check timer settings and adjust as necessary
 - c. Acid clean control line strainers for all filtration circuits
 - d. Check pressure drop across main line filter
 - e. Check heat exchanger solenoid valve and operation
 - f. Check flush line valve operation
 - g. Check automatic lake screen operation
 - h. Check CRL relief pilot control and calibrate to 15 psi above set point
6. Tank and skid
 - a. Check air release valve
 - b. Check bladder
 - c. Check recycle probes and acid clean as necessary
 - d. Check recycle compressor belts
 - e. Check recycle compressor oil and change as necessary

- f. Check skid for corrosion and decay
 - g. Clean skid and wash down as necessary
7. Variable speed drive
- a. Perform visual inspection of circuit boards and components
 - b. Check connections
 - c. Blow out all boards and components
 - d. Check cooling fan operations
 - e. Check fault log
 - f. Check volts/hertz setting and calibrate as necessary
 - g. Test drive operation
8. Control logic
- a. Check low discharge pressure safety
 - b. Check high discharge pressure safety
 - c. Check low level safety operation
 - d. Acid clean level probes
 - e. Check phase monitor setting and calibrate
 - f. Check high temperature safeties
 - g. Check loss of prime safety
 - h. Check remote well/lake fill controls
 - i. Check lead /lag operation

3. SCHEDULING OF WORK

- A. When inclement weather renders performance per the approved schedule unsafe, impractical, or liable to damage landscaping, the Contractor is required to submit an adjusted work schedule to the Director for approval, which will allow the Contractor to complete the areas affected and resume work in all areas in accordance with the approved service schedule.
- B. For the purposes of this agreement, "Working Days" are Mondays through Fridays, excluding holidays as provided herein. The hours of on-site maintenance service will be from 7:00 a.m. to 4:00 p.m., not including mobilization to or from work site, on those days maintenance is to be provided pursuant to the work schedule as approved by the Director. Any work the Contractor proposes to perform outside of the days and hours set forth hereinabove, as well as on legal City holidays, shall not be undertaken without the prior written approval of the Director.

The following days have been designated as City holidays:

New Year’s Day	January 1
Martin Luther King Jr. Day	3rd Monday in January
President’s Day	3rd Monday in February
Memorial Day	Last Monday in May
Independence Day	July 4
Labor Day	1st Monday in September
Veteran’s Day	November 11
Thanksgiving Day	4th Thursday in November
Day after Thanksgiving	4th Friday in November
Christmas Eve	December 24
Christmas Day	December 25

If a holiday falls on a Sunday, the following Monday shall be the day the holiday is observed. If a holiday falls upon a Saturday, the preceding Friday shall be the day the holiday is observed. If a scheduled maintenance service day falls on a designated holiday, the Contractor shall submit a proposed make-up day for the Director’s approval.

4. FUNCTIONS AND RESPONSIBILITIES

- A. For award of the agreement to a Contractor who has not performed irrigation pump maintenance services for the site(s) as identified within this agreement for the prior year’s contracting term, the Director and Contractor shall conduct an inspection of all sites covered under this agreement as soon as practicable after its execution, and prior to commencement of Contractor’s operations. Following said inspection, the Contractor shall submit to the Director a written affidavit certifying the actual condition of the site(s) relative to the City Specifications, including but not limited to the nature and extent of any deficiencies noted by the Contractor, and acknowledged by the Director. The Contractor is hereby advised that this affidavit shall serve as the benchmark for the Director’s evaluation of Contractor’s performance under this agreement.
- B. The Director may require the Contractor to attend meetings with the City field staff at some fixed interval to review the Contractor’s operations, and schedule future work as may be ordered by the Director.
- C. The Contractor shall maintain an office at some fixed place, and be listed in the telephone directory in Contractor’s own name or in the Contractor’s name.
- D. Contractor shall at all times employ some responsible person(s) to receive phone calls and take the necessary action regarding all inquiries, complaints, and/or emergency calls that may be received from the Director or other authorized

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individuals or agencies as listed below. This person(s) shall be reachable twenty-four (24) hours per day, seven (7) days a week. Contractor shall notify the Director at specialdistricts@moval.org within three (3) calendar days of any change of the name or contact information of the responsible person(s).

- E. During normal working hours, the Contractor's Supervisor or designated employee responsible for providing maintenance services to the City shall be directly available for immediate notification through some type of reliable electronic means, including but not limited to, mobile or cellular phone.
- F. The Contractor or Contractor's designated employee shall confirm said notification within one (1) hour of receipt. An answering service will be considered an acceptable substitute for coverage only during periods outside of normal working hours, provided Contractor is advised of emergency calls within one (1) hour of receipt of the call by the answering service and within twenty-four (24) hours after receipt of non-emergency calls by the answering service. The above provision for Contractor's communication with the City is the minimum acceptable standard under this agreement.
- G. The Contractor shall respond to an emergency call from any of the parties listed herein this section no later than two (2) hours following first notification by telephone, written email, written mailed correspondence or facsimile transmission. In situations involving emergency repair work after normal working hours, the Contractor shall dispatch qualified personnel, and equipment to reach the site within two (2) hours of first notification. An emergency may be called by the following individuals or agencies at any time:
 - 1. City Manager/Assistant City Manager
 - 2. Public Works Director
 - 3. Police Department
 - 4. Fire Department
 - 5. Special Districts Division Manager
 - 6. Landscape Services Supervisor
 - 7. Street Maintenance Supervisor
 - 8. Landscape Services Inspector or Stand-By Staff
- H. Contractor's emergency response and any necessary corrective work shall be considered Additional Work as defined in Exhibit C, unless said emergency is determined to have been caused by an act or omission attributable to the Contractor.

5. COMPLAINTS

- A. All complaints shall be responded to as soon as possible after notification, but in all cases within twenty-four (24) hours, to the satisfaction of the Director. If any complaint is not satisfactorily responded to within twenty-four (24) hours, the Director shall be notified immediately of the reason for not remedying the complaint followed by a written report to the Director within five (5) working days. If the complaints are not remedied within the time specified, and to the satisfaction of the Director, the Director may correct the specific complaint by using an alternative source. The total cost incurred by the District to effect

necessary remedies will be deducted from the payments owing to the Contractor from the City, per Exhibit C.

- B. The Contractor shall maintain a written record of all complaints, the date and time thereof, and the action taken pursuant thereto, or the reason for non-action. Said record shall be submitted to the Director monthly, if any.
- C. In addition to the provisions included herein, in the event of a failure by the Contractor to satisfactorily remedy a complaint in a timely manner or for any other breach of this agreement by Contractor, the City may immediately, upon written notice to the Contractor, terminate this agreement.

6. CONTRACTOR'S STAFF

- A. The Contractor shall provide sufficient personnel to perform all work in accordance with the Specifications set forth herein. All of the Contractor's maintenance personnel shall be supervised at the work site(s) by a qualified Supervisor in the employ of the Contractor. Work Site Supervisors must be able to demonstrate to the satisfaction of the Director that they possess adequate technical background, and communication skills to perform the intended services. Adequate and competent supervision shall be provided for all work done by the Contractor's employees to ensure accomplishment of high quality work, which will be acceptable to the Director. Any order or communication given to the Work Site Supervisor shall be deemed to have been delivered to the Contractor.
- B. The Contractor and his employees and subcontractors, if any, shall conduct themselves in a proper, professional, and efficient manner at all times, and shall cause the least possible inconvenience to the public.
- C. The Director may require the Contractor to remove from the work site any employee(s) deemed careless, incompetent, or otherwise objectionable, whose continued employment on the job is considered to be contrary to the best interests of the City.
- D. The Contractor shall require each employee performing work under the agreement to adhere to basic public works standards of working attire, including but not limited to wearing of proper clothing, proper shoes, and other gear required by applicable Safety Regulations and/or fertilizer/pesticide label requirements.
- E. Shirts shall be worn at all times, and shall be buttoned. Approved safety vests shall be worn by Contractor's employees when working on parkway medians, monuments, parkways, and other high traffic-hazard areas as determined by the Director.
- F. The Contractor shall establish an identification system for Contractor's personnel which clearly indicates to the public the name of the Contractor. The

identification system shall be furnished at the Contractor's expense and may include appropriate attire, and/or name badges as specified by the Director.

7. EMPLOYMENT OF APPRENTICES

- A. The provisions of Sections 1777.5, 1777.6, and 1777.7 of the California Labor Code regarding the employment of properly registered apprentices may apply to this agreement if the Contractor, or any subcontractors thereunder, employs workers in any apprenticeable craft or trade. It is the Contractor's sole responsibility to comply with the Labor Code sections cited above. Information relative to apprenticeship standards, wage schedules, and other requirements may be obtained from the California Department of Industrial Relations.

8. SAFETY

- A. The Contractor agrees to perform all work as outlined in the provisions listed herein in such a manner as to meet all accepted standards for safe practices and to safely maintain equipment, machines, and materials, and prescribe and employ all precautions and safety procedures related to other hazards consequential to the work; and accepts additionally the sole responsibility for complying with all local, State, Federal and other legal requirements including but not limited to, full compliance with the terms of any and all applicable OSHA and Cal/OSHA Safety Orders at all times so as to protect all persons, including Contractor's employees and subcontractors, agents of the City, District, materialmen, vendors, members of the public and others from foreseeable injury, or damage to their property.
- B. The Contractor's operations shall be conducted in such a manner as to cause the least possible obstruction, and inconvenience to public traffic. The Contractor shall furnish, erect and maintain such fences, barriers, lights and warning signs as may be deemed necessary by the Director, or any duly constituted public safety official.
- C. Contractor's work area traffic control, including but not limited to, type and placement of signs, barricades, and delineators, shall be in accordance with the "Manual of Uniform Traffic Control Devices, 2012 (or most current revised version) California Supplement" Part 6 Temporary Traffic Control.
- D. Contractor's work should not encroach into open lanes of traffic between the hours of 7:00 a.m. and 8:30 a.m., or between the hours of 3:30 p.m. and 6:00 p.m.
- E. The Contractor shall maintain all work sites free of hazards to persons or property resulting from Contractor's operations. The Contractor shall inspect for all potential hazards at said areas under maintenance, and keep a record indicating date inspected, and action taken. Said record shall be submitted to the Director monthly. Any hazardous condition noted by the Contractor, which is not a result of Contractor's operations, shall be immediately reported to the Director.

- F. The Contractor shall cooperate fully with the City in the investigation of any accidental injury or death occurring on the site, including a complete written report thereof to the Director within five (5) working days following the occurrence.
- G. In addition to payment deduction or assessment of non-performance penalties, repeated failure to comply with the provisions of this section may result in termination of the agreement, per the terms of the Independent Contractor Agreement.

9. LICENSES AND PERMITS

- A. The Contractor shall, without additional expense to the City, possess all federal, state, and local licenses and permits, including but not limited to a valid City Business License, required for the performance of the work under this agreement.

10. DEPARTMENT OF INDUSTRIAL REGULATIONS

- A. California law provides that "A contractor or subcontractor shall not be qualified to bid on, be listed in a bid proposal, subject to the requirements of Section 4104 of the Public Contract Code, or engage in the performance of any contract for public work, as defined in this chapter, unless currently registered and qualified to perform work pursuant to Labor Code Section 1725.5." Please refer to "Contractor Registration" from <http://www.dir.ca.gov/PublicWorks/PublicWorks.html> to register and obtain more information.
- B. Contractor and all tiers of its subcontractors must be registered and maintain a current registration during the term of this agreement.
- C. Pursuant to the above law, no contractor or subcontractor may be listed on a bid proposal for a public works project unless registered with the Department of Industrial Relations pursuant to Labor Code Section 1725.5 [with limited exceptions from this requirement for bid purposes only under Labor Code Section 1771.1(a)]. Additionally, no contractor or subcontractor may be awarded a contract for public work on a public works project (awarded on or after April 1, 2015) unless registered with the Department of Industrial Relations pursuant to Labor Code Section 1725.5.
- D. This project is also subject to compliance monitoring and enforcement by the Department of Industrial Relations. The City of Moreno Valley will not accept a proposal nor will it contract or subcontract without proof of the contractor or subcontractor's current registration to perform public works pursuant to Section 1725.5.
- E. Contractor acknowledges and agrees to fully comply with the provisions of Section 1771, 1774 - 1776, 1777.5, 1813, 1815 and 1860 of the Labor Code

11. PAYROLL RECORDS

- A. The Contractor, and any subcontractor thereunder, shall keep complete accurate payroll records for each workman employed by Contractor/ subcontractor in connection with this agreement, as required by California Labor Code Section 1776.
- B. The Contractor, and any subcontractor thereunder, shall make available to the City upon its request certified payroll records for each workman employed in connection with this agreement as required by California Labor Code Section 1776.
- C. The City may withhold from Contractor's progress payments the penal sum of twenty-five dollars (\$25.00) per calendar day (or portion thereof) for each worker employed in connection with this agreement should Contractor, or any subcontractors thereunder, fail to strictly comply with California Labor Code 1776 after receiving written notice of non-compliance.

12. PREVAILING WAGE AND WORKERS' COMPENSATION

- A. Pursuant to provision of Section 1773 of the Labor Code of the State of California, the City of Moreno Valley has obtained the general prevailing rate of per diem wages applicable for the work to be done, including but not limited to: straight time, overtime and holiday work; travel and subsistence payments; employee payments of health and welfare, vacation, pension, and similar purposes. Said rate and scale are on file with the Public Works Department of the City of Moreno Valley, and copies will be made available to any interested party on request. These rates shall be the minimum wage rates for this project. Throughout the term of this agreement, the Contractor will be required to post a copy of said rate, and scale as required by the Labor Code.
- B. Pursuant to provisions of Section 1775 of the Labor Code, the Contractor shall forfeit as penalty to the City of Moreno Valley, not more than fifty dollars (\$50.00) for each laborer, workman, or mechanic employed for each calendar day or portion thereof, if such laborer, workman, or mechanic is paid less than the general prevailing rate of wages hereinabove stipulated for any work done under the attached agreement, by the Contractor or by any subcontractor under Contractor's direction and control, in violation of the provisions of said Labor Code.
- C. In accordance with the provisions of Section 3700 of the Labor Code, every contractor will be required to secure the payment of compensation to his employees.

13. BONDS

- A. Pursuant to Section 3247 of the Civil Code, the Contractor hereby agrees to provide and maintain in full force and effect for the duration of this agreement, three (3) good, and sufficient surety bonds, to wit:
1. A "Bid Bond" in the amount of ten percent (10%) of the proposed bid price, which shall guarantee the compliance with the bid contract and ensure the contractor will enter into the contract if it is awarded, and;
 2. A "Faithful Performance Bond" in the amount of one hundred percent (100%) of the agreement price, which shall guarantee the faithful performance of all work, and;
 3. A "Materials and Labor Bond" in the amount of one hundred percent (100%) of the agreement price, which shall secure the payment of the claims of labor, mechanics or materialmen for all work performed hereunder.
- B. If the successful bidder neglects or refuses to enter into the agreement, or to provide the supplies, materials or equipment according to specifications within the required time, then the amount of the bidder's security shall be declared forfeited to the city. Amounts collected shall be paid into the appropriate fund. All bonds forfeited shall be prosecuted and the amount thereof collected and paid into such fund.
- C. All bids not submitted with the requested bidder's security shall be rejected. Unsuccessful bidders shall be entitled to the return of security when such has been requested.
- D. Surety Bonds shall be made payable to the City and in one of the following forms:
1. Certified or cashier's check;
 2. Bidders bond made payable to the City. Bond to be executed by a corporate surety authorized to engage in such business in California, and listed in the U.S. Department of Treasury's listing of approved sureties;
 3. Cash (U.S. funds only). (Ord. 844 § 2, 2012)

14. SUBSTITUTION OF SECURITIES

- A. Pursuant to California Public Contract Code Section 22300, the Contractor will be permitted the substitution of securities for any monies withheld by the City of Moreno Valley to ensure performance under the agreement. At the request and expense of the Contractor, securities equivalent to the amount withheld shall be deposited with the City of Moreno Valley, or with a state or federally chartered bank as the escrow agent, who shall pay such monies to the Contractor.
- B. Securities eligible for substitution under this section shall include those listed in Section 16430 of the Government Code, bank or savings and loan certificates of deposit, interest-bearing demand deposit accounts, and standby letters of credit.

The Contractor shall be the beneficial owner of any securities substituted for monies withheld, and shall receive any dividends or interest thereon.

- C. The Contractor shall give the City written notice within thirty (30) days after the agreement is awarded that it desires to substitute securities for money that would ordinarily be withheld. If the substituted securities are deposited into an escrow, the escrow shall be governed by a written escrow agreement in a form which is substantially similar to the agreement set forth in Section 22300 of the Public Contract Code.

15. CONTRACTOR'S LIABILITY

- A. The Contractor shall be responsible for all damages to people and/or property that occur as a result of the fault or negligence attributable to the Contractor in connection with the performance under this agreement. Any and all restitution or repairs deemed necessary by the Director to remedy such damages shall be furnished and performed at the Contractor's sole expense, and shall be completed within the time limits established by the Director.

16. CONTRACTORS LICENSE

- A. Contractors are required by law to be licensed, and regulated by the Contractors' State License Board. Contractor will comply with all applicable licensing laws, and regulations. Any questions concerning a Contractor may be referred to the Registrar, Contractors' State License Board, 9821 Business Park Drive, Sacramento, CA 95827. Mailing address: P.O. Box 26000, Sacramento, CA 95826.

17. CLAIM RESOLUTION PROCEDURES

Section 9204 of the Public Contract Code sets forth the following requirements for claims submitted by a contractor on a public works project:

- A. A contractor must furnish "reasonable documentation to support the claim."
- B. Upon receipt of a claim, a public entity must "conduct a reasonable review" and provide a written statement to the contractor within 45 days of receipt of the claim.
- C. For any undisputed portion of a claim, a public entity must make payment within 60 days of the public entity's issuance of the written statement.
- D. If the contractor disputes the public entity's written statement, or if the public entity fails to respond, the contractor may demand "an informal conference to meet and confer for settlement of the issues in dispute."
- E. The public entity must schedule the meet and confer conference within 30 days of the demand.

- F. Within 10 business days following the meet and confer conference, the public entity must provide a written statement identifying the portion of the claim that remains in dispute. Any payment due on an undisputed portion of the claim must be made within 60 days of the meet and confer conference.
- G. After the meet and confer conference, any disputed portion of the claim "shall be submitted to non-binding mediation."
- H. If mediation is unsuccessful, the parts of the claim that remain in dispute shall be subject to applicable procedures outside Section 9204 (statutory and contractual).
- I. Failure of a public entity to respond to a claim within the time periods described in Section 9204 "shall result in the claim being deemed rejected in its entirety."
- J. Amounts not paid in a timely manner shall bear interest at 7 percent per year.

18. PROJECT LOCATIONS

Irrigation Pump Stations	
Area/Tract	Address/Location
D (Tract 31268) - TR ID 40	28772 Cottonwood Ave.
D (Tract 31284) - TR ID 44	28451 Cottonwood Ave.
D (Tract 31591) - TR ID 46	12949 Morrison St.
D (Tract 32625) - TR ID 47	13547 Redlands Blvd. - East
D (Tract 22889) - TR ID 35	24518 Krameria Ave.
D (Tract 30967) - TR ID 37	24615 Krameria Ave.
Zone 01 Towngate	22871 Centerpoint Dr.
Zone 01 Towngate	Towngate Blvd. (s/w corner)
Zone 04 Moreno Valley Ranch - East	28976 Cactus Ave.
Zone 05 Stoneridge Ranch	13028 Nason St.
Zone 05 Stoneridge Ranch	12990 Nason St.
Zone 06 Mahogany Fields	26482 Cottonwood Ave.
Zone 06 Mahogany Fields	13540 Morrison St.
Zone 06 Mahogany Fields	13960 Morrison St.
Zone 09 Savannah	Fir Ave w/o Shawnee St.
Zone 09 Savannah	12750 Azalea St.
M - Medians - Map ID 20	29642 Eucalyptus Ave.
M - Nason SR60	e/s Nason St. s/o SR60 Fwy on ramp
CFD 2014-01 LM 02A - Map ID 24	Iris Ave. e/o Heacock St.
WQB (Tract 31327) - WQB ID 21	13960 Morrison St.

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EXHIBIT B - CITY RESPONSIBILITIES

1. AGREEMENT SUPERVISION

The Agreement shall be administered on behalf of the Public Works Director of the City of Moreno Valley, or his/her delegated representative(s), hereinafter designated as "Director."

The Director will decide all questions, which may arise as to the manner of performance and completion per schedule, acceptable fulfillment of the Contract by the Contractor, interpretation of the Specifications, and compensation to include completion of work by alternate sources.

2. COORDINATION

The City will coordinate Contractor's maintenance operations with the City's landscape maintenance contractors.

3. UTILITIES

It shall be the City's duty to provide the utilities necessary for irrigation (i.e., water, electricity and communications) and to maintain their appurtenances (i.e., water and electrical meters and backflow devices). The City will pay the water, electricity, and communications costs used in the sites covered by this Agreement. The Contractor shall report any interruption of these services for whatever reason immediately upon Contractor's observation of same to the Director.

EXHIBIT C - PAYMENT TERMS

1. CONTRACTORS COMPENSATION

- A. The Contractor's compensation shall not exceed \$213,500.00.
- B. Compensation shall be based on the Bid/Compensation Schedule
- C. Written notice of the compensation amount for the next fiscal year shall be provided to the Contractor at least thirty (30) days prior to the end of each fiscal year.
- D. Any request for an increase in Contractor's compensation shall be based on an annual inflation adjustment, calculated for the previous calendar year, based on the Riverside-San Bernardino-Ontario Regional Consumer Price Index for All Urban Consumers, as published by the Department of Labor's Bureau of Labor Statistics. Any such request shall be made to the City in writing no later than May 1 of each year. Upon approval, the adjustment would be effective July 1 of the following fiscal year.
- E. The Contractor will obtain, and keep current during the term of this Agreement, the required City of Moreno Valley business license. Proof of a current City of Moreno Valley business license will be required prior to any payments by the City. Any invoice not paid because the proof of a current City of Moreno Valley business license has not been provided will not incur any fees, late charges, or other penalties. Complete instructions for obtaining a City of Moreno Valley business license are located at: http://www.moval.org/do_biz/biz-license.shtml
- F. The Contractor will electronically submit an invoice to be paid monthly per site based upon successful performance of the maintenance services provided or tests performed for each area/site and in compliance with the terms and provisions of this Agreement. By the tenth of each month the Contractor shall submit to the Director detailed reports, if necessary, of the following:
 - a. Testing or services performed, which must include the location, area or site of such maintenance.
 - b. Complaints received.
 - c. Hazards noted.
 - d. Invoice for service, which lists in detail the site (Median ID, Tract ID/Number), service performed and cost in accordance with the Agreement price, which shall become the basis for payment.

No payment(s) shall be made until the reports, listed herein, have been submitted and approved. At no time will the City pay for more services than have been satisfactorily completed and the City's determination of the amount due shall be final.

- G. The Contractor will submit all invoices electronically to Accounts Payable staff at accountspayable@moval.org. Accounts Payable questions can be directed to 951.413.3073.

The Contractor will electronically submit copies of invoices and reports to the Special Districts Division at specialdistricts@moval.org. Calls may also be directed to the Special Districts Division at 951.413.3480.

- H. The Contractor agrees that City payments will be received via Automated Clearing House (ACH) Direct Deposit and that the required ACH Authorization form will be completed prior to any payments by the City. Any invoice not paid because the completed ACH Authorization Form has not been provided will not incur any fees, late charges, or other penalties. The ACH Authorization Form is located at: http://www.moval.org/city_hall/forms.shtml#bf (Business/Finance tab).
- I. The minimum information required on all invoices is:
- a. Vendor Name, Mailing Address, and Phone Number
 - b. Invoice Date
 - c. Vendor Invoice Number
 - d. City-provided Reference Number (e.g. Project, Activity, Median ID, Tract ID/#, etc.)
 - e. Detailed work hours by class title (e.g. Manager, Technician, or Specialist), services performed and rates, explicit portion of an Agreement amount, or detailed billing information that is sufficient to justify the invoice amount; single, lump amounts without detail are not acceptable.
 - f. Location Services were Testing and/or Services were Performed
- J. The City shall pay the Contractor for all invoiced, authorized professional services within thirty (30) days of receipt of the invoice for same.
- K. Reimbursement for Expenses. Contractor shall not be reimbursed for any expenses unless authorized in writing by City.
- L. Maintenance and Inspection. Contractor shall maintain complete and accurate records with respect to all costs and expenses incurred under this Agreement. All such records shall be clearly identifiable. Contractor shall allow a representative of City during normal business hours to examine, audit, and make transcripts or copies of such records and any other documents created pursuant to this Agreement. Contractor shall allow inspection of all work, data, documents, proceedings, and activities related to the Agreement for a period of three (3) years from the date of final payment under this Agreement.

2. ADDITIONAL WORK

- A. During the term of this Agreement the City may, at its discretion, authorize the Contractor to perform certain Additional Work as described in Exhibit E, herein, in addition to the work set forth in Exhibit A.

- B. If the City determines it to be in the City's best interest, said Additional work may include: Acts of God (i.e., earthquake damage, storm damage), or vandalism, theft, and acts or omissions by third parties.
- C. Compensation for all such Additional Work shall be calculated either at the prices set forth by the Contractor in Exhibit E or at a price based on the Contractor's written estimate (lump sum, time and materials, or cost plus basis), as determined by the Director. Except as set forth below, the Contractor shall not perform any such Additional Work without first obtaining express written authorization from the City.
- D. Notwithstanding the above requirement for prior written authorization, when a condition exists wherein there is imminent danger of injury to the public or damage to property, the City may verbally authorize the work to be performed upon receiving a verbal estimate from the Contractor. Within twenty-four (24) hours after receiving a verbal authorization, the Contractor must submit a written estimate to the City for written approval. Whenever immediate action is required to prevent impending injury, death, or property damage to the facilities being maintained, the City may, after reasonable attempt to notify the Contractor, cause such action to be taken by the City's work force.
- E. The Contractor shall test, maintain, and repair additional irrigation pumps the City may add to this Agreement at a unit price comparable to the irrigation pumps described herein.
- F. Except as specifically approved by subsequent action of the City Council and/or District Board of Directors, the Director may not authorize Additional Work in excess of the cumulative Agreement.

3. PAYMENT DEDUCTIONS

The City may deduct payment to such extent as may be necessary to protect the City from loss due to:

- A. Work required in the General or Technical Provisions which is not performed, not performed to the standards set forth therein, not performed at or within the time(s) specified therein, or is incomplete.
- B. Claims filed or reasonable evidence indicating probable filing of claims by laborers, materialmen, subcontractors, or third parties.

4. NON-PERFORMANCE PENALTIES

- A. The Contractor may become liable for payment of non-performance penalties for failure to: provide adequate communications; provide adequate work area safety including but not limited to wearing of appropriate work attire; complete "Specialty" operations in a timely manner as set forth in the General Provisions; submit notifications or reports required by the Agreement, or General Provisions at the

intervals and/or frequencies set forth therein, or; perform work as required by the General Provisions at the intervals and/or frequencies as set forth therein, or as set forth in Contractor's approved work schedule, or as directed by the City. For each of the categories set forth hereinabove, the penal sum of \$100.00 (one hundred dollars) per working day will be assessed for each working day the deficiencies remain uncorrected.

- B. If non-performance penalties are to be assessed, the Contractor will be notified immediately by written email, facsimile transmission, letter, or by telephone.
- C. The Contractor will not be assessed non-performance penalties for delays caused by the City or by the owner of a utility to provide for the removal or relocation of utility facilities.
- D. Excessive Utility Usage. Contractor shall pay for all excessive utility usage due to Contractor's failure to monitor irrigation system malfunctions or unauthorized increases in the frequency of irrigation. The excess cost will be determined by comparing the current usage with the historical usage for the same time period. The excess cost factor, to be deducted from the payments to the Contractor, will be presented by the Director to the Contractor prior to actual deduction by the City to allow for explanations.

5. TIME FOR PERFORMANCE

The Contractor hereby agrees to commence work pursuant to this Contract within fourteen (14) calendar days after the date of authorization as specified in the Notice to Proceed and to diligently prosecute the contracted work noted on the Bid Schedule.

6. COMPENSATION

Compensation shall be based on the following schedule.

Bid/Compensation Schedule						
VendorID	Company Name	Address			City	
745423	Eagle Pump Services, Inc.	12403 Central Ave.			Chino	
Respondee	Respondee Title	Respondee Phone	Respondee Email			
Boue Roller	President	909-229-7320	admin@eaglepumpservices.com			
Item Num	Section	Description	Unit of Measure	Quantity	Unit Price	Comment
1	Irrigation Pump Services	Irrigation Pump Test	per test	1	\$220.00	
2	Irrigation Pump Services	Repair Work	per hour	1	\$100.00	
3	Irrigation Pump Services	Emergency Repairs	per hour	1	\$100.00	
4	Irrigation Pump Services	Replacement Parts Supplied at Contractor's Price	percent			15%

Attachment: Agreement for Irrigation Pump Maintenance Services [Revision 2] (3549 : AWARD OF AN ON-SITE AND/OR

7. PREVAILING WAGE DETERMINATION

Based on information available at time of RFP issuance. See tables on following pages.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS
PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1
FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND FORECASTING PROJECTS

LOCALITY: RIVERSIDE COUNTY
DETERMINATION: RIV-2018-2

CRAFT (JOURNEY LEVEL)	ISSUE DATE	EXPIRATION DATE	EMPLOYER PAYMENTS							STRAIGHT-TIME		OVERTIME HOURLY RATE		
			BASIC HOURLY RATE	HEALTH AND WELFARE	PENSION	VACATION/HOLIDAY	TRAINING	OTHER PAYMENTS	HOURS	TOTAL HOURLY RATE	DAILY	SATURDAY	SUNDAY AND HOLIDAY	
# BRICKLAYER, STONEMASON, MARBLE/MASON, CEMENT BLOCKLAYER, POINTER, CAULKER, CLEANER	08/22/2018	04/30/2019**	A 40.390	8.250	6.660	-	D 0.970	0.450	C 8.0	56.720	D 76.920	D 76.920	97.110	
# BRICKLAYER:														
# MASON FINISHER	08/22/2018	04/30/2019**	A 26.320	8.250	8.020	-	D 0.860	0.450	C 8.0	45.900	D 60.060	D 60.060	74.220	
# E BRICK TENDER	08/22/2018	05/30/2019**	32.260	7.320	7.780	F 4.350	0.650	0.440	C 8.0	62.800	68.930	68.930	85.060	
# BRICK TENDER:														
# FORKLIFT OPERATOR	08/22/2018	05/30/2019**	32.710	7.320	7.780	F 4.350	0.650	0.440	C 8.0	53.250	69.600	69.600	85.960	
# CARPET, LINOLEUM,														
# RESILIENT TILE LAYER	08/22/2018	12/31/2018**	G 33.850	5.330	6.550	2.050	0.630	0.280	8.0	48.690	65.610	H 55.610	82.540	
I MATERIAL HANDLER	02/22/2018	04/30/2018**	G 11.000	5.330	2.390	0.550	0.630	0.180	8.0	20.080	25.560	J 25.560	31.080	
# DRYWALL FINISHER														
# DRYWALL FINISHER	02/22/2018	09/30/2018**	G 36.580	8.450	6.380	3.070	0.670	0.670	8.0	57.820	77.110	K 77.110	96.400	
# ELECTRICIAN:														
# COMM & SYSTEM INSTALLER	02/22/2018	12/31/2018**	32.490	7.870	L 5.000	-	0.650	M 0.300	8.0	47.280	N 64.020	N 64.020	80.750	
# INSIDE WIREMAN, TECHNICIAN	02/22/2018	11/25/2018**	O 39.770	7.870	L 13.450	-	0.730	P 0.200	8.0	63.490	G 84.070	G 84.070	104.660	
# CABLE SPLICER	02/22/2018	11/25/2018**	O 41.270	7.870	L 13.450	-	0.730	P 0.210	8.0	65.050	G 86.410	G 86.410	107.770	
# FIELD SURVEYOR:														
R CHIEF OF PARTY (018.167-010)	02/22/2018	09/30/2018**	48.860	11.450	9.650	F 4.620	1.100	0.150	8.0	75.830	N 100.260	N 100.260	124.690	
R INSTRUMENTMAN (018.167-034)	02/22/2018	09/30/2018**	46.360	11.450	9.650	F 4.450	1.100	0.150	8.0	73.160	N 95.340	N 95.340	115.520	
R CHAINMAN/RODMAN (869.567-010)	02/22/2018	09/30/2018**	45.780	11.450	9.650	F 4.400	1.100	0.150	8.0	72.530	N 95.420	N 95.420	118.310	
# GLAZIER	08/22/2018	05/31/2019**	S 44.200	T 7.500	15.310	U -	0.770	0.710	8.0	68.490	V 89.590	V 89.590	110.690	
# MARBLE FINISHER	08/22/2018	05/31/2019**	W 32.430	9.250	3.120	-	0.890	0.370	8.0	46.060	X 62.260	Y 62.260	Z 78.490	
# PAINTER:														
AA INDUSTRIAL PAINTER	08/22/2018	06/30/2019**	O 32.520	8.850	3.040	2.050	0.700	0.910	8.0	48.070	AD 65.130	AD 65.130	AD 65.130	
# PAINTER:														
AA PAINTER, LEAD ABATEMENT	08/22/2018	06/30/2019**	O 31.120	8.850	3.040	2.550	0.600	0.910	8.0	47.070	AD 62.630	AD 62.630	AD 62.630	
AA REPAINT PAINTER, LEAD ABATEMENT	08/22/2018	06/30/2019**	O 27.590	8.850	3.040	2.430	0.600	0.910	8.0	43.420	AC 57.220	AC 57.220	AC 57.220	
AA INDUSTRIAL REPAINT PAINTER	08/22/2018	06/30/2019**	O 28.840	8.850	3.040	2.710	0.700	0.910	8.0	45.050	AC 59.470	AC 59.470	AC 59.470	
# PLASTERER	08/22/2018	08/06/2019**	36.860	9.380	4.840	AD 5.850	0.780	1.040	AE 8.0	58.750	AB 77.160	AF 77.160	95.610	
# AG PLASTER TENDER	08/22/2018	08/06/2019**	36.370	7.320	7.430	AD 5.150	1.020	0.960	8.0	58.250	AH 75.430	AI 75.430	94.620	
# PLASTER CLEAN-UP LABORER	08/22/2018	08/06/2019**	33.820	7.320	7.430	AD 5.150	1.020	0.960	8.0	55.700	AH 72.610	AJ 72.610	89.520	
# PLUMBER:														
# PLUMBER, INDUSTRIAL AND GENERAL PIPEFITTER	08/22/2018	08/31/2019**	AJ 50.130	8.910	AK 11.750	AL -	2.250	AM 1.260	8.0	74.300	D 98.520	D 98.520	121.110	
# SEWER AND STORM DRAIN PIPELAYER	08/22/2018	08/31/2019**	AJ 37.240	8.800	AK 8.900	AL -	1.980	AM 1.260	8.0	58.180	75.950	AN 75.950	93.110	
# SEWER AND STORM DRAIN PIPE TRADESMAN	08/22/2018	08/31/2019**	AP 16.490	8.550	0.300	-	1.110	AM 1.110	8.0	29.640	38.030	AN 38.030	46.430	
# SERVICE & REPAIR (PLUMBER/HVAC-FITTER)	08/22/2018	08/31/2019**	AJ 48.580	8.910	AK 11.440	AL -	1.580	AM 1.260	8.0	71.770	95.210	AO 95.210	AR 117.030	
# LANDSCAPE/IRRIGATION FITTER	08/22/2018	08/31/2019**	W 33.150	8.910	AK 11.750	AL -	1.640	AM 1.060	AN 8.0	56.510	73.080	73.080	88.310	
AS LANDSCAPE/IRRIGATION TRADESMAN	08/22/2018	08/31/2019**	W 14.670	3.000	AK 0.880	-	0.100	AM 0.860	AN 8.0	19.510	26.850	26.850	34.180	
# FIRE SPRINKLER FITTER (PROTECTION AND CONTROL SYSTEMS, OVERHEAD AND UNDERGROUND)	08/22/2018	12/31/2018**	39.730	9.670	AT 11.810	-	0.520	0.250	8.0	61.980	81.850	81.850	101.710	
# ROOFER	08/22/2018	07/31/2019**	AU 38.120	8.310	AV 8.120	AW -	0.510	AX 0.630	8.0	55.690	D 72.880	D 72.880	90.060	

Attachment: Agreement for Irrigation Pump Maintenance Services [Revision 2] (3549 : AWARD OF AN ON-SITE AND/OR PROFESSIONAL

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS
 PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1
 FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

LOCALITY: RIVERSIDE COUNTY
 DETERMINATION: RIV-2018-2

CRAFT (JOURNEY LEVEL)	ISSUE DATE	EXPIRATION DATE	EMPLOYER PAYMENTS							STRAIGHT-TIME		OVERTIME HOURLY RATE		
			BASIC HOURLY RATE	HEALTH AND WELFARE	PENSION	VACATION/HOLIDAY	TRAINING	OTHER PAYMENTS	HOURS	TOTAL HOURLY RATE	DAILY	SATURDAY	SUNDAY AND HOLIDAY	
PITCH WORK	08/22/2018	07/31/2019**	AU 39.870	8.310	AV 8.120	AW -	0.510	AX 0.630	8.0	57.440	D 75.500	D 75.500	93.560	
PREPARER	08/22/2018	07/31/2019**	AU 39.120	8.310	AV 8.120	AW -	0.510	AX 0.630	8.0	56.690	D 74.380	D 74.380	92.060	
# SHEET METAL WORKER	08/22/2018	06/30/2019**	O 44.280	10.620	AY 17.040	-	0.820	0.650	8.0	73.410	AZ 95.550	AZ 95.550	117.690	
# TERRAZZO FINISHER	08/22/2018	08/31/2019*	G 31.250	8.970	3.790	BA -	0.650	0.260	AN 8.0	44.920	X 60.540	BB 60.540	Z 76.170	
# TERRAZZO WORKER	08/22/2018	08/31/2019*	G 38.390	9.250	3.970	BA -	0.960	0.260	AN 8.0	52.830	X 72.030	BB 72.030	Z 91.220	
# TILE FINISHER	08/22/2018	05/31/2019**	W 27.230	8.830	2.150	-	0.820	0.310	8.0	39.340	X 52.960	Y 52.960	Z 66.570	
# TILE LAYER	08/22/2018	05/31/2019**	W 39.060	9.250	6.970	-	1.000	0.370	8.0	56.650	X 76.180	Y 76.180	Z 95.710	

[FOOTNOTES](#)

Attachment: Agreement for Irrigation Pump Maintenance Services [Revision 2] (3549 : AWARD OF AN ON-SITE AND/OR PROFESSIONAL

EXHIBIT D - TERM OF CONTRACT

TERM OF CONTRACT

- A. Following approval by all parties, the Contract will commence on July 1, 2019, and shall terminate June 30, 2024 (5) years thereafter.
- B. At the expiration of its term, and with the concurrence of all parties, the Contract may be extended for up to three (3) additional periods of thirty (30) days each, subject to all terms and conditions in effect during the current term of the Contract. Written notice of the City’s intent to invoke this subsection of the Contract shall be given to the Contractor at least fifteen (15) days prior to the expiration of the term of this Contract, or any extensions or amendments thereof.
- C. Multi-year contracts may be continued each fiscal year only after funding appropriations and program approvals have been granted by the City Council of the City of Moreno Valley and the City Council acting in the capacity as President and Members of the Board of Directors of the Moreno Valley Community Services District. In the event that the City Council and/or the City Council acting in the capacity as President and Members of the Board of Directors for the Moreno Valley Community Services District does not grant necessary funding appropriations and/or program approvals, the affected multi-year contract becomes null and void effective July 1 of the fiscal year for which such approvals have been denied.

Attachment: Agreement for Irrigation Pump Maintenance Services [Revision 2] (3549 : AWARD OF AN ON-SITE AND/OR PROFESSIONAL

EXHIBIT E – CONTRACTOR PROPOSAL SUBMITTAL CHECKLIST

The following check list, and associated documentation, must be completed, signed, and included with your submission for the BID to be considered responsive:

Eagle Pump Services, Inc
Company Name (Please print)

Boue Roller
Authorized Signature

Boue Roller
Name of RFP Preparer

909 229-7320
Preparer's Phone Number

admin@eaglepumpservices.com
Preparer's Email Address

SCHEDULE I – GENERAL INFORMATION – fillable form, print, and include with submission

- Vendor Information
- References
- List of Subcontractors

SCHEDULE II – BID SCHEDULES

- Bid Import Schedules – form in PlanetBids

SCHEDULE III – FORMS – print, complete, and include with submission

- Proposal Affirmation
- Non-Collusion Affidavit
- Certificate of Non-Discrimination
- Affirmation of Proposal Guarantee
- Bid Bond
- Faithful Performance Bond
- Labor and Materials Bond

Attachment: Agreement for Irrigation Pump Maintenance Services [Revision 2] (3549 : AWARD OF AN ON-SITE AND/OR PROFESSIONAL

**EXHIBIT E – CONTRACTOR PROPOSAL
SCHEDULE I – GENERAL INFORMATION**

VENDOR INFORMATION

A. Company Name: Eagle Pump Services, Inc.

TYPE

- Sole proprietor
- Partnership
- Corporation

B. Company Physical Address

(Street) 12646 Orgren Ave

(City, State, Zip) Chino, CA 91710

C. Company Mailing Address

(Street) 12403 Central Ave #428

(City, State, Zip) Chino, CA 91710

D. Business Phone Number 909 229-7320

E. Satellite Office Address (if applicable):

F. Satellite Office Phone Number _____

G. Contractor's Licensing Information:

1. License number/Classification/Name Style: 875533/C10/Eagle Electric
2. Number of Years Operating Under the Above License Name Style: 13
3. License Expiration Date: 4/30/2020
4. Current License Status: Active
5. Prior actions against this License? Yes No
6. If Yes, list the citation type and how it was resolved:

H. Company's Federal Identification No.: 41-2176394

I. Name and Title(s) of Company Officers:

Boue Roller - President _____

Curtis Newman - Secretary _____

J. Department of Industrial Relations Registration No.: 1000009222

K. Number of years the company has performed irrigation pump maintenance services: 14

L. Number of years the company has performed irrigation pump maintenance services for public agencies: 14

M. Current Irrigation Pump Maintenance Operations

The City recognizes that the information provided in answer to this question is proprietary in nature and therefore the City will keep this information confidential to the extent permitted by law.

Total number of irrigation pump maintenance contracts: 101

Percentage of total contracts with public agencies: 10

Total dollar value of irrigation pump maintenance contracts: 250,000

N. Number of employees committed to irrigation pump maintenance operations

Supervisors	Average wage scale	\$ <u>65.53</u>
Technicians	Average wage scale	\$ <u>37.65</u> /Hr.*
Foremen	Average wage scale	\$ _____ /Hr.*
Laborers	Average wage scale	\$ _____ /Hr.*

*Use the fully burdened rate (i.e., taxes, insurance, benefits, OH &P).

This is a prevailing wage project.

O. Type/number of vehicles and power equipment committed to irrigation pump maintenance operations:

Motor vehicles

Type <u>Service Trucks w/ Cranes</u>	Number <u>4</u>
Type _____	Number _____
Type _____	Number _____
Type _____	Number _____
Type _____	Number _____

Power Equipment

Type _____	Number _____
Type _____	Number _____
Type _____	Number _____
Type _____	Number _____
Type _____	Number _____

REFERENCES

List a minimum of three (3) references for public agency irrigation pump maintenance contracts that are either current and/or have been successfully completed within the last two (2) years.

The following questions will be asked of each reference agency:

1. List the number of agreements and years under agreement.
2. Explain the scope of the agreement(s), acreage amounts, and location(s).
3. Identify the agreement amount(s).
4. Describe the quantity and quality of staffing.
5. Describe the training/technical skills (i.e., irrigation/pest control/ equipment operation/safety).
6. Explain the communication abilities and language preferences of staff.
7. Describe staff appearance, uniforms, and use of safety equipment.
8. Explain the availability of additional personnel for extra work/special projects.
9. Explain the working order of equipment used.
10. Describe the effectiveness of communications system.
11. Explain the contractor's knowledge of project and contract standards.
12. Describe the contractor's ability to respond to complaints/requests in a timely fashion.
13. Identify if the contractor is willing to resolve questions, disputes, and deficiencies short of "formal" sanctions (i.e., monetary penalties, contract deductions, liquidated damages, claims against bonds).
14. Explain the accuracy and timeliness of billing and invoicing.
15. Identify if contract(s) had been successfully completed to term.
16. Would you accept future proposals/bids from this Proposer?

Reference #1	
Public Agency Name	Department of Transportation - CalTrans Distric 8
Agency Address	464 W 4th St. San Bernardino, CA 92401
Agency Contact Responsible for administering contract	David Gilbert
Contact telephone	909 383-4079
Agreement Name(s)	08A2705
Annual Agreement Amount(s)	\$154,110.00
Number of acres maintained per contract	NA
Location(s) of areas maintained.	210, 215 & 91 Freeways
Length of Contract(s)/expiration date	2 years, 12/14/18

Reference #2	
Public Agency Name	Moreno Valley USD
Agency Address	13911 Perris Blvd, Moreno Valley, CA 92553
Agency Contact Responsible for administering contract	Dennis Willard
Contact telephone	951 902-3084
Agreement Name(s)	Annual Open PO
Annual Agreement Amount(s)	5K
Length of Contract(s)/expiration date	One Year

Reference #3	
Public Agency Name	Orange USD
Agency Address	1401 N Handy St, Orange, CA 92867
Agency Contact Responsible for administering contract	Scott Harvey
Contact telephone	657 291-3260
Agreement Name(s)	Annual PO
Annual Agreement Amount(s)	NA
Length of Contract(s)/expiration date	One Year

Attachment: Agreement for Irrigation Pump Maintenance Services [Revision 2] (3549 : AWARD OF AN ON-SITE AND/OR PROFESSIONAL

Reference #4	
Public Agency Name	Ontario Community & Public Services
Agency Address	1425 Bon View Avenue, Ontario, CA 91761
Agency Contact Responsible for administering contract	Phillip Marino
Contact telephone	909 229-6557
Agreement Name(s)	Annual PO
Annual Agreement Amount(s)	\$1500.00
Length of Contract(s)/expiration date	One Year

Reference #5	
Public Agency Name	
Agency Address	
Agency Contact Responsible for administering contract	
Contact telephone	
Agreement Name(s)	
Annual Agreement Amount(s)	
Length of Contract(s)/expiration date	

Attachment: Agreement for Irrigation Pump Maintenance Services [Revision 2] (3549 : AWARD OF AN ON-SITE AND/OR PROFESSIONAL

LIST OF SUBCONTRACTORS

In compliance with the provisions of Government Code, Section 4102, the undersigned Contractor sets forth the name and location (address) of the place of business of each subcontractor who will perform work, labor or render service to the Contractor in or about the construction of the work or improvement in an amount in excess of one-half of one percent (0.5%) of the general contractor's total Proposal, and the portion of the work which will be done by each subcontractor, as follows.

In compliance with Labor Code 1771.1(a), please include any subcontractor's DIR registration number.

Name, current DIR No., License and Classification No.	Business Address and Telephone	Description of Work
N/A		

Attachment: Agreement for Irrigation Pump Maintenance Services [Revision 2] (3549 : AWARD OF AN ON-SITE AND/OR PROFESSIONAL

Exhibit E – Contractor Proposal

Schedule II – Bid Schedule

See Page 5 of Exhibit C

**EXHIBIT E – CONTRACTOR PROPOSAL
SCHEDULE III – FORMS**

PROPOSAL AFFIRMATION

With regard to the information provided hereinabove (Exhibit E: Submittal Documents), I affirm that:

- 1. All information provided is true and correct to the best of my knowledge, and;
- 2. I understand that a materially false statement willfully or fraudulently made in connection with this proposal may result in the termination of any Contract between the City of Moreno Valley, the Moreno Valley Community Services District and Eagle Pump Services, Inc., and further, the aforesaid company may be barred from participation in future City contracts and be subject to possible criminal prosecution, and;
- 3. I have legal authority to bind Eagle Pump Services, Inc. to the terms of this affirmation (See "NOTICE AND INSTRUCTIONS", Section D – Signature of Contract Proposal).

For the proposal to be valid, this sheet must be returned with the proposal submission and fully completed with a legible signature and date

SIGNATURE *Boue Roller*

PRINTED NAME Boue Roller

TITLE President

COMPANY NAME Eagle Pump Services, Inc.

DATE 4/11/19

Attachment: Agreement for Irrigation Pump Maintenance Services [Revision 2] (3549 : AWARD OF AN ON-SITE AND/OR PROFESSIONAL

NON-COLLUSION AFFIDAVIT

STATE OF CALIFORNIA)
COUNTY OF) §

(NAME) Boue Roller, affiant

being first duly sworn, deposes and says:

That he or she President of
(Sole Owner, Partner or other proper title)

Eagle Pump Serevices, Inc.
(Contractor)

the party making the foregoing bid, that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, Contractor, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by Agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the Agreement of anyone interested in the proposed Agreement; that all statements contained in the bid are true; and, further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, Contractor association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid (Public Contract Code Section 7106).

Bidder's Name Boue Roller
Bidder's Address 12403 Central Ave. #428 Chino, CA 91710
Telephone Number 909 229-7320

Boue Roller
Signature of Bidder

President
Title

Attachment: Agreement for Irrigation Pump Maintenance Services [Revision 2] (3549 : AWARD OF AN ON-SITE AND/OR PROFESSIONAL

CERTIFICATION OF NON-DISCRIMINATION

Pursuant to California Labor Code Section 1735, as added by Chapter 643 statutes of 2039, and as amended,

No discrimination shall be made in the employment of persons upon Public Works because of race, religion creed, color, national origin, ancestry, physical handicaps, mental condition, marital status or sex of such persons, except as provided in Section 12940, of the California Labor Code and every Contractor of Public Works violating this section is subject to all penalties imposed for a violation of the Chapter.

I certify that I have read, and understand the foregoing:

SIGNATURE *Boue Roller*

PRINTED NAME Boue Roller

TITLE President

COMPANY NAME Eagle Pump Serevices, Inc.

DATE 4/11/19

Attachment: Agreement for Irrigation Pump Maintenance Services [Revision 2] (3549 : AWARD OF AN ON-SITE AND/OR PROFESSIONAL

Affirmation of Proposal Guarantee

The undersigned also affirms that:

Accompanying this Proposal is a cashier's check, a certified check, or a Bid Bond for \$450.00, payable to the City of Moreno Valley, which is deemed to constitute liquidated damages, if, in the event this Proposal is accepted, the undersigned shall fail to execute the Agreement and furnish satisfactory bonds under the conditions and within the time specified in this Proposal, otherwise said cash, cashier's check, certified check or Bid Bond is to be returned to the undersigned.

Dated
Contractor Signature
By
Contractor Address
Contractor Telephone Number
Names and Addresses of Members of the Contractor:
(If a Corporation)

4/11/19
Boue Roller
Boue Roller
12403 Central Ave. #428 Chino, CA 91710
909 229-7320

Signature of Contractor
By
Title
Business Address
Incorporated Under Laws of the State of
State License Number and Classification

Boue Roller, Curtis Newman
Boue Roller
Boue Roller
President
12403 Central Ave. #428 Chino, CA 91710
CA
875533, C10

President
Secretary
Treasurer

Boue Roller Boue Roller
Curtis Newman Curtis Newman

(Corporate Seal)

Attachment: Agreement for Irrigation Pump Maintenance Services [Revision 2] (3549 : AWARD OF AN ON-SITE AND/OR PROFESSIONAL

Bond# 72144393

BID BOND

KNOW ALL MEN BY THESE PRESENTS, that we

Eagle Pump Services Zlnc

as

principals, and WESTERN SURETY COMPANY

a duly

authorized corporate surety: Business Address

151 North Franklin, 17th Floor, Chicago, IL 60606

Phone (605) 336-0850

, are held and firmly bound unto the City of Moreno Valley and the City of Moreno Valley Community Services District, as Surety, in the sum of 10% of Amount Bid Dollars, (\$ 450.00), for payment of

which sum well and truly to be made, we bind ourselves, and each of our heirs, successors, executors, administrators and assignees, jointly, and severally, firmly by these presents.

The condition of the foregoing obligation is such that whereas said principal(s) (is) (are) about to hand in and submit to the City Council and the City Council in its capacity as the Board of Directors of the Moreno Valley Community Services District, a Proposal for Irrigation Pump Maintenance

for the performance of the work therein mentioned, in compliance with the specifications therefore, under an invitation of said City Council and the City Council in its capacity as the Board of Directors contained in the Notice Requesting Proposals attached to said Proposal.

NOW, THEREFORE, if the said bond or Proposal of the said principal shall be accepted, and said work be awarded to said principal thereupon by said City Council and/or City Council in its Capacity as the Board of Directors, and if the said principal shall fail or neglect to enter into a Agreement therefore within the required time, then in that case the undersigned obligors will pay to the City of Moreno Valley and/or the Moreno Valley Community Services District the full sum of 10% of Amount Bid Dollars, (\$ 450.00), as liquidated damages for such failure and neglect.

WITNESS our hands this 11th day of April, 2019

(SIGNATURE PAGE FOLLOWS)

Attachment: Agreement for Irrigation Pump Maintenance Services [Revision 2] (3549 : AWARD OF AN ON-SITE AND/OR PROFESSIONAL

Bid Bond (cont.)

PRINCIPAL

CORPORATE SURETY

Name: EAGLE PUMP SERVICES

Name: SETH BECKER

Address: 12403 CENTRAL AVE

Address: 32100 ELINTON HEATH

#428, CHINO CA 91710

WILDOMAR CA 92595

Phone Number: 909 229-7320

Phone Number: 951-678-7290

By: [Signature]

By: [Signature]
Attorney-in-Fact

Signing Instructions

1. The Bond shall be executed by an admitted Surety insurer (CCP 995.311) and the Surety must be registered as an admitted insurer in at least one county in the State of California.
2. The Bond shall include attached Notary Certificates for the Attorney-in-Fact and the Principal.
3. The Bond shall include an attached original Power of Attorney only authorizing the Attorney-in-Fact to act for the Surety (CCP 1305).
4. The Bond shall include the address at which the Principal and Surety may be served with notices, papers and other documents (CCP 995.320 (a) (2)).

If any of the above items are omitted, the Proposal will be considered non-responsive and will be rejected.

Attachment: Agreement for Irrigation Pump Maintenance Services [Revision 2] (3549 : AWARD OF AN ON-SITE AND/OR PROFESSIONAL

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

CIVIL CODE § 1189

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California)
County of San Bernardino)
On 4-10-19 before me, Lisa Anderson, Notary Public,
Date Here Insert Name and Title of the Officer
personally appeared Boue Roller
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Signature: [Handwritten Signature]
Signature of Notary Public

Place Notary Seal Above

OPTIONAL

Though this section is optional, completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: Bid Bond Document Date: 4-10-19
Number of Pages: 2 Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____
 Corporate Officer — Title(s): _____
 Partner — Limited General
 Individual Attorney in Fact
 Trustee Guardian or Conservator
 Other: _____
Signer Is Representing: _____

Signer's Name: _____
 Corporate Officer — Title(s): _____
 Partner — Limited General
 Individual Attorney in Fact
 Trustee Guardian or Conservator
 Other: _____
Signer Is Representing: _____

Western Surety Company

POWER OF ATTORNEY - CERTIFIED COPY

Bond No. 72144393

Know All Men By These Presents, that WESTERN SURETY COMPANY, a corporation duly organized and existing under the laws of the State of South Dakota, and having its principal office in Sioux Falls, South Dakota (the "Company"), does by these presents make, constitute and appoint Scott Gregory Becker

its true and lawful attorney(s)-in-fact, with full power and authority hereby conferred, to execute, acknowledge and deliver for and on its behalf as Surety, bonds for:

Principal: Eagle Pump Services Inc

Obligee: City of Moreno Valley

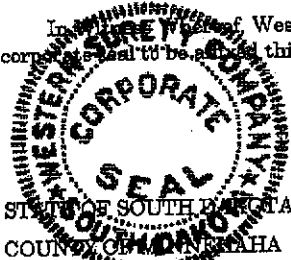
Amount: \$1,000,000.00

and to bind the Company thereby as fully and to the same extent as if such bonds were signed by the Vice President, sealed with the corporate seal of the Company and duly attested by its Secretary, hereby ratifying and confirming all that the said attorney(s)-in-fact may do within the above stated limitations. Said appointment is made under and by authority of the following bylaw of Western Surety Company which remains in full force and effect.

"Section 7. All bonds, policies, undertakings, Powers of Attorney or other obligations of the corporation shall be executed in the corporate name of the Company by the President, Secretary, any Assistant Secretary, Treasurer, or any Vice President or by such other officers as the Board of Directors may authorize. The President, any Vice President, Secretary, any Assistant Secretary, or the Treasurer may appoint Attorneys in Fact or agents who shall have authority to issue bonds, policies, or undertakings in the name of the Company. The corporate seal is not necessary for the validity of any bonds, policies, undertakings, Powers of Attorney or other obligations of the corporation. The signature of any such officer and the corporate seal may be printed by facsimile."

If Bond No. 72144393 is not issued on or before midnight of July 11, 2019, all authority conferred in this Power of Attorney shall expire and terminate.

In witness whereof, Western Surety Company has caused these presents to be signed by its Vice President, Paul T. Bruflat, and its corporate seal to be affixed this 11th day of April, 2019.

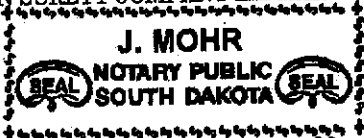


WESTERN SURETY COMPANY

Paul T. Bruflat

Paul T. Bruflat, Vice President

On this 11th day of April, in the year 2019, before me, a notary public, personally appeared Paul T. Bruflat, who being to me duly sworn, acknowledged that he signed the above Power of Attorney as the aforesaid officer of WESTERN SURETY COMPANY and acknowledged said instrument to be the voluntary act and deed of said corporation.



J. Mohr

Notary Public - South Dakota

My Commission Expires June 23, 2021

I the undersigned officer of Western Surety Company, a stock corporation of the State of South Dakota, do hereby certify that the attached Power of Attorney is in full force and effect and is irrevocable, and furthermore, that Section 7 of the bylaws of the Company as set forth in the Power of Attorney is now in force.

In testimony whereof, I have hereunto set my hand and seal of Western Surety Company this 11th day of April, 2019.

WESTERN SURETY COMPANY

Paul T. Bruflat

Paul T. Bruflat, Vice President

To validate bond authenticity, go to www.cnasurety.com > Owner/Obligee Services > Validate Bond Coverage.

Acknowledgment of Principal

Acknowledgment of Surety (Attorney-in-Fact)

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA }
COUNTY OF RIVERSIDE } ss

On APRIL 9, 2019 before me, C. PASIGAN, NOTARY PUBLIC
date here insert name and title of the officer

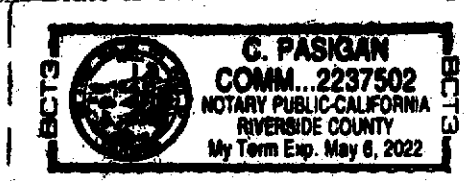
personally appeared Scott Gregory Becker
name(s) of signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature [Handwritten Signature] (Seal)



(The balance of this page is intentionally left blank.)



Attachment: Agreement for Irrigation Pump Maintenance Services [Revision 2] (3549 : AWARD OF AN ON-SITE AND/OR PROFESSIONAL

ACKNOWLEDGMENT OF PRINCIPAL
(Individual)

State of _____ }
County of _____ } ss

On this _____ day of _____, _____, before me personally appeared _____, known to me to be the individual described in and who executed the foregoing instrument and acknowledged to me that he/she executed the same.

In Witness Whereof, I have hereunto set my hand and official seal.

My commission expires

_____, _____ Notary Public

ACKNOWLEDGMENT OF PRINCIPAL
(Firm)

State of _____ }
County of _____ } ss

On this _____ day of _____, _____, before me personally appeared _____, known to me to be one of the firm of _____ described in and who executed the foregoing instrument, and he/she thereupon duly acknowledged to me that he/she executed the same as and for the act and deed of said firm.

In Witness Whereof, I have hereunto set my hand and official seal.

My commission expires

_____, _____ Notary Public

ACKNOWLEDGMENT OF PRINCIPAL
(Corporation)

State of _____ }
County of _____ } ss

On this _____ day of _____, _____, before me, a notary public, the undersigned officer, personally appeared _____ who acknowledged himself/herself to be the _____ of _____, a corporation, and that he/she as such officer being authorized so to do executed the foregoing instrument for the purposes therein contained by signing the name of the corporation by himself/herself as such officer.

In Witness Whereof, I have hereunto set my hand and official seal.

My commission expires

_____, _____ Notary Public



Report to City Council

TO: Mayor and City Council

FROM: Martin Koczanowicz, City Attorney

AGENDA DATE: June 4, 2019

TITLE: ORDINANCE ESTABLISHING A MAYORAL STIPEND

RECOMMENDED ACTION

Recommendation:

1. Introduce and conduct the first reading by title only of an Ordinance amending Municipal Code Chapter 2.04, to provide for a Mayoral Stipend.
2. Authorize a budget adjustment of \$7,200 as shown in the Financial Impact section of this report.

SUMMARY

This report recommends adoption of an Ordinance which would provide for a monthly Mayoral stipend. Government Code Section 36516.1 allows the Council to adopt an ordinance which would provide for additional compensation for a directly elected mayor.

DISCUSSION

In 2016 the voters of our City elected the City's first Directly Elected Mayor. Mayor Gutierrez was again reelected in 2018. Unlike the mayors previously selected by City Council who still served their particular district, a Directly Elected Mayor is elected at large and serves all of the residents of the City. This, along with other duties and responsibilities of the position, requires a greater commitment of time and effort. Meetings with residents and business owners are no longer limited to the boundaries of a district and there is a greater demand for networking from public officials from other jurisdictions.

State Legislature recognizes that a Directly Elected Mayor position may require such additional commitment of time. Government Code Section 36516.1 allows for additional compensation for that position. Such compensation can be approved by an ordinance

adopted by the City Council. The attached Ordinance, if adopted, would set a monthly stipend of \$600.00 for the position of a Directly Elected Mayor in our City.

ALTERNATIVES

1. Introduce by title only Ordinance ____, conduct the first reading and schedule the second reading and adoption for the next regular Council meeting.
2. Take no action on the proposed Ordinance.

FISCAL IMPACT

If adopted, the monthly stipend would require a budget adjustment as shown below:

Description	Fund	GL Account No.	Type (Rev/Exp)	FY 19/20 Budget	FY 19/20 Proposed Amendment	FY 19/20 Amended Budget
Mayoral Stipend	Gen. Fund	1010-10-01-10015-611110	Exp	\$13,212	\$7,200	\$20,412

NOTIFICATION

Agenda was posted in accordance with the Brown Act.

PREPARATION OF STAFF REPORT

Prepared by:
Martin D. Koczanowicz
City Attorney

CITY COUNCIL GOALS

None

CITY COUNCIL STRATEGIC PRIORITIES

1. Economic Development
2. Public Safety
3. Library
4. Infrastructure
5. Beautification, Community Engagement, and Quality of Life
6. Youth Programs

ATTACHMENTS

1. OrdinanceMayorialStipend2019

APPROVALS

Budget Officer Approval	<u>✓ Approved</u>	5/30/19 1:05 PM
City Attorney Approval	<u>✓ Approved</u>	5/30/19 12:57 PM
City Manager Approval	<u>✓ Approved</u>	5/30/19 2:25 PM

ORDINANCE NO.

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, AMENDING CHAPTER 2.04 OF TITLE 2 OF THE CITY OF MORENO VALLEY MUNICIPAL CODE, RELATING TO A STIPEND FOR DIRECTLY ELECTED MAYOR

WHEREAS, in 2014 the voters of the City of Moreno Valley established the position of the Directly Elected Mayor, with the first Directly Elected Mayor being elected in 2016; and

WHEREAS, pursuant to Government Code Section 36516.1, a Directly Elected Mayor may be provided with additional compensation, which can be established by an Ordinance adopted by the City Council; and

WHEREAS, the City Council in recognition of the greater time commitment required from that position desires to provide for additional compensation for the Directly Elected Mayor.

The City Council of the City of Moreno Valley does therefore ordain as

follows:

SECTION 1. PRIOR ENACTMENTS REPEALED:

All prior enactments of the City Council, which are in conflict with this Ordinance, are hereby repealed, the repeal to be effective only upon the effective date of this Ordinance.

SECTION 2. MUNICIPAL CODE CHAPTER 2.04 AMENDMENTS:

Section 2.04.55 of Chapter 2.04 of the City of Moreno Valley Municipal Code is hereby added to read as follows:

“2.04.55 Directly Elected Mayor additional stipend.

Pursuant to §36516.1 of the California Government Code, as amended, the Directly Elected Mayor shall receive additional compensation of \$600 per month while serving in that position.”

SECTION 3. EFFECT OF ENACTMENT:

Except as specifically provided herein, nothing contained in this ordinance shall be deemed to modify or supersede any prior enactment of the City Council which addresses the same subject addressed herein

SECTION 4. NOTICE OF ADOPTION:

Within fifteen days after the date of adoption hereof, the City Clerk shall certify to the adoption of this ordinance and cause it to be posted in three public places within the city.

SECTION 5. SEVERANCE CLAUSE

If any section, subsection, subdivision, paragraph, sentence, clause, or phrase of this Ordinance or any part thereof is for any reason held to be in violation of the law, such decision shall not affect the validity of the remaining portion of this Ordinance or any part thereof. The City Council hereby declares that it would have passed each section, subsection, subdivision, paragraph, sentence, clause, or phrase thereof, irrespective of the fact that any one or more sections, subsections, subdivisions, paragraphs, sentences, clauses or phrases be declared in violation of the law.

SECTION 6. EFFECTIVE DATE:

This ordinance shall take effect thirty (30) days after adoption.

INTRODUCED at a regular meeting of the City Council on _____ and PASSED, APPROVED, and ADOPTED by the City Council on _____ by the following roll call vote, to wit:

AYES:

NOES:

ABSENT:

ABSTAIN:

Dr. Yxstian Gutierrez, Mayor

ATTEST:

Pat Jacquez-Nares, City Clerk

APPROVED AS TO FORM:

Martin D. Koczanowicz, City Attorney

Attachment: Ordinance Mayoral Stipend 2019 (3638 : ORDINANCE ESTABLISHING A MAYORAL STIPEND)

3

Ordinance No.
Date adopted:

4

Ordinance No.
Date adopted:



Report to City Council

TO: Mayor and City Council Acting in its Capacity as President and Members of the Board of Directors of the Moreno Valley Community Services District (CSD)

FROM: Michael L. Wolfe, P.E., Public Works Director/City Engineer

AGENDA DATE: June 4, 2019

TITLE: APPROVAL OF THE MAXIMUM AND APPLIED SPECIAL TAXES FOR COMMUNITY FACILITIES DISTRICT NO. 1 FOR FISCAL YEAR 2019/20

RECOMMENDED ACTION

Recommendations:

1. Acting in its capacity as the Board of Directors for the CSD and as the legislative body of Community Facilities District No. 1, adopt Resolution No. CSD 2019-___, a Resolution of the Moreno Valley Community Services District of the City of Moreno Valley, California, Approving the Community Facilities District No. 1 Maximum and Applied Special Tax Rates for Fiscal Year 2019/20, and Calculation Thereof.
2. Authorize the Chief Financial Officer to adjust the proposed special tax rates in the event there are any parcel changes, clerical errors, or other adjustments as may be necessary between the date the special taxes were calculated and the date the fixed charges are submitted to the County of Riverside, provided the applied special tax does not exceed the maximum special tax and is in compliance with the Rate and Method of Apportionment of Special Tax for the district.

SUMMARY

This report recommends adoption of the proposed resolution, which approves the calculation and sets the fiscal year (FY) 2019/20 maximum and applied special tax rates against real property included within Community Facilities District No. 1 (Park Maintenance) ("CFD"). Adoption of the resolution also acknowledges the filing of an annual report for the CFD.

The FY 2019/20 proposed special tax is a continuation of the special tax currently, or authorized to be, levied on the property tax roll. The maximum special tax rate is proposed to increase only by an annual adjustment, as previously approved by the qualified electors (property owners or registered voters), and only to the extent provided for in the governing documents of the CFD. The applied special tax rate is not proposed to increase beyond the maximum special tax rate.

Revenue received from the special tax funds maintenance and operation expenses for the maintenance of parks within the CFD. Funds collected for the CFD are restricted and can only be used within the CFD and for the purposes for which they are collected. The Finance Subcommittee was scheduled to review the proposed FY 2019/20 maximum and applied special tax rate at its March 26, 2019 meeting.

DISCUSSION

The Mello-Roos Community Facilities Act of 1982 (the "Act") allows the formation of CFDs to fund the operation and maintenance of public improvements and/or finance the construction of public infrastructure improvements. The CSD is the legislative body of the CFD.

At district formation, or at the time of annexation into the district, the qualified electors authorized the City to levy a special tax on the property tax roll of properties within the CFD. Prior to levying the special taxes onto the property tax roll each year, the City must adopt a resolution (Attachment 1) which sets the maximum and applied special tax rate, approves the calculation of the rate, and approves an Annual Special Tax Report ("Report") for the CFD. A boundary map of the CFD is included as Attachment 2.

The special taxes are calculated based on the Rate and Method of Apportionment (RMA), which was approved by the qualified electors. The RMA defines the special tax formula (e.g. rate of annual adjustment, etc.), eligible uses of the special tax revenue, and how the special tax is apportioned to properties within the district. Revenue received for the CFD is restricted and can only be used for the purposes for which it is collected.

The maximum special tax is the maximum amount the City can levy on the property tax roll for the CFD. The applied special tax is the amount that is actually levied on the property tax roll. It is the amount necessary to fund the purpose of the district, including administration and reserves, for the upcoming fiscal year. The proposed applied special tax does not exceed the proposed maximum special tax.

The CFD was established to provide a funding source for the maintenance and operation of park facilities within the CFD. The CFD provides property owners with a mechanism to fund the ongoing maintenance of parks, a requirement for the development of their property for residential use. The maximum and applied special tax proposed for FY 2019/20 was calculated based on the district's special tax formula and needs for the upcoming fiscal year and is summarized below.

District	FY 2018/19		Proposed FY 2019/20		Maximum Tax Annual Adjustment ¹	Change in Applied Rate
	Maximum Special Tax	Applied Special Tax	Maximum Special Tax ¹	Applied Special Tax		
CFD No. 1 (Park Maintenance) ²	per dwelling unit \$ 170.84 \$ 141.74		per dwelling unit \$ 176.37 \$ 146.32		3.24%	\$ 4.58

¹Maximum rates are based on a predetermined formula as outlined in the Rate and Method of Apportionment for each CFD. The Annual Adjustment Rate is approved by the Qualified Electors (landowners or registered voters).

²Subject to an annual adjustment based on the percentage increase in the CPI or by two percent (2%), whichever is greater.

An Annual Special Tax Report for the CFD is on file in the office of the Chief Financial Officer/City Treasurer. It includes a description of the formation proceedings, a description of the park facilities, identification of participating parcels, estimated operational and administrative costs to provide the services, and the proposed maximum and applied special taxes per parcel to be levied on the property tax roll for FY 2019/20.

This action meets the Strategic Plan Priorities by providing the financial resources to manage and maximize Moreno Valley’s public infrastructure to ensure an excellent quality of life.

ALTERNATIVES

1. Adopt the proposed resolution and recommended actions as presented. *Staff recommends this alternative as it will allow for the collection of revenue necessary to fund services of the CFD. It is also consistent with the Act.*
2. Do not adopt the proposed resolution and do not approve the recommended actions. *Staff does not recommend this alternative, as it may prevent the City from meeting the County of Riverside’s deadline to include the special taxes on the FY 2019/20 property tax roll and leave the CFD without sufficient revenue to fund services. Furthermore, failure to file the Report is a violation of the Act.*
3. Do not adopt the proposed resolution and recommended actions, but rather continue the item to a future regular City Council meeting. *Staff does not recommend this alternative, as it may prevent the City from meeting the County of Riverside’s deadline to include the special taxes on the FY 2019/20 property tax roll without incurring additional costs.*

FISCAL IMPACT

Property owners pay the special tax as part of their annual property tax bill. The special tax, including annual adjustments, has been approved by the affected qualified electors

through prior proceedings. There is no fiscal impact to the General Fund for calculation of the annual special tax or for the preparation and filing of the Reports. The table below summarizes the special tax revenue proposed to be levied on the FY 2019/20 property tax roll. Revenue projections are included in the City's FY 2019/20 adopted Operating Budget.

District	No. of Parcels/Dwelling Units Levied	Total Levy
CFD No. 1 (Park Maintenance)	9,012	\$ 1,318,635.84

NOTIFICATION

Posting of the agenda.

PREPARATION OF STAFF REPORT

Prepared By:
Candace E. Cassel
Special Districts Division Manager

Department Head Approval:
Michael L. Wolfe, P.E.
Public Works Director/City Engineer

Concurred By:
Patti Solano
Parks & Community Services Director

CITY COUNCIL GOALS

Public Facilities and Capital Projects. Ensure that needed public facilities, roadway improvements, and other infrastructure improvements are constructed and maintained.

Positive Environment. Create a positive environment for the development of Moreno Valley's future.

Community Image, Neighborhood Pride and Cleanliness. Promote a sense of community pride and foster an excellent image about our City by developing and executing programs which will result in quality development, enhanced neighborhood preservation efforts, including home rehabilitation and neighborhood restoration.

CITY COUNCIL STRATEGIC PRIORITIES

1. Economic Development
2. Public Safety
3. Library
4. Infrastructure
5. Beautification, Community Engagement, and Quality of Life
6. Youth Programs

See the Discussion section above for details of how this action supports the City Council's Strategic Priorities.

ATTACHMENTS

- 1. Resolution for CFD No. 1
- 2. Boundary Map

APPROVALS

Budget Officer Approval	<u>✓ Approved</u>	5/23/19 12:47 PM
City Attorney Approval	<u>✓ Approved</u>	5/28/19 10:08 AM
City Manager Approval	<u>✓ Approved</u>	5/30/19 1:24 PM

RESOLUTION NO. CSD 2019-__

A RESOLUTION OF THE BOARD FOR THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, APPROVING THE COMMUNITY FACILITIES DISTRICT NO. 1 MAXIMUM AND APPLIED SPECIAL TAX RATES FOR FISCAL YEAR 2019/20, AND CALCULATION THEREOF

WHEREAS, the City Council for the City of Moreno Valley, California, acting in its capacity as the Board of Directors of the Moreno Valley Community Services District ("CSD Board"), did form Community Facilities District No. 1 ("CFD No. 1" or "District") pursuant to the terms and provisions of the Mello-Roos Community Facilities Act of 1982, Chapter 2.5, Part 1, Division 2, Title 5 of the Government Code of the State of California; and

WHEREAS, following approval by the qualified electors of the District, the CSD Board, acting as the legislative body, did introduce and adopt Ordinance No. CSD-40 (Urgency Ordinance) and CSD-41 (an Ordinance to authorize the levy of a special tax within CFD No. 1); and

WHEREAS, Ordinance No. CSD-41 authorizes the CSD Board, by resolution, to annually determine the special tax to be levied in the District; provided, however, the special tax to be levied shall not exceed the maximum special tax authorized to be levied pursuant to the rates and method of apportionment of special tax (RMA); and

WHEREAS, the CSD Board adopted Resolution No. CSD 2003-26 authorizing annexation of Territory in the future to CFD No. 1; and

WHEREAS, annexations to CFD No. 1 have been conducted by the Community Services District following formation of the District; and

WHEREAS, the County of Riverside requires the adoption of a resolution for submission with the annual special taxes for placement on the Riverside County property tax bills; and

WHEREAS, the maximum annual special tax for developed and undeveloped property has been established by the RMA at \$115.00 per parcel/dwelling unit for fiscal year (FY) 2003/04. Per the RMA, beginning in FY 2004/05 and for each subsequent fiscal year, the maximum annual special tax shall be increased by the percentage increase in the Consumer Price Index (All Items), or by two percent (2%), whichever is greater; and

1
Resolution No. CSD 2019-__
Date Adopted: June 4, 2019

WHEREAS, the calculation of the special tax is in compliance with laws pertaining to the levy of the special taxes; and

WHEREAS, the special tax is levied without regard to property valuation; and

WHEREAS, the City has prepared and submitted the Annual Special Tax Report ("Report") for FY 2019/20, which identifies the maximum and applied special taxes, in an amount not to exceed the maximum special tax, and the calculation thereof; and

WHEREAS, the Report is on file in the office of the City Treasurer/Chief Financial Officer ("CFO") and is incorporated herein by this reference; and

WHEREAS, the annual special taxes shall be submitted to the Riverside County Auditor-Controller's Office, to be levied on the property tax bills of parcels subject to the special tax.

NOW, THEREFORE, THE BOARD FOR THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

1. Incorporation of Recitals. The foregoing recitals are true and correct and incorporated herein by this reference.
2. Approval of Report. The above referenced Report, on file in the office of the City's CFO, is approved as filed, as the Report may have been modified by order of the CSD Board.
3. Maximum Special Tax Rate. The FY 2019/20 maximum special tax rate per parcel/dwelling unit is set at \$176.37
4. Applied Special Tax Rate. The FY 2019/20 applied special tax rate per parcel/dwelling unit is set at \$146.32.
5. Confirming the Rates. The maximum and applied special tax rates are hereby confirmed for each parcel of real property within the District, as set forth in the Report.
6. Collection of Special Taxes. The special taxes set forth in the Report, shall be collected in the same manner as ad valorem property taxes and shall be subject to the same penalties, procedures, sale and lien priority in any case of delinquency as applicable for ad valorem taxes; provided, however, the District may utilize a direct billing procedure for any special taxes that cannot be collected on the County tax roll or may, by resolution, elect to collect the special taxes at a different time or in a different manner if necessary to meet its financial obligations.
7. Modifications. The City's CFO is authorized to adjust the special taxes levied on the property tax roll in the event there are parcel changes, clerical errors, new parcels annexed into the District, or other adjustments as may be necessary

2

Resolution No. CSD 2019-____
Date Adopted: June 4, 2019

between the date the special taxes were calculated and the date the fixed charges are submitted to the County of Riverside, provided the applied special tax rate does not exceed the maximum special tax rate and is in compliance with the RMA.

- 8. Provision of Services. Nothing in this description of services or any Resolution or Ordinance of the CSD Board shall be construed as committing the CSD or the District to provide all of the proposed services. The provision of services shall be subject to the availability of sufficient funding through the collection of special tax revenue for the District.
- 9. Severability. If any provision of this Resolution or the application of any such provision is held invalid, such invalidity shall not affect other provisions or applications of this Resolution that can be given effect without the invalid provision or application, and to this end the provisions of this Resolution are severable and that the CSD Board declares that it would have adopted this Resolution irrespective of the invalidity of any particular portion of this Resolution.
- 10. Certified Copy. The Secretary of the CSD is hereby ordered to forward a certified copy of this Resolution to the County of Riverside and to take such actions as are required for the collection of the tax.
- 11. Certification. The Secretary of the CSD shall certify to the adoption of this Resolution.
- 12. Effective Date. This Resolution shall become effective immediately upon its adoption.

APPROVED AND ADOPTED this 4th day of June, 2019.

By:
 Acting in the capacity of President of the
 Moreno Valley Community Services District

3
 Resolution No. CSD 2019-____
 Date Adopted: June 4, 2019

ATTEST:

City Clerk, acting in the capacity of
Secretary of the Moreno Valley
Community Services District

APPROVED AS TO FORM:

City Attorney, acting in the capacity
of General Counsel of the Moreno
Valley Community Services District

Resolution No. CSD 2019-4
Date Adopted: June 4, 2019

Attachment: Resolution for CFD No. 1 [Revision 2] (3589 : APPROVAL OF THE MAXIMUM AND APPLIED SPECIAL TAXES FOR COMMUNITY

RESOLUTION JURAT

STATE OF CALIFORNIA)
COUNTY OF RIVERSIDE) ss.
CITY OF MORENO VALLEY)

I, Pat Jacquez-Nares, Secretary of the Moreno Valley Community Services District, Moreno Valley, California do hereby certify that Resolution No. CSD 2019-___ was duly and regularly adopted by the Board of Directors of the Moreno Valley Community Services District at a regular meeting held on the 4th day of June, 2019, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Boardmembers, Vice-President and President)

SECRETARY

(SEAL)

Resolution No. CSD 2019-___⁵
Date Adopted: June 4, 2019

Attachment: Resolution for CFD No. 1 [Revision 2] (3589 : APPROVAL OF THE MAXIMUM AND APPLIED SPECIAL TAXES FOR COMMUNITY

53
28

BOUNDARIES
COMMUNITY FACILITIES DISTRICT NO. 1 (FUTURE ANNEXATION AREA)
OF THE
CITY OF MORENO VALLEY COMMUNITY SERVICES DISTRICT
COUNTY OF RIVERSIDE, STATE OF CALIFORNIA

RECORDED THIS 17th DAY OF June, 2003 AT THE HOUR OF 8 O'CLOCK A.M. IN BOOK 53, PAGES 28 OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS, IN THE OFFICE OF THE COUNTY RECORDER, IN THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

FEE: \$0.00 NO: 2003-491275
GARY L. ORSO, RIVERSIDE COUNTY ASSESSOR-CLERK-RECORDER

BY: [Signature]
DEPUTY



RECORDED IN THE OFFICE OF THE COUNTY SURVEYOR OF RIVERSIDE COUNTY THIS 5 DAY OF JUNE, 2003.

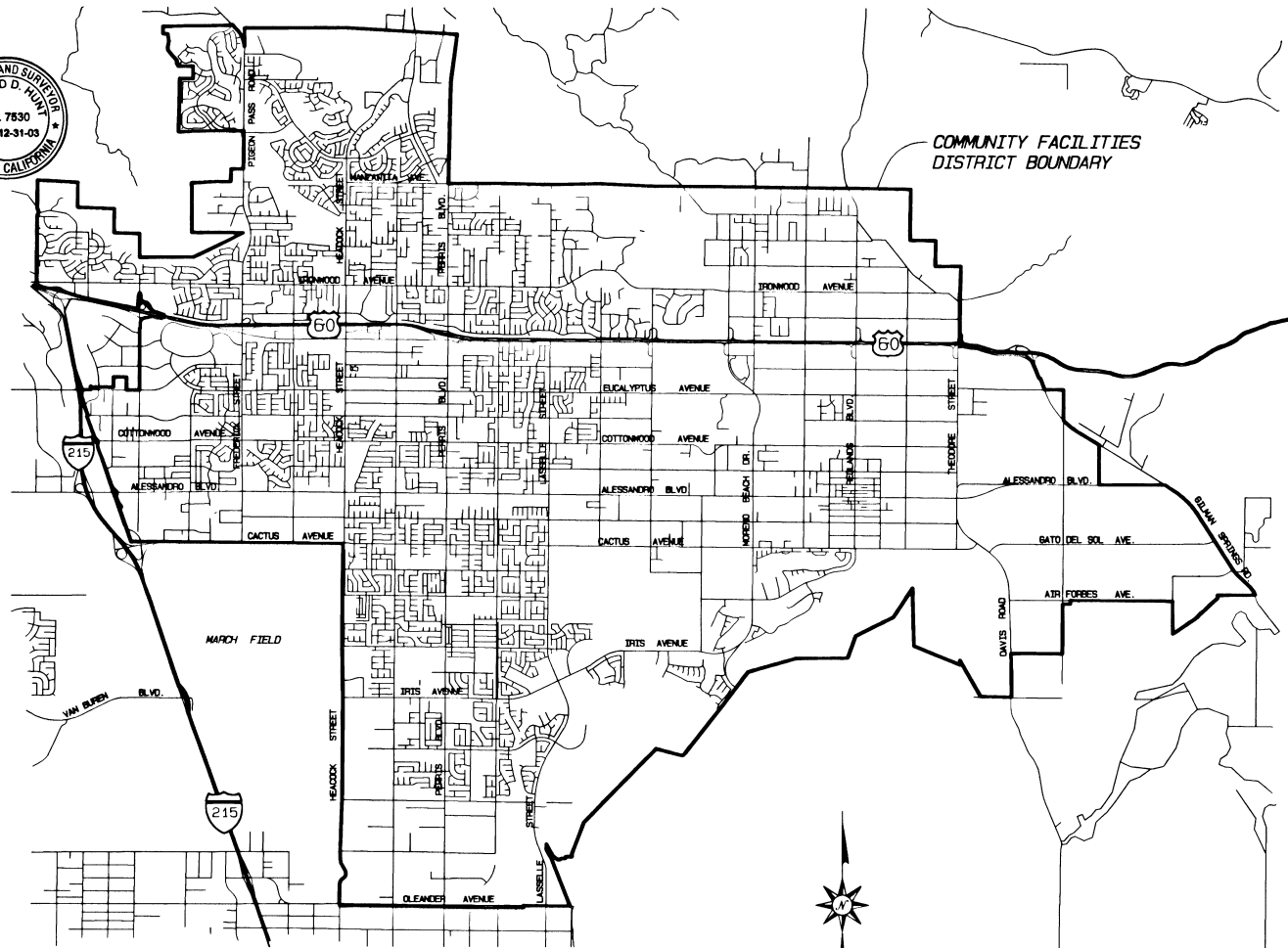
BY: Edward D. Hunt DEPUTY
COUNTY SURVEYOR OF RIVERSIDE COUNTY, STATE OF CALIFORNIA

I HEREBY CERTIFY THAT THE WITHIN MAP SHOWING PROPOSED BOUNDARIES OF COMMUNITY FACILITIES DISTRICT NO. 1, CITY OF MORENO VALLEY COMMUNITY SERVICES DISTRICT, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, WAS APPROVED BY THE CITY COUNCIL OF THE CITY OF MORENO VALLEY AT A REGULAR MEETING THEREOF, HELD ON THE 27th DAY OF May, 2003, BY ITS RESOLUTION NO. 2003-11

Oliver Reed
CITY CLERK OF THE CITY OF MORENO VALLEY

FILED IN THE OFFICE OF THE CITY CLERK OF THE CITY OF MORENO VALLEY THIS 9th DAY OF June, 2003.

BY: Oliver Reed
CITY CLERK OF THE CITY OF MORENO VALLEY



ALBERT A. WEBB ASSOCIATES ENGINEERING CONSULTANTS

THIS BOUNDARY MAP CORRECTLY SHOWS THE LAND INCLUDED WITHIN THE BOUNDARIES OF THE COMMUNITY FACILITIES DISTRICT. FOR DETAILS CONCERNING THE LINES AND DIMENSIONS OF LOTS OR PARCELS REFER TO THE COUNTY ASSESSOR'S MAPS FOR FISCAL YEAR 2002-2003.

W.O. 03-0077

Attachment: Boundary Map (3589) : APPROVAL OF THE MAXIMUM AND APPLIED SPECIAL TAXES FOR



Report to City Council

TO: Mayor and City Council
 Mayor and City Council Acting in its Capacity as
 President and Members of the Board of Directors of the
 Moreno Valley Community Services District (CSD)

FROM: Marshall Eyerman, Chief Financial Officer

AGENDA DATE: June 4, 2019

TITLE: PUBLIC HEARING ESTABLISHING APPROPRIATIONS
 ("GANN") LIMIT FOR FISCAL YEAR 2019/20

RECOMMENDED ACTION

Recommendations: That the City Council and CSD:

1. Conduct a Public Hearing to receive public comments on the City of Moreno Valley General Fund appropriations limit for Fiscal Year 2019/20.
2. Adopt Resolution No. 2019-XX, a resolution of the City Council of the City of Moreno Valley, California, establishing the appropriations limit for Fiscal Year 2019/20.
3. Conduct a Public Hearing to receive public comments on the Moreno Valley Community Services District's appropriations limit for Fiscal Year 2019/20.
4. Adopt Resolution No. CSD 2019-XX, a resolution of the Moreno Valley Community Services District establishing the appropriations limit for Fiscal Year 2019/20

SUMMARY

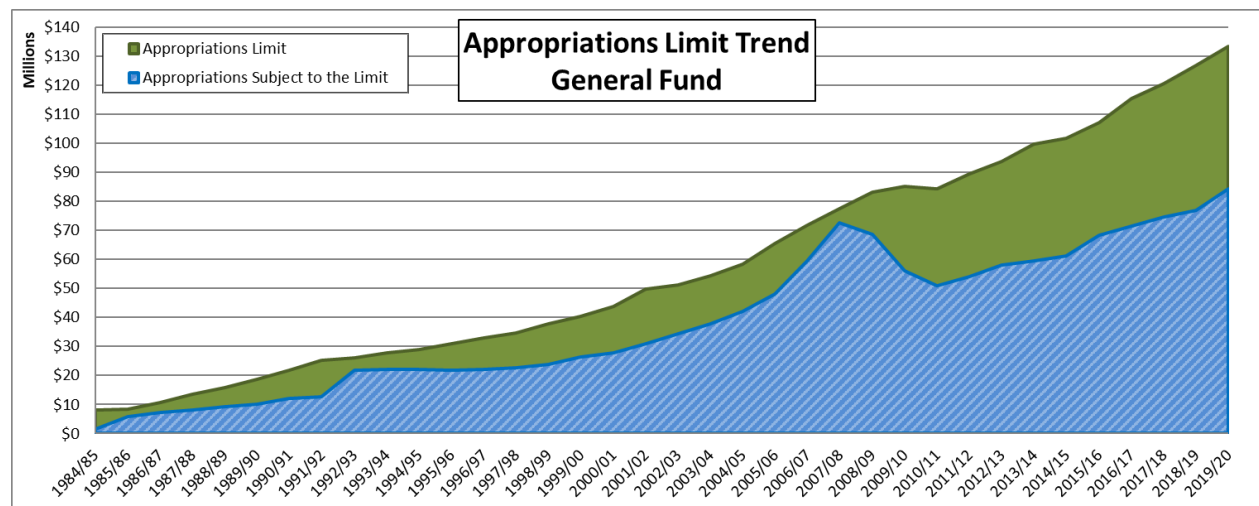
This report recommends that the City Council and the Community Services District Board of Directors conduct public hearings and adopt the resolutions to establish the Gann Appropriations Limits for both the General Fund and the Community Services District (District) for FY 2019/20. The Gann Appropriations Limit, the result of the passage of Proposition 4 in 1979, places limits on the amount of tax proceeds that can be appropriated each year. For FY 2019/20 the limit for the General Fund is

\$133,245,718 and the limit for the District is \$21,471,634. With revenues subject to the limit totaling \$84,305,457 for the General Fund and \$10,837,005 for the District there is still significant capacity to accommodate future revenue growth.

DISCUSSION

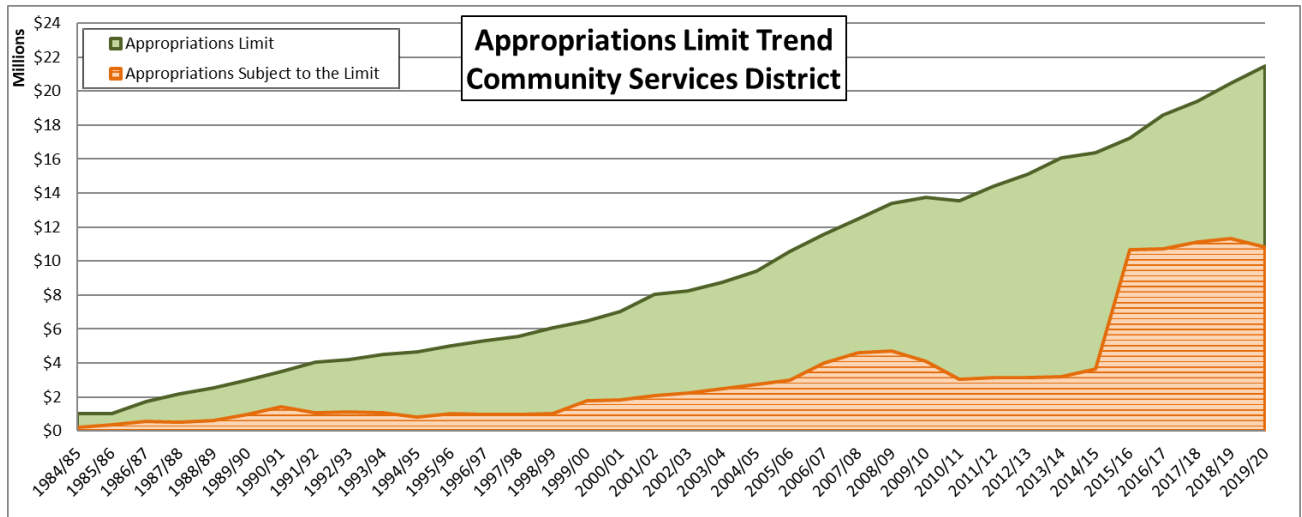
Section 7910 of the State Government Code requires a governing body to annually adopt by resolution, an Appropriation (Gann) Limit for the upcoming fiscal year. For FY 2019/20 the appropriation limit for the General Fund is \$133,245,718 and the limit for the District is \$21,471,634. With revenues subject to the limit totaling \$84,305,457 for the General Fund and \$10,837,005 for the District there is still significant capacity to accommodate future revenue growth. The Gann calculation is reviewed by the City’s external audit firm as part of the annual audit process.

In 2008 the available capacity between the appropriations limit and the appropriations subject to the limit for the City reached the lowest point at 6.34%. Over the next three years appropriation levels were reduced as a result of the recession and declining revenues. Since then, as the local economy has improved, the remaining capacity has gradually increased to approximately 37% of the appropriations limit. Based on projections from the Long Range Business Plan we expect capacity levels to remain relatively high and we do not foresee any issues going forward that would result in the City reaching the appropriations limit.



The Community Services District continues to maintain sufficient capacity related to the appropriations limit. In 2015, based on a ruling by the City Attorney, revenues that had previously been accounted for as non-proceeds of tax were reclassified as tax related revenues. This restatement resulted in reducing their appropriation capacity from 78% to 38%. Their available capacity is currently approximately 50%. Based on the projections from the Long Range Business Plan we anticipate that the capacity rate will

remain in this relative range and we do not foresee any issues with the appropriations limit going forward.



Adoption of the proposed resolutions will formalize the Gann Appropriations Limits for FY 2019/20.

ALTERNATIVES

1. Conduct a Public Hearing to receive public comments on the City of Moreno Valley General Fund appropriations limit for Fiscal Year 2019/20.
2. Adopt Resolution No. 2019-XX, a resolution of the City Council of the City of Moreno Valley, California, establishing the appropriations limit for Fiscal Year 2018/19.
3. Conduct a Public Hearing to receive public comments on the Moreno Valley Community Services District’s appropriations limit for Fiscal Year 2019/20.
4. Adopt Resolution No. CSD 2019-XX, a resolution of the Moreno Valley Community Services District establishing the appropriations limit for Fiscal Year 2019/20.
5. Do not conduct a Public Hearing to receive comments on the appropriation limits and do not adopt the proposed resolutions establishing the appropriations limits and provide staff with further direction.

Staff recommends Alternatives 1 through 4 since these actions will adopt the Gann Appropriations Limit in accordance with State law.

FISCAL IMPACT

There is no fiscal impact. Both the General Fund and the District are safely within their legal appropriations limits for Fiscal Year 2019/20.

NOTIFICATION

Notification regarding the adoption of the Gann Limit was published in the newspaper on May 17th and May 22nd. The documents were made available for public review on May 14th, 2019.

PREPARATION OF STAFF REPORT

Prepared By:
Brooke McKinney
Treasury Operations Division Manager

Department Head Approval
Marshall Eyerman
Chief Financial Officer

CITY COUNCIL GOALS

Revenue Diversification and Preservation. Develop a variety of City revenue sources and policies to create a stable revenue base and fiscal policies to support essential City services, regardless of economic climate.

CITY COUNCIL STRATEGIC PRIORITIES

1. Economic Development
2. Public Safety
3. Library
4. Infrastructure
5. Beautification, Community Engagement, and Quality of Life
6. Youth Programs

ATTACHMENTS

1. FY 2019-20 Gann Limit Resolution Gen Fund
2. FY 2019-20 Gann Limit Resolution_CSD

APPROVALS

Budget Officer Approval	<u>✓ Approved</u>	5/17/19 4:07 PM
City Attorney Approval	<u>✓ Approved</u>	5/15/19 9:03 AM
City Manager Approval	<u>✓ Approved</u>	5/30/19 1:22 PM

RESOLUTION NO. 2019-__

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, ESTABLISHING THE APPROPRIATIONS LIMIT FOR FISCAL YEAR 2019/20

WHEREAS, Article XIII B of the California Constitution and Section 7910 of the California Government Code require that each year the City of Moreno Valley shall by resolution, establish an appropriations limit for the City for the following fiscal year; and

WHEREAS, the City Council adopted the Budget for Fiscal Year 2019/20 a copy of which is on file in the Office of the City Clerk and is available for public inspection; and

WHEREAS, the said budget contains the estimates of the services, activities and projects comprising the budget, and contains expenditure requirements and the resources available to the City; and

WHEREAS, the City's Financial & Management Services Department has heretofore prepared and submitted data and documentation required for and to be used in the determination of certain matters and for the establishment of an appropriations limit for the City for Fiscal Year 2019/20 and such data and documentation has been available to the public for at least fifteen days prior to adoption of this Resolution; and

WHEREAS, the City Council has elected to use the annual change in the Per Capita Personal Income as the cost of living factor, and

WHEREAS, the City Council has considered pertinent data and documentation and made such determinations as may be required by law, and has adopted this Resolution at a regularly scheduled meeting of the City Council.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

1. That the appropriations limit for the City of Moreno Valley for Fiscal Year 2019/20 is hereby established at \$133,245,718, and the total annual appropriations subject to such limitation for Fiscal Year 2019/20 is estimated to be \$84,305,457.
2. The City Council hereby adopts the findings and methods of calculations set forth in Exhibit A, the Proceeds of Tax Calculation, Exhibit B, the Appropriations (Gann) Limit Calculation, and Exhibit C, the Summary of Annual Appropriation (Gann) Limits. To the extent permitted by applicable law, the City of Moreno Valley reserves the right to change or revise any gross factors associated with the calculation of the limit established pursuant to Article XIII B of the California Constitution if such changes or revisions would result in a more advantageous appropriation limit in the present or future.

- 3. Pursuant to Section 53901 of the California Government Code, by no later than August 30, 2019, the City Clerk shall file a copy of this Resolution with the Auditor of the County of Riverside.
- 4. Within fifteen days after the adoption of this Resolution, the City Clerk shall certify to the adoption thereof and, as so certified, cause a copy to be posted in at least three public places within the City.

BE IT FURTHER RESOLVED that this Resolution shall take effect immediately upon the date of its adoption.

APPROVED AND ADOPTED this 4th day of June, 2019.

Mayor

ATTEST:

City Clerk

APPROVED AS TO FORM:

City Attorney

RESOLUTION JURAT

3

Resolution No. 2019-__
Date Adopted:

EXHIBIT A

CITY OF MORENO VALLEY
 APPROPRIATIONS (GANN) LIMIT
 PROCEEDS OF TAX CALCULATION
 GENERAL FUND FY 2019/20

REVENUE SOURCE	BUDGETED PROCEEDS OF TAX	BUDGETED NON-PROCEEDS OF TAX	TOTAL REVENUE
Taxes			
Property (1)	\$ 36,831,900		\$ 36,831,900
Sales	20,988,000		20,988,000
Motor Vehicle In-Lieu	-		-
Business Gross Receipts	2,500,000		2,500,000
Utility Users	16,000,000		16,000,000
Transient Occupancy Tax	3,500,000		
Documentary Transfer Tax	800,000		
Other Taxes	4,300,000		4,300,000
Fees			
Franchise		-	-
		7,773,295	
		2,665,288	
Includes Cannabis Annual Permit		1,527,248	
		1,208,000	
		810,000	
		1,794,662	
		2,685,000	
Development Fees		18,463,493	18,463,493
Animal/Business Lic	935,000		
Include Cannabis App Fee	1,447,150		
	-		
Other Fees, Permits & Licenses		2,382,150	2,382,150
Fines & Forfeitures		642,000	642,000
Administrative Charges		3,540,873	3,540,873
Motor Veh-in-Lieu Fees/Riverside Co. Landfill Tipping/Asset Forfeitures	313,000		
T & M Reimbursed Costs	-		
Riverside County Reimbursement	-		
State Grant-Operating Revenue	-		
Other Grant-Operating Revenue	-		
Intergovernmental		313,000	313,000
		763,000	
		90,000	
		-	
		(763,000)	
		62,000	
		103,000	
Miscellaneous		255,000	255,000
Total	\$ 80,619,900	\$ 25,596,516	\$ 106,216,416
% of Total	75.90	24.10	100.00
Allocation of Interest	3,685,557	1,170,249	4,855,806
Adjusted Total	\$ 84,305,457	\$ 26,766,765	\$ 111,072,222

Revenues are based on FY 2019/20 Budget

Notes:

(1) Includes Property Tax In-Lieu of Vehicle License Fees In-Lieu

Attachment: FY 2019-20 Gann Limit Resolution Gen Fund (3575 : PUBLIC HEARING ESTABLISHING APPROPRIATIONS ("GANN") LIMIT FOR

EXHIBIT B

CITY OF MORENO VALLEY
APPROPRIATIONS (GANN) LIMITS
LIMIT CALCULATION
GENERAL FUND FY 2019/20

APPROPRIATIONS SUBJECT TO THE LIMIT

FY 2019/20 Total Revenue *	\$ 111,072,222
Less: Non-Proceeds of Tax	<u>26,766,765</u>
A) Total Appropriations Subject to the Limit	\$ 84,305,457

APPROPRIATIONS LIMIT

B) FY 2018/19 Appropriations Limit	\$126,924,860	
C) Change Factor **	<u>% Increase</u>	<u>Factor</u>
Cost of Living (Per Capital Personal Income)-COL	3.85	1.0385
Population Adjustment - PA	1.09	1.0109
Change Factor (COL x PA)		<u>1.0498</u>
D) Increase in Appropriations Limit	6,320,858	
E) FY 2019/20 Appropriations Limit (B x C)	<u>\$ 133,245,718</u>	

REMAINING APPROPRIATIONS CAPACITY

(E - A)	<u>\$ 48,940,261</u>
Remaining Capacity as a Percent of the FY 2018/19 Appropriations Limit	<u>36.73%</u>

* Revenues based upon FY 2019/20 Budget

** State Department of Finance
Percent of Change in California Per Capita Income
Percent of Change in City of Moreno Valley Population

Attachment: FY 2019-20 Gann Limit Resolution Gen Fund (3575 : PUBLIC HEARING ESTABLISHING APPROPRIATIONS ("GANN") LIMIT FOR

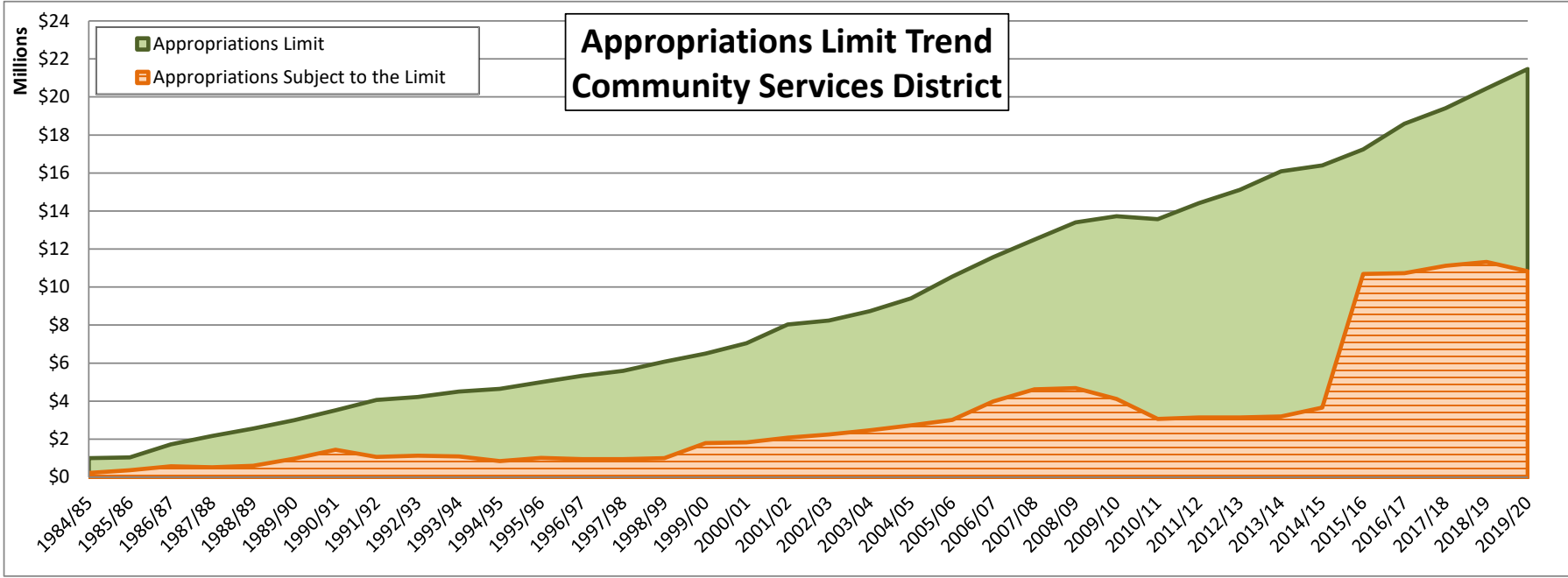
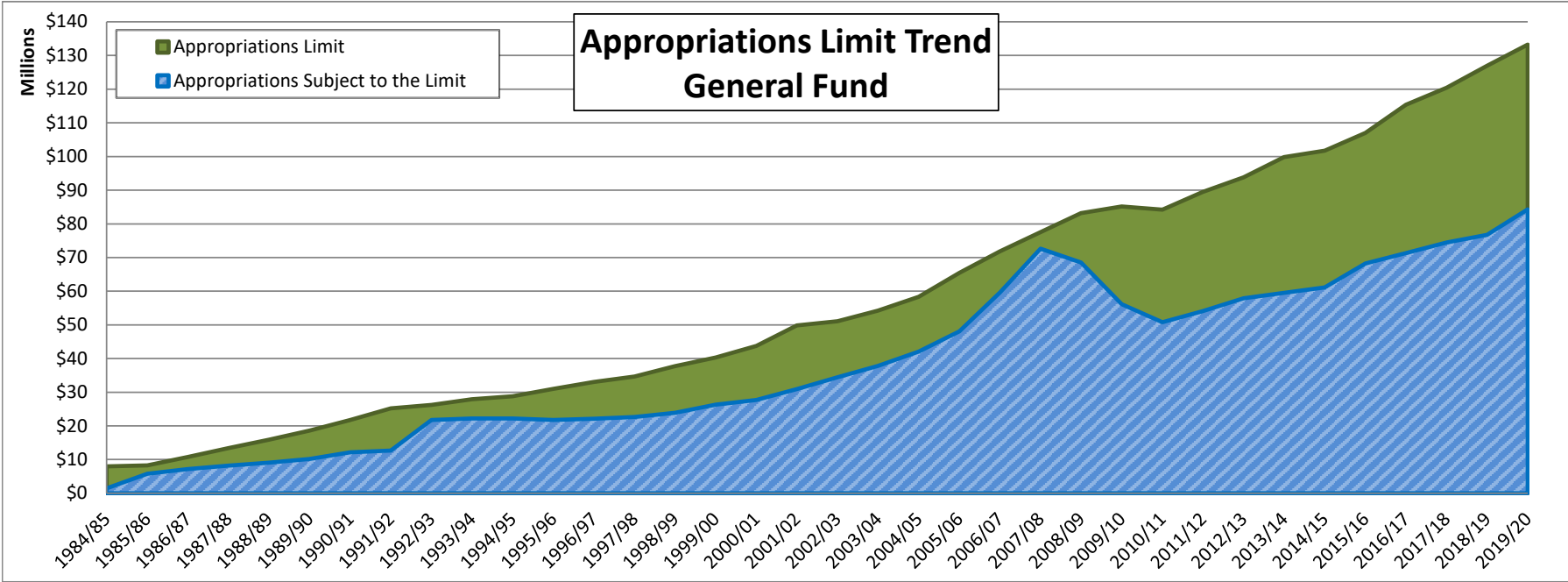
EXHIBIT C

**CITY OF MORENO VALLEY
SUMMARY OF ANNUAL APPROPRIATION (GANN) LIMITS
GENERAL FUND AND COMMUNITY SERVICES DISTRICT**

FISCAL YEAR	COST OF LIVING CHANGE	POPULATION CHANGE	GENERAL FUND			COMMUNITY SERVICES DISTRICT		
			APPROPRIATIONS LIMIT	SUBJECT TO THE LIMIT	REMAINING CAPACITY	APPROPRIATIONS LIMIT	SUBJECT TO THE LIMIT	REMAINING CAPACITY
1984/85	-	-	\$8,000,000	\$1,489,525	\$6,510,475	\$1,000,000	\$225,224	\$774,776
1985/86	3.74%	-	8,299,200	5,801,524	2,497,676	1,037,400	366,257	671,143
1986/87	2.30%	13.34%	10,739,623	7,182,998	3,556,625	1,730,616	571,404	1,159,212
1987/88	3.40%	21.27%	13,419,869	8,186,487	5,233,382	2,162,519	514,685	1,647,834
1988/89	3.93%	13.98%	15,897,098	9,117,625	6,779,473	2,561,707	595,770	1,965,937
1989/90	4.98%	11.53%	18,612,989	10,193,243	8,419,746	2,999,354	973,431	2,025,923
1990/91	4.21%	12.34%	21,790,136	12,168,319	9,621,817	3,511,329	1,447,368	2,063,961
1991/92	4.14%	9.53%	25,184,125	12,702,824	12,481,301	4,058,248	1,068,016	2,990,232
1992/93	-0.64%	4.74%	26,209,119	21,751,950	4,457,169	4,223,419	1,127,115	3,096,304
1993/94	2.72%	3.69%	27,915,333	22,167,783	5,747,550	4,498,364	1,090,166	3,408,198
1994/95	0.71%	2.56%	28,833,747	22,191,470	6,642,277	4,646,360	839,650	3,806,710
1995/96	4.72%	2.66%	30,999,161	21,770,020	9,229,141	4,995,302	1,018,520	3,976,782
1996/97	4.67%	1.91%	33,066,805	22,117,750	10,949,055	5,328,489	952,480	4,376,009
1997/98	4.67%	0.19%	34,677,158	22,635,500	12,041,658	5,587,986	952,480	4,635,506
1998/99	4.15%	4.44%	37,718,345	23,919,000	13,799,345	6,078,052	1,000,500	5,077,552
1999/00	4.53%	2.29%	40,328,454	26,298,904	14,029,550	6,498,653	1,796,366	4,702,287
2000/01	4.91%	3.36%	43,728,143	27,701,784	16,026,359	7,046,489	1,831,589	5,214,900
2001/02	7.82%	5.68%	49,823,846	30,910,955	18,912,891	8,028,770	2,074,425	5,954,345
2002/03	-1.27%	3.88%	51,099,336	34,456,312	16,643,024	8,234,307	2,244,708	5,989,599
2003/04	2.31%	3.72%	54,226,615	37,805,936	16,420,679	8,738,247	2,465,590	6,272,657
2004/05	3.28%	4.17%	58,342,415	42,094,636	16,247,779	9,401,480	2,727,571	6,673,909
2005/06	5.26%	6.59%	65,460,190	48,100,800	17,359,390	10,548,461	3,016,336	7,532,125
2006/07	3.96%	5.59%	71,855,651	59,592,475	12,263,176	11,579,046	3,987,532	7,591,514
2007/08	4.42%	3.38%	77,568,175	72,653,027	4,915,148	12,499,580	4,615,504	7,884,076
2008/09	4.29%	2.79%	83,153,084	68,506,576	14,646,508	13,399,550	4,685,689	8,713,861
2009/10	0.62%	1.83%	85,198,650	56,124,960	29,073,690	13,729,179	4,108,012	9,621,167
2010/11	-2.54%	1.40%	84,193,306	50,777,288	33,416,018	13,567,175	3,059,579	10,507,596
2011/12	2.51%	3.66%	89,463,807	54,120,708	35,343,099	14,416,480	3,146,478	11,270,002
2012/13	3.77%	1.05%	93,811,748	57,930,634	35,881,114	15,117,121	3,146,049	11,971,072
2013/14	5.12%	1.23%	99,825,081	59,511,085	40,313,996	16,086,128	3,193,939	12,892,189
2014/15	0.80%	1.12%	101,751,705	61,132,366	40,619,339	16,396,590	3,661,696	12,734,894
2015/16	3.82%	1.28%	107,002,093	68,270,362	38,731,731	17,242,654	10,686,758	6,555,896
2016/17	5.37%	2.35%	115,401,757	71,329,731	44,072,026	18,596,202	10,733,417	7,862,785
2017/18	3.69%	0.67%	120,456,354	74,479,064	45,977,290	19,410,716	11,119,754	8,290,962
2018/19	3.67%	1.64%	126,924,860	76,753,778	50,171,082	20,453,071	11,321,657	9,131,414
2019/20	3.86%	1.09%	133,245,718	84,305,457	48,940,261	21,471,634	10,837,005	10,634,629

Note (1) During 2014 the City Attorney made a ruling that certain revenues which had previously been shown as Non-Proceeds of Tax should be shown as Proceeds of Tax instead. That ruling is reflected in data beginning with FY 2015/16.

Attachment: FY 2019-20 Gann Limit Resolution Gen Fund (3575 : PUBLIC HEARING ESTABLISHING



Attachment: FY 2019-20 Gann Limit Resolution Gen Fund (3575 : PUBLIC HEARING ESTABLISHING

RESOLUTION NO. CSD 2019-__

A RESOLUTION OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT ESTABLISHING THE APPROPRIATIONS LIMIT FOR FISCAL YEAR 2019/20

WHEREAS, Article XIII B of the California Constitution and Section 7910 of the California Government Code require that each year the Moreno Valley Community Services District (District) shall by resolution, establish an appropriations limit for the District for the following fiscal year; and

WHEREAS, the City Council, acting in its capacity as the Board of Directors of the District, has adopted the Budget for Fiscal Year 2019/20 a copy of which is on file in the Office of the City Clerk and is available for public inspection; and

WHEREAS, the said budget contains the estimates of the services, activities and projects comprising the budget, and contains expenditure requirements and the resources available to the District; and

WHEREAS, the District's Financial & Management Services Department has heretofore prepared and submitted data and documentation required for and to be used in the determination of certain matters and for the establishment of an appropriations limit for the District for Fiscal Year 2019/20 and such data and documentation has been available to the public for at least fifteen days prior to adoption of this Resolution, and

WHEREAS, the City Council, acting in its capacity as the Board of Directors of the District, has elected to use the annual change in the Per Capita Personal Income as the cost of living factor. and

WHEREAS, the City Council, acting in its capacity as the Board of Directors of the District, has considered pertinent data and documentation and made such determinations as may be required by law, and has adopted this Resolution at a regularly scheduled meeting of the Board of Directors of the District.

NOW, THEREFORE, THE BOARD OF DIRECTORS OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT DOES HEREBY RESOLVE AS FOLLOWS:

1. That the appropriations limit for the Moreno Valley Community Services District for Fiscal Year 2019/20 is hereby established at \$21,471,634, and the total annual appropriations subject to such limitation for Fiscal Year 209/20 is estimated to be \$10,837,005.
2. The District's Board of Directors hereby adopts the findings and methods of calculations set forth in Exhibit A, the Proceeds of Tax Calculation, Exhibit B, the Appropriation (Gann) Limit Calculation, and Exhibit C, the Summary of Annual Appropriation (Gann) Limits. To the extent permitted by applicable law, the

District reserves the right to change or revise any gross factors associated with the calculation of the limit established pursuant to Article XIII B of the California Constitution if such changes or revisions would result in a more advantageous appropriations limit in the present or future.

- 3. Pursuant to Section 53901 of the California Government Code, by no later than August 30, 2019, the City Clerk, acting in the capacity of Secretary of the Moreno Valley Community Services District, shall file a copy of this Resolution with the Auditor of the County of Riverside.
- 4. Within fifteen days after the adoption of this Resolution, the City Clerk, acting in the capacity of Secretary of the Moreno Valley Community Services District, shall certify to the adoption thereof and, as so certified, cause a copy to be posted in at least three public places within the City.

BE IT FURTHER RESOLVED that this Resolution shall take effect immediately upon the date of its adoption.

APPROVED AND ADOPTED this 4th day of June, 2019.

Mayor of the City of Moreno Valley,
Acting in the capacity of President of the
Moreno Valley Community Services District

ATTEST:

City Clerk, acting in the capacity
of Secretary of the Moreno Valley
Community Services District

APPROVED AS TO FORM:

City Attorney, acting in the capacity
of General Counsel of the Moreno
Valley Community Services District

RESOLUTION JURAT

Attachment: FY 2019-20 Gann Limit Resolution_CSD (3575 : PUBLIC HEARING ESTABLISHING APPROPRIATIONS ("GANN") LIMIT FOR

EXHIBIT A

**CITY OF MORENO VALLEY
APPROPRIATIONS (GANN) LIMIT
PROCEEDS OF TAX CALCULATION
COMMUNITY SERVICES DISTRICT FY 2019/20**

REVENUE SOURCE	BUDGETED PROCEEDS OF TAX	BUDGETED NON-PROCEEDS OF TAX	TOTAL REVENUE
<u>Taxes</u>			
Zone A - Parks & Recreation	\$ 7,789,910		\$ 7,789,910
Zone A - Parks & Recreation Rest. Assets	-		-
CFD No 1 - Parks	-		-
LMD 2014-01 - Residential Lights	125,800		125,800
Zone C - Arterial Lights	653,700		653,700
Zone D - Standard Landscaping	-		-
Zone E - Extensive Landscaping	-		-
LMD 2014-02	-		-
CFD 2014-01	-		-
Zone L - Library Services	2,190,560		2,190,560
Zone M - Median Fund	-		-
Zone S - Sunnymead Blvd.	-		-
<u>Fees</u>			
Zone A - Parks & Recreation		1,142,683	1,142,683
Zone A - Parks & Recreation Rest. Assets		-	-
CFD No 1 - Parks		-	-
LMD 2014-01 - Residential Lights		955,700	955,700
Zone C - Arterial Lights		7,500	7,500
Zone D - Standard Landscaping		1,000,000	1,000,000
Zone E - Extensive Landscaping		118,480	118,480
LMD 2014-02		1,901,416	1,901,416
CFD 2014-01		-	-
Zone L - Library Services		30,000	30,000
Zone M - Median Fund		120,700	120,700
Zone S - Sunnymead Blvd.		63,000	63,000
<u>Miscellaneous</u>			
Zone A - Parks & Recreation		18,000	18,000
Zone A - Parks & Recreation		866,659	866,659
Zone A - Parks & Recreation		1,000	1,000
Zone A - Parks & Recreation		5,000	5,000
Zone B - Residential Lights		-	-
Zone E - Extensive Landscaping		-	-
LMD 2014-02		-	-
Zone D - Standard Landscaping		-	-
Zone L - Library Services		10	10
Zone L - Library Services		30,000	30,000
<u>Transfers In</u>			
Zone A - Parks & Recreation		528,237	528,237
Zone A - Parks & Recreation Rest. Assets		-	-
CFD No 1 - Parks		-	-
LMD 2014-01 - Residential Lights		386,800	386,800
Zone C - Arterial Lights		191,400	191,400
Zone D - Standard Landscaping		-	-
Zone E - Extensive Landscaping		-	-
LMD 2014-02		200,000	200,000
CFD 2014-01		-	-
Zone L - Library Services		475,000	475,000
Zone M - Median Fund		180,490	180,490
Zone S - Sunnymead Blvd.		-	-
Total	\$ 10,759,970	\$ 8,222,075	\$ 18,982,045
% of Total	56.68	43.32	100.00
Allocation of Interest *	77,035	58,865	135,900
Adjusted Total	\$ 10,837,005	\$ 8,280,940	\$ 19,117,945

Attachment: FY 2019-20 Gann Limit Resolution_CSD (3575 : PUBLIC HEARING ESTABLISHING APPROPRIATIONS ("GANN") LIMIT FOR

EXHIBIT B

CITY OF MORENO VALLEY
APPROPRIATIONS (GANN) LIMITS
LIMIT CALCULATION
COMMUNITY SERVICES DISTRICT FY 2019/20

APPROPRIATIONS SUBJECT TO THE LIMIT

FY 2019/20 Total Revenue *	\$	19,117,945
Less: Non-Proceeds of Tax		8,280,940
A) Total Appropriations Subject to the Limit	\$	<u>10,837,005</u>

APPROPRIATIONS LIMIT

B) FY 2018/19 Appropriations Limit		20,453,071
C) Change Factor **	<u>% Increase</u>	<u>Factor</u>
Cost of Living (Per Capital Personal Income)-COL	3.85	1.0385
Population Adjustment - PA	1.09	1.0109
Change Factor (COL x PA)		<u>1.0498</u>
D) Increase in Appropriations Limit		1,018,563
E) FY 2019/20 Appropriations Limit (B x C)	\$	<u>21,471,634</u>

REMAINING APPROPRIATIONS CAPACITY

(E - A)	\$	<u>10,634,629</u>
Remaining Capacity as a Percent of the FY 2018/19 Appropriations Limit		<u>49.53%</u>

* Revenues based upon FY 2019/20 Budget

** State Department of Finance
Percent of Change in California Per Capita Income
Percent of Change in Population

Attachment: FY 2019-20 Gann Limit Resolution_CSD (3575 : PUBLIC HEARING ESTABLISHING APPROPRIATIONS ("GANN") LIMIT FOR

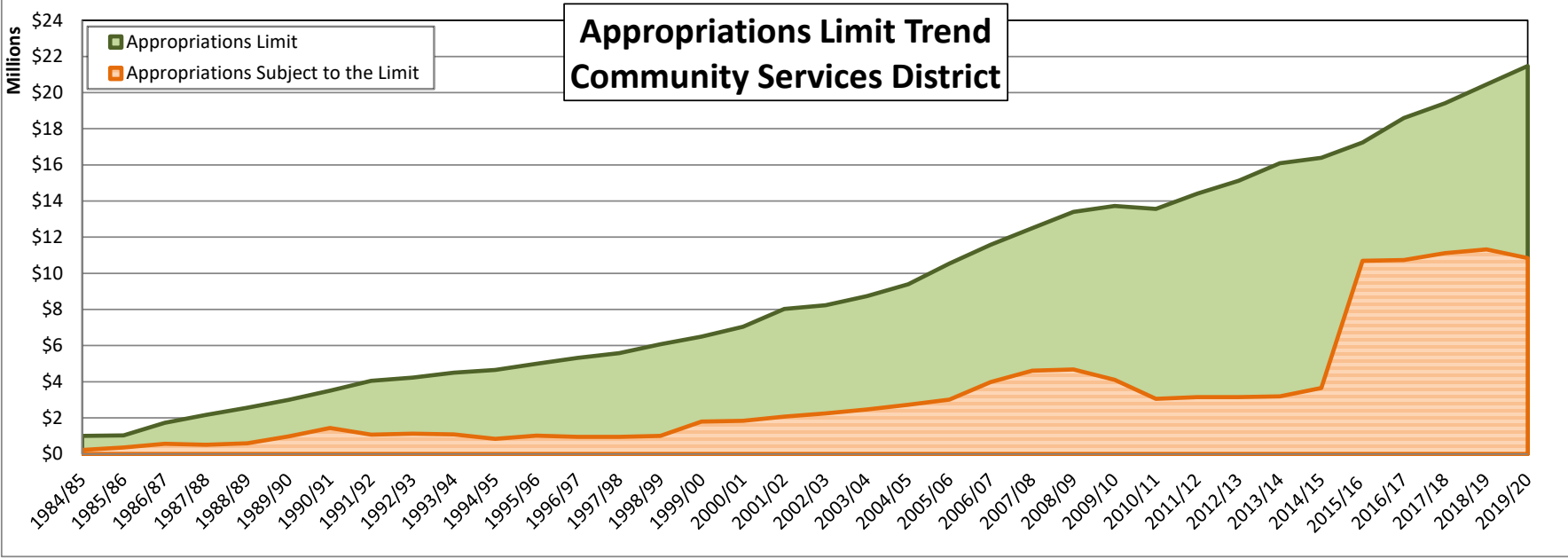
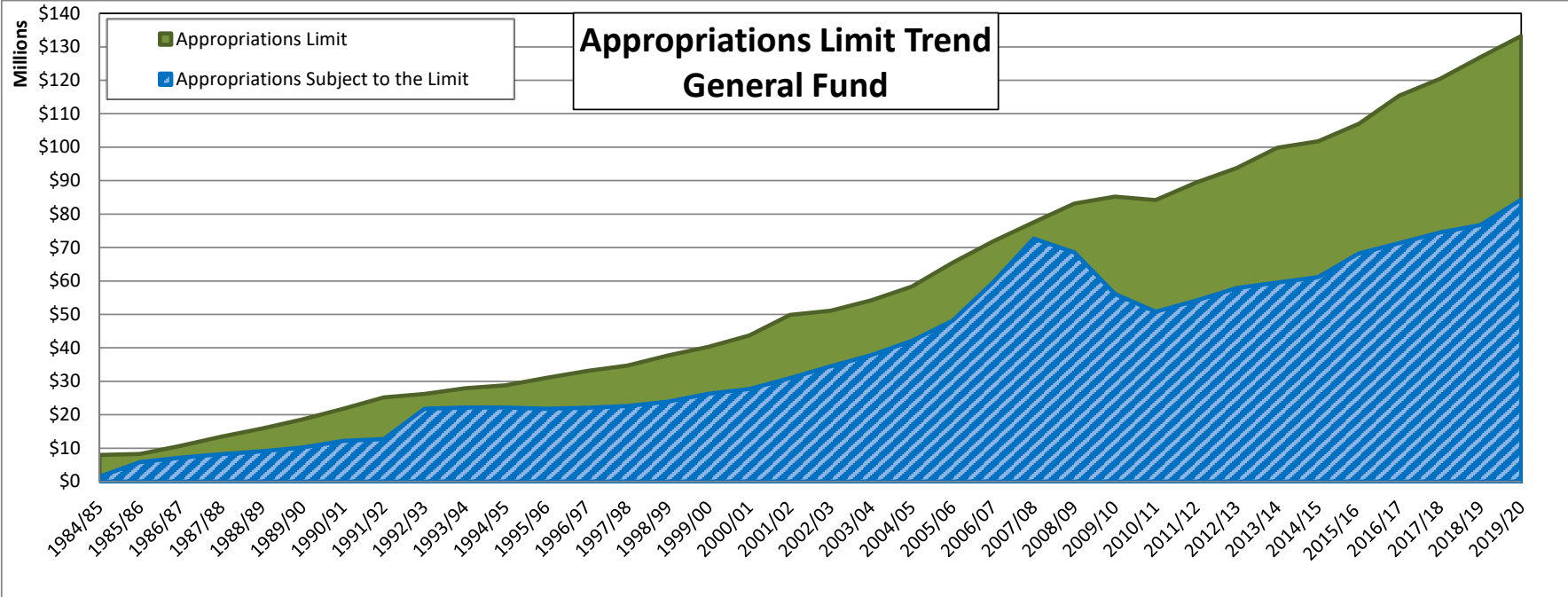
EXHIBIT C

**CITY OF MORENO VALLEY
SUMMARY OF ANNUAL APPROPRIATION (GANN) LIMITS
GENERAL FUND AND COMMUNITY SERVICES DISTRICT**

FISCAL YEAR	COST OF LIVING CHANGE	POPULATION CHANGE	GENERAL FUND			COMMUNITY SERVICES DISTRICT		
			APPROPRIATIONS LIMIT	APPROPRIATIONS SUBJECT TO THE LIMIT	REMAINING CAPACITY	APPROPRIATIONS LIMIT	APPROPRIATIONS SUBJECT TO THE LIMIT	REMAINING CAPACITY
1984/85	-	-	\$8,000,000	\$1,489,525	\$6,510,475	\$1,000,000	\$225,224	\$774,776
1985/86	3.74%	-	8,299,200	5,801,524	2,497,676	1,037,400	366,257	671,143
1986/87	2.30%	13.34%	10,739,623	7,182,998	3,556,625	1,730,616	571,404	1,159,212
1987/88	3.40%	21.27%	13,419,869	8,186,487	5,233,382	2,162,519	514,685	1,647,834
1988/89	3.93%	13.98%	15,897,098	9,117,625	6,779,473	2,561,707	595,770	1,965,937
1989/90	4.98%	11.53%	18,612,989	10,193,243	8,419,746	2,999,354	973,431	2,025,923
1990/91	4.21%	12.34%	21,790,136	12,168,319	9,621,817	3,511,329	1,447,368	2,063,961
1991/92	4.14%	9.53%	25,184,125	12,702,824	12,481,301	4,058,248	1,068,016	2,990,232
1992/93	-0.64%	4.74%	26,209,119	21,751,950	4,457,169	4,223,419	1,127,115	3,096,304
1993/94	2.72%	3.69%	27,915,333	22,167,783	5,747,550	4,498,364	1,090,166	3,408,198
1994/95	0.71%	2.56%	28,833,747	22,191,470	6,642,277	4,646,360	839,650	3,806,710
1995/96	4.72%	2.66%	30,999,161	21,770,020	9,229,141	4,995,302	1,018,520	3,976,782
1996/97	4.67%	1.91%	33,066,805	22,117,750	10,949,055	5,328,489	952,480	4,376,009
1997/98	4.67%	0.19%	34,677,158	22,635,500	12,041,658	5,587,986	952,480	4,635,506
1998/99	4.15%	4.44%	37,718,345	23,919,000	13,799,345	6,078,052	1,000,500	5,077,552
1999/00	4.53%	2.29%	40,328,454	26,298,904	14,029,550	6,498,653	1,796,366	4,702,287
2000/01	4.91%	3.36%	43,728,143	27,701,784	16,026,359	7,046,489	1,831,589	5,214,900
2001/02	7.82%	5.68%	49,823,846	30,910,955	18,912,891	8,028,770	2,074,425	5,954,345
2002/03	-1.27%	3.88%	51,099,336	34,456,312	16,643,024	8,234,307	2,244,708	5,989,599
2003/04	2.31%	3.72%	54,226,615	37,805,936	16,420,679	8,738,247	2,465,590	6,272,657
2004/05	3.28%	4.17%	58,342,415	42,094,636	16,247,779	9,401,480	2,727,571	6,673,909
2005/06	5.26%	6.59%	65,460,190	48,100,800	17,359,390	10,548,461	3,016,336	7,532,125
2006/07	3.96%	5.59%	71,855,651	59,592,475	12,263,176	11,579,046	3,987,532	7,591,514
2007/08	4.42%	3.38%	77,568,175	72,653,027	4,915,148	12,499,580	4,615,504	7,884,076
2008/09	4.29%	2.79%	83,153,084	68,506,576	14,646,508	13,399,550	4,685,689	8,713,861
2009/10	0.62%	1.83%	85,198,650	56,124,960	29,073,690	13,729,179	4,108,012	9,621,167
2010/11	-2.54%	1.40%	84,193,306	50,777,288	33,416,018	13,567,175	3,059,579	10,507,596
2011/12	2.51%	3.66%	89,463,807	54,120,708	35,343,099	14,416,480	3,146,478	11,270,002
2012/13	3.77%	1.05%	93,811,748	57,930,634	35,881,114	15,117,121	3,146,049	11,971,072
2013/14	5.12%	1.23%	99,825,081	59,511,085	40,313,996	16,086,128	3,193,939	12,892,189
2014/15	0.80%	1.12%	101,751,705	61,132,366	40,619,339	16,396,590	3,661,696	12,734,894
2015/16	3.82%	1.29%	107,002,093	68,270,362	38,731,731	17,242,654	10,686,758 (1)	6,555,896
2016/17	5.37%	2.35%	115,401,757	71,329,731	44,072,026	18,596,202	10,733,417	7,862,785
2017/18	3.69%	0.67%	120,456,354	74,479,064	45,977,290	19,410,716	11,119,754	8,290,962
2018/19	3.67%	1.64%	126,924,860	76,753,778	50,171,082	20,453,071	11,321,657	9,131,414
2019/20	3.85%	1.09%	133,245,718	84,305,457	48,940,261	21,471,634	10,837,005	10,634,629

Note (1) During 2014 the City Attorney made a ruling that certain revenues which had previously been shown as Non-Proceeds of Tax should be shown as Proceeds of Tax instead. That ruling is reflected in data beginning with FY 2015/16.

Attachment: FY 2019-20 Gann Limit Resolution_CSD (3575 : PUBLIC HEARING ESTABLISHING



Attachment: FY 2019-20 Gann Limit Resolution_CSD (3575 : PUBLIC HEARING ESTABLISHING



Report to City Council

TO: Mayor and City Council

FROM: Michael L. Wolfe, P.E., Public Works Director/City Engineer

AGENDA DATE: June 4, 2019

TITLE: PUBLIC HEARING FOR DELINQUENT SOLID WASTE ACCOUNTS

RECOMMENDED ACTION

Recommendations: That the City Council:

1. Conduct the Public Hearing and accept public testimony regarding Calendar Year (CY) 2018 delinquent solid waste accounts to be applied to the Fiscal Year (FY) 2019/20 County of Riverside property tax roll for collection;
2. Approve the Solid Waste Delinquency Report from Waste Management, Inc. (Waste Management) listing the CY 2018 delinquent solid waste accounts for placement on the FY 2019/20 County of Riverside property tax roll for collection; and
3. Direct the City Clerk to file the Solid Waste Delinquency Report with the County of Riverside Auditor-Controller.

SUMMARY

The action before the City Council is to conduct a Public Hearing to place CY 2018 delinquent solid waste accounts on the FY 2019/20 County of Riverside property tax roll for collection. The proposed assessment affects 6,327 specific property owners with associated delinquent solid waste accounts, not the general citizens or taxpayers of the City.

Per the Moreno Valley Municipal Code, unless otherwise approved by the City for self-hauling, all premises within the City that accumulate or produce solid waste shall receive at minimum weekly solid waste services through the franchisee waste hauler. Waste Management sends quarterly invoices to all customers for solid waste services. Solid waste charges become delinquent when an invoice exceeds sixty (60) days past due.

Waste Management identified 6,327 delinquent solid waste accounts in a written Solid Waste Delinquency Report prepared for the City. An official copy of the Solid Waste Delinquency Report, generated on May 21, 2019, is available in the City Clerk's office for public viewing during regular business hours. The anticipated total property tax assessment for the 6,327 delinquent solid waste accounts is \$2,600,843.48. Waste Management will accept payments on delinquent solid waste accounts until July 5, 2019 which may result in adjustments to the final property tax assessment amount received by the County of Riverside Auditor-Controller.

DISCUSSION

California Health and Safety Code, Section 5473 and the City of Moreno Valley Municipal Code, Chapter 6.02.030 authorize the collection of delinquent solid waste account charges and assessment of delinquent solid waste accounts on the annual property tax roll.

City Council Resolution 2017-41 authorizes the collection of delinquent solid waste charges on the annual property tax roll. The resolution is attached to this report for reference. The following outlines the process for collecting delinquent solid waste charges:

- 1) The City requests Waste Management prepare an annual written Solid Waste Delinquency Report to be filed with the City Clerk. The Solid Waste Delinquency Report contains a description of each parcel receiving solid waste services and the amount of the delinquent fees and charges for each parcel which remain outstanding. In addition to delinquent fees and charges, pursuant to the California Health and Safety Code, the amount may also include a ten percent basic penalty for nonpayment of fees and charges and, in addition, a penalty of one and one-half percent per month for nonpayment of fees and charges.
- 2) Subsequent to the final determination of the delinquent solid waste charges, and on or before the County's deadline for submission of charges, the City Clerk shall file with the County of Riverside Auditor-Controller a copy of the Solid Waste Delinquency Report prepared by Waste Management, endorsed by the City Clerk with a signed statement that the Solid Waste Delinquency Report has been formally adopted by the City Council.

Property owners have two options to resolve delinquent solid waste charges:

1. Resolve unpaid solid waste charges with Waste Management before the deadline of July 5, 2019; or
2. Resolve unpaid solid waste charges with the County of Riverside once delinquent solid waste charges are assessed on the FY 2019/20 property tax bill.

Waste Management mails a “Notice to Property Owner of Delinquent Solid Waste Charges” whenever solid waste charges become delinquent. This quarterly notice to affected property owners explains the intent to place delinquent solid waste charges on the property tax roll.

ALTERNATIVES

1. Conduct the Public Hearing and upon its close, approve the Solid Waste Delinquency Report from Waste Management listing the CY 2018 delinquent solid waste accounts for placement on the FY 2019/20 County of Riverside property tax roll for collection and direct the City Clerk to file the Solid Waste Delinquency Report with the County of Riverside Auditor-Controller. *Staff recommends this alternative as it will satisfy conditions of the City’s franchise agreement with Waste Management.*
2. Conduct the Public Hearing and upon its close, do not approve the Solid Waste Delinquency Report from Waste Management listing the CY 2018 delinquent solid waste accounts for placement on the FY 2019/20 County of Riverside property tax roll for collection, and do not direct the City Clerk to file the Solid Waste Delinquency Report with the County of Riverside Auditor-Controller. *Staff does not recommend this alternative, as it will result in non-compliance with the City’s franchise agreement with Waste Management.*
3. Open the Public Hearing and continue it to the June 18, 2019 City Council meeting. *If Council choses this option, this may result in missed deadlines related to the FY 2019/20 property tax roll. Failure to assess solid waste delinquencies on the annual property tax roll will result in non-compliance with the City’s franchise agreement with Waste Management.*
4. Do not conduct the Public Hearing. *Staff does not recommend this alternative, as it will result in non-compliance with the City’s franchise agreement with Waste Management.*
5. Do not conduct the Public Hearing at this time but reschedule it to a future regular City Council meeting date. *Staff does not recommend this alternative, as it may result in missed deadlines for assessment of solid waste delinquencies on the FY 2019/20 property tax roll. Failure to assess solid waste delinquencies on the annual property tax roll will result in non-compliance with the City’s franchise agreement with Waste Management.*

FISCAL IMPACT

The City receives a 12.13% franchise fee for revenue generated from the collection of delinquent solid waste accounts. Placement of delinquent solid waste charges on the County of Riverside property tax roll secures approximately \$315,482 of revenue for the City.

Solid waste services are exempt from voting requirements under Proposition 218, Section 6(c) because the obligation to pay for solid waste service in Moreno Valley is not incident to property ownership. Property owners may choose other legal means of disposal in our City. Furthermore, unpaid solid waste fees are not an encumbrance on a property, although delinquent fees can become the subject of a judgment lien.

NOTIFICATION

California Government Code Section 6066 requires public notification of Public Hearing notices. Newspaper advertising for the June 4, 2019 Public Hearing was published in The Press-Enterprise on May 21, 2019 and again on May 28, 2019.

PREPARATION OF STAFF REPORT

Prepared By:
Liz Girón
Management Assistant

Department Head Approval:
Michael L. Wolfe, P.E.
Public Works Director/City Engineer

Concurred By:
Robert Lemon
Maintenance & Operations Division Manager

CITY COUNCIL GOALS

Revenue Diversification and Preservation. Develop a variety of City revenue sources and policies to create a stable revenue base and fiscal policies to support essential City services, regardless of economic climate.

Community Image, Neighborhood Pride and Cleanliness. Promote a sense of community pride and foster an excellent image about our City by developing and executing programs which will result in quality development, enhanced neighborhood preservation efforts, including home rehabilitation and neighborhood restoration.

CITY COUNCIL STRATEGIC PRIORITIES

1. Economic Development
2. Public Safety
3. Library
4. Infrastructure
5. Beautification, Community Engagement, and Quality of Life
6. Youth Programs

ATTACHMENTS

1. Resolution 2017-41 - Reference
2. Tax Roll Submission Detail

APPROVALS

Budget Officer Approval	<u>✓ Approved</u>	5/28/19 7:24 AM
City Attorney Approval	<u>✓ Approved</u>	5/29/19 8:57 AM
City Manager Approval	<u>✓ Approved</u>	5/30/19 1:20 PM

RESOLUTION NO. 2017-41

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, REPEALING, REVISING AND REENACTING THE PROVISIONS OF RESOLUTION 2012-55, AND AUTHORIZING THE COLLECTION OF DELINQUENT SOLID WASTE CHARGES ON THE ANNUAL PROPERTY TAX ROLL.

WHEREAS, the City Council has heretofore adopted Chapter 6.02 of Title 6 of the City of Moreno Valley Municipal Code relating to refuse collection, transfer and disposal services; and

WHEREAS, Section 6.02.030 of Chapter 6.02 provides for the collection of delinquent and unpaid fees and charges on the tax roll in the same manner, by the same person, and at the same time as, together with and not separately from, its general taxes.

WHEREAS, said delinquent and unpaid fees or charges shall mean those fees and charges for which services have been rendered but which have not been paid for more than sixty (60) days after the billing date.

WHEREAS, Section 5473.10 of the Health and Safety Code provides that in addition to delinquent fees and charges, the amount collected on the tax roll may also include a ten percent basic penalty for nonpayment of those fees and charges and, in addition, a penalty of one and one-half percent per month for nonpayment of those fees, charges and the basic penalty; and

WHEREAS, it is in the best interests of the City that delinquent and unpaid fees and charges for refuse collection be collected on the tax roll; and

WHEREAS, the City Council has heretofore caused a report to be prepared, a copy of which is on file in the office of the City Clerk, which identifies each parcel of real property (without consideration of the value of said property) receiving such refuse collection services and facilities and the amount of the delinquent fees and charges for each parcel for the year which remain outstanding, computed in conformity with the charges prescribed by Chapter 6.02, and has caused public notice of said report and of a public hearing thereon to be duly given; and

WHEREAS, the City Council has held said hearing, at which all persons wishing to be heard were heard, and at which hearing the City Council heard and considered all objections and protests, if any;

1
Resolution No. 2017-41
Date Adopted: June 20, 2017

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

1. Recitals. The above recitals are all true and correct and are herein incorporated.

2. Resolution No. 2012-55, as adopted by the City Council on June 26, 2012, is hereby repealed, the repeal to be effective only upon the date of adoption of this resolution. No action commenced pursuant to the authority granted by Resolution No. 2012-55 shall be invalidated or otherwise affected by the repeal thereof.

3. Delinquent and unpaid fees and charges for solid waste collection as set forth in said report, and herein confirmed, shall be collected on the tax roll in the same manner, by the same persons as, and at the same time as, together with and not separately from, the City's general taxes, pursuant to the provisions of Chapter 6.02 of the City of Moreno Valley Municipal Code and Section 5473 of the California Health and Safety Code.

4. On or before August 10 of each year, following the final determination of the delinquent solid waste charges, the City Clerk shall file with the County of Riverside Auditor-Controller a certified copy of this resolution together with a certified copy of said report endorsed with a statement over her signature that the report has been finally adopted by the City Council.

5. The County of Riverside Auditor-Controller shall enter the amounts of the charges against the respective lots of parcels of land as they appear on the current assessment roll.

6. Said election to collect delinquent and unpaid fees and charges shall remain in effect until December 31, 2022, unless otherwise repealed or amended by the City Council.

7. This Resolution shall be effective immediately upon adoption.

8. The City Clerk shall certify to the adoption of this Resolution, and shall maintain on file as a public record this Resolution.

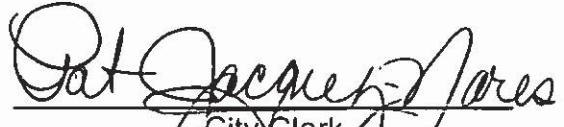
9. Severability. That the City Council declares that, should any provision, section, paragraph, sentence or word of this Resolution be rendered or declared invalid by any final court action in a court of competent jurisdiction or by reason of any preemptive legislation, the remaining provisions, sections, paragraphs, sentences or words of this Resolution as hereby adopted shall remain in full force and effect.

10. Repeal of Conflicting Provisions. That all the provisions heretofore adopted by the City Council that are in conflict with the provisions of this Resolution are hereby repealed.

APPROVED AND ADOPTED this 20th day of June, 2017.


Mayor of the City of Moreno Valley

ATTEST:


City Clerk

APPROVED AS TO FORM:


City Attorney

Attachment: Resolution 2017-41 - Reference (3555 : PUBLIC HEARING FOR DELINQUENT SOLID WASTE ACCOUNTS)

3
Resolution No. 2017-41
Date Adopted: June 20, 2017

RESOLUTION JURAT

STATE OF CALIFORNIA)
COUNTY OF RIVERSIDE) ss.
CITY OF MORENO VALLEY)

I, Patricia Jacquez-Narez, City Clerk of the City of Moreno Valley, California, do hereby certify that Resolution No. 2017-41 was duly and regularly adopted by the City Council of the City of Moreno Valley at a regular meeting thereof held on the 20th day of June, 2017 by the following vote:

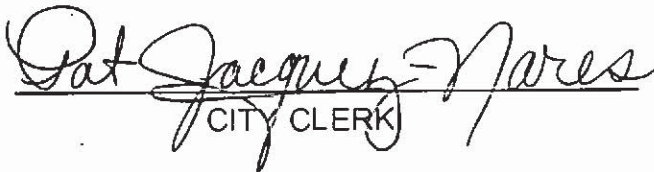
AYES: Council Members Cabrera, Giba, Marquez, Mayor Pro Tem Baca and Mayor Gutierrez

NOES: None

ABSENT: None

ABSTAIN: None

(Council Members, Mayor Pro Tem and Mayor)


CITY CLERK

(SEAL)

4
Resolution No. 2017-41
Date Adopted: June 20, 2017

Attachment: Resolution 2017-41 - Reference (3555 : PUBLIC HEARING FOR DELINQUENT SOLID WASTE ACCOUNTS)

Column Totals	2,003,753.76	200,377.97	396,739.88	2,600,843.48
Customer Count	6,327			

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
1	256150030	0	684277	21089	JENNINGS CT	305.07	30.51	60.40	395.98
2	256181001	0	684277	21012	PALA FOXIA PL	372.88	37.29	73.83	484.00
3	256181017	5	684277	21192	PALA FOXIA PL	378.50	37.85	74.94	491.28
4	256182013	4	684277	11768	BETULA CIR	71.43	7.14	14.14	92.70
5	256182022	2	684277	21117	MARTYNIA CT	378.50	37.85	74.94	491.28
6	256182032	1	684277	21168	MARTYNIA CT	352.06	35.21	69.71	456.98
7	256182034	3	684277	21150	MARTYNIA CT	89.48	8.95	17.72	116.14
8	256182037	6	684277	21126	MARTYNIA CT	155.12	15.51	30.71	201.34
9	256182039	8	684277	21082	MARTYNIA CT	170.57	17.06	33.77	221.40
10	256191014	3	684277	21317	PALA FOXIA PL	341.68	34.17	67.65	443.50
11	256191018	7	684277	21269	PALA FOXIA PL	378.50	37.85	74.94	491.28
12	256191042	8	684277	21395	LILIUM CT	239.48	23.95	47.42	310.84
13	256191053	8	684277	21285	LILIUM CT	138.00	13.80	27.32	179.12
14	256191065	9	684277	21402	TOWNSENDIA AVE	71.43	7.14	14.14	92.70
15	256191077	0	684277	21498	TOWNSENDIA AVE	394.88	39.49	78.19	512.56
16	256192007	0	684277	21451	TOWNSENDIA AVE	347.50	34.75	68.81	451.06
17	256192011	3	684277	21421	TOWNSENDIA AVE	321.68	32.17	63.69	417.54
18	256192017	9	684277	21480	DOUGLASIS CT	372.88	37.29	73.83	484.00
19	256193003	9	684277	21369	TOWNSENDIA AVE	155.12	15.51	30.71	201.34
20	256212001	5	684277	21354	TOWNSENDIA AVE	76.67	7.67	15.18	99.52
21	256212004	8	684277	21318	TOWNSENDIA AVE	372.88	37.29	73.83	484.00
22	256213012	8	684277	21360	DOUGLASIS CT	188.16	18.82	37.26	244.24
23	256213013	9	684277	21370	DOUGLASIS CT	372.88	37.29	73.83	484.00
24	256215008	1	684277	11895	RUDBECKIA CIR	278.44	27.84	55.13	361.40
25	256215015	7	684277	11942	RUDBECKIA CIR	372.88	37.29	73.83	484.00
26	256216004	0	684277	21379	DOUGLASIS CT	172.88	17.29	34.23	224.40
27	256216013	8	684277	21450	BLOSSOM HILL LN	50.00	5.00	9.90	64.90
28	256221020	0	684277	11716	BALD EAGLE LN	163.99	16.40	32.47	212.86
29	256221027	7	684277	11651	BALD EAGLE LN	372.88	37.29	73.83	484.00

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

Column Totals	2,003,753.76	200,377.97	396,739.88	2,600,843.48
Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
30	256231006	9	684277	21835	OSPREY LN	438.34	43.83	86.79	568.96
31	256231009	2	684277	21822	OSPREY LN	462.06	46.21	91.49	599.76
32	256231021	2	684277	21811	GOLDEN OAKS DR	172.81	17.28	34.22	224.30
33	256231024	5	684277	21961	GOLDEN OAKS DR	76.16	7.62	15.08	98.86
34	256241002	6	684277	21771	GLEN VIEW DR	372.88	37.29	73.83	484.00
35	256242012	8	684277	21919	GLEN VIEW DR	361.80	36.18	71.64	469.62
36	256242024	9	684277	21908	GLEN VIEW DR	325.78	32.58	64.50	422.86
37	256242035	9	684277	21960	WINDING RD	278.50	27.85	55.14	361.48
38	256242037	1	684277	21791	SPRING CREST RD	321.68	32.17	63.69	417.54
39	256242044	7	684277	21889	SPRINGCREST RD	378.50	37.85	74.94	491.28
40	256243005	5	684277	21914	SPRING CREST RD	372.88	37.29	73.83	484.00
41	256243007	7	684277	21886	SPRINGCREST RD	378.50	37.85	74.94	491.28
42	256243010	9	684277	21838	SPRING CREST RD	75.90	7.59	15.03	98.52
43	256243012	1	684277	21890	WINDING RD	477.72	47.77	94.59	620.08
44	256252004	2	684277	21640	WINDING RD	237.02	23.70	46.93	307.64
45	256252005	3	684277	21648	WINDING RD	149.62	14.96	29.62	194.20
46	256252008	6	684277	21672	WINDING RD	372.88	37.29	73.83	484.00
47	256254006	0	684277	21627	WINDING RD	372.88	37.29	73.83	484.00
48	256262009	8	684277	21170	TENNYSON RD	330.58	33.06	65.46	429.10
49	256263006	8	684277	21151	TENNYSON RD	422.15	42.22	83.59	547.96
50	256264007	2	684277	21120	DICKINSON RD	76.43	7.64	15.13	99.20
51	256272025	3	684277	21219	LANDS END	77.86	7.79	15.42	101.06
52	256272032	9	684277	21190	DICKINSON RD	72.88	7.29	14.43	94.60
53	256280012	6	684277	21981	WINDING RD	83.73	8.37	16.58	108.68
54	256291007	6	684277	11420	MORTON RD	155.12	15.51	30.71	201.34
55	256291016	4	684277	21085	GALLANT FOX DR	165.78	16.58	32.82	215.18
56	256291027	4	684277	21231	GALLANT FOX DR	71.43	7.14	14.14	92.70
57	256301006	5	684277	21675	ROWENA DR	158.99	15.90	31.48	206.36
58	256301008	7	684277	21643	CALLE PRIMA	537.44	53.74	106.41	697.58

MORENO VALLEY Tax Roll Listing 2019
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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
59	256301009	8	684277	21637	CALLE PRIMA	127.76	12.78	25.30	165.84
60	256303007	2	684277	21630	CALLE PRIMA	71.43	7.14	14.14	92.70
61	256304001	9	684277	21500	CALLE MONACO	378.50	37.85	74.94	491.28
62	256306001	5	684277	21709	CALLE PRIMA	372.88	37.29	73.83	484.00
63	256306002	6	684277	21680	DEL AMO ST	378.50	37.85	74.94	491.28
64	256306009	3	684277	21685	DEL AMO ST	120.08	12.01	23.78	155.86
65	256306016	9	684277	21690	ROWENA DR	378.50	37.85	74.94	491.28
66	256306023	5	684277	11680	PIMILICO WAY	81.64	8.16	16.16	105.96
67	256306024	6	684277	11690	PIMILICO WAY	493.99	49.40	97.81	641.20
68	256311010	9	684277	11510	CHAUCER ST	252.06	25.21	49.91	327.18
69	256312002	5	684277	21247	TENNYSON RD	346.55	34.66	68.62	449.82
70	256312010	2	684277	21313	TENNYSON RD	278.50	27.85	55.14	361.48
71	256312027	8	684277	21282	SHAKESPEARE CT	378.50	37.85	74.94	491.28
72	256313007	3	684277	21329	SHAKESPEARE CT	385.23	38.52	76.28	500.02
73	256313008	4	684277	21341	SHAKESPEARE CT	378.50	37.85	74.94	491.28
74	256313009	5	684277	21353	SHAKESPEARE CT	303.26	30.33	60.05	393.64
75	256313013	8	684277	11589	FRANKHALE RD	351.46	35.15	69.59	456.20
76	256320006	4	684277	21465	WOOLF CT	372.88	37.29	73.83	484.00
77	256320008	6	684277	21454	WOOLF CT	160.23	16.02	31.73	207.98
78	256320032	7	684277	11515	CLARK ST	486.54	48.65	96.33	631.52
79	256331003	5	684277	21366	DICKINSON RD	372.88	37.29	73.83	484.00
80	256331006	8	684277	21330	DICKINSON RD	559.57	55.96	110.80	726.32
81	256331006	8	684277	21330	DICKINSON RD	559.57	55.96	110.80	726.32
82	256331007	9	684277	21318	DICKINSON RD	22.95	2.30	4.55	29.80
83	256331023	3	684277	21304	OCASEY CT	228.41	22.84	45.23	296.48
84	256332005	0	684277	21454	DICKINSON RD	378.50	37.85	74.94	491.28
85	256333022	8	684277	21474	MARSTON CT	359.67	35.97	71.22	466.86
86	256333027	3	684277	21406	MARSTON CT	281.85	28.19	55.81	365.84
87	256333034	9	684277	21425	DICKINSON RD	372.88	37.29	73.83	484.00

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
88	256333045	9	684277	11717	CLARK ST	357.06	35.71	70.70	463.46
89	256342004	0	684277	11525	MINDORA DR	378.50	37.85	74.94	491.28
90	256342005	1	684277	11513	MINDORA DR	486.54	48.65	96.33	631.52
91	256342009	5	684277	11470	MINDORA DR	242.03	24.20	47.92	314.14
92	256343012	0	684277	21775	CALLE MONACO	339.64	33.96	67.25	440.84
93	256451003	6	684277	11462	CHAUCER ST	421.95	42.20	83.55	547.70
94	256452013	8	684277	21373	TYLER RD	219.68	21.97	43.50	285.14
95	256452021	5	684277	11513	GREYSON RD	297.59	29.76	58.92	386.26
96	256461011	4	684277	21330	GREYSON RD	369.62	36.96	73.18	479.76
97	256461014	7	684277	21294	GREYSON RD	280.28	28.03	55.50	363.80
98	257190005	9	684277	21540	REGULUS ST	372.88	37.29	73.83	484.00
99	259361006	2	684277	9779	SYCAMORE CANYON RD	493.99	49.40	97.81	641.20
100	259361007	3	684277	9787	SYCAMORE CANYON RD	155.12	15.51	30.71	201.34
101	259361008	4	684277	9795	SYCAMORE CANYON RD	346.30	34.63	68.57	449.50
102	259361008	4	684277	9795	SYCAMORE CANYON RD	346.30	34.63	68.57	449.50
103	259361011	6	684277	9819	SYCAMORE CANYON RD	372.88	37.29	73.83	484.00
104	259361021	5	684277	9895	SYCAMORE CANYON RD	378.50	37.85	74.94	491.28
105	259362019	7	684277	9829	DEER CREEK RD	372.88	37.29	73.83	484.00
106	259362021	8	684277	9847	DEER CREEK RD	105.12	10.51	20.81	136.44
107	259363004	6	684277	9880	DEER CREEK RD	372.88	37.29	73.83	484.00
108	259363017	8	684277	22810	COUNTRYSIDE WAY	158.81	15.88	31.44	206.12
109	259363022	2	684277	22760	COUNTRYSIDE WAY	238.16	23.82	47.16	309.14
110	259371014	0	684277	9638	SYCAMORE CANYON RD	71.43	7.14	14.14	92.70
111	259371023	8	684277	9672	SYCAMORE CANYON RD	372.88	37.29	73.83	484.00
112	259371025	0	684277	9688	SYCAMORE CANYON RD	579.10	57.91	114.66	751.66
113	259371031	5	684277	22779	BEAVERCREEK CT	375.78	37.58	74.40	487.76
114	259372010	9	684277	9659	SYCAMORE CANYON RD	357.79	35.78	70.84	464.40
115	259381014	1	684277	9572	SHADOW SPRINGS DR	372.88	37.29	73.83	484.00
116	259381026	2	684277	22936	BROOKHOLLOW WAY	372.88	37.29	73.83	484.00

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
117	259382012	2	684277	9572	RIPPLECREEK DR	260.81	26.08	51.64	338.52
118	259383001	5	684277	9615	RIPPLECREEK DR	415.62	41.56	82.29	539.46
119	259384001	8	684277	9601	PEBBLE BROOK DR	378.50	37.85	74.94	491.28
120	259384005	2	684277	9545	PEBBLE BROOK DR	378.50	37.85	74.94	491.28
121	259391002	1	684277	22937	BROOKHOLLOW WAY	493.99	49.40	97.81	641.20
122	259391003	2	684277	22927	BROOKHOLLOW WAY	288.52	28.85	57.13	374.50
123	259392007	9	684277	9712	RIPPLECREEK DR	378.50	37.85	74.94	491.28
124	259392009	1	684277	9740	RIPPLECREEK DR	71.43	7.14	14.14	92.70
125	259393010	4	684277	9656	PEBBLE BROOK DR	372.88	37.29	73.83	484.00
126	259394001	9	684277	9741	PEBBLE BROOK DR	76.67	7.67	15.18	99.52
127	259401003	2	684277	9810	PEBBLE BROOK DR	145.95	14.60	28.90	189.44
128	259402001	3	684277	9839	PEBBLE BROOK DR	191.91	19.19	38.00	249.10
129	259402006	8	684277	9769	PEBBLE BROOK DR	378.50	37.85	74.94	491.28
130	259411003	3	684277	9888	PEBBLE BROOK DR	372.88	37.29	73.83	484.00
131	259411006	6	684277	9811	WHITEWATER RD	372.88	37.29	73.83	484.00
132	259411016	5	684277	9822	WHITEWATER RD	378.50	37.85	74.94	491.28
133	259411021	9	684277	9892	WHITEWATER RD	372.88	37.29	73.83	484.00
134	259411028	6	684277	9978	WHITEWATER RD	372.88	37.29	73.83	484.00
135	259414005	4	684277	9895	WATERFALL CIR	385.23	38.52	76.28	500.02
136	259414031	7	684277	9877	PEBBLE BROOK DR	372.88	37.29	73.83	484.00
137	259421004	5	684277	22530	COUNTRY CREST DR	493.99	49.40	97.81	641.20
138	259421005	6	684277	22520	COUNTRY CREST DR	458.26	45.83	90.74	594.82
139	259422008	2	684277	22589	MORALIA DR	71.43	7.14	14.14	92.70
140	259422008	2	684277	22598	MORALIA DR	71.43	7.14	14.14	92.70
141	259422013	6	684277	22638	MORALIA DR	375.73	37.57	74.39	487.68
142	259422015	8	684277	22660	MORALIA DR	498.48	49.85	98.70	647.02
143	259422017	0	684277	10010	CARTAGENA DR	82.78	8.28	16.39	107.44
144	259423002	9	684277	22575	COUNTRY CREST DR	378.50	37.85	74.94	491.28
145	259423003	0	684277	22565	COUNTRY CREST DR	176.38	17.64	34.92	228.94

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
146	259423005	2	684277	22545	COUNTRY CREST DR	378.50	37.85	74.94	491.28
147	259441001	4	684277	9654	SUNNYBROOK DR	372.88	37.29	73.83	484.00
148	259443001	0	684277	9690	SUNNYBROOK DR	318.27	31.83	63.02	413.12
149	259443014	2	684277	9781	CROSS CREEK CIR	120.86	12.09	23.93	156.88
150	259443025	2	684277	9745	BIG CREEK CIR	168.99	16.90	33.46	219.34
151	259443027	4	684277	9723	BIG CREEK CIR	155.12	15.51	30.71	201.34
152	259451002	6	684277	23187	MONTALVO RD	336.20	33.62	66.57	436.38
153	259451012	5	684277	23039	MONTALVO RD	158.99	15.90	31.48	206.36
154	259451024	6	684277	23021	COTATI CT	71.44	7.14	14.14	92.72
155	259451026	8	684277	23008	COTATI CT	372.88	37.29	73.83	484.00
156	259452002	9	684277	9920	VIA MONTARA	243.28	24.33	48.17	315.78
157	259452005	2	684277	9950	VIA MONTARA	493.99	49.40	97.81	641.20
158	259470030	0	684277	9840	VIA MONTARA	378.50	37.85	74.94	491.28
159	259470033	3	684277	9839	CASMALIA CT	372.88	37.29	73.83	484.00
160	259470044	3	684277	9814	CASMALIA CT	378.50	37.85	74.94	491.28
161	259470046	5	684277	9844	CASMALIA CT	166.20	16.62	32.91	215.72
162	259482006	6	684277	9966	VIA DEL NORTE	493.99	49.40	97.81	641.20
163	259482009	9	684277	9953	PASEO CORRALITO	486.54	48.65	96.33	631.52
164	259491042	6	684277	23532	DESCANSO DR	372.88	37.29	73.83	484.00
165	259491045	9	684277	23574	DESCANSO DR	372.88	37.29	73.83	484.00
166	259492014	4	684277	9872	CORTE MADERA	109.24	10.92	21.63	141.78
167	259510003	9	684277	9878	CAMINO DEL CORONADO	76.43	7.64	15.13	99.20
168	259510013	8	684277	23682	DESCANSO DR	93.09	9.31	18.43	120.82
169	259510024	8	684277	9818	CAMINO DEL CORONADO	327.23	32.72	64.79	424.74
170	259520005	2	684277	23478	LAWLESS RD	160.12	16.01	31.70	207.82
171	259521010	9	684277	23451	VIA SOLANA	241.20	24.12	47.76	313.08
172	259521011	0	684277	23437	VIA SOLANA	56.35	5.64	11.16	73.14
173	260061002	1	684277	23355	VIA MONTEGO	424.76	42.48	84.10	551.34
174	260061004	3	684277	23339	VIA MONTEGO	372.88	37.29	73.83	484.00

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Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
175	260061019	7	684277	10353	VIA APOLINA	372.88	37.29	73.83	484.00
176	260061026	3	684277	10285	VIA APOLINA	457.93	45.79	90.67	594.38
177	260061029	6	684277	10261	VIA APOLINA	159.33	15.93	31.55	206.80
178	260061041	6	684277	10188	VIA PAVON	385.78	38.58	76.38	500.74
179	260062008	0	684277	10297	VIA PAVON	378.50	37.85	74.94	491.28
180	260062009	1	684277	10307	VIA PAVON	486.54	48.65	96.33	631.52
181	260062015	6	684277	10278	VIA PASTORAL	374.74	37.47	74.20	486.40
182	260062016	7	684277	10270	VIA PASTORAL	378.50	37.85	74.94	491.28
183	260063002	7	684277	10300	VIA PAVON	187.69	18.77	37.16	243.62
184	260063009	4	684277	23347	VIA AMADOR	281.87	28.19	55.81	365.86
185	260063024	7	684277	10360	VIA APOLINA	359.09	35.91	71.10	466.10
186	260063037	9	684277	23388	VIA SAUSALITO	43.16	4.32	8.55	56.02
187	260063047	8	684277	23403	VIA MONTEGO	76.67	7.67	15.18	99.52
188	260064010	7	684277	23339	VIA SAUSALITO	238.16	23.82	47.16	309.14
189	260072004	7	684277	23960	BRITTLEBUSH CIR	369.37	36.94	73.14	479.44
190	260073004	0	684277	23963	BRITTLEBUSH CIR	359.99	36.00	71.28	467.26
191	260073010	5	684277	10332	DESERT STAR ST	372.88	37.29	73.83	484.00
192	260073019	4	684277	10345	LAKE SUMMIT DR	30.88	3.09	6.11	40.08
193	260073027	1	684277	10257	LAKE SUMMIT DR	485.05	48.51	96.04	629.60
194	260074007	6	684277	10314	LAKE SUMMIT DR	56.43	5.64	11.17	73.24
195	260081005	6	684277	10409	SHORE CREST TER	343.58	34.36	68.03	445.96
196	260081006	7	684277	10399	SHORE CREST TER	305.54	30.55	60.50	396.58
197	260081013	3	684277	10329	SHORE CREST TER	378.50	37.85	74.94	491.28
198	260081015	5	684277	10309	SHORE CREST TER	378.50	37.85	74.94	491.28
199	260081016	6	684277	10299	SHORE CREST TER	342.80	34.28	67.87	444.94
200	260081023	2	684277	23887	CREEKWOOD DR	252.03	25.20	49.90	327.12
201	260081027	6	684277	23919	CREEKWOOD DR	43.80	4.38	8.67	56.84
202	260082033	4	684277	10369	DESERT STAR ST	687.64	68.76	136.15	892.54
203	260082037	8	684277	23900	CREEKWOOD DR	38.16	3.82	7.56	49.54

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204	260083009	6	684277	23920	BRITTLEBUSH CIR	84.27	8.43	16.69	109.38
205	260092002	7	684277	23714	WATERLEAF CIR	351.46	35.15	69.59	456.20
206	260092011	5	684277	23820	BLUE RIDGE PL	582.58	58.26	115.35	756.18
207	260092022	5	684277	23831	BLUE RIDGE PL	372.88	37.29	73.83	484.00
208	260101001	3	684277	23916	BLUE RIDGE PL	312.77	31.28	61.93	405.98
209	260101007	9	684277	23964	BLUE RIDGE PL	104.73	10.47	20.74	135.94
210	260101014	5	684277	23958	CEDAR CREEK TER	372.88	37.29	73.83	484.00
211	260101019	0	684277	23918	CEDAR CREEK TER	362.82	36.28	71.84	470.94
212	260101019	0	684277	23918	CEDAR CREEK TER	362.82	36.28	71.84	470.94
213	260101021	1	684277	23902	CEDAR CREEK TER	298.39	29.84	59.08	387.30
214	260103014	1	684277	23927	BLUE RIDGE PL	374.73	37.47	74.20	486.40
215	260103016	3	684277	23911	BLUE RIDGE PL	427.40	42.74	84.63	554.76
216	260103016	3	684277	23911	BLUE RIDGE PL	427.40	42.74	84.63	554.76
217	260103020	6	684277	23871	BLUE RIDGE PL	152.91	15.29	30.28	198.48
218	260110011	4	684277	10561	MENDOZA RD	71.43	7.14	14.14	92.70
219	260110081	1	684277	10631	MENDOZA RD	144.50	14.45	28.61	187.56
220	260110251	6	684277	10680	VILLAGE RD	241.34	24.13	47.78	313.24
221	260110291	0	684277	10640	VILLAGE RD	372.88	37.29	73.83	484.00
222	260110331	3	684277	10610	VILLAGE RD	128.04	12.80	25.35	166.18
223	260112002	8	684277	23575	TARARA DR	378.50	37.85	74.94	491.28
224	260112005	1	684277	23587	TARARA DR	372.88	37.29	73.83	484.00
225	260113017	5	684277	10562	MENDOZA RD	58.48	5.85	11.58	75.90
226	260114007	9	684277	23606	TONADA LN	307.74	30.77	60.93	399.44
227	260114011	2	684277	10541	MENDOZA RD	166.34	16.63	32.93	215.90
228	260121005	9	684277	10811	MENDOZA RD	486.54	48.65	96.33	631.52
229	260122003	0	684277	10770	VILLAGE RD	493.99	49.40	97.81	641.20
230	260124014	6	684277	23620	TARARA DR	131.08	13.11	25.95	170.14
231	260124021	2	684277	23609	AIROSA PL	372.88	37.29	73.83	484.00
232	260125004	0	684277	23641	TONADA LN	103.25	10.33	20.44	134.02

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

Column Totals	2,003,753.76	200,377.97	396,739.88	2,600,843.48
Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
233	260126003	2	684277	10970	VILLAGE RD	114.66	11.47	22.70	148.82
234	260126009	8	684277	10910	VILLAGE RD	76.43	7.64	15.13	99.20
235	260132002	0	684277	23860	PINE FIELD DR	76.67	7.67	15.18	99.52
236	260132006	4	684277	23796	PINE FIELD DR	270.12	27.01	53.48	350.60
237	260133004	5	684277	10833	CEDAR TREE DR	321.68	32.17	63.69	417.54
238	260135007	4	684277	23760	HAZELWOOD DR	529.28	52.93	104.80	687.00
239	260136004	4	684277	23837	PINE FIELD DR	63.16	6.32	12.51	81.98
240	260141006	2	684277	23871	REDBARK DR	372.88	37.29	73.83	484.00
241	260141008	4	684277	23891	REDBARK DR	393.75	39.38	77.96	511.08
242	260141014	9	684277	23951	REDBARK DR	493.99	49.40	97.81	641.20
243	260141022	6	684277	23960	PINE FIELD DR	321.68	32.17	63.69	417.54
244	260141026	0	684277	23920	PINE FIELD DR	351.46	35.15	69.59	456.20
245	260142018	6	684277	23929	HAZELWOOD DR	321.68	32.17	63.69	417.54
246	260142022	9	684277	23889	HAZELWOOD DR	372.88	37.29	73.83	484.00
247	260142023	0	684277	23879	HAZELWOOD DR	372.88	37.29	73.83	484.00
248	260144004	9	684277	23920	HAZELWOOD DR	237.84	23.78	47.09	308.70
249	260151021	6	684277	23651	BREEZY MEADOW CT	86.91	8.69	17.21	112.80
250	260151029	4	684277	23603	BREEZY MEADOW CT	343.12	34.31	67.94	445.36
251	260151041	4	684277	23741	REDBARK DR	320.70	32.07	63.50	416.26
252	260154016	1	684277	10949	POPPY FIELD CIR	372.88	37.29	73.83	484.00
253	260154017	2	684277	10959	POPPY FIELD CIR	333.64	33.36	66.06	433.06
254	260154021	5	684277	10950	GRASS VALLEY CIR	76.55	7.66	15.16	99.36
255	260154023	7	684277	10947	GRASS VALLEY CIR	451.09	45.11	89.32	585.52
256	260154024	8	684277	10957	GRASS VALLEY CIR	235.82	23.58	46.69	306.08
257	260161001	9	684277	23591	BREEZY MEADOW CT	336.98	33.70	66.72	437.40
258	260161011	8	684277	10929	BREEZY MEADOW DR	378.50	37.85	74.94	491.28
259	260161013	0	684277	10905	BREEZY MEADOW DR	61.68	6.17	12.21	80.06
260	260161018	5	684277	10845	BREEZY MEADOW DR	378.50	37.85	74.94	491.28
261	260163005	9	684277	10878	BREEZY MEADOW DR	477.72	47.77	94.59	620.08

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
262	260163010	3	684277	10938	BREEZY MEADOW DR	372.88	37.29	73.83	484.00
263	260171002	1	684277	10641	VILLAGE RD	126.20	12.62	24.99	163.80
264	260171017	5	684277	10576	RIDGEFIELD TER	71.43	7.14	14.14	92.70
265	260172001	3	684277	10601	RIDGEFIELD TER	378.50	37.85	74.94	491.28
266	260172003	5	684277	10627	RIDGEFIELD TER	244.90	24.49	48.49	317.88
267	260172004	6	684277	10635	RIDGEFIELD TER	158.99	15.90	31.48	206.36
268	260173002	7	684277	10689	VILLAGE RD	336.57	33.66	66.64	436.86
269	260173004	9	684277	10701	VILLAGE RD	370.38	37.04	73.34	480.76
270	260173012	6	684277	10759	VILLAGE RD	473.46	47.35	93.75	614.56
271	260173028	1	684277	10700	RIDGEFIELD TER	163.38	16.34	32.35	212.06
272	260174005	3	684277	10821	BREEZY MEADOW DR	183.22	18.32	36.28	237.82
273	260181003	3	684277	23330	STONY CREEK WAY	139.70	13.97	27.66	181.32
274	260181008	8	684277	23290	STONY CREEK WAY	145.12	14.51	28.73	188.36
275	260181021	9	684277	10709	BREEZY MEADOW DR	372.88	37.29	73.83	484.00
276	260182006	9	684277	10680	MOHAVE CT	372.88	37.29	73.83	484.00
277	260182007	0	684277	10670	MOHAVE CT	225.58	22.56	44.67	292.80
278	260182011	3	684277	10651	MOHAVE CT	378.50	37.85	74.94	491.28
279	260182015	7	684277	10689	MOHAVE CT	360.58	36.06	71.40	468.04
280	260182017	9	684277	10700	BREEZY MEADOW DR	73.50	7.35	14.55	95.40
281	260182022	3	684277	23279	STONY CREEK WAY	218.95	21.90	43.35	284.20
282	260191029	8	684277	10376	GLEN ROCK CIR	96.44	9.64	19.09	125.16
283	260191031	9	684277	10392	GLEN ROCK CIR	71.43	7.14	14.14	92.70
284	260191041	8	684277	22930	MOUNTAIN VIEW RD	378.40	37.84	74.92	491.16
285	260192007	1	684277	22831	SPRINGDALE DR	199.54	19.95	39.51	259.00
286	260192009	3	684277	22851	SPRINGDALE DR	368.95	36.90	73.05	478.90
287	260193002	9	684277	10447	STREAMWOOD CIR	78.06	7.81	15.46	101.32
288	260202004	8	684277	10408	BROOKMEAD DR	378.50	37.85	74.94	491.28
289	260203001	8	684277	10375	BROOKMEAD DR	378.50	37.85	74.94	491.28
290	260204013	2	684277	22580	COUNTRY GATE RD	161.60	16.16	32.00	209.76

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
291	260204015	4	684277	22560	COUNTRY GATE RD	272.88	27.29	54.03	354.20
292	260204017	6	684277	22540	COUNTRY GATE RD	528.50	52.85	104.64	685.98
293	260205011	3	684277	22591	COUNTRY GATE RD	372.88	37.29	73.83	484.00
294	260205016	8	684277	10479	BROOKMEAD DR	372.88	37.29	73.83	484.00
295	260211010	1	684277	10599	WILLOW CREEK RD	378.50	37.85	74.94	491.28
296	260211012	3	684277	23845	LONE PINE DR	194.86	19.49	38.58	252.92
297	260211024	4	684277	23854	BOUQUET CANYON PL	372.88	37.29	73.83	484.00
298	260211025	5	684277	23862	BOUQUET CANYON PL	298.50	29.85	59.10	387.44
299	260211026	6	684277	23870	BOUQUET CANYON PL	378.50	37.85	74.94	491.28
300	260211034	3	684277	23847	BOUQUET CANYON PL	385.23	38.52	76.28	500.02
301	260211043	1	684277	23785	BOUQUET CANYON PL	540.97	54.10	107.11	702.18
302	260211045	3	684277	23771	BOUQUET CANYON PL	341.20	34.12	67.56	442.88
303	260212013	7	684277	23681	BOUQUET CANYON PL	378.50	37.85	74.94	491.28
304	260212016	0	684277	23710	BOUQUET CANYON PL	378.50	37.85	74.94	491.28
305	260212024	7	684277	23774	BOUQUET CANYON PL	150.78	15.08	29.85	195.70
306	260212031	3	684277	23760	TIMBER BLUFF CT	378.50	37.85	74.94	491.28
307	260212041	2	684277	23848	LONE PINE DR	372.88	37.29	73.83	484.00
308	260221006	9	684277	23928	LONE PINE DR	370.73	37.07	73.40	481.20
309	260221011	3	684277	23978	LONE PINE DR	62.00	6.20	12.28	80.48
310	260221014	6	684277	24010	LONE PINE DR	621.04	62.10	122.97	806.10
311	260221017	9	684277	23991	LONE PINE DR	235.82	23.58	46.69	306.08
312	260221030	0	684277	10640	PEPPER RIDGE LN	117.72	11.77	23.31	152.80
313	260221052	0	684277	10660	SILVER LEAF CIR	35.00	3.50	6.93	45.42
314	260221055	3	684277	23959	PINE SMOKE PL	278.50	27.85	55.14	361.48
315	260222001	7	684277	10666	WILLOW CREEK RD	372.88	37.29	73.83	484.00
316	260222003	9	684277	10646	WILLOW CREEK RD	444.73	44.47	88.06	577.26
317	260222008	4	684277	10600	WILLOW CREEK RD	143.16	14.32	28.35	185.82
318	260222013	8	684277	23915	LONE PINE DR	371.41	37.14	73.54	482.08
319	260231003	7	684277	23385	EVENING SNOW	139.88	13.99	27.70	181.56

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
320	260231011	4	684277	10055	ARROW LEAF	580.51	58.05	114.94	753.50
321	260231014	7	684277	10025	ARROW LEAF	378.50	37.85	74.94	491.28
322	260231016	9	684277	10005	ARROW LEAF	372.88	37.29	73.83	484.00
323	260231022	4	684277	23375	PRESCOTT	509.73	50.97	100.93	661.62
324	260231024	6	684277	10070	ARROW LEAF	358.62	35.86	71.01	465.48
325	260231035	6	684277	10028	SAND CREST	372.88	37.29	73.83	484.00
326	260241001	6	684277	10087	THUNDERHEAD	372.88	37.29	73.83	484.00
327	260241015	9	684277	10075	ROCK HILL	372.88	37.29	73.83	484.00
328	260241045	6	684277	23545	EVENING SNOW	378.50	37.85	74.94	491.28
329	260242005	3	684277	23485	EVENING SNOW	187.19	18.72	37.06	242.96
330	260242012	9	684277	23505	EVENING SNOW	360.04	36.00	71.29	467.32
331	260242013	0	684277	23495	EVENING SNOW	50.46	5.05	9.99	65.50
332	260251012	7	684277	10367	RIVER RUN CIR	378.50	37.85	74.94	491.28
333	260252004	3	684277	10344	BROOKMEAD DR	493.99	49.40	97.81	641.20
334	260252008	7	684277	10312	BROOKMEAD DR	372.88	37.29	73.83	484.00
335	260253008	0	684277	10389	MEADOW CREEK DR	378.50	37.85	74.94	491.28
336	260253010	1	684277	10405	MEADOW CREEK DR	465.27	46.53	92.12	603.92
337	260253013	4	684277	10429	MEADOW CREEK DR	372.88	37.29	73.83	484.00
338	260262009	9	684277	22795	MESA SPRINGS WAY	243.59	24.36	48.23	316.18
339	260262011	0	684277	22779	MESA SPRINGS WAY	147.88	14.79	29.28	191.94
340	260273004	8	684277	22701	SHADOWRIDGE LN	71.43	7.14	14.14	92.70
341	260273010	3	684277	22641	SHADOWRIDGE LN	372.88	37.29	73.83	484.00
342	260281005	4	684277	22780	SHADOWRIDGE LN	242.03	24.20	47.92	314.14
343	260282014	5	684277	22843	MESA SPRINGS WAY	372.88	37.29	73.83	484.00
344	260282016	7	684277	22827	MESA SPRINGS WAY	128.02	12.80	25.35	166.16
345	260283004	9	684277	22840	MESA SPRINGS WAY	21.77	2.18	4.31	28.26
346	260283018	2	684277	22791	SHADOWRIDGE LN	529.28	52.93	104.80	687.00
347	260291011	0	684277	10150	CARIBOU CIR	71.43	7.14	14.14	92.70
348	260292007	0	684277	23902	SOLITARE CIR	372.88	37.29	73.83	484.00

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
349	260292009	2	684277	23914	SOLITARE CIR	305.54	30.55	60.50	396.58
350	260292020	1	684277	10192	LAKE SUMMIT DR	378.50	37.85	74.94	491.28
351	260301003	3	684277	23875	LAKE VISTA RD	372.88	37.29	73.83	484.00
352	260301005	5	684277	23855	LAKE VISTA RD	78.04	7.80	15.45	101.28
353	260302002	5	684277	10107	THRASHER CIR	378.50	37.85	74.94	491.28
354	260302006	9	684277	10067	THRASHER CIR	317.44	31.74	62.85	412.02
355	260302019	1	684277	10067	MALLOW DR	321.68	32.17	63.69	417.54
356	260302024	5	684277	23827	YELLOWBILL TER	265.49	26.55	52.57	344.60
357	260303009	5	684277	10022	MALLOW DR	372.88	37.29	73.83	484.00
358	260303013	8	684277	10062	MALLOW DR	378.50	37.85	74.94	491.28
359	260303014	9	684277	10072	MALLOW DR	68.43	6.84	13.55	88.82
360	260311007	8	684277	10073	SNIPE CIR	238.16	23.82	47.16	309.14
361	260311014	4	684277	10038	DEEP CANYON RD	353.50	35.35	69.99	458.84
362	260312002	6	684277	10101	THORNBIRD CT	71.43	7.14	14.14	92.70
363	260312004	8	684277	10089	THORNBIRD CT	238.16	23.82	47.16	309.14
364	260312022	4	684277	10049	DEEP CANYON RD	486.54	48.65	96.33	631.52
365	260312023	5	684277	10035	DEEP CANYON RD	333.99	33.40	66.13	433.52
366	260312032	3	684277	23772	YELLOWBILL TER	378.50	37.85	74.94	491.28
367	260321008	0	684277	22732	SPRINGDALE DR	70.61	7.06	13.98	91.64
368	260321009	1	684277	22731	COUNTRY GATE RD	81.43	8.14	16.12	105.68
369	260321021	1	684277	10387	CROSSING GREEN CIR	187.88	18.79	37.20	243.86
370	260321024	4	684277	10405	CROSSING GREEN CIR	369.48	36.95	73.16	479.58
371	260321027	7	684277	10386	CROSSING GREEN CIR	378.50	37.85	74.94	491.28
372	260321030	9	684277	10368	CROSSING GREEN CIR	76.67	7.67	15.18	99.52
373	260322009	4	684277	10304	CROSSING GREEN CIR	71.43	7.14	14.14	92.70
374	260331031	1	684277	23650	COLDWATER CT	242.03	24.20	47.92	314.14
375	260332003	9	684277	23716	BLACKBIRD CIR	485.05	48.51	96.04	629.60
376	260332004	0	684277	23706	BLACKBIRD CIR	168.99	16.90	33.46	219.34
377	260332012	7	684277	23740	HELIOTROPE WAY	71.43	7.14	14.14	92.70

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Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
378	260340003	4	684277	23755	COLDWATER CT	611.59	61.16	121.10	793.84
379	260340013	3	684277	23736	COLDWATER CT	372.88	37.29	73.83	484.00
380	260340016	6	684277	23749	HELIOTROPE WAY	493.99	49.40	97.81	641.20
381	260340031	9	684277	23830	BLUE BILL CT	378.50	37.85	74.94	491.28
382	260351002	7	684277	22800	MOUNTAIN VIEW RD	340.64	34.06	67.45	442.14
383	260351005	0	684277	22770	MOUNTAIN VIEW RD	247.94	24.79	49.09	321.82
384	260351009	4	684277	22730	MOUNTAIN VIEW RD	306.05	30.61	60.60	397.26
385	260351014	8	684277	22680	MOUNTAIN VIEW RD	177.04	17.70	35.05	229.78
386	260352006	4	684277	10351	TRIBUTARY DR	78.99	7.90	15.64	102.52
387	260353001	2	684277	22760	COUNTRY GATE RD	378.50	37.85	74.94	491.28
388	260362001	0	684277	22702	SPRINGDALE DR	215.14	21.51	42.60	279.24
389	260362009	8	684277	22622	SPRINGDALE DR	378.50	37.85	74.94	491.28
390	260362011	9	684277	10342	COUNTRY GROVE DR	350.36	35.04	69.37	454.76
391	260372014	3	684277	10259	SYCAMORE CANYON RD	278.29	27.83	55.10	361.22
392	260372019	8	684277	10189	SYCAMORE CANYON RD	146.73	14.67	29.05	190.44
393	260372023	1	684277	10133	SYCAMORE CANYON RD	346.38	34.64	68.58	449.60
394	260372032	9	684277	10025	SYCAMORE CANYON RD	167.09	16.71	33.08	216.88
395	260372034	1	684277	10040	WHITEWATER RD	346.69	34.67	68.64	450.00
396	260381005	3	684277	10060	CARTAGENA DR	88.16	8.82	17.46	114.44
397	260381012	9	684277	10130	CARTAGENA DR	378.50	37.85	74.94	491.28
398	260382002	3	684277	10125	CARTAGENA DR	378.50	37.85	74.94	491.28
399	260382012	2	684277	10021	CARTAGENA DR	76.43	7.64	15.13	99.20
400	260383001	5	684277	10145	DELCRESTA DR	76.43	7.64	15.13	99.20
401	260391003	2	684277	22434	MOUNTAIN VIEW RD	378.50	37.85	74.94	491.28
402	260392005	7	684277	22419	MOUNTAIN VIEW RD	142.03	14.20	28.12	184.34
403	260401004	3	684277	22526	MOUNTAIN VIEW RD	77.98	7.80	15.44	101.22
404	260401007	6	684277	22508	MOUNTAIN VIEW RD	378.50	37.85	74.94	491.28
405	260401013	1	684277	22464	MOUNTAIN VIEW RD	372.88	37.29	73.83	484.00
406	260402007	9	684277	22483	MOUNTAIN VIEW RD	372.88	37.29	73.83	484.00

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Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
407	260411006	6	684277	10149	ESCORIAL CT	372.88	37.29	73.83	484.00
408	260412002	5	684277	10010	MIRACANTO WAY	378.50	37.85	74.94	491.28
409	260413005	1	684277	10065	MIRACANTO WAY	372.88	37.29	73.83	484.00
410	260413010	5	684277	22565	BELCANTO DR	378.50	37.85	74.94	491.28
411	260422015	8	684277	22440	BELCANTO DR	372.88	37.29	73.83	484.00
412	260431007	9	684277	10159	ALTABRISA WAY	493.99	49.40	97.81	641.20
413	260431010	1	684277	10189	ALTABRISA WAY	477.72	47.77	94.59	620.08
414	260440015	4	684277	10200	VIA PESCADERO	486.54	48.65	96.33	631.52
415	260450006	7	684277	10030	VIA PESCADERO	378.50	37.85	74.94	491.28
416	260450009	0	684277	10025	VIA PESCADERO	372.88	37.29	73.83	484.00
417	260450015	5	684277	10190	VIA INDIGO	85.64	8.56	16.96	111.16
418	260470015	7	684277	23446	MARINER WAY	378.50	37.85	74.94	491.28
419	260471005	1	684277	10156	BEACHCOMBER ST	378.50	37.85	74.94	491.28
420	260471015	0	684277	10256	BEACHCOMBER ST	378.50	37.85	74.94	491.28
421	260471022	6	684277	10269	CORAL LN	609.73	60.97	120.73	791.42
422	260472005	4	684277	10222	CORAL LN	350.59	35.06	69.42	455.06
423	260472006	5	684277	10210	CORAL LN	385.23	38.52	76.28	500.02
424	260472022	9	684277	23467	NAUTICAL CIR	357.79	35.78	70.84	464.40
425	260480024	6	684277	10448	PEREGRINE PL	71.43	7.14	14.14	92.70
426	260480039	0	684277	10485	SPARROW CT	71.43	7.14	14.14	92.70
427	260510027	1	684277	23045	SIENNA LN	357.79	35.78	70.84	464.40
428	263112008	5	684277	21737	EUCALYPTUS AVE	372.88	37.29	73.83	484.00
429	263112009	6	684277	21673	EUCALYPTUS AVE	306.85	30.69	60.76	398.30
430	263120016	7	684277	21951	EUCALYPTUS AVE	893.32	89.33	176.88	1159.52
431	263131007	3	684277	13201	GINA AVE	396.28	39.63	78.46	514.36
432	263132006	5	684277	13188	GINA AVE	385.23	38.52	76.28	500.02
433	263132019	7	684277	21662	DRACAEA AVE	372.88	37.29	73.83	484.00
434	263132026	3	684277	13199	EDGEMONT ST	372.88	37.29	73.83	484.00
435	263132032	8	684277	13129	EDGEMONT ST	372.88	37.29	73.83	484.00

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

Column Totals	2,003,753.76	200,377.97	396,739.88	2,600,843.48
Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
436	263132034	0	684277	21566	DRACAEA AVE	388.11	38.81	76.85	503.76
437	263140001	5	684277	13128	EDGEMONT ST	378.50	37.85	74.94	491.28
438	263140003	7	684277	13152	EDGEMONT ST	378.50	37.85	74.94	491.28
439	263140004	8	684277	13160	EDGEMONT ST	378.50	37.85	74.94	491.28
440	263140012	5	684277	21762	DRACAEA AVE	446.07	44.61	88.32	579.00
441	263140012	5	684277	21760	DRACAEA AVE	446.07	44.61	88.32	579.00
442	263140014	7	684277	21814	DRACAEA AVE	1366.19	136.62	270.51	1773.32
443	263140014	7	684277	21798	DRACAEA AVE	1366.19	136.62	270.51	1773.32
444	263160005	1	684277	21739	DRACAEA AVE	351.46	35.15	69.59	456.20
445	263160010	5	684277	21627	DRACAEA AVE	441.76	44.18	87.47	573.40
446	263160033	6	684277	13397	EDGEMONT ST	372.88	37.29	73.83	484.00
447	263160040	2	684277	13363	EDGEMONT ST	155.12	15.51	30.71	201.34
448	263170007	4	684277	21820	COTTONWOOD AVE	348.35	34.84	68.97	452.16
449	263170012	8	684277	13440	EDGEMONT ST	164.52	16.45	32.57	213.54
450	263180035	0	684277	13377	HILDEGARDE ST	164.74	16.47	32.62	213.82
451	263180036	1	684277	13389	HILDEGARDE ST	385.23	38.52	76.28	500.02
452	263180040	4	684277	13431	HILDEGARDE ST	378.50	37.85	74.94	491.28
453	263180041	5	684277	13445	HILDEGARDE ST	361.80	36.18	71.64	469.62
454	263180044	8	684277	13477	HILDEGARDE ST	230.44	23.04	45.63	299.10
455	263180045	9	684277	13491	HILDEGARDE ST	378.50	37.85	74.94	491.28
456	263180050	3	684277	13444	BARBARA ST	311.20	31.12	61.62	403.94
457	263180056	9	684277	13376	BARBARA ST	114.24	11.42	22.62	148.28
458	263180064	6	684277	13401	BARBARA ST	375.73	37.57	74.39	487.68
459	263180067	9	684277	13431	BARBARA ST	50.00	5.00	9.90	64.90
460	263180077	8	684277	13361	DAY ST	372.88	37.29	73.83	484.00
461	263190033	9	684277	13760	OLD 215 FRONTAGE RD	374.55	37.46	74.16	486.16
462	263210006	6	684277	21824	BRILL RD	600.44	60.04	118.89	779.36
463	263210007	7	684277	21834	BRILL RD	973.95	97.40	192.84	1264.18
464	263210023	1	684277	21784	BAY AVE	378.50	37.85	74.94	491.28

**MORENO VALLEY Tax Roll Listing 2019
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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
465	263210033	0	684277	21924	BRILL RD	158.99	15.90	31.48	206.36
466	263210040	6	684277	21918	BAY AVE	53.21	5.32	10.54	69.06
467	263210042	8	684277	21965	BRILL RD	238.16	23.82	47.16	309.14
468	263220019	9	684277	21827	BAY AVE	517.06	51.71	102.38	671.14
469	263230003	5	684277	21909	BAY AVE	775.07	77.51	153.46	1006.04
470	263230010	1	684277	13927	DAY ST	76.43	7.64	15.13	99.20
471	263230015	6	684277	21924	ALESSANDRO BLVD	363.34	36.33	71.94	471.60
472	263230018	9	684277	21894	ALESSANDRO BLVD	378.50	37.85	74.94	491.28
473	263230024	4	684277	21944	ALESSANDRO BLVD	372.88	37.29	73.83	484.00
474	264052002	1	684277	11028	LONE STAR RD	385.23	38.52	76.28	500.02
475	264053009	1	684277	11140	SADDLE RIDGE RD	477.72	47.77	94.59	620.08
476	264071001	9	684277	23630	PARKLAND AVE	163.84	16.38	32.44	212.66
477	264071005	3	684277	23606	PARKLAND AVE	372.88	37.29	73.83	484.00
478	264071026	2	684277	23583	ASHWOOD AVE	493.99	49.40	97.81	641.20
479	264071027	3	684277	23589	ASHWOOD AVE	357.79	35.78	70.84	464.40
480	264071034	9	684277	23530	PARKLAND AVE	372.88	37.29	73.83	484.00
481	264071038	3	684277	23490	PARKLAND AVE	370.09	37.01	73.28	480.38
482	264071040	4	684277	23470	PARKLAND AVE	71.43	7.14	14.14	92.70
483	264071046	0	684277	11055	BETH CT	362.24	36.22	71.72	470.18
484	264071052	5	684277	11030	BETH CT	378.50	37.85	74.94	491.28
485	264072008	9	684277	23581	PARKLAND AVE	372.88	37.29	73.83	484.00
486	264072041	8	684277	11073	DEBRA WAY	296.07	29.61	58.62	384.30
487	264081001	0	684277	23636	PARKLAND AVE	353.80	35.38	70.05	459.22
488	264081003	2	684277	23648	PARKLAND AVE	342.14	34.21	67.74	444.08
489	264081005	4	684277	23660	PARKLAND AVE	305.54	30.55	60.50	396.58
490	264081008	7	684277	23678	PARKLAND AVE	372.88	37.29	73.83	484.00
491	264082004	6	684277	23653	PARKLAND AVE	77.78	7.78	15.40	100.96
492	264082007	9	684277	23671	PARKLAND AVE	394.88	39.49	78.19	512.56
493	264082008	0	684277	23677	PARKLAND AVE	378.50	37.85	74.94	491.28

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
494	264082010	1	684277	23695	PARKLAND AVE	372.88	37.29	73.83	484.00
495	264082012	3	684277	23707	PARKLAND AVE	385.78	38.58	76.38	500.74
496	264082013	4	684277	23713	PARKLAND AVE	251.44	25.14	49.78	326.36
497	264082019	0	684277	23654	MISTY GLADE CT	372.88	37.29	73.83	484.00
498	264082020	0	684277	23650	MISTY GLADE CT	372.88	37.29	73.83	484.00
499	264082024	4	684277	23638	MISTY GLADE CT	112.23	11.22	22.22	145.66
500	264082026	6	684277	23645	MISTY GLADE CT	315.19	31.52	62.41	409.12
501	264082033	2	684277	23644	BIRDSONG CT	372.88	37.29	73.83	484.00
502	264082035	4	684277	23637	BIRDSONG CT	378.50	37.85	74.94	491.28
503	264082040	8	684277	23662	ASHWOOD AVE	372.88	37.29	73.83	484.00
504	264082042	0	684277	23650	ASHWOOD AVE	378.50	37.85	74.94	491.28
505	264082046	4	684277	11126	DEBRA WAY	528.50	52.85	104.64	685.98
506	264082047	5	684277	11118	DEBRA WAY	358.10	35.81	70.90	464.80
507	264082052	9	684277	11086	DEBRA WAY	385.23	38.52	76.28	500.02
508	264083009	4	684277	23667	ASHWOOD AVE	321.44	32.14	63.64	417.22
509	264083010	4	684277	23673	ASHWOOD AVE	292.83	29.28	57.98	380.08
510	264083019	3	684277	23713	COLD SPG	89.15	8.92	17.65	115.72
511	264083019	3	684277	23713	COLD SPRING	89.15	8.92	17.65	115.72
512	264083024	7	684277	23733	COLD SPG	372.88	37.29	73.83	484.00
513	264091004	4	684277	11019	LE GRAND LN	493.99	49.40	97.81	641.20
514	264091010	9	684277	11048	LE GRAND LN	172.06	17.21	34.07	223.34
515	264091012	1	684277	11024	LE GRAND LN	78.29	7.83	15.50	101.62
516	264091019	8	684277	23822	COLD SPG	529.46	52.95	104.83	687.24
517	264091022	0	684277	23840	COLD SPG	124.44	12.44	24.64	161.52
518	264091027	5	684277	23870	COLD SPG	71.43	7.14	14.14	92.70
519	264091040	6	684277	11058	MINERS TRL	35.12	3.51	6.95	45.58
520	264091043	9	684277	11076	MINERS TRL	385.23	38.52	76.28	500.02
521	264092003	6	684277	23814	PARKLAND AVE	238.16	23.82	47.16	309.14
522	264092004	7	684277	23808	PARKLAND AVE	85.23	8.52	16.88	110.62

**MORENO VALLEY Tax Roll Listing 2019
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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
523	264092006	9	684277	23796	PARKLAND AVE	155.34	15.53	30.76	201.62
524	264092010	2	684277	23772	PARKLAND AVE	378.50	37.85	74.94	491.28
525	264092017	9	684277	23799	COLD SPG	372.88	37.29	73.83	484.00
526	264092019	1	684277	11043	SULTAN ST	372.88	37.29	73.83	484.00
527	264092021	2	684277	11055	SULTAN ST	378.50	37.85	74.94	491.28
528	264092023	4	684277	11067	SULTAN ST	71.43	7.14	14.14	92.70
529	264092025	6	684277	23794	WINTERGLEN CIR	372.88	37.29	73.83	484.00
530	264092026	7	684277	23788	WINTERGLEN CIR	372.88	37.29	73.83	484.00
531	264092027	8	684277	23787	WINTERGLEN CIR	372.88	37.29	73.83	484.00
532	264092028	9	684277	11081	SULTAN ST	412.17	41.22	81.61	535.00
533	264092029	0	684277	11091	SULTAN ST	378.50	37.85	74.94	491.28
534	264092030	0	684277	11103	SULTAN ST	366.80	36.68	72.63	476.10
535	264093005	1	684277	11062	SULTAN ST	81.91	8.19	16.22	106.32
536	264093018	3	684277	11069	SILVER RUN	71.43	7.14	14.14	92.70
537	264093019	4	684277	11075	SILVER RUN	178.57	17.86	35.36	231.78
538	264094006	5	684277	11070	SILVER RUN	276.17	27.62	54.68	358.46
539	264110004	2	684277	22770	ECHO LAKE RD	329.15	32.92	65.17	427.24
540	264110019	6	684277	11480	TIFFANY LN	252.88	25.29	50.07	328.24
541	264121009	1	684277	11520	KIWI CT	378.50	37.85	74.94	491.28
542	264121014	5	684277	11570	KIWI CT	372.88	37.29	73.83	484.00
543	264121019	0	684277	11599	PARAKEET CT	378.50	37.85	74.94	491.28
544	264121033	2	684277	11598	PARAKEET CT	306.20	30.62	60.63	397.44
545	264121037	6	684277	11587	BOBOLINK LN	528.50	52.85	104.64	685.98
546	264121041	9	684277	11527	BOBOLINK LN	528.50	52.85	104.64	685.98
547	264121042	0	684277	11515	BOBOLINK LN	351.04	35.10	69.51	455.64
548	264121047	5	684277	11451	BOBOLINK LN	634.12	63.41	125.56	823.08
549	264121048	6	684277	23250	WOODPECKER PATH	372.88	37.29	73.83	484.00
550	264121051	8	684277	23284	WOODPECKER PATH	485.05	48.51	96.04	629.60
551	264131004	7	684277	11830	BRIAR KNOLL PL	155.12	15.51	30.71	201.34

**MORENO VALLEY Tax Roll Listing 2019
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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
552	264131033	3	684277	11845	WILD FLAX LN	372.88	37.29	73.83	484.00
553	264131059	7	684277	23536	WOODLANDER WAY	328.64	32.86	65.07	426.56
554	264132019	4	684277	23545	BLOOMING MEADOW RD	372.88	37.29	73.83	484.00
555	264132025	9	684277	23593	BLOOMING MEADOW RD	238.16	23.82	47.16	309.14
556	264132027	1	684277	23609	BLOOMING MEADOW RD	220.83	22.08	43.72	286.62
557	264133006	5	684277	11828	BAYLESS ST	378.50	37.85	74.94	491.28
558	264133007	6	684277	11820	BAYLESS ST	378.50	37.85	74.94	491.28
559	264133009	8	684277	23680	BLOOMING MEADOW RD	305.54	30.55	60.50	396.58
560	264133015	3	684277	23632	BLOOMING MEADOW RD	385.23	38.52	76.28	500.02
561	264133021	8	684277	23584	BLOOMING MEADOW RD	189.23	18.92	37.47	245.62
562	264133027	4	684277	11849	BRIAR KNOLL PL	186.43	18.64	36.91	241.98
563	264133028	5	684277	11841	BRIAR KNOLL PL	339.70	33.97	67.26	440.92
564	264133035	1	684277	11785	BRIAR KNOLL PL	378.50	37.85	74.94	491.28
565	264133036	2	684277	11777	BRIAR KNOLL PL	282.00	28.20	55.84	366.04
566	264133037	3	684277	11769	BRIAR KNOLL PL	378.50	37.85	74.94	491.28
567	264133038	4	684277	11761	BRIAR KNOLL PL	409.58	40.96	81.10	531.64
568	264141014	7	684277	11900	BAYLESS ST	101.46	10.15	20.09	131.70
569	264141017	0	684277	11876	BAYLESS ST	579.10	57.91	114.66	751.66
570	264142001	8	684277	11962	MEADOW WOOD WAY	370.39	37.04	73.34	480.76
571	264142003	0	684277	11946	MEADOW WOOD WAY	118.68	11.87	23.50	154.04
572	264142008	5	684277	11912	MEADOW WOOD WAY	586.42	58.64	116.11	761.16
573	264142016	2	684277	11883	BAYLESS ST	366.32	36.63	72.53	475.48
574	264142020	5	684277	11913	BAYLESS ST	372.88	37.29	73.83	484.00
575	264142025	0	684277	11947	BAYLESS ST	372.88	37.29	73.83	484.00
576	264143001	1	684277	23573	CANDLE SHOE CT	364.81	36.48	72.23	473.52
577	264143016	5	684277	23589	CINNAMON CREEK CT	192.88	19.29	38.19	250.36
578	264143027	5	684277	23606	WHISPERING WINDS WAY	372.88	37.29	73.83	484.00
579	264143035	2	684277	11914	WILD FLAX LN	316.49	31.65	62.67	410.80
580	264144002	5	684277	11986	GRAHAM ST	376.96	37.70	74.64	489.30

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Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
581	264144004	7	684277	11962	GRAHAM ST	95.19	9.52	18.85	123.56
582	264144007	0	684277	11946	GRAHAM ST	421.95	42.20	83.55	547.70
583	264144022	3	684277	11921	WILD FLAX LN	372.88	37.29	73.83	484.00
584	264144023	4	684277	11927	WILD FLAX LN	60.41	6.04	11.96	78.40
585	264144028	9	684277	23555	WHISPERING WINDS WAY	282.65	28.27	55.97	366.88
586	264144031	1	684277	23575	WHISPERING WINDS WAY	372.88	37.29	73.83	484.00
587	264144033	3	684277	23591	WHISPERING WINDS WAY	378.50	37.85	74.94	491.28
588	264144036	6	684277	23615	WHISPERING WINDS WAY	348.84	34.88	69.07	452.78
589	264151001	6	684277	11946	ASLAN CT	247.83	24.78	49.07	321.68
590	264151004	9	684277	11922	ASLAN CT	372.88	37.29	73.83	484.00
591	264152004	2	684277	11883	ASLAN CT	378.50	37.85	74.94	491.28
592	264152011	8	684277	11939	ASLAN CT	302.88	30.29	59.97	393.14
593	264152015	2	684277	11938	HONEY HOLLOW	378.50	37.85	74.94	491.28
594	264152022	8	684277	11888	HONEY HOLLOW	155.12	15.51	30.71	201.34
595	264152023	9	684277	11880	HONEY HOLLOW	261.38	26.14	51.75	339.26
596	264152023	9	684277	11880	HONEY HOLLOW	261.38	26.14	51.75	339.26
597	264153002	3	684277	11988	DREAM ST	71.43	7.14	14.14	92.70
598	264153009	0	684277	11932	DREAM ST	358.06	35.81	70.90	464.76
599	264153011	1	684277	11916	DREAM ST	365.09	36.51	72.29	473.88
600	264153016	6	684277	11876	DREAM ST	378.50	37.85	74.94	491.28
601	264153030	8	684277	11956	SUGAR CREEK CT	372.88	37.29	73.83	484.00
602	264153038	6	684277	11897	SUGAR CREEK CT	372.88	37.29	73.83	484.00
603	264153044	1	684277	11943	SUGAR CREEK CT	390.98	39.10	77.41	507.48
604	264153046	3	684277	11959	SUGAR CREEK CT	372.88	37.29	73.83	484.00
605	264153047	4	684277	11967	SUGAR CREEK CT	378.50	37.85	74.94	491.28
606	264153053	9	684277	23335	SEAFARER WAY	142.16	14.22	28.15	184.52
607	264153055	1	684277	23351	SEAFARER WAY	378.50	37.85	74.94	491.28
608	264153066	1	684277	23449	SEAFARER WAY	372.88	37.29	73.83	484.00
609	264154003	7	684277	11897	DREAM ST	378.50	37.85	74.94	491.28

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

Column Totals	2,003,753.76	200,377.97	396,739.88	2,600,843.48
Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
610	264154007	1	684277	11929	DREAM ST	372.88	37.29	73.83	484.00
611	264161002	8	684277	23500	WOODLANDER WAY	174.99	17.50	34.65	227.14
612	264161006	2	684277	23466	WOODLANDER WAY	261.41	26.14	51.76	339.30
613	264162001	0	684277	23334	ELFIN PL	150.13	15.01	29.73	194.86
614	264162006	5	684277	23294	ELFIN PL	250.90	25.09	49.68	325.66
615	264162011	9	684277	23254	ELFIN PL	372.88	37.29	73.83	484.00
616	264162024	1	684277	23340	BREEZY WAY	55.00	5.50	10.89	71.38
617	264162025	2	684277	23324	BREEZY WAY	76.43	7.64	15.13	99.20
618	264162026	3	684277	23310	BREEZY WAY	342.30	34.23	67.78	444.30
619	264162031	7	684277	23268	BREEZY WAY	351.18	35.12	69.53	455.82
620	264163009	1	684277	23353	BREEZY WAY	171.68	17.17	33.99	222.84
621	264164002	7	684277	11856	HONEY HOLLOW	151.29	15.13	29.96	196.38
622	264164009	4	684277	11800	HONEY HOLLOW	378.50	37.85	74.94	491.28
623	264164028	1	684277	23473	WOODLANDER WAY	372.88	37.29	73.83	484.00
624	264164030	2	684277	23496	SHADY GLEN CT	378.50	37.85	74.94	491.28
625	264164037	9	684277	23442	SHADY GLEN CT	161.80	16.18	32.04	210.02
626	264164058	8	684277	11861	GRAHAM ST	378.50	37.85	74.94	491.28
627	264164060	9	684277	11850	ASLAN CT	486.54	48.65	96.33	631.52
628	264164063	2	684277	11826	ASLAN CT	378.50	37.85	74.94	491.28
629	264164066	5	684277	11843	ASLAN CT	21.59	2.16	4.28	28.02
630	264171002	9	684277	23074	SONNET DR	47.69	4.77	9.44	61.90
631	264171003	0	684277	23086	SONNET DR	282.06	28.21	55.85	366.12
632	264172016	5	684277	23110	HARLAND DR	200.00	20.00	39.60	259.60
633	264172021	9	684277	23166	HARLAND DR	336.98	33.70	66.72	437.40
634	264174001	7	684277	23069	HARLAND DR	54.35	5.44	10.76	70.54
635	264174008	4	684277	23153	HARLAND DR	76.43	7.64	15.13	99.20
636	264174011	6	684277	23189	HARLAND DR	385.23	38.52	76.28	500.02
637	264182001	2	684277	23019	WESTERN RIDGE RD	528.50	52.85	104.64	685.98
638	264182005	6	684277	23107	WESTERN RIDGE RD	30.12	3.01	5.96	39.08

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

Column Totals	2,003,753.76	200,377.97	396,739.88	2,600,843.48
Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
639	264182013	3	684277	23291	WESTERN RIDGE RD	469.85	46.99	93.03	609.86
640	264191001	0	684277	23386	SWAN ST	122.08	12.21	24.17	158.46
641	264191003	2	684277	23410	SWAN ST	372.88	37.29	73.83	484.00
642	264192005	7	684277	23441	SWAN ST	378.50	37.85	74.94	491.28
643	264192012	3	684277	11692	HUMMINGBIRD PL	198.72	19.87	39.35	257.94
644	264193003	8	684277	11637	HUMMINGBIRD PL	372.88	37.29	73.83	484.00
645	264193006	1	684277	11678	HONEY HOLLOW	600.44	60.04	118.89	779.36
646	264193024	7	684277	23455	RHEA DR	378.50	37.85	74.94	491.28
647	264194012	9	684277	11689	CRANE CT	260.55	26.06	51.59	338.20
648	264194021	7	684277	11710	CRANE CT	372.88	37.29	73.83	484.00
649	264203003	8	684277	23346	TOUCAN PL	238.16	23.82	47.16	309.14
650	264203005	0	684277	23374	TOUCAN PL	493.99	49.40	97.81	641.20
651	264203008	3	684277	23416	TOUCAN PL	372.88	37.29	73.83	484.00
652	264204006	4	684277	11587	BARBET CT	33.57	3.36	6.65	43.58
653	264211005	5	684277	23391	WESTERN RIDGE RD	390.14	39.01	77.25	506.40
654	264212001	4	684277	23431	WESTERN RIDGE RD	503.03	50.30	99.60	652.92
655	264213004	0	684277	11270	CHIEF LN	165.07	16.51	32.68	214.26
656	264214001	0	684277	11221	PIONEER RIDGE RD	242.03	24.20	47.92	314.14
657	264214003	2	684277	11261	PIONEER RIDGE RD	378.50	37.85	74.94	491.28
658	264221001	2	684277	23761	PARKLAND AVE	167.15	16.72	33.10	216.96
659	264221008	9	684277	23803	PARKLAND AVE	60.12	6.01	11.90	78.02
660	264221010	0	684277	23815	PARKLAND AVE	372.88	37.29	73.83	484.00
661	264221025	4	684277	23716	MARK TWAIN	256.44	25.64	50.77	332.84
662	264221027	6	684277	23704	MARK TWAIN	99.86	9.99	19.77	129.62
663	264221029	8	684277	23692	MARK TWAIN	372.88	37.29	73.83	484.00
664	264221035	3	684277	23669	MARK TWAIN	378.50	37.85	74.94	491.28
665	264221061	6	684277	23817	MARK TWAIN	117.72	11.77	23.31	152.80
666	264221064	9	684277	23835	MARK TWAIN	38.16	3.82	7.56	49.54
667	264221066	1	684277	23847	MARK TWAIN	372.88	37.29	73.83	484.00

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

Column Totals	2,003,753.76	200,377.97	396,739.88	2,600,843.48
Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
668	2642220114		684277	11375	WEINHART CT	378.50	37.85	74.94	491.28
669	2642220158		684277	11364	WEINHART CT	170.36	17.04	33.73	221.12
670	2642220169		684277	11370	WEINHART CT	55.12	5.51	10.91	71.54
671	2642220170		684277	11376	WEINHART CT	378.50	37.85	74.94	491.28
672	2642220181		684277	11382	WEINHART CT	384.48	38.45	76.13	499.06
673	2642220192		684277	11388	WEINHART CT	372.88	37.29	73.83	484.00
674	2642220235		684277	23850	MARK TWAIN	378.50	37.85	74.94	491.28
675	2642220257		684277	23862	MARK TWAIN	340.64	34.06	67.45	442.14
676	2642220268		684277	23868	MARK TWAIN	376.18	37.62	74.48	488.28
677	2642220323		684277	23895	PARKLAND AVE	277.76	27.78	55.00	360.54
678	2642220389		684277	23859	PARKLAND AVE	385.23	38.52	76.28	500.02
679	2642220411		684277	23841	PARKLAND AVE	372.88	37.29	73.83	484.00
680	2642310035		684277	11126	REDHILL RD	356.50	35.65	70.59	462.74
681	2642310068		684277	23846	PARKLAND AVE	71.43	7.14	14.14	92.70
682	2642320027		684277	11120	SILVER RUN	248.16	24.82	49.14	322.12
683	2642320083		684277	11133	MINERS TRL	378.50	37.85	74.94	491.28
684	2642330129		684277	11198	MINERS TRL	77.86	7.79	15.42	101.06
685	2642340045		684277	23942	PARKLAND AVE	378.50	37.85	74.94	491.28
686	2642340078		684277	23924	PARKLAND AVE	321.68	32.17	63.69	417.54
687	2642340133		684277	23888	PARKLAND AVE	238.16	23.82	47.16	309.14
688	2642340210		684277	23925	COPPER HILL PL	71.43	7.14	14.14	92.70
689	2642340232		684277	23956	BADGER SPRINGS TRL	371.38	37.14	73.53	482.04
690	2642340331		684277	11257	MINERS TRL	378.50	37.85	74.94	491.28
691	2642340353		684277	11230	MINERS TRL	385.23	38.52	76.28	500.02
692	2642510114		684277	23356	SONNET DR	378.50	37.85	74.94	491.28
693	2642510136		684277	23380	SONNET DR	372.64	37.26	73.78	483.68
694	2642520018		684277	23440	SONNET DR	372.88	37.29	73.83	484.00
695	2642520184		684277	23403	HARLAND DR	244.16	24.42	48.34	316.92
696	2642520205		684277	23378	HARLAND DR	285.78	28.58	56.58	370.94

MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018

Column Totals	2,003,753.76	200,377.97	396,739.88	2,600,843.48
Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
697	264253005	5	684277	23273	HARLAND DR	133.53	13.35	26.44	173.32
698	264254001	4	684277	23236	HARLAND DR	493.99	49.40	97.81	641.20
699	264254002	5	684277	23248	HARLAND DR	315.42	31.54	62.45	409.40
700	264254005	8	684277	23284	HARLAND DR	378.50	37.85	74.94	491.28
701	264254015	7	684277	23402	HARLAND DR	372.88	37.29	73.83	484.00
702	264254029	0	684277	23365	SONNET DR	59.44	5.94	11.77	77.14
703	264254038	8	684277	23259	SONNET DR	378.50	37.85	74.94	491.28
704	264261004	9	684277	22817	SWEETPEA CIR	385.23	38.52	76.28	500.02
705	264261008	3	684277	22788	SWEETPEA CIR	378.50	37.85	74.94	491.28
706	264261010	4	684277	22816	SWEET PEA CIR	354.36	35.44	70.16	459.96
707	264261020	3	684277	22776	CATMINT CIR	372.88	37.29	73.83	484.00
708	264261022	5	684277	22804	CATMINT CIR	123.30	12.33	24.41	160.04
709	264261038	0	684277	11908	YELLOW IRIS WAY	320.70	32.07	63.50	416.26
710	264263008	9	684277	11815	YELLOW IRIS WAY	278.50	27.85	55.14	361.48
711	264271003	9	684277	22786	WILD GERANIUM LN	378.50	37.85	74.94	491.28
712	264271014	9	684277	22789	CLIMBING ROSE DR	321.44	32.14	63.64	417.22
713	264271015	0	684277	22765	CLIMBING ROSE DR	493.99	49.40	97.81	641.20
714	264273004	6	684277	22766	CLIMBING ROSE DR	378.50	37.85	74.94	491.28
715	264273012	3	684277	22870	CLIMBING ROSE DR	385.23	38.52	76.28	500.02
716	264281003	0	684277	11941	LIVERPOOL LN	372.88	37.29	73.83	484.00
717	264281013	9	684277	23211	MANSFIELD LN	321.68	32.17	63.69	417.54
718	264282001	1	684277	11831	LIVERPOOL LN	378.50	37.85	74.94	491.28
719	264282003	3	684277	11813	LIVERPOOL LN	378.50	37.85	74.94	491.28
720	264282004	4	684277	11805	LIVERPOOL LN	342.38	34.24	67.79	444.40
721	264282005	5	684277	11795	LIVERPOOL LN	185.23	18.52	36.68	240.42
722	264282006	6	684277	11785	LIVERPOOL LN	366.48	36.65	72.56	475.68
723	264282007	7	684277	11775	LIVERPOOL LN	374.38	37.44	74.13	485.94
724	264282009	9	684277	11761	LIVERPOOL LN	372.88	37.29	73.83	484.00
725	264282014	3	684277	11794	LIVERPOOL LN	31.88	3.19	6.31	41.38

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
726	264282018	7	684277	11830	LIVERPOOL LN	378.50	37.85	74.94	491.28
727	264282026	4	684277	11902	LIVERPOOL LN	76.43	7.64	15.13	99.20
728	264282032	9	684277	11956	LIVERPOOL LN	272.88	27.29	54.03	354.20
729	264291002	0	684277	23650	SWAN ST	378.50	37.85	74.94	491.28
730	264291005	3	684277	23686	SWAN ST	328.40	32.84	65.02	426.26
731	264292002	3	684277	23721	SWAN ST	747.43	74.74	147.99	970.16
732	264292002	3	684277	23763	SWAN ST	747.43	74.74	147.99	970.16
733	264292013	3	684277	23745	SWAN ST	155.12	15.51	30.71	201.34
734	264292017	7	684277	23742	COCKATIEL DR	415.62	41.56	82.29	539.46
735	264292018	8	684277	23754	COCKATIEL DR	477.72	47.77	94.59	620.08
736	264293003	7	684277	23733	COCKATIEL DR	472.21	47.22	93.50	612.92
737	264293011	4	684277	23637	COCKATIEL DR	486.54	48.65	96.33	631.52
738	264293013	6	684277	23690	RHEA DR	378.50	37.85	74.94	491.28
739	264293014	7	684277	23680	RHEA DR	372.88	37.29	73.83	484.00
740	264293017	0	684277	23634	RHEA DR	372.88	37.29	73.83	484.00
741	264293019	2	684277	23610	RHEA DR	372.88	37.29	73.83	484.00
742	264293020	2	684277	11718	CRANE CT	166.43	16.64	32.95	216.02
743	264294008	5	684277	23631	RHEA DR	378.50	37.85	74.94	491.28
744	264294010	6	684277	23655	RHEA DR	218.82	21.88	43.33	284.02
745	264301001	9	684277	11956	ALBION WAY	354.17	35.42	70.13	459.72
746	264301019	6	684277	11947	ALBION WAY	372.88	37.29	73.83	484.00
747	264301033	8	684277	11895	HARTLAND PL	381.70	38.17	75.58	495.44
748	264301036	1	684277	11923	HARTLAND PL	364.18	36.42	72.11	472.70
749	264301037	2	684277	11931	HARTLAND PL	341.68	34.17	67.65	443.50
750	264301043	7	684277	11950	COLLINGSWOOD DR	172.83	17.28	34.22	224.32
751	264301047	1	684277	11910	COLLINGSWOOD DR	431.88	43.19	85.51	560.58
752	264302017	7	684277	23071	FALL RIVER RD	378.50	37.85	74.94	491.28
753	264302027	6	684277	23048	FALL RIVER RD	78.01	7.80	15.45	101.26
754	264302034	2	684277	23015	SEABROOK LN	341.32	34.13	67.58	443.02

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
755	264311005	4	684277	11223	SADDLE RIDGE RD	327.32	32.73	64.81	424.86
756	264321008	8	684277	23057	MANSFIELD LN	345.64	34.56	68.44	448.64
757	264321009	9	684277	23047	MANSFIELD LN	222.64	22.26	44.08	288.98
758	264321011	0	684277	23027	MANSFIELD LN	356.18	35.62	70.52	462.32
759	264321013	2	684277	23003	MANSFIELD LN	146.20	14.62	28.95	189.76
760	264321026	4	684277	23006	LAMBOURNE CT	378.50	37.85	74.94	491.28
761	264322010	2	684277	11765	KETTERING CT	326.98	32.70	64.74	424.42
762	264322011	3	684277	11773	KETTERING CT	113.88	11.39	22.55	147.82
763	264322020	1	684277	11822	CARLISLE CT	71.43	7.14	14.14	92.70
764	264322021	2	684277	11814	CARLISLE CT	242.03	24.20	47.92	314.14
765	264322026	7	684277	11774	CARLISLE CT	336.57	33.66	66.64	436.86
766	264322033	3	684277	11805	CARLISLE CT	378.50	37.85	74.94	491.28
767	264322035	5	684277	11821	CARLISLE CT	343.58	34.36	68.03	445.96
768	264322041	0	684277	11798	COLLINGSWOOD DR	378.50	37.85	74.94	491.28
769	264322042	1	684277	11790	COLLINGSWOOD DR	385.23	38.52	76.28	500.02
770	264323004	0	684277	23107	MANSFIELD LN	378.50	37.85	74.94	491.28
771	264331005	6	684277	22763	TEA ROSE LN	338.38	33.84	67.00	439.22
772	264331008	9	684277	22799	TEA ROSE LN	480.82	48.08	95.20	624.10
773	264333001	8	684277	22828	CATTAIL LN	67.00	6.70	13.27	86.96
774	264333018	4	684277	11726	CHAMOMILE CIR	42.70	4.27	8.45	55.42
775	264342012	6	684277	11707	BLUE LUPIN LN	101.43	10.14	20.08	131.64
776	264344011	1	684277	11649	BLUE LUPIN LN	378.50	37.85	74.94	491.28
777	264352008	4	684277	22579	CLIMBING ROSE DR	378.50	37.85	74.94	491.28
778	264352009	5	684277	22589	CLIMBING ROSE DR	378.50	37.85	74.94	491.28
779	264352015	0	684277	22649	CLIMBING ROSE DR	136.29	13.63	26.99	176.90
780	264352015	0	684277	22649	CLIMBING ROSE DR	136.29	13.63	26.99	176.90
781	264361001	5	684277	11643	BOBOLINK LN	372.88	37.29	73.83	484.00
782	264361002	6	684277	11652	BOBOLINK LN	418.72	41.87	82.91	543.50
783	264361015	8	684277	11654	CANVASBACK CIR	378.50	37.85	74.94	491.28

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
784	264361016	9	684277	11646	CANVASBACK CIR	193.37	19.34	38.29	251.00
785	264361019	2	684277	11663	CANVASBACK CIR	372.88	37.29	73.83	484.00
786	264361023	5	684277	11703	CANVASBACK CIR	372.88	37.29	73.83	484.00
787	264361030	1	684277	11668	PINTAIL CT	187.93	18.79	37.21	243.92
788	264361038	9	684277	11651	PINTAIL CT	346.78	34.68	68.66	450.12
789	264361048	8	684277	23061	GOLDEN EYE LN	400.00	40.00	79.20	519.20
790	264361049	9	684277	23073	GOLDEN EYE LN	216.43	21.64	42.85	280.92
791	264362018	4	684277	11692	BOBOLINK LN	219.24	21.92	43.41	284.56
792	264362018	4	684277	11692	BOBOLINK LN	219.24	21.92	43.41	284.56
793	264371001	6	684277	22013	MONICO DR	372.88	37.29	73.83	484.00
794	264371014	8	684277	22060	MONICO DR	477.72	47.77	94.59	620.08
795	264371023	6	684277	22073	SPRING CREST RD	321.68	32.17	63.69	417.54
796	264371030	2	684277	11935	ATHENS DR	238.16	23.82	47.16	309.14
797	264372005	3	684277	22086	SPRING CREST RD	150.00	15.00	29.70	194.70
798	264372005	3	684277	22086	SPRING CREST RD	150.00	15.00	29.70	194.70
799	264373017	7	684277	11895	CONSTANTINE CIR	24.11	2.41	4.77	31.28
800	264381017	2	684277	22146	NAPLES DR	486.54	48.65	96.33	631.52
801	264381029	3	684277	22354	SCARLET SAGE WAY	197.15	19.72	39.04	255.90
802	264382003	2	684277	22181	NAPLES DR	33.68	3.37	6.67	43.72
803	264382006	5	684277	22217	NAPLES DR	378.50	37.85	74.94	491.28
804	264382016	4	684277	22339	NAPLES DR	365.95	36.60	72.46	475.00
805	264390002	6	684277	11935	BARCLAY DR	108.80	10.88	21.54	141.22
806	264402004	4	684277	22430	CLIMBING ROSE DR	129.08	12.91	25.56	167.54
807	264402007	7	684277	22460	CLIMBING ROSE DR	378.50	37.85	74.94	491.28
808	264403003	6	684277	22430	NARANJA ST	378.50	37.85	74.94	491.28
809	264403013	5	684277	22419	SCARLET SAGE WAY	493.99	49.40	97.81	641.20
810	264404011	6	684277	11920	BARCLAY DR	354.05	35.41	70.10	459.56
811	264405002	1	684277	22378	SCARLET SAGE WAY	372.88	37.29	73.83	484.00
812	264411011	8	684277	22475	NARANJA ST	211.20	21.12	41.82	274.14

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

Column Totals	2,003,753.76	200,377.97	396,739.88	2,600,843.48
Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
813	264412003	4	684277	22500	NARANJA ST	378.50	37.85	74.94	491.28
814	264412004	5	684277	22520	NARANJA ST	161.19	16.12	31.92	209.22
815	264412008	9	684277	22568	NARANJA ST	241.86	24.19	47.89	313.94
816	264412009	0	684277	22580	NARANJA ST	378.50	37.85	74.94	491.28
817	264412017	7	684277	22533	SCARLET SAGE WAY	493.99	49.40	97.81	641.20
818	264413007	1	684277	22546	SCARLET SAGE WAY	339.47	33.95	67.22	440.64
819	264421006	5	684277	11686	SANDPIPER CT	378.50	37.85	74.94	491.28
820	264421009	8	684277	11722	SANDPIPER CT	177.72	17.77	35.19	230.68
821	264423002	7	684277	11617	MCCULLY CT	259.95	26.00	51.47	337.42
822	264423009	4	684277	11596	MCCULLY CT	385.23	38.52	76.28	500.02
823	264423012	6	684277	11593	SANDPIPER CT	372.88	37.29	73.83	484.00
824	264423015	9	684277	11557	SANDPIPER CT	378.50	37.85	74.94	491.28
825	264423022	5	684277	11558	SANDPIPER CT	602.45	60.25	119.29	781.98
826	264423023	6	684277	11570	SANDPIPER CT	359.61	35.96	71.20	466.76
827	264423025	8	684277	11594	SANDPIPER CT	372.88	37.29	73.83	484.00
828	264431004	4	684277	23830	SWAN ST	372.88	37.29	73.83	484.00
829	264431013	2	684277	11647	MCCULLY CT	468.16	46.82	92.70	607.68
830	264431018	7	684277	23931	COCKATIEL DR	288.70	28.87	57.16	374.72
831	264431028	6	684277	23824	ROWE DR	378.50	37.85	74.94	491.28
832	264431030	7	684277	23840	ROWE DR	378.50	37.85	74.94	491.28
833	264431040	6	684277	23945	ROWE DR	71.43	7.14	14.14	92.70
834	264431052	7	684277	23811	ROWE DR	378.50	37.85	74.94	491.28
835	264432002	5	684277	23793	SWAN ST	295.92	29.59	58.59	384.10
836	264432004	7	684277	23817	SWAN ST	98.65	9.87	19.53	128.04
837	264432005	8	684277	23829	SWAN ST	378.50	37.85	74.94	491.28
838	264432006	9	684277	23850	COCKATIEL DR	230.58	23.06	45.66	299.30
839	264440010	7	684277	11532	BLUE JAY CT	378.50	37.85	74.94	491.28
840	291090010	4	684277	21634	EUCALYPTUS AVE	378.50	37.85	74.94	491.28
841	291090034	6	684277	21748	EUCALYPTUS AVE	344.83	34.48	68.28	447.58

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

Column Totals	2,003,753.76	200,377.97	396,739.88	2,600,843.48
Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
842	291140013	1	684277	13549	ELSWORTH ST	537.44	53.74	106.41	697.58
843	291150008	8	684277	22170	BAY AVE	655.12	65.51	129.71	850.34
844	291150008	8	684277	22162	BAY AVE	655.12	65.51	129.71	850.34
845	291161001	5	684277	22266	BAY AVE	92.26	9.23	18.27	119.76
846	291161017	0	684277	22414	ELLA AVE	305.90	30.59	60.57	397.06
847	291161024	6	684277	22320	BAY AVE	321.68	32.17	63.69	417.54
848	291161025	7	684277	22290	BAY AVE	138.16	13.82	27.36	179.34
849	291162003	0	684277	22461	ELLA AVE	378.50	37.85	74.94	491.28
850	291162016	2	684277	22414	BERTIE AVE	438.85	43.89	86.89	569.62
851	291162017	3	684277	22424	BERTIE AVE	361.80	36.18	71.64	469.62
852	291162022	7	684277	22488	BERTIE AVE	71.43	7.14	14.14	92.70
853	291163001	1	684277	22487	BERTIE AVE	297.86	29.79	58.98	386.62
854	291163002	2	684277	22473	BERTIE AVE	371.41	37.14	73.54	482.08
855	291163006	6	684277	22423	BERTIE AVE	493.99	49.40	97.81	641.20
856	291163013	2	684277	22376	BAY AVE	268.50	26.85	53.16	348.50
857	291163022	0	684277	22488	BAY AVE	458.14	45.81	90.71	594.66
858	291171009	4	684277	22007	BAY AVE	372.88	37.29	73.83	484.00
859	291172001	9	684277	22063	BAY AVE	278.99	27.90	55.24	362.12
860	291172004	2	684277	13838	NOLZE PL	240.94	24.09	47.71	312.74
861	291172017	4	684277	22203	BAY AVE	50.00	5.00	9.90	64.90
862	291172019	6	684277	22208	SHERMAN AVE	378.50	37.85	74.94	491.28
863	291172021	7	684277	22196	SHERMAN AVE	321.68	32.17	63.69	417.54
864	291172027	3	684277	13843	GRANT ST	529.28	52.93	104.80	687.00
865	291172032	7	684277	22125	BAY AVE	455.05	45.51	90.10	590.66
866	291172032	7	684277	22133	BAY AVE	455.05	45.51	90.10	590.66
867	291181004	0	684277	22307	BAY AVE	361.80	36.18	71.64	469.62
868	291181005	1	684277	22321	BAY AVE	345.70	34.57	68.45	448.72
869	291181007	3	684277	22343	BAY AVE	372.88	37.29	73.83	484.00
870	291181010	5	684277	22383	BAY AVE	34.03	3.40	6.74	44.16

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

Column Totals	2,003,753.76	200,377.97	396,739.88	2,600,843.48
Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
871	291181022	6	684277	13810	GRANT ST	372.88	37.29	73.83	484.00
872	291181034	7	684277	22330	FARRAGUT AVE	72.35	7.24	14.33	93.92
873	291182009	8	684277	22419	FARRAGUT AVE	381.58	38.16	75.55	495.28
874	291182011	9	684277	22461	FARRAGUT AVE	193.45	19.35	38.30	251.10
875	291182013	1	684277	22487	FARRAGUT AVE	362.03	36.20	71.68	469.90
876	291182016	4	684277	22354	SHERMAN AVE	609.73	60.97	120.73	791.42
877	291182017	5	684277	22368	SHERMAN AVE	407.69	40.77	80.72	529.18
878	291182019	7	684277	22390	SHERMAN AVE	372.88	37.29	73.83	484.00
879	291182024	1	684277	22460	SHERMAN AVE	167.03	16.70	33.07	216.80
880	291182025	2	684277	22470	SHERMAN AVE	485.05	48.51	96.04	629.60
881	291191016	2	684277	13899	PEPPER ST	378.50	37.85	74.94	491.28
882	291191017	3	684277	13903	PEPPER ST	378.50	37.85	74.94	491.28
883	291191018	4	684277	13923	PEPPER ST	486.54	48.65	96.33	631.52
884	291192001	1	684277	22257	SHERMAN AVE	477.72	47.77	94.59	620.08
885	291192006	6	684277	13966	PEPPER ST	155.13	15.51	30.72	201.36
886	291192015	4	684277	13875	GRANT ST	347.50	34.75	68.81	451.06
887	291192017	6	684277	13899	GRANT ST	679.08	67.91	134.46	881.44
888	291192017	6	684277	13891	GRANT ST	679.08	67.91	134.46	881.44
889	291192020	8	684277	13929	GRANT ST	153.96	15.40	30.48	199.84
890	291200008	2	684277	13944	GRANT ST	370.62	37.06	73.38	481.06
891	291200010	3	684277	13964	GRANT ST	372.88	37.29	73.83	484.00
892	291211006	4	684277	22537	COTTONWOOD AVE	372.88	37.29	73.83	484.00
893	291211016	3	684277	13616	ELSWORTH ST	126.19	12.62	24.99	163.80
894	291211019	6	684277	13660	ELSWORTH ST	493.99	49.40	97.81	641.20
895	291211020	6	684277	13672	ELSWORTH ST	753.05	75.31	149.10	977.46
896	291211020	6	684277	13762	ELSWORTH ST	753.05	75.31	149.10	977.46
897	291211027	3	684277	13725	BOEING ST	158.99	15.90	31.48	206.36
898	291211032	7	684277	13661	BOEING ST	372.88	37.29	73.83	484.00
899	291211045	9	684277	22568	TEMCO ST	485.05	48.51	96.04	629.60

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
900	291212002	3	684277	22571	TEMCO ST	486.54	48.65	96.33	631.52
901	291212009	0	684277	22572	VOUGHT ST	372.88	37.29	73.83	484.00
902	291213010	3	684277	22565	VOUGHT ST	477.72	47.77	94.59	620.08
903	291213012	5	684277	13622	BOEING ST	493.99	49.40	97.81	641.20
904	291213017	0	684277	13700	BOEING ST	238.16	23.82	47.16	309.14
905	291214006	3	684277	13684	MCDONNELL ST	155.12	15.51	30.71	201.34
906	291221007	6	684277	22685	COTTONWOOD AVE	360.58	36.06	71.40	468.04
907	291221008	7	684277	22705	COTTONWOOD AVE	378.50	37.85	74.94	491.28
908	291221011	9	684277	22575	TEMCO ST	389.57	38.96	77.14	505.66
909	291222004	6	684277	22651	TEMCO ST	378.50	37.85	74.94	491.28
910	291222011	2	684277	22650	VOUGHT ST	378.50	37.85	74.94	491.28
911	291222012	3	684277	22660	VOUGHT ST	365.32	36.53	72.33	474.18
912	291223002	7	684277	22621	VOUGHT ST	378.50	37.85	74.94	491.28
913	291224002	0	684277	13542	PAN AM BLVD	372.88	37.29	73.83	484.00
914	291224006	4	684277	13695	THUNDERBIRD DR	71.44	7.14	14.14	92.72
915	291225002	3	684277	22727	VOUGHT ST	335.26	33.53	66.38	435.16
916	291232009	2	684277	22839	COTTONWOOD AVE	42.46	4.25	8.41	55.12
917	291232011	3	684277	22867	COTTONWOOD AVE	155.12	15.51	30.71	201.34
918	291232012	4	684277	13541	CASPER CT	378.50	37.85	74.94	491.28
919	291232023	4	684277	13671	THUNDERBIRD DR	331.54	33.15	65.64	430.32
920	291233002	8	684277	22978	VOUGHT ST	372.88	37.29	73.83	484.00
921	291233018	3	684277	13662	PLAYER CT	385.23	38.52	76.28	500.02
922	291233034	7	684277	13648	THUNDERBIRD DR	272.64	27.26	53.98	353.88
923	291233035	8	684277	13636	THUNDERBIRD DR	201.77	20.18	39.95	261.90
924	291233039	2	684277	13546	THUNDERBIRD DR	82.26	8.23	16.29	106.78
925	291233041	3	684277	13522	THUNDERBIRD DR	280.07	28.01	55.45	363.52
926	291234003	2	684277	22777	VOUGHT ST	601.40	60.14	119.08	780.62
927	291234007	6	684277	22825	VOUGHT ST	372.88	37.29	73.83	484.00
928	291234011	9	684277	22873	VOUGHT ST	378.50	37.85	74.94	491.28

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

Column Totals	2,003,753.76	200,377.97	396,739.88	2,600,843.48
Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
929	291241003	4	684277	13540	CASPER CT	372.88	37.29	73.83	484.00
930	291241006	7	684277	23094	VOUGHT ST	378.50	37.85	74.94	491.28
931	291242001	5	684277	23093	VOUGHT ST	231.67	23.17	45.87	300.70
932	291242017	0	684277	22885	VOUGHT ST	278.50	27.85	55.14	361.48
933	291261004	7	684277	13845	BOEING ST	128.64	12.86	25.47	166.96
934	291261015	7	684277	13820	ELSWORTH ST	486.54	48.65	96.33	631.52
935	291262001	7	684277	22560	ADRIENNE AVE	365.72	36.57	72.41	474.70
936	291262005	1	684277	13845	MCDONNELL ST	361.80	36.18	71.64	469.62
937	291262010	5	684277	13779	MCDONNELL ST	376.10	37.61	74.47	488.18
938	291262015	0	684277	13806	BOEING ST	493.99	49.40	97.81	641.20
939	291263002	1	684277	13888	MCDONNELL ST	611.04	61.10	120.99	793.12
940	291263002	1	684277	13886	MCDONNELL ST	611.04	61.10	120.99	793.12
941	291263003	2	684277	13874	MCDONNELL ST	366.50	36.65	72.57	475.72
942	291263003	2	684277	13874	MCDONNELL ST	366.50	36.65	72.57	475.72
943	291263006	5	684277	13832	MCDONNELL ST	378.50	37.85	74.94	491.28
944	291263008	7	684277	13806	MCDONNELL ST	357.79	35.78	70.84	464.40
945	291263010	8	684277	13778	MCDONNELL ST	378.50	37.85	74.94	491.28
946	291264008	0	684277	22573	ADRIENNE AVE APT A	408.48	40.85	80.88	530.20
947	291264008	0	684277	22573	ADRIENNE AVE APT C	408.48	40.85	80.88	530.20
948	291281010	4	684277	22828	BAY AVE	372.88	37.29	73.83	484.00
949	291281020	3	684277	22800	BAY AVE	486.54	48.65	96.33	631.52
950	291283001	2	684277	13840	COURAGE ST	159.62	15.96	31.60	207.18
951	291300010	2	684277	22670	ABINGTON PL	372.88	37.29	73.83	484.00
952	291311007	4	684277	22891	DRACAEA AVE	372.88	37.29	73.83	484.00
953	291311012	8	684277	13290	PAN AM BLVD	213.23	21.32	42.22	276.76
954	291311018	4	684277	13295	APPLEBY CT	579.10	57.91	114.66	751.66
955	291311025	0	684277	22940	SCRIBNER DR	378.50	37.85	74.94	491.28
956	291312001	1	684277	13250	OAK DELL ST	378.50	37.85	74.94	491.28
957	291312008	8	684277	13356	OAK DELL ST	378.50	37.85	74.94	491.28

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

Column Totals	2,003,753.76	200,377.97	396,739.88	2,600,843.48
Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
958	291313002	5	684277	22905	SCRIBNER DR	493.99	49.40	97.81	641.20
959	291313008	1	684277	22828	AQUEDUCT WAY	378.50	37.85	74.94	491.28
960	291314011	6	684277	22765	DRACAEA AVE	21.43	2.14	4.24	27.80
961	291314013	8	684277	22763	AQUEDUCT WAY	378.50	37.85	74.94	491.28
962	291314017	2	684277	22790	AQUEDUCT WAY	278.50	27.85	55.14	361.48
963	291321009	7	684277	22927	BAYWOOD DR	366.48	36.65	72.56	475.68
964	291321013	0	684277	22863	BAYWOOD DR	157.50	15.75	31.19	204.44
965	291323001	5	684277	22878	BAYWOOD DR	724.92	72.49	143.53	940.94
966	291323008	2	684277	13416	PAN AM BLVD	178.13	17.81	35.27	231.20
967	291325001	1	684277	22783	BAYWOOD DR	493.99	49.40	97.81	641.20
968	291331001	0	684277	12116	COACHMAN LN	372.88	37.29	73.83	484.00
969	291331005	4	684277	12068	COACHMAN LN	238.16	23.82	47.16	309.14
970	291331006	5	684277	12056	COACHMAN LN	372.88	37.29	73.83	484.00
971	291331007	6	684277	12044	COACHMAN LN	378.50	37.85	74.94	491.28
972	291331015	3	684277	22888	SCOTIA LN	332.02	33.20	65.74	430.96
973	291332008	0	684277	12055	COACHMAN LN	368.16	36.82	72.90	477.88
974	291332014	5	684277	22950	GLENDON DR	383.28	38.33	75.89	497.50
975	291332019	0	684277	22904	GLENDON DR	71.43	7.14	14.14	92.70
976	291334010	7	684277	22973	CHAMBRAY DR	372.64	37.26	73.78	483.68
977	291334017	4	684277	22929	CHAMBRAY DR	71.43	7.14	14.14	92.70
978	291342013	5	684277	22814	SCOTIA LN	493.99	49.40	97.81	641.20
979	291344002	1	684277	22845	GLENDON DR	152.86	15.29	30.27	198.42
980	291344008	7	684277	22767	GLENDON DR	372.88	37.29	73.83	484.00
981	291344012	0	684277	22711	GLENDON DR	493.99	49.40	97.81	641.20
982	291344013	1	684277	22714	GLENDON DR	341.40	34.14	67.60	443.14
983	291344021	8	684277	22729	SCOTIA LN	157.84	15.78	31.25	204.86
984	291344026	3	684277	12074	RIPARIAN WAY	378.50	37.85	74.94	491.28
985	291344027	4	684277	12086	RIPARIAN WAY	281.88	28.19	55.81	365.88
986	291344030	6	684277	12122	RIPARIAN WAY	321.20	32.12	63.60	416.92

**MORENO VALLEY Tax Roll Listing 2019
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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
987	291344031	7	684277	12136	RIPARIAN WAY	50.00	5.00	9.90	64.90
988	291344036	2	684277	22754	CHAMBRAY DR	184.55	18.46	36.54	239.54
989	291344039	5	684277	22784	CHAMBRAY DR	485.05	48.51	96.04	629.60
990	291361032	1	684277	22851	KINROSS LN	372.88	37.29	73.83	484.00
991	291362019	3	684277	12215	HYTHE ST	336.20	33.62	66.57	436.38
992	291371001	4	684277	13240	OAK DELL ST	378.50	37.85	74.94	491.28
993	291371004	7	684277	13214	OAK DELL ST	372.88	37.29	73.83	484.00
994	291371021	2	684277	13072	OAK DELL ST	321.68	32.17	63.69	417.54
995	291371023	4	684277	13056	OAK DELL ST	514.73	51.47	101.92	668.12
996	291371034	4	684277	22910	PAHUTE DR	367.57	36.76	72.78	477.10
997	291372016	1	684277	13241	OAK DELL ST	238.16	23.82	47.16	309.14
998	291372017	2	684277	22954	DRACAEA AVE	155.12	15.51	30.71	201.34
999	291372024	8	684277	22874	DRACAEA AVE	372.88	37.29	73.83	484.00
1000	291373004	3	684277	13166	PAN AM BLVD	277.79	27.78	55.00	360.56
1001	291373005	4	684277	13160	PAN AM BLVD	155.12	15.51	30.71	201.34
1002	291373027	4	684277	13063	TONIKAN DR	372.88	37.29	73.83	484.00
1003	291373038	4	684277	13145	TONIKAN DR	177.06	17.71	35.06	229.82
1004	291374002	4	684277	13168	TONIKAN DR	520.46	52.05	103.05	675.56
1005	291374004	6	684277	13154	TONIKAN DR	357.79	35.78	70.84	464.40
1006	291374013	4	684277	13088	TONIKAN DR	576.84	57.68	114.21	748.72
1007	291374014	5	684277	13082	TONIKAN DR	378.50	37.85	74.94	491.28
1008	291374015	6	684277	13076	TONIKAN DR	341.21	34.12	67.56	442.88
1009	291374023	3	684277	13043	OAK DELL ST	346.38	34.64	68.58	449.60
1010	291381009	3	684277	22778	PAHUTE DR	71.43	7.14	14.14	92.70
1011	291381018	1	684277	13055	KIOWA DR	100.00	10.00	19.80	129.80
1012	291381026	8	684277	13117	KIOWA DR	246.17	24.62	48.74	319.52
1013	291381028	0	684277	13131	KIOWA DR	378.50	37.85	74.94	491.28
1014	291381033	4	684277	13169	KIOWA DR	477.72	47.77	94.59	620.08
1015	291381034	5	684277	13177	KIOWA DR	378.50	37.85	74.94	491.28

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

Column Totals	2,003,753.76	200,377.97	396,739.88	2,600,843.48
Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
1016	291381036	7	684277	13191	KIOWA DR	221.68	22.17	43.89	287.74
1017	291381037	8	684277	13197	KIOWA DR	75.12	7.51	14.87	97.50
1018	291381042	2	684277	13233	KIOWA DR	372.88	37.29	73.83	484.00
1019	291382003	0	684277	22784	DRACAEA AVE	24.24	2.42	4.80	31.46
1020	291382018	4	684277	13120	KIOWA DR	48.17	4.82	9.54	62.52
1021	291382021	6	684277	13096	KIOWA DR	378.50	37.85	74.94	491.28
1022	291382028	3	684277	13038	KIOWA DR	26.40	2.64	5.23	34.26
1023	291382033	7	684277	13031	LAKOTA ST	355.45	35.55	70.38	461.38
1024	291382046	9	684277	13119	LAKOTA ST	396.52	39.65	78.51	514.68
1025	291384008	1	684277	13054	LAKOTA ST	385.23	38.52	76.28	500.02
1026	291384017	9	684277	22821	PAHUTE DR	71.43	7.14	14.14	92.70
1027	291384018	0	684277	22829	PAHUTE DR	210.07	21.01	41.59	272.66
1028	291384019	1	684277	13055	PAN AM BLVD	493.99	49.40	97.81	641.20
1029	291384027	8	684277	13109	PAN AM BLVD	281.15	28.12	55.67	364.94
1030	291384028	9	684277	13117	PAN AM BLVD	493.99	49.40	97.81	641.20
1031	291384032	2	684277	13151	PAN AM BLVD	411.44	41.14	81.46	534.04
1032	291391005	0	684277	12202	FORMBY DR	187.50	18.75	37.13	243.38
1033	291391008	3	684277	12236	FORMBY DR	372.88	37.29	73.83	484.00
1034	291391010	4	684277	12258	FORMBY DR	171.90	17.19	34.04	223.12
1035	291392005	3	684277	22655	ASHFORD CIR	40.96	4.10	8.11	53.16
1036	291392006	4	684277	22651	ASHFORD CIR	486.54	48.65	96.33	631.52
1037	291392014	1	684277	22672	KIRKBY CIR	136.90	13.69	27.11	177.70
1038	291392016	3	684277	12157	RIPARIAN WAY	344.41	34.44	68.19	447.04
1039	291393001	2	684277	12172	RIPARIAN WAY	372.88	37.29	73.83	484.00
1040	291393005	6	684277	12226	RIPARIAN WAY	378.50	37.85	74.94	491.28
1041	291393006	7	684277	12240	RIPARIAN WAY	243.16	24.32	48.15	315.62
1042	291393024	3	684277	12220	TURTON LN	411.00	41.10	81.38	533.48
1043	291393024	3	684277	12220	TURTON LN	411.00	41.10	81.38	533.48
1044	291393036	4	684277	12225	FORMBY DR	50.00	5.00	9.90	64.90

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
1045	291402013	0	684277	22699	KINROSS LN	381.58	38.16	75.55	495.28
1046	291404009	3	684277	22788	KINROSS LN	364.53	36.45	72.18	473.16
1047	291404011	4	684277	22789	RADNOR LN	371.11	37.11	73.48	481.70
1048	291404016	9	684277	22729	RADNOR LN	76.43	7.64	15.13	99.20
1049	291412014	2	684277	22545	SHEFFIELD DR	372.69	37.27	73.79	483.74
1050	291412015	3	684277	22551	SHEFFIELD DR	372.88	37.29	73.83	484.00
1051	291413019	0	684277	22522	SHEFFIELD DR	493.99	49.40	97.81	641.20
1052	291413024	4	684277	22586	SHEFFIELD DR	91.20	9.12	18.06	118.38
1053	291431004	2	684277	12239	HERITAGE DR	493.99	49.40	97.81	641.20
1054	291431017	4	684277	22565	KINROSS LN	71.43	7.14	14.14	92.70
1055	291432008	9	684277	12306	HERITAGE DR	378.50	37.85	74.94	491.28
1056	291432009	0	684277	12294	HERITAGE DR	263.68	26.37	52.21	342.26
1057	291432011	1	684277	12266	HERITAGE DR	372.88	37.29	73.83	484.00
1058	291432013	3	684277	12246	HERITAGE DR	378.50	37.85	74.94	491.28
1059	291432021	0	684277	22575	RADNOR LN	34.39	3.44	6.81	44.64
1060	291432024	3	684277	22603	RADNOR LN	372.88	37.29	73.83	484.00
1061	291433003	7	684277	22550	RADNOR LN	361.63	36.16	71.60	469.38
1062	291433009	3	684277	22618	STRATFORD CT	696.25	69.63	137.86	903.74
1063	291492003	0	684277	12012	BARCLAY DR	486.54	48.65	96.33	631.52
1064	291493014	3	684277	12063	DRURY LN	326.44	32.64	64.63	423.70
1065	291493018	7	684277	12105	DRURY LN	76.43	7.64	15.13	99.20
1066	291493036	3	684277	12107	CAMBRIDGE CT	372.88	37.29	73.83	484.00
1067	291493039	6	684277	12011	BARCLAY DR	126.67	12.67	25.08	164.42
1068	291493044	0	684277	22303	WEMBLEY DR	372.88	37.29	73.83	484.00
1069	291494006	9	684277	22395	SHEFFIELD DR	461.51	46.15	91.38	599.04
1070	291494007	0	684277	22405	SHEFFIELD DR	100.86	10.09	19.97	130.92
1071	291494010	2	684277	22435	SHEFFIELD DR	378.50	37.85	74.94	491.28
1072	291501009	3	684277	12042	BRIXTON CT	704.52	70.45	139.49	914.46
1073	291501019	2	684277	12167	BRIXTON CT	238.16	23.82	47.16	309.14

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
1074	291501020	2	684277	12181	BRIXTON CT	378.30	37.83	74.90	491.02
1075	291502002	9	684277	22385	KINROSS LN	146.45	14.65	29.00	190.10
1076	291502003	0	684277	22395	KINROSS LN	562.98	56.30	111.47	730.74
1077	291503005	5	684277	12258	TIMLICO CT	158.99	15.90	31.48	206.36
1078	291503016	5	684277	12299	TIMLICO CT	356.26	35.63	70.54	462.42
1079	291503019	8	684277	12270	ROMFORD CT	350.88	35.09	69.47	455.44
1080	291511011	5	684277	22718	BELAIRE DR	90.00	9.00	17.82	116.82
1081	291511016	0	684277	13066	BRENTWOOD LN	503.03	50.30	99.60	652.92
1082	291512015	2	684277	22692	LAGUNA DR	372.88	37.29	73.83	484.00
1083	291512027	3	684277	22585	BELAIRE DR	192.07	19.21	38.03	249.30
1084	291513007	8	684277	13041	BALBOA LN	372.88	37.29	73.83	484.00
1085	291513009	0	684277	13011	BALBOA LN	319.24	31.92	63.21	414.36
1086	291521002	8	684277	13102	BRENTWOOD LN	296.95	29.70	58.80	385.44
1087	291521008	4	684277	13174	BRENTWOOD LN	372.88	37.29	73.83	484.00
1088	291521009	5	684277	13186	BRENTWOOD LN	450.72	45.07	89.24	585.02
1089	291522015	3	684277	22611	LAGUNA DR	347.50	34.75	68.81	451.06
1090	291522024	1	684277	13171	MALIBU CT	372.88	37.29	73.83	484.00
1091	291522034	0	684277	13180	MALIBU CT	48.77	4.88	9.66	63.30
1092	291522036	2	684277	22662	WESTLAKE DR	378.50	37.85	74.94	491.28
1093	291523009	1	684277	22617	WESTLAKE DR	385.23	38.52	76.28	500.02
1094	291523019	0	684277	22552	LA JOLLA CIR	372.88	37.29	73.83	484.00
1095	291523024	4	684277	22555	LA JOLLA CIR	372.88	37.29	73.83	484.00
1096	291523030	9	684277	13195	BALBOA LN	372.88	37.29	73.83	484.00
1097	291532005	5	684277	22789	PARKHAM ST	372.88	37.29	73.83	484.00
1098	291533023	4	684277	22790	BROMPTON ST	372.88	37.29	73.83	484.00
1099	291533024	5	684277	22800	BROMPTON ST	353.79	35.38	70.05	459.22
1100	291535002	1	684277	22721	BROMPTON ST	465.15	46.52	92.10	603.76
1101	291535005	4	684277	22691	BROMPTON ST	320.70	32.07	63.50	416.26
1102	291536006	8	684277	12789	GERRARD ST	378.50	37.85	74.94	491.28

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
1103	291537002	7	684277	22690	DOWNING ST	378.50	37.85	74.94	491.28
1104	291537003	8	684277	22700	DOWNING ST	71.43	7.14	14.14	92.70
1105	291538001	9	684277	22729	DOWNING ST	321.68	32.17	63.69	417.54
1106	291538007	5	684277	22789	DOWNING ST	76.16	7.62	15.08	98.86
1107	291538020	6	684277	12839	TIVERTON CT	378.50	37.85	74.94	491.28
1108	291538027	3	684277	12780	GERRARD ST	121.43	12.14	24.04	157.60
1109	291538027	3	684277	12780	GERRARD ST	121.43	12.14	24.04	157.60
1110	291541013	0	684277	12780	PAN AM BLVD	85.96	8.60	17.02	111.58
1111	291541022	8	684277	12870	PAN AM BLVD	86.43	8.64	17.11	112.18
1112	291541032	7	684277	22900	BROMPTON ST	372.88	37.29	73.83	484.00
1113	291541036	1	684277	22940	BROMPTON ST	372.88	37.29	73.83	484.00
1114	291541041	5	684277	22971	BROMPTON ST	372.88	37.29	73.83	484.00
1115	291541042	6	684277	22961	BROMPTON ST	372.88	37.29	73.83	484.00
1116	291542003	4	684277	22840	WIMPOLE ST # 10	321.68	32.17	63.69	417.54
1117	291551004	3	684277	22620	DOWNING ST	378.50	37.85	74.94	491.28
1118	291551007	6	684277	22650	DOWNING ST	97.64	9.76	19.33	126.72
1119	291552008	0	684277	12800	PEMBRIDGE DR	372.88	37.29	73.83	484.00
1120	291552013	4	684277	12799	NORWICH CT	485.05	48.51	96.04	629.60
1121	291552016	7	684277	12810	NORWICH CT	378.50	37.85	74.94	491.28
1122	291553006	1	684277	22629	PARKHAM ST	372.88	37.29	73.83	484.00
1123	291553023	6	684277	22650	SOUTHWALK ST	415.62	41.56	82.29	539.46
1124	291553030	2	684277	22639	SOUTHWALK ST	32.75	3.28	6.49	42.52
1125	291562008	1	684277	22500	GREENWICH CT	357.79	35.78	70.84	464.40
1126	291562012	4	684277	22509	GREENWICH CT	328.64	32.86	65.07	426.56
1127	291562013	5	684277	22499	GREENWICH CT	238.16	23.82	47.16	309.14
1128	291562015	7	684277	22470	SOUTHWALK ST	378.50	37.85	74.94	491.28
1129	291562017	9	684277	22490	SOUTHWALK ST	378.50	37.85	74.94	491.28
1130	291562027	8	684277	12840	BRITTANIA CT	372.88	37.29	73.83	484.00
1131	291563003	9	684277	22529	SOUTHWALK ST	211.76	21.18	41.93	274.86

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Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
1132	291581011	2	684277	13083	ACACIA AVE	123.22	12.32	24.40	159.94
1133	291582005	0	684277	13011	ACACIA AVE	275.29	27.53	54.51	357.32
1134	291582016	0	684277	22238	SILVERBELL LN	94.76	9.48	18.76	123.00
1135	291582018	2	684277	22218	SILVERBELL LN	503.03	50.30	99.60	652.92
1136	291583004	2	684277	22281	REDWOOD LN	71.43	7.14	14.14	92.70
1137	291583011	8	684277	22369	SUMMER HOLLY AVE	344.26	34.43	68.16	446.84
1138	291583018	5	684277	22320	SUMMER HOLLY AVE	171.68	17.17	33.99	222.84
1139	291583033	8	684277	22270	REDWOOD LN	372.88	37.29	73.83	484.00
1140	291610001	2	684277	13247	YELLOWWOOD ST	71.43	7.14	14.14	92.70
1141	291610004	5	684277	13223	YELLOWWOOD ST	188.16	18.82	37.26	244.24
1142	291610005	6	684277	13215	YELLOWWOOD ST	134.21	13.42	26.57	174.20
1143	291610017	7	684277	13119	YELLOWWOOD ST	142.16	14.22	28.15	184.52
1144	291611004	8	684277	13177	ACACIA AVE	372.88	37.29	73.83	484.00
1145	291611010	3	684277	13225	ACACIA AVE	71.43	7.14	14.14	92.70
1146	291612001	8	684277	13238	ACACIA AVE	221.68	22.17	43.89	287.74
1147	291613001	1	684277	22165	EMPRESS ST	378.50	37.85	74.94	491.28
1148	291613010	9	684277	13234	EMPRESS ST	258.76	25.88	51.24	335.88
1149	291613012	1	684277	13218	EMPRESS ST	378.50	37.85	74.94	491.28
1150	291613026	4	684277	22203	SWEETGUM AVE	357.79	35.78	70.84	464.40
1151	291614007	0	684277	22184	SWEETGUM AVE	378.50	37.85	74.94	491.28
1152	291614009	2	684277	22164	SWEETGUM AVE	158.99	15.90	31.48	206.36
1153	291615013	8	684277	22314	LILAC CT	50.00	5.00	9.90	64.90
1154	291616014	2	684277	13285	SNOWBELL LN	142.86	14.29	28.29	185.44
1155	291620014	5	684277	22288	WITCHHAZEL AVE	372.88	37.29	73.83	484.00
1156	291620015	6	684277	22278	WITCHHAZEL AVE	102.00	10.20	20.20	132.40
1157	291620022	2	684277	13338	HICKORY WAY	372.88	37.29	73.83	484.00
1158	291622027	3	684277	22086	WITCHHAZEL AVE	370.09	37.01	73.28	480.38
1159	291623013	3	684277	22227	WITCHHAZEL AVE	409.58	40.96	81.10	531.64
1160	291623014	4	684277	22235	WITCHHAZEL AVE	378.50	37.85	74.94	491.28

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Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
1161	291623027	6	684277	13346	SOURWOOD AVE	76.43	7.64	15.13	99.20
1162	291623030	8	684277	13376	SOURWOOD AVE	372.88	37.29	73.83	484.00
1163	291623045	2	684277	13369	COFFEETREE ST	320.70	32.07	63.50	416.26
1164	291624024	6	684277	22017	MIMOSA LN	378.50	37.85	74.94	491.28
1165	291630006	9	684277	22333	MAIDENHAIR ST	404.98	40.50	80.19	525.66
1166	291631028	2	684277	13402	HAWTHORN AVE	133.79	13.38	26.49	173.66
1167	291632001	0	684277	13449	ARBOR PARK LN	493.99	49.40	97.81	641.20
1168	291632011	9	684277	22307	BLACK GUM ST	378.50	37.85	74.94	491.28
1169	291632015	3	684277	22347	BLACK GUM ST	378.50	37.85	74.94	491.28
1170	291633015	6	684277	13456	ARBOR PARK LN	213.49	21.35	42.27	277.10
1171	291633019	0	684277	13427	GLORYBOWER ST	66.42	6.64	13.15	86.20
1172	291634003	8	684277	13456	GLORYBOWER ST	115.50	11.55	22.87	149.92
1173	291634007	2	684277	22369	WITCHHAZEL AVE	71.43	7.14	14.14	92.70
1174	291634010	4	684277	22397	WITCHHAZEL AVE	336.89	33.69	66.70	437.28
1175	291635040	4	684277	13430	HAWTHORN AVE	378.50	37.85	74.94	491.28
1176	291636002	3	684277	22321	HAWTHORN AVE	372.88	37.29	73.83	484.00
1177	291636027	6	684277	22434	WITCHHAZEL AVE	272.88	27.29	54.03	354.20
1178	291636028	7	684277	22426	WITCHHAZEL AVE	95.00	9.50	18.81	123.30
1179	291636039	7	684277	22338	WITCHHAZEL AVE	50.00	5.00	9.90	64.90
1180	291636042	9	684277	22314	WITCHHAZEL AVE	209.69	20.97	41.52	272.18
1181	291641003	0	684277	13296	SNOWBELL LN	378.50	37.85	74.94	491.28
1182	291641011	7	684277	13317	SASSAFRAS ST	369.37	36.94	73.14	479.44
1183	291641021	6	684277	13326	CRABAPPLE ST	351.92	35.19	69.68	456.78
1184	291642003	3	684277	13330	SASSAFRAS ST	372.88	37.29	73.83	484.00
1185	291671018	7	684277	22367	YORKE RD	372.88	37.29	73.83	484.00
1186	291671038	5	684277	22322	ECHO PARK WAY	385.23	38.52	76.28	500.02
1187	291671044	0	684277	22369	ECHO PARK WAY	384.63	38.46	76.16	499.24
1188	291671053	8	684277	22346	ECHO PARK WAY	321.68	32.17	63.69	417.54
1189	291671068	2	684277	22390	REGENTS PARK LN	242.98	24.30	48.11	315.38

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Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
1190	292021003	1	684277	12774	SUNNYMEADOWS DR	493.99	49.40	97.81	641.20
1191	292021004	2	684277	12780	SUNNYMEADOWS DR	485.05	48.51	96.04	629.60
1192	292022003	4	684277	12757	SUNNYMEADOWS DR	508.47	50.85	100.68	660.00
1193	292022024	3	684277	12504	PENSKE ST	485.05	48.51	96.04	629.60
1194	292022025	4	684277	12501	ANDRETTI ST	493.99	49.40	97.81	641.20
1195	292022026	5	684277	12507	ANDRETTI ST	591.63	59.16	117.14	767.92
1196	292022033	1	684277	12551	ANDRETTI ST	378.50	37.85	74.94	491.28
1197	292022034	2	684277	12567	ANDRETTI ST	385.23	38.52	76.28	500.02
1198	292023008	2	684277	12578	ANDRETTI ST	353.02	35.30	69.90	458.22
1199	292023012	5	684277	12516	ANDRETTI ST	378.50	37.85	74.94	491.28
1200	292023020	2	684277	12579	PENSKE ST	385.23	38.52	76.28	500.02
1201	292031015	3	684277	12824	SUNNYMEADOWS DR	385.23	38.52	76.28	500.02
1202	292031017	5	684277	12836	SUNNYMEADOWS DR	100.44	10.04	19.89	130.36
1203	292035003	4	684277	12679	ANDRETTI ST	143.79	14.38	28.47	186.64
1204	292035007	8	684277	12707	ANDRETTI ST	611.62	61.16	121.10	793.88
1205	292041001	1	684277	12727	SUNNYMEADOWS DR	372.88	37.29	73.83	484.00
1206	292041008	8	684277	12651	SUNNYMEADOWS DR	198.63	19.86	39.33	257.82
1207	292041009	9	684277	12641	SUNNYMEADOWS DR	98.99	9.90	19.60	128.48
1208	292041019	8	684277	12531	SUNNYMEADOWS DR	372.88	37.29	73.83	484.00
1209	292042008	1	684277	12596	MEADOWGATE CIR	309.16	30.92	61.21	401.28
1210	292042017	9	684277	12692	SUNNYMEADOWS DR	493.99	49.40	97.81	641.20
1211	292043004	0	684277	12581	SOFTWIND DR	215.70	21.57	42.71	279.98
1212	292043016	1	684277	12614	SHADYBEND DR	378.50	37.85	74.94	491.28
1213	292044003	2	684277	12595	VALLEY MEADOWS DR	71.43	7.14	14.14	92.70
1214	292045002	4	684277	12552	VALLEY MEADOWS DR	155.12	15.51	30.71	201.34
1215	292045004	6	684277	12570	VALLEY MEADOWS DR	378.50	37.85	74.94	491.28
1216	292051008	9	684277	12655	SHADYBEND DR	372.88	37.29	73.83	484.00
1217	292051009	0	684277	12643	SHADYBEND DR	218.91	21.89	43.34	284.14
1218	292051010	0	684277	12627	SHADYBEND DR	106.44	10.64	21.07	138.14

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

Column Totals	2,003,753.76	200,377.97	396,739.88	2,600,843.48
Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
1219	292051016	6	684277	23265	PARK VALLEY DR	577.32	57.73	114.31	749.36
1220	292051019	9	684277	23290	MERRYGROVE CIR	158.99	15.90	31.48	206.36
1221	292051025	4	684277	23260	DEWDROP CIR	378.50	37.85	74.94	491.28
1222	292051030	8	684277	23295	DEWDROP CIR	477.72	47.77	94.59	620.08
1223	292052008	2	684277	12661	SOFTWIND DR	493.99	49.40	97.81	641.20
1224	292053010	6	684277	12701	VALLEY MEADOWS DR	372.88	37.29	73.83	484.00
1225	292053012	8	684277	12679	VALLEY MEADOWS DR	281.34	28.13	55.70	365.16
1226	292054013	2	684277	12650	VALLEY MEADOWS DR	493.99	49.40	97.81	641.20
1227	292061008	0	684277	12869	SUNNYMEADOWS DR	155.12	15.51	30.71	201.34
1228	292061024	4	684277	12850	PENSKE ST	342.22	34.22	67.76	444.20
1229	292063009	7	684277	12843	ANDRETTI ST	150.20	15.02	29.74	194.96
1230	292072004	0	684277	12937	SUNNYMEADOWS DR	438.34	43.83	86.79	568.96
1231	292072005	1	684277	12943	SUNNYMEADOWS DR	378.50	37.85	74.94	491.28
1232	292072008	4	684277	12967	SUNNYMEADOWS DR	378.50	37.85	74.94	491.28
1233	292072010	5	684277	12981	SUNNYMEADOWS DR	378.50	37.85	74.94	491.28
1234	292072019	4	684277	12910	ADELIN AVE	123.86	12.39	24.53	160.78
1235	292072024	8	684277	12923	ADELIN AVE	321.68	32.17	63.69	417.54
1236	292072029	3	684277	12983	ADELIN AVE	264.22	26.42	52.32	342.96
1237	292081007	1	684277	12765	SHADYBEND DR	921.67	92.17	182.49	1196.32
1238	292082001	8	684277	12860	SUNNYMEADOWS DR	378.50	37.85	74.94	491.28
1239	292082007	4	684277	12898	SUNNYMEADOWS DR	372.88	37.29	73.83	484.00
1240	292082014	0	684277	12769	MEADBURY DR	378.50	37.85	74.94	491.28
1241	292082016	2	684277	12749	MEADBURY DR	50.00	5.00	9.90	64.90
1242	292083002	2	684277	23268	BROOKHAVEN DR	58.99	5.90	11.68	76.56
1243	292083013	2	684277	23301	OLD VALLEY DR	158.99	15.90	31.48	206.36
1244	292083014	3	684277	23289	OLD VALLEY DR	372.88	37.29	73.83	484.00
1245	292084010	2	684277	12867	VALLEY SPRINGS DR	202.57	20.26	40.11	262.94
1246	292084013	5	684277	23301	BROOKHAVEN DR	378.50	37.85	74.94	491.28
1247	292091001	6	684277	12794	SUNNYGLEN DR	378.50	37.85	74.94	491.28

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
1248	292091020	3	684277	23419	VALLEY RANCH DR	167.26	16.73	33.12	217.10
1249	292092009	7	684277	12940	VALLEY SPRINGS DR	372.88	37.29	73.83	484.00
1250	292092020	6	684277	12829	GLENMERE DR	375.63	37.56	74.37	487.56
1251	292092022	8	684277	12816	GLENMERE DR	361.80	36.18	71.64	469.62
1252	292092026	2	684277	12870	GLENMERE DR	485.05	48.51	96.04	629.60
1253	292092033	8	684277	12951	SUNNYGLEN DR	372.88	37.29	73.83	484.00
1254	292092034	9	684277	12939	SUNNYGLEN DR	372.88	37.29	73.83	484.00
1255	292092042	6	684277	12821	SUNNYGLEN DR	128.99	12.90	25.54	167.42
1256	292092045	9	684277	23421	OLD VALLEY DR	378.50	37.85	74.94	491.28
1257	292092050	3	684277	23349	OLD VALLEY DR	102.24	10.22	20.24	132.70
1258	292092051	4	684277	23343	OLD VALLEY DR	477.72	47.77	94.59	620.08
1259	292093003	4	684277	23440	OLD VALLEY DR	372.88	37.29	73.83	484.00
1260	292093004	5	684277	23454	OLD VALLEY DR	472.19	47.22	93.49	612.90
1261	292094001	5	684277	12773	SOFTWIND DR	378.50	37.85	74.94	491.28
1262	292110150	0	684277	12726	LATEEN DR	181.43	18.14	35.92	235.48
1263	292110204	4	684277	12717	ARGO PL	372.88	37.29	73.83	484.00
1264	292112007	6	684277	23700	GAMMA ST	378.50	37.85	74.94	491.28
1265	292113002	4	684277	12729	GORHAM ST	372.88	37.29	73.83	484.00
1266	292113018	9	684277	12744	GORHAM ST	128.50	12.85	25.44	166.78
1267	292113020	0	684277	12731	DREW CT	215.41	21.54	42.65	279.60
1268	292113021	1	684277	12721	DREW CT	477.72	47.77	94.59	620.08
1269	292113022	2	684277	12709	DREW CT	372.88	37.29	73.83	484.00
1270	292113028	8	684277	12644	DREW CT	252.18	25.22	49.93	327.32
1271	292113031	0	684277	12682	DREW CT	372.88	37.29	73.83	484.00
1272	292113042	0	684277	12681	FOXDALE DR	227.64	22.76	45.07	295.46
1273	292121002	9	684277	12865	GORHAM ST	378.50	37.85	74.94	491.28
1274	292122002	2	684277	12844	CROSSMONT PL	277.59	27.76	54.96	360.30
1275	292122009	9	684277	12843	FOXDALE DR	320.68	32.07	63.50	416.24
1276	292122010	9	684277	12829	FOXDALE DR	76.43	7.64	15.13	99.20

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

Column Totals	2,003,753.76	200,377.97	396,739.88	2,600,843.48
Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
1277	292123006	9	684277	12791	ALONA ST	477.72	47.77	94.59	620.08
1278	292124008	4	684277	12850	ALONA ST	372.88	37.29	73.83	484.00
1279	292126003	5	684277	12823	LATEEN DR	372.88	37.29	73.83	484.00
1280	292126004	6	684277	12813	LATEEN DR	357.55	35.76	70.80	464.10
1281	292126012	3	684277	12800	FOXDALE DR	222.88	22.29	44.13	289.30
1282	292126015	6	684277	12840	FOXDALE DR	372.88	37.29	73.83	484.00
1283	292127002	7	684277	12675	CROSSMONT PL	415.62	41.56	82.29	539.46
1284	292127004	9	684277	23615	DAMIAN ST	376.96	37.70	74.64	489.30
1285	292127005	0	684277	23597	DAMIAN ST	71.43	7.14	14.14	92.70
1286	292127008	3	684277	23561	DAMIAN ST	206.74	20.67	40.93	268.34
1287	292127012	6	684277	12820	GORHAM ST	378.50	37.85	74.94	491.28
1288	292127014	8	684277	12844	GORHAM ST	372.88	37.29	73.83	484.00
1289	292131009	7	684277	12980	ALONA ST	486.54	48.65	96.33	631.52
1290	292131010	7	684277	12994	ALONA ST	50.00	5.00	9.90	64.90
1291	292132006	7	684277	23662	MYSTIC CT	136.73	13.67	27.07	177.46
1292	292132011	1	684277	23663	MYSTIC CT	493.99	49.40	97.81	641.20
1293	292133002	6	684277	12908	CROSSMONT PL	310.92	31.09	61.56	403.56
1294	292133009	3	684277	12935	FOXDALE DR	378.50	37.85	74.94	491.28
1295	292133012	5	684277	12895	FOXDALE DR	76.17	7.62	15.08	98.86
1296	292134003	0	684277	12910	GORHAM ST	105.12	10.51	20.81	136.44
1297	292134010	6	684277	12935	CROSSMONT PL	75.16	7.52	14.88	97.56
1298	292134011	7	684277	12925	CROSSMONT PL	270.99	27.10	53.66	351.74
1299	292135007	7	684277	13111	GORHAM ST	130.00	13.00	25.74	168.74
1300	292135008	8	684277	13095	GORHAM ST	385.23	38.52	76.28	500.02
1301	292135010	9	684277	13071	GORHAM ST	118.16	11.82	23.40	153.38
1302	292135015	4	684277	13001	GORHAM ST	253.47	25.35	50.19	329.00
1303	292135016	5	684277	12991	GORHAM ST	372.88	37.29	73.83	484.00
1304	292151009	9	684277	12695	SHAFFER CT	378.50	37.85	74.94	491.28
1305	292151010	9	684277	12700	SHAFFER CT	485.05	48.51	96.04	629.60

**MORENO VALLEY Tax Roll Listing 2019
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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
1306	292151020	8	684277	23939	GAMMA ST	195.28	19.53	38.67	253.48
1307	292151021	9	684277	23927	GAMMA ST	372.88	37.29	73.83	484.00
1308	292151029	7	684277	23761	GAMMA ST	372.88	37.29	73.83	484.00
1309	292151032	9	684277	12660	ARGO PL	218.07	21.81	43.18	283.06
1310	292151041	7	684277	12786	ARGO PL	378.50	37.85	74.94	491.28
1311	292152005	8	684277	23750	GAMMA ST	493.99	49.40	97.81	641.20
1312	292152012	4	684277	23852	GAMMA ST	385.23	38.52	76.28	500.02
1313	292152017	9	684277	23908	GAMMA ST	372.88	37.29	73.83	484.00
1314	292152027	8	684277	23771	DONCASTER DR	372.88	37.29	73.83	484.00
1315	292152028	9	684277	23755	DONCASTER DR	365.53	36.55	72.37	474.44
1316	292152030	0	684277	23721	DONCASTER DR	113.86	11.39	22.55	147.80
1317	292181008	1	684277	23854	HEMLOCK AVE	372.88	37.29	73.83	484.00
1318	292181018	0	684277	23892	HEMLOCK AVE	353.08	35.31	69.91	458.30
1319	292181027	8	684277	12151	DEERWOOD LN	372.88	37.29	73.83	484.00
1320	292181029	0	684277	12177	DEERWOOD LN	378.50	37.85	74.94	491.28
1321	292181033	3	684277	12225	DEERWOOD LN	62.40	6.24	12.36	81.00
1322	292182003	9	684277	12168	DEERWOOD LN	342.14	34.21	67.74	444.08
1323	292191006	0	684277	12058	POUTOUS CT	261.18	26.12	51.71	339.00
1324	292191010	3	684277	12022	POUTOUS CT	385.23	38.52	76.28	500.02
1325	292191017	0	684277	12079	WEBB ST	263.16	26.32	52.11	341.58
1326	292192016	2	684277	12118	WEBB ST	372.88	37.29	73.83	484.00
1327	292192020	5	684277	12068	WEBB ST	297.50	29.75	58.91	386.16
1328	292193018	7	684277	12076	DEERWOOD LN	359.90	35.99	71.26	467.14
1329	292201004	8	684277	23570	GARY CT	343.17	34.32	67.95	445.44
1330	292201005	9	684277	23584	GARY CT	314.47	31.45	62.27	408.18
1331	292201006	0	684277	23660	GARY CT	169.94	16.99	33.65	220.58
1332	292202001	8	684277	12121	ZINNIA ST	372.88	37.29	73.83	484.00
1333	292202031	5	684277	12081	ZINNIA ST	378.50	37.85	74.94	491.28
1334	292202032	6	684277	23596	JUDGE WARD CT	378.50	37.85	74.94	491.28

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Customers with Invoice Item Dates in 2018**

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
1335	292202042	5	684277	12110	GRAHAM ST	724.92	72.49	143.53	940.94
1336	292202046	9	684277	12134	GRAHAM ST	378.50	37.85	74.94	491.28
1337	292203007	7	684277	12134	ZINNIA ST	372.88	37.29	73.83	484.00
1338	292203012	1	684277	12063	BAYLESS ST	207.64	20.76	41.11	269.50
1339	292205002	8	684277	12110	BAYLESS ST	372.88	37.29	73.83	484.00
1340	292205005	1	684277	12062	BAYLESS ST	238.16	23.82	47.16	309.14
1341	292205015	0	684277	12121	SWEGLES LN	186.43	18.64	36.91	241.98
1342	292206005	4	684277	12051	POUTOUS CT	372.88	37.29	73.83	484.00
1343	292206007	6	684277	12067	POUTOUS CT	493.99	49.40	97.81	641.20
1344	292206009	8	684277	12078	SWEGLES LN	278.50	27.85	55.14	361.48
1345	292206011	9	684277	12056	SWEGLES LN	96.89	9.69	19.18	125.76
1346	292207001	3	684277	12124	POUTOUS CT	378.50	37.85	74.94	491.28
1347	292212001	9	684277	12130	ZINNIA ST	372.88	37.29	73.83	484.00
1348	292212005	3	684277	12178	ZINNIA ST	381.58	38.16	75.55	495.28
1349	292212019	6	684277	12181	SWEGLES LN	376.96	37.70	74.64	489.30
1350	292213027	6	684277	12131	ZINNIA ST	301.73	30.17	59.74	391.64
1351	292221005	1	684277	23603	HEMLOCK AVE	372.88	37.29	73.83	484.00
1352	292221006	2	684277	23621	HEMLOCK AVE	378.50	37.85	74.94	491.28
1353	292222007	6	684277	23675	HEMLOCK AVE	71.43	7.14	14.14	92.70
1354	292222014	2	684277	23705	HEMLOCK AVE	71.43	7.14	14.14	92.70
1355	292222027	4	684277	23569	DAVID LN	204.24	20.42	40.44	265.10
1356	292222032	8	684277	23511	DAVID LN	493.99	49.40	97.81	641.20
1357	292230002	6	684277	12410	GRAHAM ST	346.03	34.60	68.51	449.14
1358	292271001	2	684277	12017	BUCKTHORN DR	71.43	7.14	14.14	92.70
1359	292272004	8	684277	12046	RACKET CT	96.20	9.62	19.05	124.86
1360	292272005	9	684277	12036	RACKET CT	238.16	23.82	47.16	309.14
1361	292272006	0	684277	12030	RACKET CT	238.16	23.82	47.16	309.14
1362	292272008	2	684277	12029	RACKET CT	385.23	38.52	76.28	500.02
1363	292272014	7	684277	12078	BUCKTHORN DR	378.50	37.85	74.94	491.28

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Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
1364	2960210017		684277	13011	BAGATELLE ST	486.54	48.65	96.33	631.52
1365	2960210028		684277	13023	BAGATELLE ST	378.50	37.85	74.94	491.28
1366	2960220054		684277	13049	KOCHI DR	320.70	32.07	63.50	416.26
1367	2960240016		684277	23152	LENA ST	310.33	31.03	61.44	402.80
1368	2960240016		684277	23152	LENA ST	310.33	31.03	61.44	402.80
1369	2960240049		684277	23190	LENA ST	378.50	37.85	74.94	491.28
1370	2960250152		684277	23226	MELINDA CT	279.78	27.98	55.40	363.16
1371	2960250196		684277	23215	MELINDA CT	350.69	35.07	69.44	455.20
1372	2960310030		684277	13143	BAGATELLE ST	493.99	49.40	97.81	641.20
1373	2960310106		684277	13211	BAGATELLE ST	62.03	6.20	12.28	80.50
1374	2960310139		684277	23048	DRACAEA AVE	493.99	49.40	97.81	641.20
1375	2960320077		684277	13177	KOCHI DR	378.50	37.85	74.94	491.28
1376	2960330070		684277	13214	KOCHI DR	258.50	25.85	51.18	335.52
1377	2960330124		684277	13211	ADELIN AVE	486.54	48.65	96.33	631.52
1378	2960330157		684277	13165	ADELIN AVE	372.88	37.29	73.83	484.00
1379	2960330168		684277	13151	ADELIN AVE	372.88	37.29	73.83	484.00
1380	2960340017		684277	23244	DRACAEA AVE	477.72	47.77	94.59	620.08
1381	2960340062		684277	23188	DRACAEA AVE	227.33	22.73	45.01	295.06
1382	2960340116		684277	23161	SHIDAY CT	378.50	37.85	74.94	491.28
1383	2960340215		684277	23202	SHIDAY CT	378.50	37.85	74.94	491.28
1384	2960340248		684277	23160	SHIDAY CT	372.88	37.29	73.83	484.00
1385	2960340303		684277	23201	DENVER CT	365.38	36.54	72.35	474.26
1386	2960340336		684277	23231	DENVER CT	355.06	35.51	70.30	460.86
1387	2960340358		684277	23226	DENVER CT	239.40	23.94	47.40	310.74
1388	2960340402		684277	23160	DENVER CT	378.50	37.85	74.94	491.28
1389	2960410064		684277	13065	TIERRA CANYON DR	371.41	37.14	73.54	482.08
1390	2960410163		684277	23291	LENA ST	193.37	19.34	38.29	251.00
1391	2960410217		684277	13062	VALLEY SPRINGS DR	493.99	49.40	97.81	641.20
1392	2960420276		684277	13038	TIERRA CANYON DR	252.68	25.27	50.03	327.98

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

Column Totals	2,003,753.76	200,377.97	396,739.88	2,600,843.48
Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
1393	296042029	8	684277	13010	TIERRA CANYON DR	348.78	34.88	69.06	452.72
1394	296044002	9	684277	13067	ALEXIS DR	91.14	9.11	18.05	118.30
1395	296052001	3	684277	23290	VIDA CT	378.50	37.85	74.94	491.28
1396	296052005	7	684277	23338	VIDA CT	493.99	49.40	97.81	641.20
1397	296052022	2	684277	23365	PARK LANE CT	379.64	37.96	75.17	492.76
1398	296052023	3	684277	23353	PARK LANE CT	372.88	37.29	73.83	484.00
1399	296052032	1	684277	23326	DRACAEA AVE	372.88	37.29	73.83	484.00
1400	296052033	2	684277	23338	DRACAEA AVE	378.50	37.85	74.94	491.28
1401	296052036	5	684277	23380	DRACAEA AVE	346.70	34.67	68.65	450.02
1402	296052048	6	684277	13189	TIERRA CANYON DR	372.88	37.29	73.83	484.00
1403	296052049	7	684277	13179	TIERRA CANYON DR	395.26	39.53	78.26	513.04
1404	296053003	8	684277	13163	PAVILLION CT	477.72	47.77	94.59	620.08
1405	296053004	9	684277	13240	TIERRA CANYON DR	235.00	23.50	46.53	305.02
1406	296053010	4	684277	13130	TIERRA CANYON DR	51.98	5.20	10.29	67.46
1407	296071014	4	684277	13064	SUNLIT CT	361.80	36.18	71.64	469.62
1408	296071019	9	684277	13116	SUNLIT CT	347.58	34.76	68.82	451.16
1409	296072008	2	684277	13092	SUNBIRD DR	50.00	5.00	9.90	64.90
1410	296072013	6	684277	13093	GOLDFINCH ST	378.50	37.85	74.94	491.28
1411	296072015	8	684277	13067	GOLDFINCH ST	486.54	48.65	96.33	631.52
1412	296072016	9	684277	13053	GOLDFINCH ST	386.54	38.65	76.53	501.72
1413	296072019	2	684277	13023	GOLDFINCH ST	321.68	32.17	63.69	417.54
1414	296073004	1	684277	13035	LARKHAVEN DR	372.88	37.29	73.83	484.00
1415	296073009	6	684277	13192	GOLDFINCH ST	385.23	38.52	76.28	500.02
1416	296073016	2	684277	13062	GOLDFINCH ST	378.50	37.85	74.94	491.28
1417	296074005	5	684277	13104	LARKHAVEN DR	503.03	50.30	99.60	652.92
1418	296074015	4	684277	13004	LARKHAVEN DR	357.70	35.77	70.82	464.28
1419	296081007	9	684277	13161	SUNLIT CT	378.50	37.85	74.94	491.28
1420	296083002	0	684277	13138	SUNBIRD DR	378.50	37.85	74.94	491.28
1421	296083022	8	684277	23658	DRACAEA AVE	372.88	37.29	73.83	484.00

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
1422	296083029	5	684277	23707	WHITEOWL CT	79.13	7.91	15.67	102.70
1423	296083035	0	684277	23634	WHITEOWL CT	99.85	9.99	19.77	129.60
1424	296083036	1	684277	23648	WHITEOWL CT	378.50	37.85	74.94	491.28
1425	296083044	8	684277	13183	GOLDFINCH ST	372.88	37.29	73.83	484.00
1426	296083045	9	684277	13173	GOLDFINCH ST	486.76	48.68	96.38	631.82
1427	296084007	8	684277	13184	LARKHAVEN DR	493.99	49.40	97.81	641.20
1428	296091001	4	684277	13013	RUNNING DEER RD	372.88	37.29	73.83	484.00
1429	296091004	7	684277	13049	RUNNING DEER RD	40.00	4.00	7.92	51.92
1430	296091008	1	684277	13097	RUNNING DEER RD	378.50	37.85	74.94	491.28
1431	296092001	7	684277	23794	ELYCE CT	372.88	37.29	73.83	484.00
1432	296092004	0	684277	23834	ELYCE CT	472.99	47.30	93.65	613.94
1433	296092005	1	684277	23848	ELYCE CT	76.67	7.67	15.18	99.52
1434	296092010	5	684277	23845	ELYCE CT	321.68	32.17	63.69	417.54
1435	296092012	7	684277	23817	ELYCE CT	158.00	15.80	31.28	205.08
1436	296092014	9	684277	23793	ELYCE CT	102.08	10.21	20.21	132.50
1437	296092015	0	684277	23792	HUTTON CT	356.37	35.64	70.56	462.56
1438	296092016	1	684277	23806	HUTTON CT	257.03	25.70	50.89	333.62
1439	296092021	5	684277	23872	HUTTON CT	493.99	49.40	97.81	641.20
1440	296092026	0	684277	23819	HUTTON CT	372.88	37.29	73.83	484.00
1441	296101003	6	684277	13157	RUNNING DEER RD	321.68	32.17	63.69	417.54
1442	296103006	5	684277	23806	DRACAEA AVE	372.88	37.29	73.83	484.00
1443	296103007	6	684277	23792	DRACAEA AVE	112.06	11.21	22.19	145.46
1444	296103009	8	684277	23805	WOLCOTT DR	378.50	37.85	74.94	491.28
1445	296103010	8	684277	23815	WOLCOTT DR	140.29	14.03	27.78	182.10
1446	296103015	3	684277	23865	WOLCOTT DR	385.23	38.52	76.28	500.02
1447	296103018	6	684277	23840	CUSHENBURY DR	493.99	49.40	97.81	641.20
1448	296103021	8	684277	23810	CUSHENBURY DR	493.99	49.40	97.81	641.20
1449	296111007	1	684277	23583	DRACAEA AVE	378.50	37.85	74.94	491.28
1450	296111009	3	684277	13269	SUNFIELD DR	363.73	36.37	72.02	472.12

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
1451	296111013	6	684277	13332	SUNFLOWER CT	371.41	37.14	73.54	482.08
1452	296111014	7	684277	13314	SUNFLOWER CT	242.03	24.20	47.92	314.14
1453	296111015	8	684277	13296	SUNFLOWER CT	372.36	37.24	73.73	483.32
1454	296111016	9	684277	13286	SUNFLOWER CT	493.99	49.40	97.81	641.20
1455	296111017	0	684277	13284	SUNFLOWER CT	537.44	53.74	106.41	697.58
1456	296111020	2	684277	13305	SUNFLOWER CT	372.88	37.29	73.83	484.00
1457	296111024	6	684277	13363	SUNFLOWER CT	372.88	37.29	73.83	484.00
1458	296112001	8	684277	13370	SUNFIELD DR	243.02	24.30	48.12	315.44
1459	296112004	1	684277	13340	SUNFIELD DR	367.78	36.78	72.82	477.38
1460	296112006	3	684277	13320	SUNFIELD DR	372.88	37.29	73.83	484.00
1461	296112025	0	684277	13311	LARKHAVEN DR	429.57	42.96	85.06	557.58
1462	296112029	4	684277	13351	LARKHAVEN DR	173.16	17.32	34.29	224.76
1463	296112031	5	684277	13372	FIELDCREST CT	182.91	18.29	36.22	237.42
1464	296122004	2	684277	13455	SUNFLOWER CT	121.89	12.19	24.13	158.20
1465	296122005	3	684277	13439	SUNFLOWER CT	615.02	61.50	121.77	798.28
1466	296123011	1	684277	13415	SUNSWEPT CT	345.44	34.54	68.40	448.38
1467	296123012	2	684277	13403	SUNSWEPT CT	321.68	32.17	63.69	417.54
1468	296123019	9	684277	13428	SUNSWEPT CT	486.54	48.65	96.33	631.52
1469	296123023	2	684277	13435	FIELDCREST CT	158.99	15.90	31.48	206.36
1470	296124004	8	684277	23577	SUNCREST AVE	372.88	37.29	73.83	484.00
1471	296124010	3	684277	23655	SUNCREST AVE	385.23	38.52	76.28	500.02
1472	296126001	1	684277	13370	LARKHAVEN DR	59.12	5.91	11.71	76.74
1473	296126004	4	684277	13400	LARKHAVEN DR	347.50	34.75	68.81	451.06
1474	296126008	8	684277	13448	LARKHAVEN DR	378.50	37.85	74.94	491.28
1475	296126009	9	684277	13460	LARKHAVEN DR	378.50	37.85	74.94	491.28
1476	296126010	9	684277	13474	LARKHAVEN DR	341.56	34.16	67.63	443.34
1477	296131001	7	684277	13261	RUNNING DEER RD	73.19	7.32	14.49	95.00
1478	296131002	8	684277	13275	RUNNING DEER RD	378.50	37.85	74.94	491.28
1479	296131003	9	684277	13289	RUNNING DEER RD	378.50	37.85	74.94	491.28

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Customers with Invoice Item Dates in 2018**

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
1480	296132003	2	684277	13365	RUNNING DEER RD	23.22	2.32	4.60	30.14
1481	296133015	6	684277	23807	DRACAEA AVE	372.88	37.29	73.83	484.00
1482	296134001	6	684277	23987	DRACAEA AVE	378.50	37.85	74.94	491.28
1483	296134003	8	684277	23955	DRACAEA AVE	164.88	16.49	32.65	214.02
1484	296134005	0	684277	23923	DRACAEA AVE	571.57	57.16	113.17	741.90
1485	296134007	2	684277	23891	DRACAEA AVE	351.52	35.15	69.60	456.26
1486	296134008	3	684277	23890	DEERFERN AVE	602.45	60.25	119.29	781.98
1487	296134011	5	684277	23922	DEERFERN AVE	378.50	37.85	74.94	491.28
1488	296134014	8	684277	13326	RUNNING HORSE DR	372.88	37.29	73.83	484.00
1489	296135008	6	684277	13324	DEER PARK DR	248.38	24.84	49.18	322.40
1490	296135014	1	684277	23909	DOE CT	277.38	27.74	54.92	360.04
1491	296135017	4	684277	13418	RUNNING DEER RD	164.90	16.49	32.65	214.04
1492	296141005	2	684277	23829	SUNCREST AVE	372.88	37.29	73.83	484.00
1493	296141008	5	684277	23789	SUNCREST AVE	372.88	37.29	73.83	484.00
1494	296142002	2	684277	23770	SUNCREST AVE	272.88	27.29	54.03	354.20
1495	296142004	4	684277	23790	SUNCREST AVE	107.30	10.73	21.25	139.28
1496	296142009	9	684277	23781	ANTLER CT	372.88	37.29	73.83	484.00
1497	296142010	9	684277	23771	ANTLER CT	359.08	35.91	71.10	466.08
1498	296143007	0	684277	23830	SUNCREST AVE	372.88	37.29	73.83	484.00
1499	296143010	2	684277	23860	SUNCREST AVE	372.88	37.29	73.83	484.00
1500	296144003	9	684277	13475	RUNNING HORSE DR	372.88	37.29	73.83	484.00
1501	296145010	8	684277	23956	SUNCREST AVE	378.50	37.85	74.94	491.28
1502	296145021	8	684277	13432	RUNNING HORSE DR	368.28	36.83	72.92	478.02
1503	296151004	2	684277	23133	DUNHILL DR	372.88	37.29	73.83	484.00
1504	296151016	3	684277	13580	PLATO DR	264.34	26.43	52.34	343.10
1505	296151018	5	684277	13588	PLATO DR	345.78	34.58	68.46	448.82
1506	296151024	0	684277	13615	COPE CT	537.44	53.74	106.41	697.58
1507	296152006	7	684277	23184	DUNHILL DR	323.70	32.37	64.09	420.16
1508	296152012	2	684277	23162	SWEENEY DR	378.50	37.85	74.94	491.28

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
1509	296153001	5	684277	23153	SWEENEY DR	621.04	62.10	122.97	806.10
1510	296161006	5	684277	13697	PLATO DR	371.41	37.14	73.54	482.08
1511	296161016	4	684277	23245	DUNHILL DR	493.99	49.40	97.81	641.20
1512	296161020	7	684277	23210	BAY AVE	243.16	24.32	48.15	315.62
1513	296161028	5	684277	13690	RENA CT	331.68	33.17	65.67	430.52
1514	296161038	4	684277	13736	KRISTINA CT	367.88	36.79	72.84	477.50
1515	296161041	6	684277	13706	KRISTINA CT	238.16	23.82	47.16	309.14
1516	296161045	0	684277	13699	KRISTINA CT	493.99	49.40	97.81	641.20
1517	296161046	1	684277	13707	KRISTINA CT	333.56	33.36	66.05	432.96
1518	296161048	3	684277	13727	KRISTINA CT	378.50	37.85	74.94	491.28
1519	296161051	5	684277	13621	COPE CT	71.64	7.16	14.18	92.98
1520	296161060	3	684277	13660	COPE CT	372.88	37.29	73.83	484.00
1521	296161062	5	684277	13652	COPE CT	378.50	37.85	74.94	491.28
1522	296161064	7	684277	13644	COPE CT	372.88	37.29	73.83	484.00
1523	296161068	1	684277	13637	PLATO DR	378.50	37.85	74.94	491.28
1524	296161069	2	684277	13653	BURD CT	385.23	38.52	76.28	500.02
1525	296163010	4	684277	23149	BAY AVE	363.16	36.32	71.91	471.38
1526	296172002	5	684277	23269	SWEENEY DR	321.68	32.17	63.69	417.54
1527	296172007	0	684277	23302	ZITEO CT	68.16	6.82	13.50	88.48
1528	296173003	9	684277	23313	ZITEO CT	71.43	7.14	14.14	92.70
1529	296174007	6	684277	13606	NAGAI DR	71.43	7.14	14.14	92.70
1530	296174016	4	684277	13529	PATTILYNN DR	301.89	30.19	59.77	391.84
1531	296174024	1	684277	13593	PATTILYNN DR	71.43	7.14	14.14	92.70
1532	296174026	3	684277	13609	PATTILYNN DR	485.05	48.51	96.04	629.60
1533	296174030	6	684277	13641	PATTILYNN DR	372.88	37.29	73.83	484.00
1534	296174035	1	684277	13681	PATTILYNN DR	372.88	37.29	73.83	484.00
1535	296175008	0	684277	23428	CHALLIS CT	382.94	38.29	75.82	497.04
1536	296175012	3	684277	23460	CHALLIS CT	378.50	37.85	74.94	491.28
1537	296175013	4	684277	23468	CHALLIS CT	85.12	8.51	16.85	110.48

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Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
1538	296175027	7	684277	23405	CHALLIS CT	378.50	37.85	74.94	491.28
1539	296175029	9	684277	23389	CHALLIS CT	172.30	17.23	34.12	223.64
1540	296175038	7	684277	23424	ROLANDA DR	457.88	45.79	90.66	594.32
1541	296175040	8	684277	23440	ROLANDA DR	320.07	32.01	63.37	415.44
1542	296175044	2	684277	23472	ROLANDA DR	378.50	37.85	74.94	491.28
1543	296175048	6	684277	23487	ROLANDA DR	353.80	35.38	70.05	459.22
1544	296175054	1	684277	23439	ROLANDA DR	378.09	37.81	74.86	490.76
1545	296175054	1	684277	23439	ROLANDA DR	378.09	37.81	74.86	490.76
1546	296175061	7	684277	23383	ROLANDA DR	247.03	24.70	48.91	320.64
1547	296175068	4	684277	13370	CHIANTE CT	503.03	50.30	99.60	652.92
1548	296175081	5	684277	23474	YEE ST	372.88	37.29	73.83	484.00
1549	296175082	6	684277	23482	YEE ST	378.50	37.85	74.94	491.28
1550	296181004	5	684277	23220	BAY AVE	485.05	48.51	96.04	629.60
1551	296181009	0	684277	13721	PATTILYNN DR	386.68	38.67	76.56	501.90
1552	296181010	0	684277	13715	PATTILYNN DR	176.20	17.62	34.89	228.70
1553	296181011	1	684277	13705	PATTILYNN DR	405.09	40.51	80.21	525.80
1554	296181011	1	684277	13705	PATTILYNN DR	405.09	40.51	80.21	525.80
1555	296182007	1	684277	13710	PATTILYNN DR	336.68	33.67	66.66	437.00
1556	296183008	5	684277	23379	YEE ST	372.88	37.29	73.83	484.00
1557	296183019	5	684277	23468	DOMEST	360.58	36.06	71.40	468.04
1558	296183020	5	684277	23474	DOMEST	97.26	9.73	19.26	126.24
1559	296183022	7	684277	13677	CASPIAN WAY	372.88	37.29	73.83	484.00
1560	296183023	8	684277	13687	CASPIAN WAY	123.22	12.32	24.40	159.94
1561	296184004	4	684277	23239	BAY AVE	71.43	7.14	14.14	92.70
1562	296184006	6	684277	23255	BAY AVE	238.16	23.82	47.16	309.14
1563	296184009	9	684277	23277	BAY AVE	372.58	37.26	73.77	483.60
1564	296185004	7	684277	23373	DOMEST	379.64	37.96	75.17	492.76
1565	296185005	8	684277	23381	DOMEST	376.96	37.70	74.64	489.30
1566	296185010	2	684277	23425	DOMEST	378.50	37.85	74.94	491.28

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
1567	296185022	3	684277	13690	CASPIAN WAY	372.88	37.29	73.83	484.00
1568	296185023	4	684277	13680	CASPIAN WAY	31.20	3.12	6.18	40.50
1569	296185026	7	684277	13650	CASPIAN WAY	372.88	37.29	73.83	484.00
1570	296185028	9	684277	13630	CASPIAN WAY	385.23	38.52	76.28	500.02
1571	296185032	2	684277	23456	BAY AVE	42.50	4.25	8.42	55.16
1572	296185033	3	684277	23430	BAY AVE	378.50	37.85	74.94	491.28
1573	296185035	5	684277	23396	BAY AVE	291.20	29.12	57.66	377.98
1574	296191004	6	684277	13785	CHAGALL CT	378.50	37.85	74.94	491.28
1575	296191005	7	684277	13773	CHAGALL CT	378.50	37.85	74.94	491.28
1576	296211003	6	684277	14038	CASPIAN WAY	161.64	16.16	32.00	209.80
1577	296212001	7	684277	23301	BAY AVE	357.79	35.78	70.84	464.40
1578	296212002	8	684277	23309	BAY AVE	102.24	10.22	20.24	132.70
1579	296212009	5	684277	13811	KARENLYNN DR	177.57	17.76	35.16	230.48
1580	296212012	7	684277	13834	KARENLYNN DR	415.62	41.56	82.29	539.46
1581	296212035	8	684277	23280	DYNASTY CT	378.50	37.85	74.94	491.28
1582	296212036	9	684277	23283	DYNASTY CT	378.50	37.85	74.94	491.28
1583	296212040	2	684277	23235	DYNASTY CT	378.50	37.85	74.94	491.28
1584	296212045	7	684277	13817	GUCCI DR	378.50	37.85	74.94	491.28
1585	296212050	1	684277	23330	PROTEA CT	135.23	13.52	26.78	175.52
1586	296212056	7	684277	23370	DIZA ST	378.50	37.85	74.94	491.28
1587	296213004	3	684277	13771	CASPIAN WAY	200.84	20.08	39.77	260.68
1588	296213009	8	684277	13818	CASPIAN WAY	372.88	37.29	73.83	484.00
1589	296213018	6	684277	13890	CASPIAN WAY	361.80	36.18	71.64	469.62
1590	296221005	9	684277	13905	CHAGALL CT	486.54	48.65	96.33	631.52
1591	296222015	1	684277	23306	GERBERA ST	372.88	37.29	73.83	484.00
1592	296222022	7	684277	23364	GERBERA ST	378.50	37.85	74.94	491.28
1593	296222028	3	684277	23490	GERBERA ST	365.98	36.60	72.46	475.04
1594	296223006	6	684277	23445	GERBERA ST	375.48	37.55	74.35	487.38
1595	296223026	4	684277	13963	KALAHARI CT	235.02	23.50	46.53	305.04

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

Column Totals	2,003,753.76	200,377.97	396,739.88	2,600,843.48
Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
1596	296231010	4	684277	13545	NEW HAVEN DR	71.43	7.14	14.14	92.70
1597	296231012	6	684277	13541	NEW HAVEN DR	303.53	30.35	60.10	393.98
1598	296231013	7	684277	13533	NEW HAVEN DR	372.88	37.29	73.83	484.00
1599	296232015	2	684277	13609	GOLDEN EAGLE CT	158.99	15.90	31.48	206.36
1600	296232020	6	684277	13588	GOLDEN EAGLE CT	378.50	37.85	74.94	491.28
1601	296232026	2	684277	13553	RUNDELL DR	378.50	37.85	74.94	491.28
1602	296233007	8	684277	13542	SYLMAR DR	378.50	37.85	74.94	491.28
1603	296233009	0	684277	13510	SYLMAR DR	58.57	5.86	11.60	76.02
1604	296233010	0	684277	13511	SYLMAR DR	172.99	17.30	34.25	224.54
1605	296233019	9	684277	13625	SYLMAR DR	372.88	37.29	73.83	484.00
1606	296233026	5	684277	13584	RUNDELL DR	372.88	37.29	73.83	484.00
1607	296241002	8	684277	23530	BAY AVE	378.50	37.85	74.94	491.28
1608	296241004	0	684277	23556	BAY AVE	77.08	7.71	15.26	100.04
1609	296241014	9	684277	13675	NEW HAVEN DR	126.68	12.67	25.08	164.42
1610	296241017	2	684277	13643	NEW HAVEN DR	372.88	37.29	73.83	484.00
1611	296241018	3	684277	13631	NEW HAVEN DR	378.50	37.85	74.94	491.28
1612	296243005	7	684277	13670	GOLDEN EAGLE CT	378.50	37.85	74.94	491.28
1613	296243006	8	684277	13680	GOLDEN EAGLE CT	385.23	38.52	76.28	500.02
1614	296243011	2	684277	13738	GOLDEN EAGLE CT	378.50	37.85	74.94	491.28
1615	296243018	9	684277	13721	RUNDELL DR	372.88	37.29	73.83	484.00
1616	296244007	2	684277	13670	SYLMAR DR	462.27	46.23	91.53	600.02
1617	296251003	0	684277	23767	BETTS PL	55.12	5.51	10.91	71.54
1618	296251005	2	684277	23779	BETTS PL	24.24	2.42	4.80	31.46
1619	296251015	1	684277	23839	BETTS PL	372.88	37.29	73.83	484.00
1620	296252005	5	684277	13592	ROCKCREST DR	357.79	35.78	70.84	464.40
1621	296252016	5	684277	13526	ROCKCREST DR	311.41	31.14	61.66	404.20
1622	296252016	5	684277	13526	ROCKCREST DR	311.41	31.14	61.66	404.20
1623	296252017	6	684277	13522	ROCKCREST DR	345.36	34.54	68.38	448.28
1624	296252018	7	684277	13512	ROCKCREST DR	372.88	37.29	73.83	484.00

MORENO VALLEY Tax Roll Listing 2019
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Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
1625	296253010	2	684277	23796	NANWOOD DR	207.09	20.71	41.00	268.80
1626	296253021	2	684277	23795	NANWOOD DR	371.40	37.14	73.54	482.08
1627	296253028	9	684277	23841	NANWOOD DR	378.50	37.85	74.94	491.28
1628	296253034	4	684277	23838	BETTS PL	71.43	7.14	14.14	92.70
1629	296253037	7	684277	23818	BETTS PL	372.88	37.29	73.83	484.00
1630	296253040	9	684277	23800	BETTS PL	248.16	24.82	49.14	322.12
1631	296262005	6	684277	13700	SUNRAY CT	372.88	37.29	73.83	484.00
1632	296262008	9	684277	13666	SUNRAY CT	378.50	37.85	74.94	491.28
1633	296262016	6	684277	13711	SUNRAY CT	372.88	37.29	73.83	484.00
1634	296262021	0	684277	13734	SUNBRIGHT DR	378.50	37.85	74.94	491.28
1635	296262025	4	684277	13686	SUNBRIGHT DR	372.88	37.29	73.83	484.00
1636	296263008	2	684277	13721	ROCKCREST DR	321.68	32.17	63.69	417.54
1637	296263011	4	684277	13748	SCHAYLEEN CT	378.50	37.85	74.94	491.28
1638	296263029	1	684277	13735	SCHAYLEEN CT	486.54	48.65	96.33	631.52
1639	296263030	1	684277	13747	SCHAYLEEN CT	493.99	49.40	97.81	641.20
1640	296271003	2	684277	23531	BAY AVE	372.88	37.29	73.83	484.00
1641	296271006	5	684277	13761	GOLDEN EAGLE CT	71.43	7.14	14.14	92.70
1642	296271012	0	684277	13847	GOLDEN EAGLE CT	71.43	7.14	14.14	92.70
1643	296271018	6	684277	13801	BELLCREST CT	336.98	33.70	66.72	437.40
1644	296272002	4	684277	23529	NEW ENGLAND DR	378.50	37.85	74.94	491.28
1645	296272016	7	684277	23719	NEW ENGLAND DR	493.99	49.40	97.81	641.20
1646	296272017	8	684277	23733	NEW ENGLAND DR	321.68	32.17	63.69	417.54
1647	296273001	6	684277	13848	GOLDEN EAGLE CT	372.88	37.29	73.83	484.00
1648	296273002	7	684277	13838	GOLDEN EAGLE CT	336.25	33.63	66.58	436.46
1649	296273017	1	684277	13805	SYLMAR DR	241.26	24.13	47.77	313.16
1650	296273020	3	684277	13835	SYLMAR DR	385.23	38.52	76.28	500.02
1651	296273023	6	684277	13865	SYLMAR DR	345.71	34.57	68.45	448.72
1652	296274001	9	684277	23748	NEW ENGLAND DR	372.88	37.29	73.83	484.00
1653	296274003	1	684277	23720	NEW ENGLAND DR	385.23	38.52	76.28	500.02

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Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
1654	296291001	2	684277	23761	BAY AVE	171.61	17.16	33.98	222.74
1655	296291003	4	684277	23781	BAY AVE	373.26	37.33	73.91	484.50
1656	296292003	7	684277	23779	NEW ENGLAND DR	372.88	37.29	73.83	484.00
1657	296293005	2	684277	13836	ROCKCREST DR	79.57	7.96	15.76	103.28
1658	304041001	9	684277	14661	MUIRFIELD ST	341.98	34.20	67.71	443.88
1659	304041004	2	684277	14625	MUIRFIELD ST	372.88	37.29	73.83	484.00
1660	304041012	9	684277	14529	MUIRFIELD ST	71.43	7.14	14.14	92.70
1661	304041020	6	684277	14558	MUIRFIELD ST	71.43	7.14	14.14	92.70
1662	304041023	9	684277	28060	BELLETERRE AVE	242.20	24.22	47.96	314.38
1663	304042011	1	684277	14650	MUIRFIELD ST	295.00	29.50	58.41	382.90
1664	304042027	6	684277	14685	MUIRFIELD ST	372.88	37.29	73.83	484.00
1665	304052002	4	684277	28369	HILLSDALE AVE	372.88	37.29	73.83	484.00
1666	304052014	5	684277	28231	BELLETERRE AVE	50.78	5.08	10.05	65.90
1667	304052020	0	684277	28161	BELLETERRE AVE	258.59	25.86	51.20	335.64
1668	304053002	7	684277	14516	MEDINAH WAY	121.62	12.16	24.08	157.86
1669	304053013	7	684277	28290	BELLETERRE AVE	368.72	36.87	73.01	478.60
1670	304053021	4	684277	28386	BELLETERRE AVE	456.16	45.62	90.32	592.10
1671	304060001	8	684277	28398	BELLETERRE AVE	372.88	37.29	73.83	484.00
1672	304060004	1	684277	28434	BELLETERRE AVE	272.88	27.29	54.03	354.20
1673	304060009	6	684277	28494	BELLETERRE AVE	378.50	37.85	74.94	491.28
1674	304070007	5	684277	28620	HIGHPOINT AVE	322.88	32.29	63.93	419.10
1675	304070010	7	684277	28652	HIGHPOINT AVE	378.50	37.85	74.94	491.28
1676	304070022	8	684277	28631	HIGHPOINT AVE	378.50	37.85	74.94	491.28
1677	304070026	2	684277	28671	HIGHPOINT AVE	471.87	47.19	93.43	612.48
1678	304070030	5	684277	28715	CARNOUSTIE AVE	193.70	19.37	38.35	251.42
1679	304070054	7	684277	28530	HIGHPOINT AVE	372.88	37.29	73.83	484.00
1680	304080009	8	684277	14900	STEPHENSON ST	306.20	30.62	60.63	397.44
1681	304080012	0	684277	14876	STEPHENSON ST	298.69	29.87	59.14	387.70
1682	304080014	2	684277	14860	STEPHENSON ST	61.21	6.12	12.12	79.44

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Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
1683	304090034	1	684277	14880	PETE DYE ST	372.88	37.29	73.83	484.00
1684	304090040	6	684277	14940	PETE DYE ST	355.96	35.60	70.48	462.04
1685	30410023	2	684277	14888	NORFOLK CIR	268.50	26.85	53.16	348.50
1686	30410032	0	684277	14879	PROVINCE CIR	289.58	28.96	57.34	375.88
1687	30410039	7	684277	14862	PROVINCE CIR	71.43	7.14	14.14	92.70
1688	30411005	9	684277	28698	AVALON AVE	372.88	37.29	73.83	484.00
1689	304121003	8	684277	28530	FOREST OAKS WAY	378.50	37.85	74.94	491.28
1690	304121009	4	684277	28470	FOREST OAKS WAY	372.88	37.29	73.83	484.00
1691	304122006	4	684277	28319	FOREST OAKS WAY	486.54	48.65	96.33	631.52
1692	304122008	6	684277	28339	FOREST OAKS WAY	493.99	49.40	97.81	641.20
1693	304122016	3	684277	28419	FOREST OAKS WAY	378.50	37.85	74.94	491.28
1694	304122018	5	684277	28439	FOREST OAKS WAY	486.54	48.65	96.33	631.52
1695	304122027	3	684277	28529	FOREST OAKS WAY	129.70	12.97	25.68	168.34
1696	304122028	4	684277	28539	FOREST OAKS WAY	220.13	22.01	43.59	285.72
1697	304122031	6	684277	15079	BAY HILL DR	93.16	9.32	18.45	120.92
1698	304131013	8	684277	28401	CHAMPIONSHIP DR	493.99	49.40	97.81	641.20
1699	304131015	0	684277	28417	CHAMPIONSHIP DR	203.34	20.33	40.26	263.92
1700	304131028	2	684277	28521	CHAMPIONSHIP DR	168.96	16.90	33.45	219.30
1701	304132018	6	684277	28394	CHAMPIONSHIP DR	372.88	37.29	73.83	484.00
1702	304132020	7	684277	28378	CHAMPIONSHIP DR	376.96	37.70	74.64	489.30
1703	304151018	5	684277	28154	CHAMPIONSHIP DR	214.67	21.47	42.51	278.64
1704	304152020	9	684277	15408	ZAHARIAS ST	147.50	14.75	29.21	191.46
1705	304152022	1	684277	15424	ZAHARIAS ST	415.62	41.56	82.29	539.46
1706	304152032	0	684277	15345	DUNES WAY	372.88	37.29	73.83	484.00
1707	304161002	1	684277	15759	TURNBERRY ST	529.28	52.93	104.80	687.00
1708	304161009	8	684277	15689	TURNBERRY ST	121.68	12.17	24.09	157.94
1709	304161016	4	684277	15615	TURNBERRY ST	378.50	37.85	74.94	491.28
1710	304163001	6	684277	15650	TURNBERRY ST	243.16	24.32	48.15	315.62
1711	304163003	8	684277	15670	TURNBERRY ST	493.99	49.40	97.81	641.20

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
1712	304163004	9	684277	15680	TURNBERRY ST	372.88	37.29	73.83	484.00
1713	304163007	2	684277	27190	OCEAN DUNES ST	420.24	42.02	83.21	545.46
1714	304163007	2	684277	27190	OCEAN DUNES ST	420.24	42.02	83.21	545.46
1715	304164005	3	684277	27185	OCEAN DUNES ST	439.52	43.95	87.02	570.48
1716	304164007	5	684277	15710	TURNBERRY ST	372.88	37.29	73.83	484.00
1717	304171003	3	684277	27202	ENGLEWOOD ST	260.05	26.01	51.49	337.54
1718	304171010	9	684277	27286	ENGLEWOOD ST	76.25	7.63	15.10	98.98
1719	304171015	4	684277	27346	ENGLEWOOD ST	25.12	2.51	4.97	32.60
1720	304171020	8	684277	27406	ENGLEWOOD ST	486.54	48.65	96.33	631.52
1721	304172007	0	684277	15675	TOURAINÉ CT	222.71	22.27	44.10	289.08
1722	304172008	1	684277	15665	TOURAINÉ CT	372.88	37.29	73.83	484.00
1723	304172011	3	684277	15664	BIARRITZ CT	372.88	37.29	73.83	484.00
1724	304172014	6	684277	15694	BIARRITZ CT	485.05	48.51	96.04	629.60
1725	304172016	8	684277	15714	BIARRITZ CT	378.50	37.85	74.94	491.28
1726	304172049	8	684277	15695	CONNEMARA CT	372.88	37.29	73.83	484.00
1727	304172055	3	684277	15660	PININA CT	493.99	49.40	97.81	641.20
1728	304181005	6	684277	15605	OLIVER ST	372.88	37.29	73.83	484.00
1729	304182013	6	684277	15720	OLIVER ST	102.88	10.29	20.37	133.54
1730	304182018	1	684277	15770	OLIVER ST	225.20	22.52	44.59	292.30
1731	304183011	7	684277	15705	OLIVER ST	325.45	32.55	64.44	422.44
1732	304183029	4	684277	15713	PRESTANCIA CT	477.72	47.77	94.59	620.08
1733	304183030	4	684277	15705	PRESTANCIA CT	156.44	15.64	30.97	203.04
1734	304190004	3	684277	27704	CALLANDER ST	351.46	35.15	69.59	456.20
1735	304190009	8	684277	15751	CAMINO REAL	517.03	51.70	102.37	671.10
1736	304190015	3	684277	15823	CAMINO REAL	92.03	9.20	18.22	119.44
1737	304190016	4	684277	15835	CAMINO REAL	437.85	43.79	86.70	568.34
1738	304190017	5	684277	15847	CAMINO REAL	372.88	37.29	73.83	484.00
1739	304190027	4	684277	27704	EL CABRILLO CT	388.56	38.86	76.94	504.36
1740	304190032	8	684277	27705	CALLANDER ST	109.27	10.93	21.64	141.84

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1741	304190058	2	684277	27910	DE LA VALLE DR	50.00	5.00	9.90	64.90
1742	304190079	1	684277	15861	LA COSTA ALTA DR	43.16	4.32	8.55	56.02
1743	304201004	6	684277	27260	OCEAN DUNES ST	341.80	34.18	67.68	443.66
1744	304201024	4	684277	27460	OCEAN DUNES ST	347.84	34.78	68.87	451.48
1745	304202004	9	684277	27435	OCEAN DUNES ST	76.43	7.64	15.13	99.20
1746	304202018	2	684277	27295	OCEAN DUNES ST	355.45	35.55	70.38	461.38
1747	304202019	3	684277	27285	OCEAN DUNES ST	357.06	35.71	70.70	463.46
1748	304202021	4	684277	27265	OCEAN DUNES ST	251.10	25.11	49.72	325.92
1749	304212001	7	684277	15830	OLIVER ST	372.88	37.29	73.83	484.00
1750	304213003	2	684277	15863	OLIVER ST	297.86	29.79	58.98	386.62
1751	304213008	7	684277	27429	LAUREL CT	378.50	37.85	74.94	491.28
1752	304213010	8	684277	27409	LAUREL CT	160.07	16.01	31.69	207.76
1753	304220002	3	684277	15883	CAMINO REAL	609.73	60.97	120.73	791.42
1754	304220020	9	684277	27645	CORTE DEL SOL	372.88	37.29	73.83	484.00
1755	304220030	8	684277	27742	CORTE DEL SOL	378.50	37.85	74.94	491.28
1756	304220034	2	684277	27694	CORTE DEL SOL	486.54	48.65	96.33	631.52
1757	304220041	8	684277	27610	CORTE DEL SOL	325.50	32.55	64.45	422.50
1758	304220043	0	684277	27621	PALA LOMA CT	385.23	38.52	76.28	500.02
1759	304220044	1	684277	27622	PALA LOMA CT	74.52	7.45	14.75	96.72
1760	304220049	6	684277	15899	ALISA VIEJO CT	366.01	36.60	72.47	475.08
1761	304220057	3	684277	15899	BONITA VERDE CT	372.88	37.29	73.83	484.00
1762	304220058	4	684277	15909	BONITA VERDE CT	372.88	37.29	73.83	484.00
1763	304220065	0	684277	15900	BONITA VERDE CT	421.95	42.20	83.55	547.70
1764	304231004	9	684277	28615	DORAL WAY	385.23	38.52	76.28	500.02
1765	304232004	2	684277	28605	FOREST OAKS WAY	191.68	19.17	37.95	248.80
1766	304232005	3	684277	28615	FOREST OAKS WAY	292.01	29.20	57.82	379.02
1767	304290037	2	684277	14525	EVEREST WAY	357.79	35.78	70.84	464.40
1768	304300010	7	684277	14805	SAN JACINTO DR	372.88	37.29	73.83	484.00
1769	304300055	8	684277	14778	SAN JACINTO DR	559.94	55.99	110.87	726.80

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
1770	304300061	3	684277	14838	SAN JACINTO DR	240.72	24.07	47.66	312.44
1771	304320012	1	684277	14715	GRANDVIEW DR	372.88	37.29	73.83	484.00
1772	304320015	4	684277	14703	GRANDVIEW DR	155.12	15.51	30.71	201.34
1773	304320033	0	684277	14696	GRANDVIEW DR	378.50	37.85	74.94	491.28
1774	304320047	3	684277	14752	EAGLEHEAD MOUNTAIN DR	238.16	23.82	47.16	309.14
1775	304330002	3	684277	27952	DE LA VALLE DR	93.09	9.31	18.43	120.82
1776	304330008	9	684277	15904	LA COSTA ALTA DR	170.70	17.07	33.80	221.56
1777	304330017	7	684277	15951	LA COSTA ALTA DR	148.51	14.85	29.40	192.76
1778	304330023	2	684277	15891	LA COSTA ALTA DR	493.99	49.40	97.81	641.20
1779	304330025	4	684277	15871	LA COSTA ALTA DR	206.49	20.65	40.89	268.02
1780	304340002	4	684277	16004	LA COSTA ALTA DR	493.99	49.40	97.81	641.20
1781	304340005	7	684277	16034	LA COSTA ALTA DR	378.50	37.85	74.94	491.28
1782	304340010	1	684277	16061	LA COSTA ALTA DR	493.99	49.40	97.81	641.20
1783	304340019	0	684277	27674	VIA SOL ARRIVA	109.25	10.93	21.63	141.80
1784	304350006	9	684277	15469	ADOBE WAY	486.54	48.65	96.33	631.52
1785	304350015	7	684277	15379	ADOBE WAY	331.74	33.17	65.68	430.58
1786	304350042	1	684277	15388	LA CASA DR	372.88	37.29	73.83	484.00
1787	304350047	6	684277	15424	LA CASA DR	486.54	48.65	96.33	631.52
1788	304360009	3	684277	15289	LA PALMA WAY	378.50	37.85	74.94	491.28
1789	304360010	3	684277	15279	LA PALMA WAY	331.77	33.18	65.69	430.64
1790	304360018	1	684277	15288	LA PALMA WAY	354.70	35.47	70.23	460.40
1791	304360028	0	684277	15291	ADOBE WAY	256.00	25.60	50.69	332.28
1792	304360029	1	684277	15283	ADOBE WAY	69.98	7.00	13.86	90.84
1793	304360031	2	684277	15267	ADOBE WAY	746.32	74.63	147.77	968.72
1794	304360031	2	684277	15287	ADOBE WAY	746.32	74.63	147.77	968.72
1795	304360032	3	684277	15244	ADOBE WAY	346.03	34.60	68.51	449.14
1796	304360034	5	684277	15260	ADOBE WAY	372.88	37.29	73.83	484.00
1797	304360037	8	684277	15284	ADOBE WAY	121.28	12.13	24.01	157.42
1798	304360045	5	684277	15348	ADOBE WAY	348.52	34.85	69.01	452.38

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

Column Totals	2,003,753.76	200,377.97	396,739.88	2,600,843.48
Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
1799	304360048	8	684277	15372	ADOBE WAY	348.80	34.88	69.06	452.74
1800	304370004	9	684277	15199	LA PALMA WAY	493.99	49.40	97.81	641.20
1801	304370006	1	684277	15179	LA PALMA WAY	357.79	35.78	70.84	464.40
1802	304370012	6	684277	27740	VIA DE LA REAL	372.88	37.29	73.83	484.00
1803	304370019	3	684277	27810	VIA DE LA REAL	268.22	26.82	53.11	348.14
1804	304370027	0	684277	27890	VIA DE LA REAL	72.87	7.29	14.43	94.58
1805	304370029	2	684277	27910	VIA DE LA REAL	208.16	20.82	41.22	270.20
1806	304370041	2	684277	15236	ADOBE WAY	372.88	37.29	73.83	484.00
1807	304370043	4	684277	27769	RANCHO BAJA	122.16	12.22	24.19	158.56
1808	304370046	7	684277	15261	ADOBE WAY	38.16	3.82	7.56	49.54
1809	304370049	0	684277	15239	ADOBE WAY	100.12	10.01	19.82	129.94
1810	304370056	6	684277	27797	VIA DE LA REAL	372.88	37.29	73.83	484.00
1811	304382001	3	684277	28313	BIRDIE ST	343.14	34.31	67.94	445.38
1812	304382008	0	684277	28383	BIRDIE ST	376.83	37.68	74.61	489.12
1813	304383008	3	684277	15036	BAY HILL DR	657.00	65.70	130.09	852.78
1814	304384004	2	684277	28380	EAGLE ST	366.81	36.68	72.63	476.12
1815	304391008	8	684277	15014	PINE VALLEY CIR	180.56	18.06	35.75	234.36
1816	304391010	9	684277	28465	EAGLE ST	67.03	6.70	13.27	87.00
1817	304391025	3	684277	14927	FAIRWAY CIR	385.23	38.52	76.28	500.02
1818	304391027	5	684277	14910	FAIRWAY CIR	372.88	37.29	73.83	484.00
1819	304391032	9	684277	14889	CHAMPIONSHIP DR	71.43	7.14	14.14	92.70
1820	304392004	7	684277	28558	EAGLE ST	357.79	35.78	70.84	464.40
1821	304392005	8	684277	28548	EAGLE ST	366.23	36.62	72.51	475.36
1822	304392007	0	684277	28528	EAGLE ST	378.50	37.85	74.94	491.28
1823	304392016	8	684277	28428	EAGLE ST	357.79	35.78	70.84	464.40
1824	304400002	9	684277	15591	HAMMETT CT	372.88	37.29	73.83	484.00
1825	304400008	5	684277	15531	HAMMETT CT	372.88	37.29	73.83	484.00
1826	304401008	8	684277	15583	TURNBERRY ST	372.88	37.29	73.83	484.00
1827	304401010	9	684277	15603	TURNBERRY ST	477.72	47.77	94.59	620.08

**MORENO VALLEY Tax Roll Listing 2019
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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
1828	304402002	5	684277	27164	ARLA ST	372.88	37.29	73.83	484.00
1829	304402008	1	684277	27236	ARLA ST	86.43	8.64	17.11	112.18
1830	304403006	2	684277	27193	ARLA ST	100.48	10.05	19.90	130.42
1831	304403009	5	684277	27157	ARLA ST	152.03	15.20	30.10	197.32
1832	304410005	3	684277	27308	ARLA ST	372.88	37.29	73.83	484.00
1833	304410009	7	684277	27356	ARLA ST	465.31	46.53	92.13	603.96
1834	304410012	9	684277	27392	ARLA ST	378.50	37.85	74.94	491.28
1835	304410016	3	684277	27440	ARLA ST	493.99	49.40	97.81	641.20
1836	304411011	1	684277	27373	ARLA ST	147.02	14.70	29.11	190.82
1837	304421002	4	684277	29130	ALICANTE AVE	141.11	14.11	27.94	183.16
1838	304421018	9	684277	14550	VASCO WAY	378.50	37.85	74.94	491.28
1839	304421041	9	684277	14570	VASCO WAY	363.74	36.37	72.02	472.12
1840	304422016	0	684277	29057	ALICANTE AVE	200.00	20.00	39.60	259.60
1841	304422025	8	684277	29051	BARCELONA CT	36.29	3.63	7.19	47.10
1842	304430004	4	684277	28904	AVALON AVE	344.80	34.48	68.27	447.54
1843	304430005	5	684277	28912	AVALON AVE	378.50	37.85	74.94	491.28
1844	304433023	0	684277	29044	CANTABRIA CT	372.88	37.29	73.83	484.00
1845	304440004	5	684277	28800	AVALON AVE	321.68	32.17	63.69	417.54
1846	304440005	6	684277	28808	AVALON AVE	382.80	38.28	75.79	496.86
1847	304441013	6	684277	14846	TOLEDO CT	238.16	23.82	47.16	309.14
1848	304441015	8	684277	14866	TOLEDO CT	378.50	37.85	74.94	491.28
1849	304441020	2	684277	14847	TOLEDO CT	239.26	23.93	47.37	310.56
1850	304441024	6	684277	14858	CATALINA CT	173.50	17.35	34.35	225.20
1851	304441035	6	684277	14884	CADIZ CT	372.88	37.29	73.83	484.00
1852	304441042	2	684277	14861	SEVILLA CT	402.24	40.22	79.64	522.10
1853	304441048	8	684277	14850	SEVILLA CT	372.88	37.29	73.83	484.00
1854	304450003	5	684277	28578	FOREST OAKS WAY	378.50	37.85	74.94	491.28
1855	304450005	7	684277	28594	FOREST OAKS WAY	372.88	37.29	73.83	484.00
1856	304450008	0	684277	14915	RYDER WAY	372.88	37.29	73.83	484.00

MORENO VALLEY Tax Roll Listing 2019
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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
1857	3044500211	1	684277	28615	AVALON AVE	269.94	26.99	53.45	350.38
1858	3044500309	9	684277	28636	AVALON AVE	357.79	35.78	70.84	464.40
1859	3044500310	0	684277	28642	AVALON AVE	71.43	7.14	14.14	92.70
1860	3044510050	0	684277	14880	RYDER WAY	372.88	37.29	73.83	484.00
1861	3044510061	1	684277	14870	RYDER WAY	238.16	23.82	47.16	309.14
1862	3044700060	0	684277	14589	MILESTONE ST	385.23	38.52	76.28	500.02
1863	3044700125	5	684277	27570	LAFAYETTE WAY	372.88	37.29	73.83	484.00
1864	3044710128	8	684277	27645	LAFAYETTE WAY	372.88	37.29	73.83	484.00
1865	3044710205	5	684277	27564	ROSEMONT CT	430.46	43.05	85.23	558.74
1866	3044710304	4	684277	27688	ROSEMONT CT	272.88	27.29	54.03	354.20
1867	3044710481	1	684277	27642	ROCKWOOD AVE	137.79	13.78	27.28	178.84
1868	3044710492	2	684277	27656	ROCKWOOD AVE	198.96	19.90	39.39	258.24
1869	3044810053	3	684277	27826	LAFAYETTE WAY	486.54	48.65	96.33	631.52
1870	3044810118	8	684277	14582	PIEDMONT DR	81.45	8.15	16.13	105.72
1871	3044810185	5	684277	14610	SHADY VALLEY WAY	80.33	8.03	15.90	104.26
1872	3044810239	9	684277	27940	ROCKWOOD AVE	372.88	37.29	73.83	484.00
1873	3044820090	0	684277	27767	LAFAYETTE WAY	50.00	5.00	9.90	64.90
1874	3044820122	2	684277	27729	LAFAYETTE WAY	159.88	15.99	31.66	207.52
1875	3044820199	9	684277	14605	ASHTON CT	155.12	15.51	30.71	201.34
1876	3044830169	9	684277	27925	ROCKWOOD AVE	230.46	23.05	45.63	299.14
1877	3044900095	5	684277	27721	ROCKWOOD AVE	73.16	7.32	14.49	94.96
1878	3044900150	0	684277	27706	FAIRMOUNT DR	452.06	45.21	89.51	586.78
1879	3044910087	7	684277	27687	FAIRMOUNT DR	71.43	7.14	14.14	92.70
1880	3044910142	2	684277	14748	WILLOWGROVE PL	367.25	36.73	72.72	476.70
1881	3044910153	3	684277	14760	WILLOWGROVE PL	71.43	7.14	14.14	92.70
1882	3044910197	7	684277	14808	WILLOWGROVE PL	372.88	37.29	73.83	484.00
1883	3044910229	9	684277	14807	GREEN LAWN DR	486.54	48.65	96.33	631.52
1884	3044910296	6	684277	27698	AUBURN LN	368.98	36.90	73.06	478.94
1885	3044910340	0	684277	27758	AUBURN LN	326.74	32.67	64.69	424.10

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Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
1886	304492010	1	684277	27677	AUBURN LN	372.88	37.29	73.83	484.00
1887	304500003	9	684277	14661	SHADY VALLEY WAY	193.62	19.36	38.34	251.32
1888	304500020	4	684277	27927	CRESCENT CT	76.43	7.64	15.13	99.20
1889	304500029	3	684277	14637	ASTORIA DR	372.88	37.29	73.83	484.00
1890	304501001	0	684277	27953	AUBURN LN	372.88	37.29	73.83	484.00
1891	304501002	1	684277	27941	AUBURN LN	372.88	37.29	73.83	484.00
1892	304501016	4	684277	27808	HASTINGS DR	372.88	37.29	73.83	484.00
1893	304501020	7	684277	27856	HASTINGS DR	357.79	35.78	70.84	464.40
1894	304502005	7	684277	14722	SHADY VALLEY WAY	378.50	37.85	74.94	491.28
1895	304510007	4	684277	27822	GLADSTONE DR	486.54	48.65	96.33	631.52
1896	304510030	4	684277	27777	SPRING GROVE ST	239.07	23.91	47.34	310.32
1897	304510033	7	684277	27630	GLADSTONE DR	756.46	75.65	149.78	981.88
1898	304510038	2	684277	27690	GLADSTONE DR	238.16	23.82	47.16	309.14
1899	304511012	1	684277	14921	MERIDIAN PL	306.20	30.62	60.63	397.44
1900	304511036	3	684277	27824	SPRING GROVE ST	372.88	37.29	73.83	484.00
1901	304511037	4	684277	27836	SPRING GROVE ST	291.20	29.12	57.66	377.98
1902	304512001	4	684277	14995	FAIR MEADOW LN	71.43	7.14	14.14	92.70
1903	304512002	5	684277	14983	FAIR MEADOW LN	372.88	37.29	73.83	484.00
1904	304512003	6	684277	14971	FAIR MEADOW LN	372.88	37.29	73.83	484.00
1905	304512015	7	684277	27631	GLADSTONE DR	372.88	37.29	73.83	484.00
1906	304512016	8	684277	27632	LONGMEADOW CT	372.88	37.29	73.83	484.00
1907	304512018	0	684277	27656	LONGMEADOW CT	372.88	37.29	73.83	484.00
1908	304512021	2	684277	27692	LONGMEADOW CT	609.73	60.97	120.73	791.42
1909	304512025	6	684277	27669	LONGMEADOW CT	529.28	52.93	104.80	687.00
1910	304520002	0	684277	15455	LEGENDARY DR	372.88	37.29	73.83	484.00
1911	304520008	6	684277	27517	SHELLIE WAY	486.54	48.65	96.33	631.52
1912	304520009	7	684277	15470	LEGENDARY DR	378.50	37.85	74.94	491.28
1913	304520014	1	684277	15420	LEGENDARY DR	194.76	19.48	38.56	252.80
1914	304520018	5	684277	15380	LEGENDARY DR	127.09	12.71	25.16	164.96

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Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
1915	304520024	0	684277	15320	LEGENDARY DR	228.45	22.85	45.23	296.52
1916	304520026	2	684277	15300	LEGENDARY DR	372.88	37.29	73.83	484.00
1917	304520027	3	684277	15290	LEGENDARY DR	269.11	26.91	53.28	349.30
1918	304521008	9	684277	27508	JEFFREY CIR	340.26	34.03	67.37	441.66
1919	304521017	7	684277	27504	AUTUMN CIR	220.00	22.00	43.56	285.56
1920	304521020	9	684277	27534	AUTUMN CIR	92.84	9.28	18.38	120.50
1921	304530004	3	684277	15200	LEGENDARY DR	26.27	2.63	5.20	34.10
1922	304531003	5	684277	27700	VIA DE LA REAL	86.67	8.67	17.16	112.50
1923	304540002	2	684277	27755	VIA SONATA	248.15	24.82	49.13	322.10
1924	304540016	5	684277	27895	VIA SONATA	71.43	7.14	14.14	92.70
1925	304541001	4	684277	15104	LA CASA DR	372.88	37.29	73.83	484.00
1926	304550001	2	684277	15371	LA CASA DR	477.72	47.77	94.59	620.08
1927	304550011	1	684277	15289	LA CASA DR	279.74	27.97	55.39	363.10
1928	304550012	2	684277	15279	LA CASA DR	372.88	37.29	73.83	484.00
1929	304560002	4	684277	14855	ARTISAN ST	363.58	36.36	71.99	471.92
1930	304560004	6	684277	14871	ARTISAN ST	486.54	48.65	96.33	631.52
1931	304560016	7	684277	28047	STONEGATE CT	372.88	37.29	73.83	484.00
1932	304560019	0	684277	28071	STONEGATE CT	143.99	14.40	28.51	186.90
1933	304560023	3	684277	14922	ARTISAN ST	372.88	37.29	73.83	484.00
1934	304560033	2	684277	14917	STEPHENSON ST	329.35	32.94	65.21	427.50
1935	304561010	4	684277	14842	ARTISAN ST	486.54	48.65	96.33	631.52
1936	304561011	5	684277	14830	ARTISAN ST	372.69	37.27	73.79	483.74
1937	304561012	6	684277	14818	ARTISAN ST	486.54	48.65	96.33	631.52
1938	304580007	1	684277	15827	HAMMETT CT	372.88	37.29	73.83	484.00
1939	304581008	5	684277	15734	HAMMETT CT	372.88	37.29	73.83	484.00
1940	304590023	6	684277	15990	SAND HILLS CT	149.12	14.91	29.53	193.56
1941	304590031	3	684277	27295	HAMMETT CT	70.52	7.05	13.96	91.52
1942	308251003	8	684277	25172	BRONZE DR	320.82	32.08	63.52	416.42
1943	308251010	4	684277	15738	VISTA DEL MAR ST	486.54	48.65	96.33	631.52

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Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
1944	308251011	5	684277	15730	VISTA DEL MAR ST	378.50	37.85	74.94	491.28
1945	308251012	6	684277	15722	VISTA DEL MAR ST	493.99	49.40	97.81	641.20
1946	308251014	8	684277	15706	VISTA DEL MAR ST	372.88	37.29	73.83	484.00
1947	308252004	2	684277	15796	MESA VERDE DR	81.91	8.19	16.22	106.32
1948	308252014	1	684277	26721	RANCHO BUENA CIR	378.50	37.85	74.94	491.28
1949	308252022	8	684277	26657	PUEBLO VISTA WAY	486.54	48.65	96.33	631.52
1950	308252026	2	684277	26729	PUEBLO VISTA WAY	372.88	37.29	73.83	484.00
1951	308252027	3	684277	26743	PUEBLO VISTA WAY	248.80	24.88	49.26	322.94
1952	308252030	5	684277	15675	VISTA DEL MAR ST	165.58	16.56	32.79	214.92
1953	308252031	6	684277	15683	VISTA DEL MAR ST	372.88	37.29	73.83	484.00
1954	308252039	4	684277	15749	VISTA DEL MAR ST	71.43	7.14	14.14	92.70
1955	308261016	1	684277	26742	SANTA ROSA DR	178.50	17.85	35.34	231.68
1956	308262004	3	684277	26655	SANTA ROSA DR	83.99	8.40	16.63	109.02
1957	308271004	1	684277	15760	AVENIDA DE CIRCO	86.04	8.60	17.04	111.68
1958	308271010	6	684277	26395	SANTA ROSA DR	486.54	48.65	96.33	631.52
1959	308272026	4	684277	15665	MESA VERDE DR	238.16	23.82	47.16	309.14
1960	308272029	7	684277	15695	MESA VERDE DR	372.88	37.29	73.83	484.00
1961	308272030	7	684277	15764	AVENIDA DEL CORAZON	410.48	41.05	81.28	532.80
1962	308272039	6	684277	15758	BELLEZA CIR	357.31	35.73	70.75	463.78
1963	308272044	0	684277	15708	BELLEZA CIR	156.64	15.66	31.01	203.30
1964	308273014	6	684277	26420	SANTA ROSA DR	372.88	37.29	73.83	484.00
1965	308274002	8	684277	15733	AVENIDA DEL CORAZON	302.88	30.29	59.97	393.14
1966	308281005	3	684277	26505	BONITA HEIGHTS DR	372.88	37.29	73.83	484.00
1967	308281020	6	684277	26665	BONITA HEIGHTS AVE	486.54	48.65	96.33	631.52
1968	308281022	8	684277	26695	BONITA HEIGHTS DR	182.29	18.23	36.09	236.60
1969	308281030	5	684277	26595	BONITA HEIGHTS DR	372.88	37.29	73.83	484.00
1970	308282003	4	684277	26650	CALLE LINDA	172.06	17.21	34.07	223.34
1971	308282042	9	684277	26590	CALLE LINDA	379.64	37.96	75.17	492.76
1972	308283004	8	684277	26575	CALLE LINDA	376.18	37.62	74.48	488.28

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

Column Totals	2,003,753.76	200,377.97	396,739.88	2,600,843.48
Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
1973	308283007	1	684277	26605	CALLE LINDA	112.20	11.22	22.22	145.64
1974	308283021	3	684277	26540	BONITA HEIGHTS DR	361.33	36.13	71.54	469.00
1975	308283022	4	684277	26530	BONITA HEIGHTS DR	378.50	37.85	74.94	491.28
1976	308361007	2	684277	26481	THOROUGHNBRED LN	349.75	34.98	69.25	453.98
1977	308362007	5	684277	26428	THOROUGHNBRED LN	267.88	26.79	53.04	347.70
1978	308362014	1	684277	26362	THOROUGHNBRED LN	272.88	27.29	54.03	354.20
1979	308362032	7	684277	26417	OLD ANVIL LN	340.30	34.03	67.38	441.70
1980	308362039	4	684277	26440	OLD ANVIL LN	458.26	45.83	90.74	594.82
1981	308362047	1	684277	15614	HITCHING POST ST	372.88	37.29	73.83	484.00
1982	308362048	2	684277	15604	HITCHING POST ST	372.88	37.29	73.83	484.00
1983	308363001	2	684277	15609	HITCHING POST ST	305.54	30.55	60.50	396.58
1984	308364002	6	684277	15605	SAGE CT	372.88	37.29	73.83	484.00
1985	308364010	3	684277	15685	SAGE CT	336.98	33.70	66.72	437.40
1986	308364016	9	684277	26331	THOROUGHNBRED LN	155.12	15.51	30.71	201.34
1987	308364018	1	684277	26351	THOROUGHNBRED LN	92.88	9.29	18.39	120.56
1988	308364021	3	684277	26381	THOROUGHNBRED LN	721.02	72.10	142.76	935.88
1989	308370021	2	684277	15545	SAGE CT	611.42	61.14	121.06	793.62
1990	308370029	0	684277	26462	SILVERADO CT	443.99	44.40	87.91	576.30
1991	308370032	2	684277	26444	SILVERADO CT	243.79	24.38	48.27	316.44
1992	308371008	4	684277	26461	PRAIRIE LN	245.20	24.52	48.55	318.26
1993	308372002	1	684277	26472	PRAIRIE LN	385.22	38.52	76.27	500.00
1994	308372002	1	684277	26472	PRAIRIE LN	385.22	38.52	76.27	500.00
1995	308372009	8	684277	26402	PRAIRIE LN	378.50	37.85	74.94	491.28
1996	308372012	0	684277	26425	SILVERADO CT	50.00	5.00	9.90	64.90
1997	308372020	7	684277	26481	SILVERADO CT	486.54	48.65	96.33	631.52
1998	308381004	1	684277	26620	SILVERADO CT	163.16	16.32	32.31	211.78
1999	308381007	4	684277	26590	SILVERADO CT	365.38	36.54	72.35	474.26
2000	308381017	3	684277	26492	SILVERADO CT	372.88	37.29	73.83	484.00
2001	308382003	3	684277	15612	LARIAT LN	134.37	13.44	26.61	174.42

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
2002	308382005	5	684277	15592	LARIAT LN	353.26	35.33	69.95	458.54
2003	308382009	9	684277	26489	SILVERADO CT	76.43	7.64	15.13	99.20
2004	308382020	8	684277	15591	BUCKBOARD LN	50.28	5.03	9.96	65.26
2005	308383012	4	684277	15566	BUCKBOARD LN	385.13	38.51	76.26	499.90
2006	308390013	7	684277	16463	COLT WAY	76.43	7.64	15.13	99.20
2007	308390017	1	684277	16503	COLT WAY	335.04	33.50	66.34	434.88
2008	308390020	3	684277	16533	COLT WAY	310.55	31.06	61.49	403.10
2009	308390029	2	684277	16485	DARTMOOR CIR	342.88	34.29	67.89	445.06
2010	308391001	9	684277	26173	STALLION RD	341.98	34.20	67.71	443.88
2011	308400004	9	684277	26261	STALLION RD	466.92	46.69	92.45	606.06
2012	308400008	3	684277	16520	SPIRIT RD	372.88	37.29	73.83	484.00
2013	308400012	6	684277	16486	SPIRIT RD	65.12	6.51	12.89	84.52
2014	308401011	8	684277	16501	SPIRIT RD	372.88	37.29	73.83	484.00
2015	308401022	8	684277	26266	MUSTANG CT	196.42	19.64	38.89	254.94
2016	308401030	5	684277	16424	WELSH CT	255.63	25.56	50.61	331.80
2017	308410002	8	684277	26342	CLYDESDALE LN	136.50	13.65	27.03	177.18
2018	308411004	3	684277	26412	CLYDESDALE LN	372.88	37.29	73.83	484.00
2019	308412002	4	684277	26472	CLYDESDALE LN	307.88	30.79	60.96	399.62
2020	308412012	3	684277	26537	CLYDESDALE LN	372.88	37.29	73.83	484.00
2021	308412014	5	684277	16406	GELDING WAY	76.67	7.67	15.18	99.52
2022	308420004	1	684277	16466	GELDING WAY	372.88	37.29	73.83	484.00
2023	308420024	9	684277	26436	MARE LN	155.12	15.51	30.71	201.34
2024	308431003	4	684277	26307	CLYDESDALE LN	378.50	37.85	74.94	491.28
2025	308451005	8	684277	15397	VIA RIO	372.88	37.29	73.83	484.00
2026	308452001	7	684277	15376	AVENIDA DE PORTUGAL	62.19	6.22	12.31	80.72
2027	308452004	0	684277	15352	AVENIDA DE PORTUGAL	406.84	40.68	80.55	528.06
2028	308452008	4	684277	15320	AVENIDA DE PORTUGAL	372.88	37.29	73.83	484.00
2029	308452009	5	684277	15317	VIA RIO	128.16	12.82	25.38	166.36
2030	308453004	3	684277	26586	CALLE BELDING	372.88	37.29	73.83	484.00

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
2031	308453007	6	684277	26532	CALLE BELDING	346.42	34.64	68.59	449.64
2032	308454012	3	684277	15393	AVENIDA ANILLO	372.88	37.29	73.83	484.00
2033	308454016	7	684277	15382	VIA RIO	176.77	17.68	35.00	229.44
2034	308454021	1	684277	15342	VIA RIO	347.80	34.78	68.86	451.44
2035	308460002	3	684277	26701	CALLE LUNA	196.80	19.68	38.97	255.44
2036	308460006	7	684277	26773	CALLE LUNA	385.23	38.52	76.28	500.02
2037	308460008	9	684277	26809	CALLE LUNA	56.00	5.60	11.09	72.68
2038	308460011	1	684277	26863	CALLE LUNA	372.88	37.29	73.83	484.00
2039	308460013	3	684277	26917	CALLE LUNA	393.44	39.34	77.90	510.68
2040	308460013	3	684277	26917	CALLE LUNA	393.44	39.34	77.90	510.68
2041	308460014	4	684277	26935	CALLE LUNA	21.83	2.18	4.32	28.32
2042	308460018	8	684277	15400	AVENIDA FIESTA	357.79	35.78	70.84	464.40
2043	308461004	8	684277	15344	AVENIDA FIESTA	155.12	15.51	30.71	201.34
2044	308462014	0	684277	15358	VIA LIDO	44.41	4.44	8.79	57.64
2045	308463013	2	684277	26818	CALLE LUNA	222.88	22.29	44.13	289.30
2046	308463018	7	684277	15375	BARONA CT	378.50	37.85	74.94	491.28
2047	308463021	9	684277	15399	BARONA CT	372.88	37.29	73.83	484.00
2048	308470001	3	684277	15336	AVENIDA FIESTA	245.18	24.52	48.55	318.24
2049	308470005	7	684277	15304	AVENIDA FIESTA	171.43	17.14	33.94	222.50
2050	308470018	9	684277	26854	CALLE VEJAR	372.88	37.29	73.83	484.00
2051	308470021	1	684277	15338	VIA MARAVILLA	184.95	18.50	36.62	240.06
2052	308470041	9	684277	15335	VIA MARAVILLA	347.02	34.70	68.71	450.42
2053	308480002	5	684277	17220	CLEVELAND BAY WAY	76.43	7.64	15.13	99.20
2054	308480023	4	684277	26206	CALICO LN	230.46	23.05	45.63	299.14
2055	308481005	1	684277	17110	VIA XAVIER	151.17	15.12	29.93	196.22
2056	308490008	2	684277	26188	PERCHERON CIR	71.43	7.14	14.14	92.70
2057	308490010	3	684277	26207	FILLY LN	371.28	37.13	73.51	481.92
2058	308490011	4	684277	26223	FILLY LN	329.67	32.97	65.28	427.92
2059	308490014	7	684277	16912	FOX TROT LN	372.88	37.29	73.83	484.00

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Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
2060	308491007	4	684277	17020	VIA XAVIER	372.88	37.29	73.83	484.00
2061	308491011	7	684277	17051	CLEVELAND BAY WAY	340.07	34.01	67.33	441.40
2062	308491016	2	684277	16961	CLEVELAND BAY WAY	289.40	28.94	57.30	375.64
2063	308491019	5	684277	26186	FILLY LN	272.88	27.29	54.03	354.20
2064	308500006	0	684277	16768	FOX TROT LN	368.74	36.87	73.01	478.62
2065	308502012	1	684277	16799	FOX TROT LN	378.50	37.85	74.94	491.28
2066	308510001	6	684277	16720	FOX TROT LN	367.95	36.80	72.86	477.60
2067	308511007	5	684277	16655	COLT WAY	347.24	34.72	68.75	450.70
2068	308511016	3	684277	16670	WITHERS WAY	372.88	37.29	73.83	484.00
2069	308511017	4	684277	16654	WITHERS WAY	355.09	35.51	70.31	460.90
2070	308511023	9	684277	16570	WITHERS WAY	372.88	37.29	73.83	484.00
2071	308520002	8	684277	26066	ROJO TIERRA	371.41	37.14	73.54	482.08
2072	308520005	1	684277	26102	ROJO TIERRA	378.50	37.85	74.94	491.28
2073	308520006	2	684277	17149	VIA XAVIER	152.95	15.30	30.29	198.54
2074	308520013	8	684277	26045	SADDLEBRED LN	372.88	37.29	73.83	484.00
2075	308520020	4	684277	17103	TACK LN	218.30	21.83	43.22	283.34
2076	308520037	0	684277	16865	TACK LN	372.88	37.29	73.83	484.00
2077	308521002	1	684277	26087	HOLSTEIN DR	130.97	13.10	25.93	170.00
2078	308521002	1	684277	26087	HOLSTEIN DR	130.97	13.10	25.93	170.00
2079	308522002	4	684277	26065	VIA XAVIER LN	681.09	68.11	134.86	884.06
2080	308522002	4	684277	26065	VIA XAVIER	681.09	68.11	134.86	884.06
2081	308522010	1	684277	26091	BLAZER CT	76.67	7.67	15.18	99.52
2082	308522016	7	684277	26104	HAFLINGER CT	372.88	37.29	73.83	484.00
2083	308522029	9	684277	26118	HOLSTEIN DR	372.88	37.29	73.83	484.00
2084	308530009	6	684277	17217	BRONCO LN	385.23	38.52	76.28	500.02
2085	308530011	7	684277	17229	BRONCO LN	322.88	32.29	63.93	419.10
2086	308530012	8	684277	17235	BRONCO LN	372.88	37.29	73.83	484.00
2087	308530020	5	684277	17283	BRONCO LN	191.40	19.14	37.90	248.44
2088	308530021	6	684277	17289	BRONCO LN	372.88	37.29	73.83	484.00

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
2089	308531002	2	684277	17317	CREMELLO WAY	372.88	37.29	73.83	484.00
2090	308531008	8	684277	17298	BRONCO LN	372.88	37.29	73.83	484.00
2091	308531013	2	684277	26083	ARABIAN CT	172.88	17.29	34.23	224.40
2092	308531014	3	684277	26095	ARABIAN CT	76.43	7.64	15.13	99.20
2093	308531033	0	684277	26094	YEARLING CT	163.16	16.32	32.31	211.78
2094	308531034	1	684277	26082	YEARLING CT	378.50	37.85	74.94	491.28
2095	308531035	2	684277	26070	YEARLING CT	343.76	34.38	68.07	446.20
2096	308531042	8	684277	26067	PINTO CT	357.48	35.75	70.78	464.00
2097	308531045	1	684277	26103	PINTO CT	76.43	7.64	15.13	99.20
2098	308531052	7	684277	26032	PINTO CT	95.19	9.52	18.85	123.56
2099	308540001	9	684277	26130	UNBRIDLED CIR	96.17	9.62	19.04	124.82
2100	308540003	1	684277	26158	UNBRIDLED CIR	155.12	15.51	30.71	201.34
2101	308540004	2	684277	26172	UNBRIDLED CIR	321.68	32.17	63.69	417.54
2102	308540014	1	684277	26189	UNBRIDLED CIR	372.88	37.29	73.83	484.00
2103	308540023	9	684277	26188	CHARISMATIC CT	77.48	7.75	15.34	100.56
2104	308540033	8	684277	26163	CHARISMATIC CT	372.88	37.29	73.83	484.00
2105	308540040	4	684277	26190	SPECTACULAR BID RD	376.18	37.62	74.48	488.28
2106	308540041	5	684277	26204	SPECTACULAR BID RD	345.56	34.56	68.42	448.54
2107	308540047	1	684277	17318	RIVA RIDGE DR	468.08	46.81	92.68	607.56
2108	308541008	9	684277	17291	RIVA RIDGE DR	352.96	35.30	69.89	458.14
2109	308541009	0	684277	17285	RIVA RIDGE DR	222.88	22.29	44.13	289.30
2110	308541010	0	684277	17296	CREMELLO WAY	372.88	37.29	73.83	484.00
2111	308550003	2	684277	26238	CITATION CIR	222.88	22.29	44.13	289.30
2112	308551006	8	684277	17339	RIVA RIDGE DR	372.88	37.29	73.83	484.00
2113	308560001	1	684277	17372	RIVA RIDGE DR	340.37	34.04	67.39	441.80
2114	308560007	7	684277	17429	RIVA RIDGE DR	319.66	31.97	63.29	414.92
2115	308560007	7	684277	17429	RIVA RIDGE DR	319.66	31.97	63.29	414.92
2116	308560023	1	684277	17434	KENTUCKY DERBY DR	243.22	24.32	48.16	315.70
2117	308561006	9	684277	17455	KENTUCKY DERBY DR	372.88	37.29	73.83	484.00

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2118	308561009	2	684277	17491	KENTUCKY DERBY DR	309.07	30.91	61.20	401.18
2119	308570002	3	684277	26970	STORRIE LAKE DR	372.88	37.29	73.83	484.00
2120	308570009	0	684277	27040	STORRIE LAKE DR	384.57	38.46	76.15	499.18
2121	308570010	0	684277	15574	RIO BLANCO TRL	493.99	49.40	97.81	641.20
2122	308570018	8	684277	15670	RIO BLANCO TRL	194.40	19.44	38.49	252.32
2123	308571003	7	684277	27003	STORRIE LAKE DR	372.88	37.29	73.83	484.00
2124	308571009	3	684277	26943	STORRIE LAKE DR	45.00	4.50	8.91	58.40
2125	308572011	7	684277	26915	WINTER PARK PL	372.88	37.29	73.83	484.00
2126	308580003	5	684277	15706	RIO BLANCO TRL	198.30	19.83	39.26	257.38
2127	308580006	8	684277	15742	RIO BLANCO TRL	492.45	49.25	97.51	639.20
2128	308581008	3	684277	26899	NUCIA DR	71.68	7.17	14.19	93.04
2129	308581013	7	684277	26849	NUCIA DR	262.30	26.23	51.94	340.46
2130	308581022	5	684277	15659	PONCHA SPRINGS WAY	326.20	32.62	64.59	423.40
2131	308581023	6	684277	15647	PONCHA SPRINGS WAY	465.31	46.53	92.13	603.96
2132	308582003	1	684277	26864	SNOW CANYON CIR	372.88	37.29	73.83	484.00
2133	308582012	9	684277	26954	SALT MISSIONS CIR	434.73	43.47	86.08	564.28
2134	308582013	0	684277	26964	SALT MISSIONS CIR	30.97	3.10	6.13	40.20
2135	308582039	4	684277	26856	NUCIA DR	302.88	30.29	59.97	393.14
2136	308582041	5	684277	26876	NUCIA DR	369.63	36.96	73.19	479.78
2137	308582048	2	684277	26946	NUCIA DR	385.23	38.52	76.28	500.02
2138	308590004	7	684277	26840	SUGARITE CANYON DR	322.88	32.29	63.93	419.10
2139	308590011	3	684277	26910	SUGARITE CANYON DR	338.96	33.90	67.11	439.96
2140	308591006	2	684277	15814	TWIN LAKES DR	76.67	7.67	15.18	99.52
2141	308592003	2	684277	26954	CIMARRON CANYON DR	372.88	37.29	73.83	484.00
2142	308592008	7	684277	26953	SUGARITE CANYON DR	272.88	27.29	54.03	354.20
2143	308592016	4	684277	26873	SUGARITE CANYON DR	516.26	51.63	102.22	670.10
2144	308592016	4	684277	26873	SUGARITE CANYON DR	516.26	51.63	102.22	670.10
2145	308600001	4	684277	15838	TWIN LAKES DR	71.67	7.17	14.19	93.02
2146	308601004	0	684277	27005	ROCKVALE TER	378.50	37.85	74.94	491.28

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2147	308601005	1	684277	26995	ROCKVALE TER	249.20	24.92	49.34	323.46
2148	308601020	4	684277	26941	CIMARRON CANYON DR	155.12	15.51	30.71	201.34
2149	308620007	2	684277	15863	SULPHUR SPRINGS RD	357.79	35.78	70.84	464.40
2150	308620024	7	684277	15845	ANGEL FIRE CT	347.50	34.75	68.81	451.06
2151	308620039	1	684277	26901	CIMARRON CANYON DR	372.88	37.29	73.83	484.00
2152	308621005	3	684277	26864	CIMARRON CANYON DR	321.68	32.17	63.69	417.54
2153	312031021	5	684277	16061	EBONY AVE	378.50	37.85	74.94	491.28
2154	312031022	6	684277	16049	EBONY AVE	291.20	29.12	57.66	377.98
2155	312031025	9	684277	25264	CEREMONY AVE	372.88	37.29	73.83	484.00
2156	312031028	2	684277	25300	CEREMONY AVE	372.88	37.29	73.83	484.00
2157	312031031	4	684277	25342	CEREMONY AVE	365.58	36.56	72.39	474.52
2158	312033003	5	684277	16146	EBONY AVE	378.50	37.85	74.94	491.28
2159	312033010	1	684277	25344	IVORY AVE	493.99	49.40	97.81	641.20
2160	312033016	7	684277	25331	ORBIT CT	162.22	16.22	32.12	210.56
2161	312033017	8	684277	25319	ORBIT CT	378.50	37.85	74.94	491.28
2162	312033025	5	684277	25343	MAXY DR	179.71	17.97	35.58	233.26
2163	312041008	5	684277	25462	CEREMONY AVE	155.69	15.57	30.83	202.08
2164	312041014	0	684277	16044	NIPPET LN	261.70	26.17	51.82	339.68
2165	312041014	0	684277	16044	NIPPET LN	261.70	26.17	51.82	339.68
2166	312041021	6	684277	16142	NIPPET LN	341.20	34.12	67.56	442.88
2167	312041026	1	684277	16202	NIPPET LN	385.23	38.52	76.28	500.02
2168	312042003	3	684277	25392	MAXY DR	372.88	37.29	73.83	484.00
2169	312042004	4	684277	25404	MAXY DR	64.24	6.42	12.72	83.38
2170	312042007	7	684277	16086	SPACE DR	378.50	37.85	74.94	491.28
2171	312042022	0	684277	16165	NIPPET LN	372.88	37.29	73.83	484.00
2172	312042024	2	684277	16137	NIPPET LN	372.88	37.29	73.83	484.00
2173	312042026	4	684277	16109	NIPPET LN	75.16	7.52	14.88	97.56
2174	312042027	5	684277	16095	NIPPET LN	181.20	18.12	35.88	235.20
2175	312043003	6	684277	25404	ORBIT CT	372.88	37.29	73.83	484.00

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

Column Totals	2,003,753.76	200,377.97	396,739.88	2,600,843.48
Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
2176	312050004	9	684277	16167	ABEDUL ST	21.68	2.17	4.29	28.14
2177	312050005	0	684277	16155	ABEDUL ST	347.50	34.75	68.81	451.06
2178	312050010	4	684277	16095	ABEDUL ST	76.43	7.64	15.13	99.20
2179	312050017	1	684277	16092	ABEDUL ST	372.88	37.29	73.83	484.00
2180	312050020	3	684277	25550	FRENTE CALIENTE	378.50	37.85	74.94	491.28
2181	312050031	3	684277	16218	ABEDUL ST	75.11	7.51	14.87	97.48
2182	312050041	2	684277	16146	AVENIDA DE LORING	372.88	37.29	73.83	484.00
2183	312050043	4	684277	16170	AVENIDA DE LORING	78.69	7.87	15.58	102.14
2184	312061011	9	684277	25642	TONADILLA CIR	71.43	7.14	14.14	92.70
2185	312061014	2	684277	25678	TONADILLA CIR	66.60	6.66	13.19	86.44
2186	312061018	6	684277	25659	TONADILLA CIR	372.88	37.29	73.83	484.00
2187	312061023	0	684277	16135	RANCHO DEL LAGO	385.23	38.52	76.28	500.02
2188	312061027	4	684277	16095	RANCHO DEL LAGO	378.50	37.85	74.94	491.28
2189	312062006	8	684277	25756	LA SALINA PL	378.50	37.85	74.94	491.28
2190	312062011	2	684277	25731	LA SALINA PL	154.60	15.46	30.61	200.66
2191	312063018	2	684277	25527	HONDO BARRANCA	372.88	37.29	73.83	484.00
2192	312071013	2	684277	16180	LA FORTUNA LN	368.98	36.90	73.06	478.94
2193	312071023	1	684277	16185	RANCHO DEL LAGO	378.50	37.85	74.94	491.28
2194	312071024	2	684277	25683	ALPARAS CIR	372.88	37.29	73.83	484.00
2195	312071028	6	684277	16155	RANCHO DEL LAGO	385.23	38.52	76.28	500.02
2196	312071029	7	684277	16145	RANCHO DEL LAGO	493.99	49.40	97.81	641.20
2197	312072006	9	684277	16180	RANCHO DEL LAGO	477.72	47.77	94.59	620.08
2198	312072007	0	684277	16190	RANCHO DEL LAGO	378.50	37.85	74.94	491.28
2199	312072008	1	684277	16200	RANCHO DEL LAGO	147.50	14.75	29.21	191.46
2200	312072022	3	684277	16235	LA FORTUNA LN	381.45	38.15	75.53	495.12
2201	312072023	4	684277	16225	LA FORTUNA LN	486.54	48.65	96.33	631.52
2202	312081002	3	684277	25061	RED MAPLE LN	378.50	37.85	74.94	491.28
2203	312081007	8	684277	25089	RED MAPLE LN	57.70	5.77	11.42	74.88
2204	312081007	8	684277	25089	RED MAPLE LN	57.70	5.77	11.42	74.88

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
2205	312081015	5	684277	16319	SILVERBIRCH RD	76.43	7.64	15.13	99.20
2206	312081016	6	684277	16329	SILVERBIRCH RD	385.23	38.52	76.28	500.02
2207	312081019	9	684277	16359	SILVERBIRCH RD	347.94	34.79	68.89	451.62
2208	312081020	9	684277	16369	SILVERBIRCH RD	75.12	7.51	14.87	97.50
2209	312081027	6	684277	16439	SILVERBIRCH RD	372.88	37.29	73.83	484.00
2210	312081028	7	684277	16449	SILVERBIRCH RD	378.50	37.85	74.94	491.28
2211	312081030	8	684277	16469	SILVERBIRCH RD	278.28	27.83	55.10	361.20
2212	312081032	0	684277	16489	SILVERBIRCH RD	423.48	42.35	83.85	549.68
2213	312081039	7	684277	25095	MORNING DOVE WAY	262.88	26.29	52.05	341.22
2214	312082001	5	684277	16479	HAVENWOOD RD	378.50	37.85	74.94	491.28
2215	312082003	7	684277	16459	HAVENWOOD RD	493.99	49.40	97.81	641.20
2216	312082007	1	684277	16417	HAVENWOOD RD	378.50	37.85	74.94	491.28
2217	312082016	9	684277	25117	MIDDLEBROOK WAY	112.23	11.22	22.22	145.66
2218	312082021	3	684277	25087	MIDDLEBROOK WAY	366.88	36.69	72.64	476.20
2219	312082024	6	684277	16348	SILVERBIRCH RD	71.43	7.14	14.14	92.70
2220	312082028	0	684277	16396	SILVERBIRCH RD	71.43	7.14	14.14	92.70
2221	312082038	9	684277	16469	HAZELWOOD CT	102.03	10.20	20.20	132.42
2222	312082044	4	684277	16407	HAZELWOOD CT	372.88	37.29	73.83	484.00
2223	312082050	9	684277	16350	HAZELWOOD CT	378.50	37.85	74.94	491.28
2224	312082054	3	684277	16396	HAZELWOOD CT	319.40	31.94	63.24	414.58
2225	312083009	6	684277	25119	RED MAPLE LN	376.96	37.70	74.64	489.30
2226	312083010	6	684277	25113	RED MAPLE LN	51.83	5.18	10.26	67.26
2227	312091002	4	684277	25143	RED MAPLE LN	372.88	37.29	73.83	484.00
2228	312091004	6	684277	25153	RED MAPLE LN	36.01	3.60	7.13	46.74
2229	312091011	2	684277	16349	SADDLEBROOK LN	112.26	11.23	22.23	145.72
2230	312091013	4	684277	16369	SADDLEBROOK LN	378.50	37.85	74.94	491.28
2231	312091023	3	684277	16480	HAVENWOOD RD	241.00	24.10	47.72	312.82
2232	312091028	8	684277	16428	HAVENWOOD RD	378.50	37.85	74.94	491.28
2233	312092003	8	684277	25155	MORNING DOVE WAY	372.88	37.29	73.83	484.00

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
2234	312094002	3	684277	25184	MORNING DOVE WAY	372.88	37.29	73.83	484.00
2235	312094009	0	684277	25226	MORNING DOVE WAY	202.84	20.28	40.16	263.28
2236	312094019	9	684277	16405	HEATHER GLEN RD	378.50	37.85	74.94	491.28
2237	312094027	6	684277	16378	SADDLEBROOK LN	75.12	7.51	14.87	97.50
2238	312094036	4	684277	25195	LOGAN BERRY CT	378.50	37.85	74.94	491.28
2239	312094038	6	684277	25183	LOGAN BERRY CT	378.50	37.85	74.94	491.28
2240	312095006	0	684277	16334	HEATHER GLEN RD	372.88	37.29	73.83	484.00
2241	312095012	5	684277	16382	HEATHER GLEN RD	50.00	5.00	9.90	64.90
2242	312095017	0	684277	16422	HEATHER GLEN RD	493.99	49.40	97.81	641.20
2243	312101007	9	684277	25370	MOORLAND RD	486.54	48.65	96.33	631.52
2244	312101009	1	684277	25398	MOORLAND RD	211.19	21.12	41.82	274.12
2245	312101010	1	684277	25412	MOORLAND RD	143.39	14.34	28.39	186.12
2246	312102001	6	684277	25497	MOORLAND RD	278.23	27.82	55.09	361.14
2247	312102002	7	684277	25483	MOORLAND RD	372.88	37.29	73.83	484.00
2248	312102006	1	684277	25425	MOORLAND RD	378.50	37.85	74.94	491.28
2249	312102013	7	684277	25329	MOORLAND RD	92.88	9.29	18.39	120.56
2250	312102047	8	684277	16368	KENSINGTON PL	378.50	37.85	74.94	491.28
2251	312103001	9	684277	16461	KENSINGTON PL	372.01	37.20	73.66	482.86
2252	312103007	5	684277	16407	PARKSIDE LN	378.50	37.85	74.94	491.28
2253	312103009	7	684277	16395	PARKSIDE LN	296.47	29.65	58.70	384.82
2254	312103013	0	684277	16454	HEATHER GLEN RD	336.20	33.62	66.57	436.38
2255	312103017	4	684277	16484	HEATHER GLEN RD	372.88	37.29	73.83	484.00
2256	312103018	5	684277	16490	HEATHER GLEN RD	383.82	38.38	76.00	498.20
2257	312103021	7	684277	25266	MORNING DOVE WAY	357.79	35.78	70.84	464.40
2258	312104002	3	684277	16418	KENSINGTON PL	383.39	38.34	75.91	497.64
2259	312104002	3	684277	16418	KENSINGTON PL	383.39	38.34	75.91	497.64
2260	312104010	0	684277	25469	MORNING DOVE WAY	120.39	12.04	23.84	156.26
2261	312104012	2	684277	25281	MORNING DOVE WAY	385.23	38.52	76.28	500.02
2262	312110014	4	684277	16347	ABEDUL ST	372.88	37.29	73.83	484.00

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
2263	312111007	0	684277	16275	ABEDUL ST	517.03	51.70	102.37	671.10
2264	312112001	7	684277	16263	AVENIDA DE LORING	193.16	19.32	38.25	250.72
2265	312112005	1	684277	25547	CALLITA ST	238.16	23.82	47.16	309.14
2266	312112008	4	684277	16278	ABEDUL ST	372.88	37.29	73.83	484.00
2267	312112019	4	684277	25622	CALABRIA DR	365.14	36.51	72.30	473.94
2268	312112020	4	684277	16335	AVENIDA DE LORING	110.98	11.10	21.97	144.04
2269	312112023	7	684277	16299	AVENIDA DE LORING	149.83	14.98	29.67	194.48
2270	312113011	9	684277	16314	AVENIDA DE LORING	350.54	35.05	69.41	455.00
2271	312123002	2	684277	16347	AVENIDA DE LORING	285.86	28.59	56.60	371.04
2272	312123005	5	684277	25613	CALABRIA DR	372.88	37.29	73.83	484.00
2273	312123017	6	684277	16434	ABEDUL ST	199.50	19.95	39.50	258.94
2274	312123034	1	684277	16446	ANCLADERO CT	216.20	21.62	42.81	280.62
2275	312123043	9	684277	25637	BUENA VILLAGE CT	363.16	36.32	71.91	471.38
2276	312123044	0	684277	25625	BUENA VILLAGE CT	372.88	37.29	73.83	484.00
2277	312123050	5	684277	25634	BUENA VILLAGE CT	372.88	37.29	73.83	484.00
2278	312123051	6	684277	16407	AVENIDA DE LORING	378.50	37.85	74.94	491.28
2279	312124004	7	684277	16362	AVENIDA DE LORING	349.93	34.99	69.29	454.20
2280	312124004	7	684277	16362	AVENIDA DE LORING	349.93	34.99	69.29	454.20
2281	312124009	2	684277	16422	AVENIDA DE LORING	360.58	36.06	71.40	468.04
2282	312124014	6	684277	25661	BUENA FORTUNA LN	163.12	16.31	32.30	211.72
2283	312141003	9	684277	16563	WAR CLOUD DR	321.68	32.17	63.69	417.54
2284	312141004	0	684277	16555	WAR CLOUD DR	335.85	33.59	66.50	435.94
2285	312141005	1	684277	16547	WAR CLOUD DR	138.85	13.89	27.49	180.22
2286	312141020	4	684277	25106	GRANVILLE ST	24.08	2.41	4.77	31.26
2287	312142006	5	684277	16539	SIR BARTON WAY	165.40	16.54	32.75	214.68
2288	312142015	3	684277	16572	WAR CLOUD DR	493.99	49.40	97.81	641.20
2289	312143002	4	684277	16532	SIR BARTON WAY	354.34	35.43	70.16	459.92
2290	312143008	0	684277	16580	SIR BARTON WAY	659.95	66.00	130.67	856.62
2291	312143009	1	684277	25121	GRANVILLE ST	503.03	50.30	99.60	652.92

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
2292	312143014	5	684277	25171	GRANVILLE ST	165.57	16.56	32.78	214.90
2293	312143019	0	684277	25150	GRAYLAG CIR	372.88	37.29	73.83	484.00
2294	312143021	1	684277	25130	GRAYLAG CIR	503.03	50.30	99.60	652.92
2295	312143027	7	684277	25171	GRAYLAG CIR	155.12	15.51	30.71	201.34
2296	312143028	8	684277	25181	GRAYLAG CIR	357.79	35.78	70.84	464.40
2297	312144013	7	684277	16572	SEATTLE SLEW DR	372.88	37.29	73.83	484.00
2298	312144017	1	684277	16540	SEATTLE SLEW DR	254.72	25.47	50.43	330.62
2299	312144019	3	684277	16528	SEATTLE SLEW DR	483.79	48.38	95.79	627.96
2300	312144022	5	684277	16510	SEATTLE SLEW DR	486.54	48.65	96.33	631.52
2301	312151001	8	684277	16634	SIR BARTON WAY	378.50	37.85	74.94	491.28
2302	312151002	9	684277	16642	SIR BARTON WAY	372.88	37.29	73.83	484.00
2303	312151011	7	684277	25181	OMAHA DR	372.88	37.29	73.83	484.00
2304	312151016	2	684277	16637	SADDLEBROOK LN	354.64	35.46	70.22	460.32
2305	312151018	4	684277	16657	SADDLEBROOK LN	372.88	37.29	73.83	484.00
2306	312151022	7	684277	16697	SADDLEBROOK LN	163.99	16.40	32.47	212.86
2307	312151025	0	684277	16666	SIR BARTON WAY	372.88	37.29	73.83	484.00
2308	312151026	1	684277	16668	SIR BARTON WAY	66.71	6.67	13.21	86.58
2309	312151033	7	684277	16661	SECRETARIAT DR	372.88	37.29	73.83	484.00
2310	312151034	8	684277	16655	SECRETARIAT DR	372.88	37.29	73.83	484.00
2311	312153001	4	684277	25182	OMAHA DR	344.02	34.40	68.12	446.54
2312	312153003	6	684277	25162	OMAHA DR	372.88	37.29	73.83	484.00
2313	312153011	3	684277	16612	SIR BARTON WAY	378.50	37.85	74.94	491.28
2314	312154005	1	684277	16641	SIR BARTON WAY	378.50	37.85	74.94	491.28
2315	312154024	8	684277	16668	WAR CLOUD DR	372.88	37.29	73.83	484.00
2316	312154026	0	684277	16680	WAR CLOUD DR	131.20	13.12	25.98	170.30
2317	312155003	2	684277	25009	NORTHERN DANCER DR	29.57	2.96	5.86	38.38
2318	312156004	6	684277	16641	WAR CLOUD DR	378.50	37.85	74.94	491.28
2319	312161014	1	684277	16776	SECRETARIAT DR	372.88	37.29	73.83	484.00
2320	312161015	2	684277	16768	SECRETARIAT DR	486.54	48.65	96.33	631.52

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Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
2321	312161023	9	684277	16704	SECRETARIAT DR	378.50	37.85	74.94	491.28
2322	312162007	8	684277	16731	MAJESTIC PRINCE WAY	42.80	4.28	8.47	55.54
2323	312162011	1	684277	16691	MAJESTIC PRINCE WAY	153.13	15.31	30.32	198.76
2324	312163002	6	684277	16692	WAR CLOUD DR	296.43	29.64	58.69	384.76
2325	312163004	8	684277	16704	WAR CLOUD DR	424.93	42.49	84.14	551.56
2326	312163005	9	684277	16710	WAR CLOUD DR	372.88	37.29	73.83	484.00
2327	312163009	3	684277	16734	WAR CLOUD DR	378.50	37.85	74.94	491.28
2328	312163015	8	684277	16729	SECRETARIAT DR	378.50	37.85	74.94	491.28
2329	312164005	2	684277	16767	SECRETARIAT DR	76.43	7.64	15.13	99.20
2330	312164007	4	684277	16739	WAR CLOUD DR	39.93	3.99	7.91	51.82
2331	312164014	0	684277	16697	WAR CLOUD DR	372.88	37.29	73.83	484.00
2332	312164016	2	684277	16685	WAR CLOUD DR	378.50	37.85	74.94	491.28
2333	312164025	0	684277	16789	HARKER CIR	76.43	7.64	15.13	99.20
2334	312164026	1	684277	16781	HARKER CIR	378.50	37.85	74.94	491.28
2335	312164033	7	684277	25148	HARKER LN	693.76	69.38	137.37	900.50
2336	312171005	4	684277	25050	SLATE CREEK DR	374.20	37.42	74.09	485.70
2337	312171010	8	684277	25031	PEBBLE CREEK WAY	109.49	10.95	21.68	142.12
2338	312171011	9	684277	25021	PEBBLE CREEK WAY	142.73	14.27	28.26	185.26
2339	312171012	0	684277	25011	PEBBLE CREEK WAY	372.88	37.29	73.83	484.00
2340	312171026	3	684277	25164	PEBBLE CREEK WAY	307.07	30.71	60.80	398.58
2341	312171033	9	684277	25227	HARKER LN	361.20	36.12	71.52	468.84
2342	312171041	6	684277	25147	HARKER LN	411.39	41.14	81.46	533.98
2343	312171043	8	684277	25127	HARKER LN	465.97	46.60	92.26	604.82
2344	312171045	0	684277	25107	HARKER LN	493.99	49.40	97.81	641.20
2345	312171051	5	684277	25047	HARKER LN	373.46	37.35	73.95	484.76
2346	312171052	6	684277	25037	HARKER LN	260.95	26.10	51.67	338.72
2347	312172003	5	684277	25189	PEBBLE CREEK WAY	378.50	37.85	74.94	491.28
2348	312172013	4	684277	25106	SLATE CREEK DR	493.99	49.40	97.81	641.20
2349	312172039	8	684277	25021	SLATE CREEK DR	334.87	33.49	66.30	434.66

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

Column Totals	2,003,753.76	200,377.97	396,739.88	2,600,843.48
Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
2350	312181005	5	684277	16804	HOLLYHOCK DR	372.88	37.29	73.83	484.00
2351	312181018	7	684277	25477	LURIN AVE	171.20	17.12	33.90	222.22
2352	312181020	8	684277	16778	LIATRIS LN	609.73	60.97	120.73	791.42
2353	312181024	2	684277	16828	LIATRIS LN	493.99	49.40	97.81	641.20
2354	312182004	7	684277	16900	HOLLYHOCK DR	493.99	49.40	97.81	641.20
2355	312182005	8	684277	16912	HOLLYHOCK DR	380.10	38.01	75.26	493.36
2356	312182007	0	684277	16936	HOLLYHOCK DR	395.30	39.53	78.27	513.10
2357	312182015	7	684277	25441	LUPINE LN	415.60	41.56	82.29	539.44
2358	312182020	1	684277	16888	MAILE LN	503.03	50.30	99.60	652.92
2359	312184001	0	684277	16947	HOLLYHOCK DR	71.43	7.14	14.14	92.70
2360	312184005	4	684277	16899	HOLLYHOCK DR	493.99	49.40	97.81	641.20
2361	312184009	8	684277	16851	HOLLYHOCK DR	352.22	35.22	69.74	457.18
2362	312184012	0	684277	16815	HOLLYHOCK DR	357.08	35.71	70.70	463.48
2363	312191002	3	684277	25594	SIERRA LEONE CT	371.41	37.14	73.54	482.08
2364	312191011	1	684277	25521	SIERRA LEONE CT	41.24	4.12	8.16	53.52
2365	312192002	6	684277	25642	SIERRA LEONE CT	231.68	23.17	45.87	300.72
2366	312192006	0	684277	25641	SIERRA LEONE CT	523.69	52.37	103.69	679.74
2367	312192013	6	684277	16614	VIA ALEGRIA	76.43	7.64	15.13	99.20
2368	312193009	6	684277	25627	CAMINO CASTILLO	238.16	23.82	47.16	309.14
2369	312193010	6	684277	25626	SIERRA BRAVO CT	372.88	37.29	73.83	484.00
2370	312193013	9	684277	25590	SIERRA BRAVO CT	378.50	37.85	74.94	491.28
2371	312201001	2	684277	16639	VIA PAMPLONA	71.43	7.14	14.14	92.70
2372	312201004	5	684277	16675	VIA PAMPLONA	103.26	10.33	20.45	134.04
2373	312202003	7	684277	25579	SIERRA BRAVO CT	321.20	32.12	63.60	416.92
2374	312202006	0	684277	25615	SIERRA BRAVO CT	87.78	8.78	17.38	113.94
2375	312202012	5	684277	25582	SIERRA CALMO CT	166.44	16.64	32.95	216.02
2376	312202015	8	684277	25601	SIERRA CALMO CT	186.43	18.64	36.91	241.98
2377	312202018	1	684277	25637	SIERRA CALMO CT	345.25	34.53	68.36	448.14
2378	312202028	0	684277	25662	CAMINO BELLAGIO	258.16	25.82	51.12	335.10

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
2379	312202036	7	684277	16762	VIA PAMPLONA	378.50	37.85	74.94	491.28
2380	312202042	2	684277	16690	VIA PAMPLONA	269.49	26.95	53.36	349.80
2381	312203002	9	684277	16674	VIA ALEGRIA	477.72	47.77	94.59	620.08
2382	312203004	1	684277	16698	VIA ALEGRIA	591.38	59.14	117.09	767.60
2383	312203006	3	684277	16722	VIA ALEGRIA	486.54	48.65	96.33	631.52
2384	312203012	8	684277	16794	VIA ALEGRIA	242.24	24.22	47.96	314.42
2385	312204007	7	684277	16789	VIA LUNADO	316.41	31.64	62.65	410.70
2386	312211001	3	684277	16801	VIA LUNADO	360.89	36.09	71.46	468.44
2387	312211004	6	684277	16837	VIA LUNADO	210.03	21.00	41.59	272.62
2388	312211005	7	684277	16849	VIA LUNADO	253.16	25.32	50.13	328.60
2389	312211008	0	684277	16885	VIA LUNADO	51.68	5.17	10.23	67.08
2390	312212011	5	684277	16910	VIA LUNADO	143.01	14.30	28.32	185.62
2391	312212015	9	684277	25572	CAMINO MARILENA	372.88	37.29	73.83	484.00
2392	312212016	0	684277	25584	CAMINO MARILENA	257.23	25.72	50.93	333.88
2393	312212017	1	684277	25596	CAMINO MARILENA	105.12	10.51	20.81	136.44
2394	312212021	4	684277	25607	SIERRA CADIZ CT	378.50	37.85	74.94	491.28
2395	312212024	7	684277	25571	SIERRA CADIZ CT	246.17	24.62	48.74	319.52
2396	312212025	8	684277	25572	SIERRA CADIZ CT	210.86	21.09	41.75	273.70
2397	312212034	6	684277	25570	CAMINO BELLAGIO	395.26	39.53	78.26	513.04
2398	312221005	8	684277	16435	VISTA CONEJO DR	71.43	7.14	14.14	92.70
2399	312221014	6	684277	16525	VISTA CONEJO DR	86.63	8.66	17.15	112.44
2400	312221014	6	684277	16525	VISTA CONEJO DR	86.63	8.66	17.15	112.44
2401	312221014	6	684277	16525	VISTA CONEJO DR	86.63	8.66	17.15	112.44
2402	312221015	7	684277	16535	VISTA CONEJO DR	372.88	37.29	73.83	484.00
2403	312221021	2	684277	16595	VISTA CONEJO DR	355.09	35.51	70.31	460.90
2404	312222001	7	684277	16434	VISTA CONEJO DR	361.09	36.11	71.50	468.70
2405	312222002	8	684277	16444	VISTA CONEJO DR	372.88	37.29	73.83	484.00
2406	312222003	9	684277	16454	VISTA CONEJO DR	378.50	37.85	74.94	491.28
2407	312222007	3	684277	16494	VISTA CONEJO DR	178.08	17.81	35.26	231.14

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
2408	312222008	4	684277	16495	ZARCO LUNA PL	339.73	33.97	67.27	440.96
2409	312222018	3	684277	16460	ZARCO LUNA PL	385.23	38.52	76.28	500.02
2410	312222023	7	684277	16485	ZOCALO PL	372.88	37.29	73.83	484.00
2411	312222027	1	684277	16445	ZOCALO PL	493.99	49.40	97.81	641.20
2412	312222030	3	684277	25985	ZORRA LN	365.72	36.57	72.41	474.70
2413	312223001	0	684277	25910	ZORRA LN	136.98	13.70	27.12	177.80
2414	312223010	8	684277	26000	ZORRA LN	71.42	7.14	14.14	92.70
2415	312223011	9	684277	26010	ZORRA LN	71.43	7.14	14.14	92.70
2416	312223015	3	684277	16410	ZOCALO PL	478.16	47.82	94.68	620.66
2417	312223018	6	684277	16440	ZOCALO PL	113.70	11.37	22.51	147.58
2418	312223018	6	684277	16440	ZOCALO PL	113.70	11.37	22.51	147.58
2419	312223023	0	684277	16490	ZOCALO PL	368.30	36.83	72.92	478.04
2420	312223027	4	684277	16510	ZOCALO PL	372.88	37.29	73.83	484.00
2421	312223028	5	684277	25975	ZAMORA AVE	338.71	33.87	67.06	439.64
2422	312223032	8	684277	25925	ZAMORA AVE	145.45	14.55	28.80	188.80
2423	312224003	5	684277	25943	YANEZ TRAIL RD	621.04	62.10	122.97	806.10
2424	312224005	7	684277	25921	YANEZ TRAIL RD	106.73	10.67	21.13	138.52
2425	312224007	9	684277	25910	XANA WAY	372.88	37.29	73.83	484.00
2426	312232003	0	684277	25790	VIA QUINTO ST	353.68	35.37	70.03	459.08
2427	312232010	6	684277	16749	CALLE PINATA	372.88	37.29	73.83	484.00
2428	312232014	0	684277	25835	VIA TEJON AVE	76.43	7.64	15.13	99.20
2429	312232023	8	684277	25760	VIA SALERNO CT	300.43	30.04	59.48	389.94
2430	312232030	4	684277	25830	VIA SALERNO CT	372.88	37.29	73.83	484.00
2431	312233002	2	684277	16755	ARROYO PARK DR	156.16	15.62	30.92	202.70
2432	312233003	3	684277	16745	ARROYO PARK DR	228.38	22.84	45.22	296.44
2433	312233010	9	684277	25764	VIA HAMACA AVE	376.10	37.61	74.47	488.18
2434	312233011	0	684277	25754	VIA HAMACA AVE	341.20	34.12	67.56	442.88
2435	312233021	9	684277	25790	VIA HAMACA AVE	385.23	38.52	76.28	500.02
2436	312233024	2	684277	25820	VIA HAMACA AVE	372.88	37.29	73.83	484.00

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Customers with Invoice Item Dates in 2018**

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
2437	312233030	7	684277	25750	VIA WANDA PL	542.72	54.27	107.46	704.44
2438	312233032	9	684277	25770	VIA WANDA PL	372.88	37.29	73.83	484.00
2439	312234009	2	684277	25875	VIA HAMACA AVE	372.88	37.29	73.83	484.00
2440	312234013	5	684277	25835	VIA HAMACA AVE	372.88	37.29	73.83	484.00
2441	312234015	7	684277	25815	VIA HAMACA AVE	195.82	19.58	38.77	254.16
2442	312234018	0	684277	25785	VIA HAMACA AVE	83.60	8.36	16.55	108.50
2443	312234022	3	684277	25796	VIA TEJON AVE	326.68	32.67	64.68	424.02
2444	312234032	2	684277	25909	VIA ZURITA CT	378.50	37.85	74.94	491.28
2445	312234035	5	684277	25879	VIA ZURITA CT	330.07	33.01	65.35	428.42
2446	312241009	4	684277	16870	CALLE PINATA	191.04	19.10	37.83	247.96
2447	312242010	7	684277	16789	CALLE PINATA	336.98	33.70	66.72	437.40
2448	312242011	8	684277	25825	VIA QUINTO ST	291.36	29.14	57.69	378.18
2449	312242021	7	684277	25820	VIA JACARA CT	79.82	7.98	15.80	103.60
2450	312242024	0	684277	25795	VIA JACARA CT	88.16	8.82	17.46	114.44
2451	312242025	1	684277	25785	VIA JACARA CT	155.12	15.51	30.71	201.34
2452	312243005	6	684277	16815	ARROYO PARK DR	372.88	37.29	73.83	484.00
2453	312243006	7	684277	16805	ARROYO PARK DR	108.65	10.87	21.51	141.02
2454	312280009	5	684277	17267	CALLE RIO VISTA	71.43	7.14	14.14	92.70
2455	312280016	1	684277	17323	CALLE RIO VISTA	275.88	27.59	54.62	358.08
2456	312281014	2	684277	25991	HACIENDA CT	372.88	37.29	73.83	484.00
2457	312281015	3	684277	25992	HACIENDA CT	372.88	37.29	73.83	484.00
2458	312281017	5	684277	25976	HACIENDA CT	80.00	8.00	15.84	103.84
2459	312281021	8	684277	25957	AVENIDA DE PLATA	372.88	37.29	73.83	484.00
2460	312290002	9	684277	17379	CALLE RIO VISTA	76.43	7.64	15.13	99.20
2461	312290005	2	684277	17403	CALLE RIO VISTA	76.67	7.67	15.18	99.52
2462	312290013	9	684277	25929	MAGNIFICA CT	180.58	18.06	35.76	234.40
2463	312290014	0	684277	25937	MAGNIFICA CT	372.88	37.29	73.83	484.00
2464	312290018	4	684277	25969	MAGNIFICA CT	267.87	26.79	53.04	347.70
2465	312290020	5	684277	25974	MAGNIFICA CT	296.78	29.68	58.76	385.22

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
2466	312290032	6	684277	17423	CALLE DE AMIGOS	369.15	36.92	73.09	479.16
2467	312290035	9	684277	17447	CALLE DE AMIGOS	50.00	5.00	9.90	64.90
2468	312290037	1	684277	17463	CALLE DE AMIGOS	101.29	10.13	20.06	131.48
2469	312291001	1	684277	17488	CALLE DE AMIGOS	72.18	7.22	14.29	93.68
2470	312291007	7	684277	17440	CALLE DE AMIGOS	372.88	37.29	73.83	484.00
2471	312292003	6	684277	25980	AVENIDA ESPALDAR	372.88	37.29	73.83	484.00
2472	312300008	5	684277	25324	COURTNEY DR	455.28	45.53	90.15	590.96
2473	312300010	6	684277	25313	AMY CT	315.62	31.56	62.49	409.66
2474	312300017	3	684277	16512	CENTURY ST	342.07	34.21	67.73	444.00
2475	312300027	2	684277	16632	CENTURY ST	372.88	37.29	73.83	484.00
2476	312301009	9	684277	16676	SADDLEBROOK LN	486.54	48.65	96.33	631.52
2477	312301028	6	684277	25307	BRONSON CT	353.05	35.31	69.90	458.26
2478	312301029	7	684277	25297	BRONSON CT	365.20	36.52	72.31	474.02
2479	312301033	0	684277	25316	BRONSON CT	372.88	37.29	73.83	484.00
2480	312310001	9	684277	25267	PLUMERIA LN	372.88	37.29	73.83	484.00
2481	312311004	5	684277	16890	CENTURY ST	486.54	48.65	96.33	631.52
2482	312311009	0	684277	16820	CENTURY ST	26.43	2.64	5.23	34.30
2483	312312010	3	684277	25314	ASPEN GLEN AVE	385.23	38.52	76.28	500.02
2484	312313011	7	684277	16872	SADDLEBROOK LN	378.50	37.85	74.94	491.28
2485	312313015	1	684277	25278	PLUMERIA LN	441.76	44.18	87.47	573.40
2486	312313026	1	684277	25298	MACKENZIE CT	372.88	37.29	73.83	484.00
2487	312313027	2	684277	25310	MACKENZIE CT	346.40	34.64	68.59	449.62
2488	312313035	9	684277	25297	MAROON CREEK CT	321.68	32.17	63.69	417.54
2489	312320001	0	684277	17502	CALLE DE AMIGOS	71.43	7.14	14.14	92.70
2490	312320004	3	684277	17532	CALLE DE AMIGOS	50.00	5.00	9.90	64.90
2491	312320009	8	684277	17582	CALLE DE AMIGOS	242.91	24.29	48.10	315.30
2492	312322032	4	684277	25970	CALLE ENSENADA	279.10	27.91	55.26	362.26
2493	312322036	8	684277	25983	CALLE ENSENADA	71.43	7.14	14.14	92.70
2494	312322042	3	684277	25950	CAMINO ROSADA	76.67	7.67	15.18	99.52

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
2495	312322043	4	684277	25956	CAMINO ROSADA	392.88	39.29	77.79	509.96
2496	312322044	5	684277	25962	CAMINO ROSADA	371.99	37.20	73.65	482.84
2497	312322047	8	684277	25980	CAMINO ROSADA	155.12	15.51	30.71	201.34
2498	312323002	0	684277	25981	CAMINO ROSADA	372.88	37.29	73.83	484.00
2499	312323004	2	684277	25969	CAMINO ROSADA	71.43	7.14	14.14	92.70
2500	312330009	9	684277	25942	CORTE ANTIGUA	101.24	10.12	20.04	131.40
2501	312331003	6	684277	25937	CORTE ANTIGUA	372.88	37.29	73.83	484.00
2502	312332001	7	684277	25947	CALLE ENSENADA	365.58	36.56	72.39	474.52
2503	312332004	0	684277	25929	CALLE ENSENADA	372.88	37.29	73.83	484.00
2504	312332006	2	684277	25920	CAMINO ROSADA	31.43	3.14	6.22	40.78
2505	312333002	1	684277	25939	CAMINO ROSADA	245.89	24.59	48.69	319.16
2506	312333007	6	684277	17690	CAMINO SONRISA	378.50	37.85	74.94	491.28
2507	312334002	4	684277	17705	CAMINO SONRISA	609.73	60.97	120.73	791.42
2508	312334007	9	684277	17655	CAMINO SONRISA	372.88	37.29	73.83	484.00
2509	312334021	1	684277	17515	CAMINO SONRISA	155.12	15.51	30.71	201.34
2510	312334023	3	684277	17495	CAMINO SONRISA	372.88	37.29	73.83	484.00
2511	312334025	5	684277	17475	CAMINO SONRISA	352.28	35.23	69.75	457.26
2512	312334027	7	684277	25932	AVENIDA CLASSICA	493.99	49.40	97.81	641.20
2513	312334028	8	684277	25938	AVENIDA CLASSICA	381.04	38.10	75.45	494.58
2514	312340008	9	684277	17802	CAMINO SAN SIMEON	372.88	37.29	73.83	484.00
2515	312340025	4	684277	17749	CAMINO SAN SIMEON	193.04	19.30	38.22	250.56
2516	312340032	0	684277	17693	CAMINO SAN SIMEON	126.68	12.67	25.08	164.42
2517	312340071	5	684277	17819	CAMINO DEL REY	378.50	37.85	74.94	491.28
2518	312340074	8	684277	17853	CAMINO SAN SIMEON	486.54	48.65	96.33	631.52
2519	312341003	7	684277	17740	CAMINO SAN SIMEON	372.88	37.29	73.83	484.00
2520	312341012	5	684277	17668	CAMINO SAN SIMEON	209.20	20.92	41.42	271.54
2521	312342001	8	684277	17835	CAMINO DEL REY	372.88	37.29	73.83	484.00
2522	312350001	3	684277	17824	CALLE CAPISTRANO	179.59	17.96	35.56	233.10
2523	312350015	6	684277	17769	CALLE CAPISTRANO	385.23	38.52	76.28	500.02

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Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
2524	312350018	9	684277	17793	CALLE CAPISTRANO	372.88	37.29	73.83	484.00
2525	312350020	0	684277	17809	CALLE CAPISTRANO	343.69	34.37	68.05	446.10
2526	312350022	2	684277	17825	CALLE CAPISTRANO	269.27	26.93	53.32	349.52
2527	312350034	3	684277	17734	CORTE SOLEDAD	238.16	23.82	47.16	309.14
2528	312351007	2	684277	17767	CORTE SOLEDAD	348.70	34.87	69.04	452.60
2529	312351009	4	684277	17783	CORTE SOLEDAD	385.23	38.52	76.28	500.02
2530	312351010	4	684277	17791	CORTE SOLEDAD	146.14	14.61	28.94	189.68
2531	312351018	2	684277	17855	CORTE SOLEDAD	319.87	31.99	63.33	415.18
2532	312351024	7	684277	25925	VIA ELEGANTE	372.88	37.29	73.83	484.00
2533	312351026	9	684277	25941	VIA ELEGANTE	77.03	7.70	15.25	99.98
2534	312351034	6	684277	25954	VIA ELEGANTE	378.50	37.85	74.94	491.28
2535	312351038	0	684277	25922	VIA ELEGANTE	205.29	20.53	40.65	266.46
2536	312351042	3	684277	25929	CORTE SAN LEANDRO	291.20	29.12	57.66	377.98
2537	316030004	5	684277	24601	IRIS AVE	591.38	59.14	117.09	767.60
2538	316030022	1	684277	16110	EMMA LN UNIT B	238.16	23.82	47.16	309.14
2539	316040012	3	684277	16028	GERANIUM CT	486.54	48.65	96.33	631.52
2540	316040018	9	684277	16100	GERANIUM CT	127.07	12.71	25.16	164.94
2541	316051001	7	684277	16233	SMOKETREE PL	25.26	2.53	5.00	32.78
2542	316051010	5	684277	24672	CLEARWATER DR	88.25	8.83	17.47	114.54
2543	316052008	7	684277	24672	GLENBROOK CT	197.01	19.70	39.01	255.72
2544	316052014	2	684277	24723	CLEARWATER DR	137.03	13.70	27.13	177.86
2545	316052019	7	684277	16231	EMMA LN	297.15	29.72	58.84	385.70
2546	316052022	9	684277	24704	GOYA AVE	378.50	37.85	74.94	491.28
2547	316061005	2	684277	16224	SKYWOOD CT	378.50	37.85	74.94	491.28
2548	316061007	4	684277	16221	SKYWOOD CT	181.59	18.16	35.96	235.70
2549	316061013	9	684277	16233	BREEZEWOOD CT	187.65	18.77	37.16	243.58
2550	316062003	3	684277	16196	STARVIEW ST	296.36	29.64	58.68	384.68
2551	316062013	2	684277	24900	GATEWOOD ST	369.73	36.97	73.21	479.90
2552	316062019	8	684277	16112	GERANIUM CT	378.08	37.81	74.86	490.74

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

Column Totals	2,003,753.76	200,377.97	396,739.88	2,600,843.48
Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
2553	316063006	9	684277	24855	GATEWOOD ST	71.43	7.14	14.14	92.70
2554	316063007	0	684277	24843	GATEWOOD ST	378.50	37.85	74.94	491.28
2555	316063008	1	684277	24831	GATEWOOD ST	378.50	37.85	74.94	491.28
2556	316063010	2	684277	24807	GATEWOOD ST	486.54	48.65	96.33	631.52
2557	316063016	8	684277	24844	NEWGARDEN ST	378.50	37.85	74.94	491.28
2558	316064002	8	684277	16176	EMMA LN	178.50	17.85	35.34	231.68
2559	316064004	0	684277	16152	EMMA LN	58.88	5.89	11.66	76.42
2560	316064014	9	684277	24794	GATEWOOD ST	178.50	17.85	35.34	231.68
2561	316064018	3	684277	16224	EMMA LN	186.73	18.67	36.97	242.36
2562	316064020	4	684277	16200	EMMA LN	548.93	54.89	108.69	712.50
2563	316071005	3	684277	24545	MOONLIGHT DR	385.23	38.52	76.28	500.02
2564	316071008	6	684277	24515	MOONLIGHT DR	286.52	28.65	56.73	371.90
2565	316071011	8	684277	24530	MOONLIGHT DR	183.75	18.38	36.38	238.50
2566	316071012	9	684277	24540	MOONLIGHT DR	372.88	37.29	73.83	484.00
2567	316071013	0	684277	24550	MOONLIGHT DR	71.43	7.14	14.14	92.70
2568	316072005	6	684277	24648	CONSTELLATION WAY	355.09	35.51	70.31	460.90
2569	316072007	8	684277	24668	CONSTELLATION WAY	93.54	9.35	18.52	121.40
2570	316073002	6	684277	24615	MOONLIGHT DR	378.50	37.85	74.94	491.28
2571	316073004	8	684277	24635	MOONLIGHT DR	372.88	37.29	73.83	484.00
2572	316073009	3	684277	24685	MOONLIGHT DR	378.50	37.85	74.94	491.28
2573	316073010	3	684277	24680	MOONLIGHT DR	434.31	43.43	85.99	563.72
2574	316073018	1	684277	24673	CONSTELLATION WAY	303.57	30.36	60.11	394.04
2575	316073021	3	684277	16409	EMMA LN	508.20	50.82	100.62	659.64
2576	316073025	7	684277	16457	EMMA LN	85.32	8.53	16.89	110.74
2577	316081004	3	684277	16282	BREEZEWOOD CT	236.98	23.70	46.92	307.60
2578	316081005	4	684277	16294	BREEZEWOOD CT	206.74	20.67	40.93	268.34
2579	316081007	6	684277	16316	BREEZEWOOD CT	207.37	20.74	41.06	269.16
2580	316081008	7	684277	16328	BREEZEWOOD CT	372.88	37.29	73.83	484.00
2581	316082002	4	684277	16256	GREENFIELD ST	486.54	48.65	96.33	631.52

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
2582	316082003	5	684277	16268	GREENFIELD ST	378.50	37.85	74.94	491.28
2583	316082005	7	684277	16292	GREENFIELD ST	378.50	37.85	74.94	491.28
2584	316082012	3	684277	16370	GREENFIELD ST	364.84	36.48	72.24	473.56
2585	316083012	6	684277	16267	GREENFIELD ST	378.50	37.85	74.94	491.28
2586	316083026	9	684277	16435	GREENFIELD ST	180.38	18.04	35.72	234.14
2587	316083027	0	684277	24781	HIGHWOOD ST	493.99	49.40	97.81	641.20
2588	316083031	3	684277	16464	EMMA LN	372.88	37.29	73.83	484.00
2589	316083035	7	684277	16416	EMMA LN	372.88	37.29	73.83	484.00
2590	316084007	5	684277	24807	CITADEL ST	71.43	7.14	14.14	92.70
2591	316085003	4	684277	24849	HIGHWOOD ST	71.43	7.14	14.14	92.70
2592	316091002	2	684277	24929	HIGHWOOD ST	83.17	8.32	16.47	107.96
2593	316091005	5	684277	16436	STARVIEW ST	71.43	7.14	14.14	92.70
2594	316091008	8	684277	16400	STARVIEW ST	421.95	42.20	83.55	547.70
2595	316091012	1	684277	16352	STARVIEW ST	372.88	37.29	73.83	484.00
2596	316091014	3	684277	16328	STARVIEW ST	378.50	37.85	74.94	491.28
2597	316091015	4	684277	16316	STARVIEW ST	385.23	38.52	76.28	500.02
2598	316091016	5	684277	16304	STARVIEW ST	341.68	34.17	67.65	443.50
2599	316092005	8	684277	24898	HIGHWOOD ST	321.68	32.17	63.69	417.54
2600	316092007	0	684277	24870	HIGHWOOD ST	372.76	37.28	73.81	483.84
2601	316092010	2	684277	24869	CITADEL ST	372.88	37.29	73.83	484.00
2602	316093006	2	684277	16295	STARVIEW ST	347.50	34.75	68.81	451.06
2603	316093012	7	684277	16371	STARVIEW ST	346.18	34.62	68.54	449.34
2604	316093023	7	684277	16270	SKYWOOD CT	378.50	37.85	74.94	491.28
2605	316093025	9	684277	16246	SKYWOOD CT	483.44	48.34	95.72	627.50
2606	316094007	6	684277	16315	SKYWOOD CT	500.88	50.09	99.17	650.14
2607	316094009	8	684277	16339	SKYWOOD CT	372.88	37.29	73.83	484.00
2608	316094012	0	684277	16371	SKYWOOD CT	75.12	7.51	14.87	97.50
2609	316095001	3	684277	24861	HIGHWOOD ST	378.50	37.85	74.94	491.28
2610	316121002	4	684277	24510	FREEPORT DR	71.43	7.14	14.14	92.70

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
2611	316121008	0	684277	24576	FREeport DR	71.43	7.14	14.14	92.70
2612	316121015	6	684277	24660	FREeport DR	372.88	37.29	73.83	484.00
2613	316121016	7	684277	24672	FREeport DR	486.54	48.65	96.33	631.52
2614	316121020	0	684277	24716	FREeport DR	45.00	4.50	8.91	58.40
2615	316121024	4	684277	16757	TARANO LN	372.88	37.29	73.83	484.00
2616	316121025	5	684277	16749	TARANO LN	278.50	27.85	55.14	361.48
2617	316121032	1	684277	24545	ANGELLA WAY	436.74	43.67	86.47	566.88
2618	316121035	4	684277	24611	ANGELLA WAY	378.50	37.85	74.94	491.28
2619	316121037	6	684277	24655	ANGELLA WAY	383.27	38.33	75.89	497.48
2620	316122011	5	684277	24627	NORTHERN DANCER DR	486.54	48.65	96.33	631.52
2621	316122012	6	684277	24615	NORTHERN DANCER DR	371.41	37.14	73.54	482.08
2622	316122013	7	684277	24603	NORTHERN DANCER DR	158.99	15.90	31.48	206.36
2623	316122016	0	684277	24598	NORTHERN DANCER DR	503.03	50.30	99.60	652.92
2624	316122025	8	684277	24669	FREeport DR	294.76	29.48	58.36	382.60
2625	316122026	9	684277	24657	FREeport DR	493.99	49.40	97.81	641.20
2626	316122031	3	684277	24597	FREeport DR	378.50	37.85	74.94	491.28
2627	316131015	7	684277	16709	KETTENBURG LN	88.99	8.90	17.62	115.50
2628	316131016	8	684277	16701	KETTENBURG LN	354.67	35.47	70.23	460.36
2629	316132003	9	684277	24975	NORTHERN DANCER DR	378.50	37.85	74.94	491.28
2630	316132019	4	684277	24783	NORTHERN DANCER DR	486.54	48.65	96.33	631.52
2631	316133002	1	684277	16708	KETTENBURG LN	493.99	49.40	97.81	641.20
2632	316133004	3	684277	16724	KETTENBURG LN	503.03	50.30	99.60	652.92
2633	316133005	4	684277	16732	KETTENBURG LN	493.99	49.40	97.81	641.20
2634	316133017	5	684277	16709	CANOE COVE	486.54	48.65	96.33	631.52
2635	316133019	7	684277	16725	CANOE COVE	90.27	9.03	17.87	117.16
2636	316133021	8	684277	16741	CANOE COVE	80.86	8.09	16.01	104.96
2637	316133024	1	684277	24914	NORTHERN DANCER DR	361.80	36.18	71.64	469.62
2638	316133027	4	684277	24950	NORTHERN DANCER DR	108.54	10.85	21.49	140.88
2639	316141004	8	684277	16825	BALTIC CT	342.26	34.23	67.77	444.26

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
2640	316141008	2	684277	16785	BALTIC CT	486.54	48.65	96.33	631.52
2641	316141011	4	684277	16800	BALTIC CT	372.88	37.29	73.83	484.00
2642	316141013	6	684277	16820	BALTIC CT	348.40	34.84	68.98	452.22
2643	316141023	5	684277	16795	TRINITY BAY CT	364.51	36.45	72.17	473.12
2644	316141027	9	684277	16800	TRINITY BAY CT	214.79	21.48	42.53	278.80
2645	316141033	4	684277	24660	SUPERIOR AVE	155.22	15.52	30.73	201.46
2646	316141046	6	684277	24756	FORTUNE BAY LN	357.79	35.78	70.84	464.40
2647	316143004	4	684277	24557	SUPERIOR AVE	336.98	33.70	66.72	437.40
2648	316151006	1	684277	16855	LAKE VICTORIA DR	76.68	7.67	15.18	99.52
2649	316151011	5	684277	24833	SUPERIOR AVE	300.80	30.08	59.56	390.44
2650	316152002	0	684277	24840	SUPERIOR AVE	253.08	25.31	50.11	328.50
2651	316152010	7	684277	24833	FORTUNE BAY LN	287.47	28.75	56.92	373.14
2652	316153009	0	684277	16795	MEDITERRANEAN DR	378.50	37.85	74.94	491.28
2653	316153011	1	684277	16780	MEDITERRANEAN DR	354.04	35.40	70.10	459.54
2654	316153016	6	684277	16830	MEDITERRANEAN DR	372.88	37.29	73.83	484.00
2655	316153030	8	684277	16790	LAKE VICTORIA DR	311.80	31.18	61.74	404.72
2656	316153032	0	684277	16810	LAKE VICTORIA DR	372.88	37.29	73.83	484.00
2657	316153035	3	684277	16840	LAKE VICTORIA DR	378.50	37.85	74.94	491.28
2658	316153036	4	684277	16850	LAKE VICTORIA DR	378.50	37.85	74.94	491.28
2659	316153040	7	684277	16825	SAINT GEORGE WAY	372.88	37.29	73.83	484.00
2660	316153051	7	684277	16840	SAINT GEORGE WAY	361.92	36.19	71.66	469.76
2661	316153051	7	684277	16840	SAINT GEORGE WAY	361.92	36.19	71.66	469.76
2662	316153057	3	684277	24876	SUBURBAN LN	372.88	37.29	73.83	484.00
2663	316200034	7	684277	24710	NANDINA AVE	493.99	49.40	97.81	641.20
2664	316220008	6	684277	16520	TAURUS LN	500.88	50.09	99.17	650.14
2665	316220015	2	684277	16640	TAURUS LN	360.58	36.06	71.40	468.04
2666	316220018	5	684277	16623	TARANO LN	69.31	6.93	13.72	89.96
2667	316220019	6	684277	16639	TARANO LN	372.88	37.29	73.83	484.00
2668	316221001	2	684277	24655	POLARIS DR	372.88	37.29	73.83	484.00

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Customers with Invoice Item Dates in 2018**

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
2669	3162210067		684277	24605	POLARIS DR	447.28	44.73	88.56	580.56
2670	3162210090		684277	24575	POLARIS DR	420.80	42.08	83.32	546.20
2671	3162210090		684277	24575	POLARIS DR	420.80	42.08	83.32	546.20
2672	3162220059		684277	24550	POLARIS DR	486.54	48.65	96.33	631.52
2673	4712900010		684277	9530	RECHE VISTA DR	486.54	48.65	96.33	631.52
2674	4713000108		684277	9998	CANYON RANCH RD	372.88	37.29	73.83	484.00
2675	4731500813		684277	11420	TRUST WAY	529.28	52.93	104.80	687.00
2676	4731800025		684277	11277	WEBER AVE	50.00	5.00	9.90	64.90
2677	4731800036		684277	11287	WEBER AVE	246.20	24.62	48.75	319.56
2678	4731800157		684277	11429	WEBER AVE	378.50	37.85	74.94	491.28
2679	4731800168		684277	11437	WEBER AVE	155.12	15.51	30.71	201.34
2680	4731800267		684277	11412	WEBER AVE	378.50	37.85	74.94	491.28
2681	4731800278		684277	11400	WEBER AVE	202.03	20.20	40.00	262.22
2682	4731800300		684277	11362	WEBER AVE	372.40	37.24	73.74	483.38
2683	4731800311		684277	11350	WEBER AVE	372.88	37.29	73.83	484.00
2684	4731800355		684277	11300	WEBER AVE	372.88	37.29	73.83	484.00
2685	4731800366		684277	11288	WEBER AVE	378.50	37.85	74.94	491.28
2686	4731800410		684277	28155	LOCUST AVE	378.50	37.85	74.94	491.28
2687	4731800421		684277	11330	CARRIE LN	486.54	48.65	96.33	631.52
2688	4731800465		684277	11430	CARRIE LN	602.45	60.25	119.29	781.98
2689	4732100072		684277	29100	HIGHLAND BLVD	511.04	51.10	101.19	663.32
2690	4732200369		684277	29068	IRONWOOD AVE	378.50	37.85	74.94	491.28
2691	4732200381		684277	11790	REDLANDS BLVD	415.62	41.56	82.29	539.46
2692	4732200589		684277	29150	JUNIPER AVE	372.88	37.29	73.83	484.00
2693	4732200677		684277	29060	JUNIPER AVE	493.99	49.40	97.81	641.20
2694	4732200798		684277	11828	ORANGE GROVE CIR	591.38	59.14	117.09	767.60
2695	4732300074		684277	11214	HERMINIA CT	263.95	26.40	52.26	342.60
2696	4732410067		684277	28115	LOCUST AVE	486.54	48.65	96.33	631.52
2697	4732410144		684277	28043	MORREY LN	91.41	9.14	18.10	118.64

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
2698	473241016	6	684277	28099	MORREY LN	26.77	2.68	5.30	34.74
2699	473241022	1	684277	28035	GERALD LN	477.72	47.77	94.59	620.08
2700	473250020	7	684277	28400	LOCUST AVE	486.54	48.65	96.33	631.52
2701	473250032	8	684277	28301	MANZANITA AVE	378.50	37.85	74.94	491.28
2702	473250046	1	684277	28360	LOCUST AVE	410.81	41.08	81.34	533.22
2703	473260005	5	684277	11093	RAYMOND RD	378.50	37.85	74.94	491.28
2704	473260009	9	684277	11088	RAYMOND RD	375.58	37.56	74.37	487.50
2705	473271006	0	684277	11425	KNOLL VISTA ST	70.38	7.04	13.94	91.36
2706	473310010	3	684277	28891	GRELCK DR	89.85	8.99	17.79	116.62
2707	473340012	8	684277	11248	BONNIE VIEW AVE	481.44	48.14	95.32	624.90
2708	473351017	7	684277	28715	MANZANITA AVE	213.73	21.37	42.32	277.42
2709	473351035	3	684277	11109	NIGHT SHADOW DR	242.03	24.20	47.92	314.14
2710	473352003	7	684277	11056	NIGHT SHADOW DR	116.24	11.62	23.01	150.86
2711	473361007	9	684277	11134	ALDREN CT	543.86	54.39	107.69	705.94
2712	473364006	7	684277	28689	MARK RD	97.86	9.79	19.38	127.02
2713	473371002	5	684277	27783	KALMIA AVE	97.26	9.73	19.26	126.24
2714	473371004	7	684277	27831	KALMIA AVE	493.89	49.39	97.79	641.06
2715	473371012	4	684277	11659	VALLE LINDO	302.88	30.29	59.97	393.14
2716	473373003	2	684277	27927	KALMIA AVE	372.88	37.29	73.83	484.00
2717	473373006	5	684277	27999	KALMIA AVE	625.92	62.59	123.93	812.44
2718	473382001	8	684277	11670	VALLE LINDO	117.80	11.78	23.32	152.90
2719	473382007	4	684277	11691	VIA COLINA	378.50	37.85	74.94	491.28
2720	473383002	2	684277	11722	VIA COLINA	493.99	49.40	97.81	641.20
2721	473384002	5	684277	11670	KNOLL VISTA ST	74.37	7.44	14.73	96.54
2722	473391001	6	684277	11285	QUINCY ST	372.88	37.29	73.83	484.00
2723	473391015	9	684277	11422	LADD AVE	372.88	37.29	73.83	484.00
2724	473391023	6	684277	28411	LOCUST AVE	172.06	17.21	34.07	223.34
2725	473401005	0	684277	11379	EDMONSON AVE	284.72	28.47	56.37	369.56
2726	473401020	3	684277	28270	KALMIA AVE	1048.50	104.85	207.60	1360.94

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
2727	473402004	2	684277	11422	EDMONSON AVE	372.88	37.29	73.83	484.00
2728	473412003	2	684277	11315	LINDLEY LN	305.54	30.55	60.50	396.58
2729	473412015	3	684277	27905	MORREY LN	336.57	33.66	66.64	436.86
2730	473412016	4	684277	27931	MORREY LN	48.96	4.90	9.69	63.54
2731	474062001	6	684277	11200	PERRIS BLVD	141.18	14.12	27.95	183.24
2732	474063006	4	684277	25250	FRAN LOU DR	326.68	32.67	64.68	424.02
2733	474073001	0	684277	25021	JACLYN AVE	372.88	37.29	73.83	484.00
2734	474073002	1	684277	11321	COLEMAN ST	386.38	38.64	76.50	501.52
2735	474073003	2	684277	11341	COLEMAN ST	378.50	37.85	74.94	491.28
2736	474073004	3	684277	11361	COLEMAN ST	238.16	23.82	47.16	309.14
2737	474074006	8	684277	25155	JACLYN AVE	71.43	7.14	14.14	92.70
2738	474074013	4	684277	25124	LAMAYO AVE	372.88	37.29	73.83	484.00
2739	474075005	0	684277	25125	LAMAYO AVE	155.12	15.51	30.71	201.34
2740	474081004	8	684277	25258	JACLYN AVE	372.88	37.29	73.83	484.00
2741	474084010	2	684277	25359	JACLYN AVE	376.96	37.70	74.64	489.30
2742	474084012	4	684277	25389	JACLYN AVE	326.68	32.67	64.68	424.02
2743	474084015	7	684277	11345	SPLENDOR WAY	305.54	30.55	60.50	396.58
2744	474084028	9	684277	25426	ALPHA ST	310.07	31.01	61.39	402.46
2745	474084030	0	684277	25427	ALPHA ST	163.96	16.40	32.46	212.82
2746	474110031	1	684277	11331	LASSELLE ST	91.41	9.14	18.10	118.64
2747	474110034	4	684277	11395	LASSELLE ST	493.99	49.40	97.81	641.20
2748	474110038	8	684277	25890	KALMIA AVE	506.15	50.62	100.22	656.98
2749	474110045	4	684277	11261	LASSELLE ST	81.54	8.15	16.14	105.82
2750	474110047	6	684277	11303	LASSELLE ST	372.88	37.29	73.83	484.00
2751	474130019	3	684277	25428	VALLEY VIEW LN	434.73	43.47	86.08	564.28
2752	474130023	6	684277	25446	MOUNTAIN CLIFF DR	378.50	37.85	74.94	491.28
2753	474141018	6	684277	11683	IVY LN	378.50	37.85	74.94	491.28
2754	474141020	7	684277	11690	MATHEWS RD	176.43	17.64	34.93	229.00
2755	474141023	0	684277	11730	MATHEWS RD	252.40	25.24	49.98	327.62

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

Column Totals	2,003,753.76	200,377.97	396,739.88	2,600,843.48
Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
2756	474142010	1	684277	11696	IVY LN	479.94	47.99	95.03	622.96
2757	474151011	0	684277	11821	IVY LN	493.89	49.39	97.79	641.06
2758	474151013	2	684277	11825	IVY LN	71.43	7.14	14.14	92.70
2759	474151034	1	684277	11850	FRANKLIN ST	245.07	24.51	48.52	318.10
2760	474152004	7	684277	11765	KITCHING ST	864.69	86.47	171.21	1122.36
2761	474152004	7	684277	11761	KITCHING ST	864.69	86.47	171.21	1122.36
2762	474152005	8	684277	11791	KITCHING ST	408.00	40.80	80.78	529.58
2763	474152005	8	684277	11795	KITCHING ST	408.00	40.80	80.78	529.58
2764	474161032	0	684277	11981	FRANKLIN ST	134.36	13.44	26.60	174.40
2765	474162001	5	684277	11870	IVY LN	211.04	21.10	41.79	273.92
2766	474162002	6	684277	11890	IVY LN	493.99	49.40	97.81	641.20
2767	474162003	7	684277	11920	IVY LN	322.88	32.29	63.93	419.10
2768	474162007	1	684277	11980	IVY LN	349.12	34.91	69.13	453.16
2769	474162015	8	684277	11945	KITCHING ST	493.99	49.40	97.81	641.20
2770	474170003	2	684277	11530	KITCHING ST	372.88	37.29	73.83	484.00
2771	474170004	3	684277	11560	KITCHING ST	71.43	7.14	14.14	92.70
2772	474170019	7	684277	11575	KAYAL AVE	485.05	48.51	96.04	629.60
2773	474180013	2	684277	25580	OVERLOOK CIR	378.50	37.85	74.94	491.28
2774	474180025	3	684277	11699	KAYAL AVE	93.09	9.31	18.43	120.82
2775	474181010	2	684277	25659	FICUS CT	304.24	30.42	60.24	394.90
2776	474181016	8	684277	25648	FICUS CT	343.49	34.35	68.01	445.84
2777	474181024	5	684277	11689	SLAWSON AVE	357.51	35.75	70.79	464.04
2778	474200010	0	684277	11545	LASSELLE ST	378.50	37.85	74.94	491.28
2779	474200021	0	684277	11565	LASSELLE ST	71.43	7.14	14.14	92.70
2780	474210011	2	684277	26269	EARLEY WAY	372.88	37.29	73.83	484.00
2781	474220011	3	684277	26191	KALMIA AVE	172.06	17.21	34.07	223.34
2782	474220012	4	684277	26203	KALMIA AVE	486.54	48.65	96.33	631.52
2783	474220018	0	684277	26333	KALMIA AVE	144.69	14.47	28.65	187.80
2784	474220025	6	684277	26340	KALMIA AVE	493.99	49.40	97.81	641.20

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
2785	474220030	0	684277	26300	KALMIA AVE	125.07	12.51	24.76	162.34
2786	474220045	4	684277	26140	KALMIA AVE	359.26	35.93	71.13	466.32
2787	474230006	0	684277	26555	KALMIA AVE	326.77	32.68	64.70	424.14
2788	474250023	7	684277	26480	IRONWOOD AVE	174.33	17.43	34.52	226.28
2789	474272007	1	684277	26920	SANDI LN	372.88	37.29	73.83	484.00
2790	474272016	9	684277	26870	IRONWOOD AVE	166.79	16.68	33.02	216.48
2791	474273002	9	684277	26563	IRONWOOD AVE	995.64	99.56	197.14	1292.34
2792	474273002	9	684277	26550	IRONWOOD AVE	995.64	99.56	197.14	1292.34
2793	474273009	6	684277	26765	IRONWOOD AVE	281.43	28.14	55.72	365.28
2794	474283001	9	684277	25485	JACLYN AVE	205.66	20.57	40.72	266.94
2795	474283004	2	684277	25425	JACLYN AVE	475.03	47.50	94.06	616.58
2796	474291025	6	684277	11410	TROPIC CT	145.20	14.52	28.75	188.46
2797	474291033	3	684277	11410	RIVIERA CT	479.03	47.90	94.85	621.78
2798	474292001	7	684277	11411	COLEMAN ST	591.38	59.14	117.09	767.60
2799	474292020	4	684277	25100	KALMIA AVE	351.88	35.19	69.67	456.74
2800	474292027	1	684277	25036	KALMIA AVE	378.50	37.85	74.94	491.28
2801	474320002	4	684277	25920	FRAN LOU DR	372.88	37.29	73.83	484.00
2802	474320009	1	684277	25900	FRAN LOU DR	378.50	37.85	74.94	491.28
2803	474320021	1	684277	25905	FRAN LOU DR	145.20	14.52	28.75	188.46
2804	474333006	8	684277	11491	SUNAIRE PL	23.99	2.40	4.75	31.14
2805	474333009	1	684277	11433	SUNAIRE PL	66.91	6.69	13.25	86.84
2806	474333012	3	684277	25345	ALPHA ST	71.43	7.14	14.14	92.70
2807	474333016	7	684277	25271	ALPHA ST	485.05	48.51	96.04	629.60
2808	474333021	1	684277	25272	KALMIA AVE	91.41	9.14	18.10	118.64
2809	474342003	3	684277	11404	MAR EL ST	257.03	25.70	50.89	333.62
2810	474342004	4	684277	11422	MAR EL ST	372.88	37.29	73.83	484.00
2811	474351010	7	684277	26075	BERCAW CT	378.50	37.85	74.94	491.28
2812	474352001	2	684277	26188	MOUNTAIN RANCH RD	362.98	36.30	71.87	471.14
2813	474352005	6	684277	11540	STEEPLE CHASE DR	493.99	49.40	97.81	641.20

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
2814	474352010	0	684277	26210	MOUNTAIN RANCH RD	372.88	37.29	73.83	484.00
2815	474353004	8	684277	26240	NORTHSHORE DR	447.86	44.79	88.68	581.32
2816	474361026	3	684277	11665	STEEPLE CHASE DR	372.88	37.29	73.83	484.00
2817	474361027	4	684277	11685	STEEPLE CHASE DR	372.88	37.29	73.83	484.00
2818	474362009	1	684277	11701	VISTA DE CERROS DR	121.68	12.17	24.09	157.94
2819	474371012	1	684277	11820	LASSELLE ST	311.49	31.15	61.68	404.32
2820	474372008	1	684277	11901	VISTA DE CERROS DR	452.55	45.26	89.61	587.42
2821	474381005	6	684277	11900	LASSELLE ST	71.43	7.14	14.14	92.70
2822	474381011	1	684277	11990	LASSELLE ST	611.42	61.14	121.06	793.62
2823	474381012	2	684277	11991	ELAHL CT	493.99	49.40	97.81	641.20
2824	474381013	3	684277	11970	ELAHL CT	372.88	37.29	73.83	484.00
2825	474382001	5	684277	11910	STEEPLE CHASE DR	465.27	46.53	92.12	603.92
2826	474384001	1	684277	11938	VISTA DE CERROS DR	350.32	35.03	69.36	454.70
2827	474384001	1	684277	11938	VISTA DE CERROS DR	350.32	35.03	69.36	454.70
2828	474391001	3	684277	25112	QUEBRADA CT	372.88	37.29	73.83	484.00
2829	474391006	8	684277	25042	QUEBRADA CT	71.43	7.14	14.14	92.70
2830	474391008	0	684277	25031	QUEBRADA CT	258.94	25.89	51.27	336.10
2831	474393006	4	684277	11959	VILLA HERMOSA	71.43	7.14	14.14	92.70
2832	474393009	7	684277	11962	VENETIAN DR	372.88	37.29	73.83	484.00
2833	474393010	7	684277	11956	VENETIAN DR	292.47	29.25	57.91	379.62
2834	474394001	2	684277	11996	VILLA HERMOSA	355.09	35.51	70.31	460.90
2835	474394007	8	684277	11960	VILLA HERMOSA	296.26	29.63	58.66	384.54
2836	474394008	9	684277	11954	VILLA HERMOSA	372.88	37.29	73.83	484.00
2837	474401002	4	684277	11465	SAN FERNANDO ST	385.23	38.52	76.28	500.02
2838	474402005	0	684277	11401	KITCHING ST	493.99	49.40	97.81	641.20
2839	474402007	2	684277	11361	KITCHING ST	372.88	37.29	73.83	484.00
2840	474402015	9	684277	11400	SAN FERNANDO ST	372.88	37.29	73.83	484.00
2841	474402022	5	684277	25462	KALMIA AVE	316.20	31.62	62.61	410.42
2842	474403002	0	684277	11345	SAN FERNANDO ST	415.62	41.56	82.29	539.46

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
2843	474404004	5	684277	11380	KITCHING ST	321.68	32.17	63.69	417.54
2844	474410002	2	684277	26280	HORIZON WAY	346.68	34.67	68.64	449.98
2845	474410003	3	684277	26300	HORIZON WAY	897.96	89.80	177.80	1165.56
2846	474410004	4	684277	26281	HORIZON WAY	356.44	35.64	70.57	462.64
2847	474410010	9	684277	26340	MOUNTAIN RANCH RD	372.88	37.29	73.83	484.00
2848	474420010	0	684277	24472	OLD COUNTRY RD	807.34	80.73	159.85	1047.92
2849	474420010	0	684277	24460	OLD COUNTRY RD	807.34	80.73	159.85	1047.92
2850	474431002	7	684277	24248	HARVEST RD	355.68	35.57	70.43	461.68
2851	474431003	8	684277	24260	HARVEST RD	353.34	35.33	69.96	458.62
2852	474431018	2	684277	24290	ELM CREEK CIR	357.79	35.78	70.84	464.40
2853	474431023	6	684277	24251	ELM CREEK CIR	371.68	37.17	73.59	482.44
2854	474431023	6	684277	24251	ELM CREEK CIR	371.68	37.17	73.59	482.44
2855	474431030	2	684277	24322	BARLEY RD	493.99	49.40	97.81	641.20
2856	474432005	3	684277	24363	BARLEY RD	324.67	32.47	64.29	421.42
2857	474433002	3	684277	24424	WILLOW RUN RD	372.88	37.29	73.83	484.00
2858	474433004	5	684277	24450	WILLOW RUN RD	206.20	20.62	40.83	267.64
2859	474433015	5	684277	24489	BROWN DOVE CIR	326.68	32.67	64.68	424.02
2860	474441005	1	684277	24207	BARLEY RD	378.50	37.85	74.94	491.28
2861	474441014	9	684277	24288	OLD COUNTRY RD	467.67	46.77	92.60	607.04
2862	474441015	0	684277	24300	OLD COUNTRY RD	372.88	37.29	73.83	484.00
2863	474442001	0	684277	24311	OLD COUNTRY RD	351.46	35.15	69.59	456.20
2864	474442003	2	684277	24289	OLD COUNTRY RD	399.02	39.90	79.01	517.92
2865	474442007	6	684277	10959	TEA BARK RD	980.08	98.01	194.06	1272.14
2866	474442009	8	684277	10933	TEA BARK RD	198.96	19.90	39.39	258.24
2867	474443023	3	684277	10902	TEA BARK RD	378.50	37.85	74.94	491.28
2868	474451017	3	684277	24151	PLEASANT RUN RD	366.07	36.61	72.48	475.16
2869	474451020	5	684277	24191	PLEASANT RUN RD	493.99	49.40	97.81	641.20
2870	474453008	1	684277	10933	OAK RUN CIR	186.04	18.60	36.84	241.48
2871	474453019	1	684277	24105	OLD COUNTRY RD	454.42	45.44	89.97	589.82

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Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
2872	474453020	1	684277	24097	OLD COUNTRY RD	372.88	37.29	73.83	484.00
2873	474454006	2	684277	24177	BARLEY RD	170.12	17.01	33.68	220.80
2874	474461010	7	684277	10827	FENTON RD	378.50	37.85	74.94	491.28
2875	474461011	8	684277	10843	FENTON RD	215.94	21.59	42.76	280.28
2876	474461012	9	684277	10859	FENTON RD	378.50	37.85	74.94	491.28
2877	474462012	2	684277	24102	BARLEY RD	486.54	48.65	96.33	631.52
2878	474462016	6	684277	24032	BARLEY RD	179.03	17.90	35.45	232.38
2879	474462021	0	684277	24077	BARLEY RD	21.43	2.14	4.24	27.80
2880	474462023	2	684277	24107	BARLEY RD	319.90	31.99	63.34	415.22
2881	474462027	6	684277	24066	OLD COUNTRY RD	238.16	23.82	47.16	309.14
2882	474463009	3	684277	24080	ORANGECREEK CIR	378.50	37.85	74.94	491.28
2883	474471013	1	684277	24445	RIMVIEW RD	217.24	21.72	43.01	281.96
2884	474471014	2	684277	24433	RIMVIEW RD	121.43	12.14	24.04	157.60
2885	474471014	2	684277	24433	RIMVIEW RD	121.43	12.14	24.04	157.60
2886	474471020	7	684277	24343	RIMVIEW RD	50.00	5.00	9.90	64.90
2887	474471023	0	684277	24414	PEPPERMILL DR	440.75	44.08	87.27	572.10
2888	474471031	7	684277	10472	SAGECREST DR	354.52	35.45	70.19	460.16
2889	474471037	3	684277	10437	SAGECREST DR	378.50	37.85	74.94	491.28
2890	474471039	5	684277	10457	SAGECREST DR	378.50	37.85	74.94	491.28
2891	474472011	2	684277	24475	PEPPERMILL DR	477.72	47.77	94.59	620.08
2892	474472012	3	684277	24487	PEPPERMILL DR	372.88	37.29	73.83	484.00
2893	474481010	9	684277	24198	RIMVIEW RD	493.99	49.40	97.81	641.20
2894	474481017	6	684277	24117	RIMVIEW RD	346.03	34.60	68.51	449.14
2895	474481022	0	684277	24155	RIMVIEW RD	96.00	9.60	19.01	124.60
2896	474482004	7	684277	10634	ASTER LEAF LN	813.76	81.38	161.13	1056.26
2897	474482009	2	684277	24265	RIMVIEW RD	262.46	26.25	51.97	340.68
2898	474482010	2	684277	24255	RIMVIEW RD	342.80	34.28	67.87	444.94
2899	474482017	9	684277	10671	DAISY FIELD LN	485.05	48.51	96.04	629.60
2900	474511014	5	684277	10476	WATERCRESS CIR	71.43	7.14	14.14	92.70

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Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
2901	474511028	8	684277	10460	SALTBUSH CIR	372.88	37.29	73.83	484.00
2902	474511031	0	684277	10494	SALTBUSH CIR	372.88	37.29	73.83	484.00
2903	474512009	4	684277	10556	HILL GRASS DR	372.88	37.29	73.83	484.00
2904	474513001	9	684277	24536	CANDLEBUSH CT	372.88	37.29	73.83	484.00
2905	474513012	9	684277	10557	HILL GRASS DR	176.43	17.64	34.93	229.00
2906	474521007	0	684277	10752	ANEMONE CIR	47.87	4.79	9.48	62.14
2907	474522010	5	684277	24598	WIND FLOWER DR	361.13	36.11	71.50	468.74
2908	474523008	7	684277	10719	HILL GRASS DR	372.88	37.29	73.83	484.00
2909	474523017	5	684277	10732	ROCK ROSE PL	372.88	37.29	73.83	484.00
2910	474523019	7	684277	24600	JASMINE CT	378.50	37.85	74.94	491.28
2911	474523027	4	684277	24625	JASMINE CT	372.88	37.29	73.83	484.00
2912	474523028	5	684277	24617	JASMINE CT	166.63	16.66	32.99	216.28
2913	474523029	6	684277	24607	JASMINE CT	372.88	37.29	73.83	484.00
2914	474525002	7	684277	24716	WILD CALLA DR	95.07	9.51	18.82	123.40
2915	474532012	8	684277	24535	WISTERIA LN	465.31	46.53	92.13	603.96
2916	474532016	2	684277	24584	WILD CALLA DR	95.00	9.50	18.81	123.30
2917	474532025	0	684277	24680	WILD CALLA DR	143.72	14.37	28.46	186.54
2918	474532027	2	684277	24700	WILD CALLA DR	372.88	37.29	73.83	484.00
2919	474533004	4	684277	24553	WILD CALLA DR	158.99	15.90	31.48	206.36
2920	474533013	2	684277	10881	ANEMONE CIR	453.32	45.33	89.76	588.40
2921	474533015	4	684277	10853	ANEMONE CIR	285.97	28.60	56.62	371.18
2922	474533016	5	684277	10837	ANEMONE CIR	385.23	38.52	76.28	500.02
2923	474534002	5	684277	24719	WILD CALLA DR	378.50	37.85	74.94	491.28
2924	474541002	7	684277	24631	SHAGBARK RD	486.54	48.65	96.33	631.52
2925	474541006	1	684277	24703	CANDLENUT CT	371.15	37.12	73.49	481.76
2926	474541018	2	684277	24824	CANDLENUT CT	158.99	15.90	31.48	206.36
2927	474541019	3	684277	24822	CANDLENUT CT	305.54	30.55	60.50	396.58
2928	474541020	3	684277	24808	CANDLENUT CT	372.88	37.29	73.83	484.00
2929	474541022	5	684277	24784	CANDLENUT CT	93.09	9.31	18.43	120.82

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

Column Totals	2,003,753.76	200,377.97	396,739.88	2,600,843.48
Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
2930	474541030	2	684277	24741	PLUMTREE CT	486.54	48.65	96.33	631.52
2931	474541033	5	684277	24773	PLUMTREE CT	71.43	7.14	14.14	92.70
2932	474541034	6	684277	24783	PLUMTREE CT	372.88	37.29	73.83	484.00
2933	474541036	8	684277	24801	PLUMTREE CT	27.78	2.78	5.50	36.06
2934	474541039	1	684277	24780	PLUMTREE CT	71.43	7.14	14.14	92.70
2935	474541043	4	684277	24735	THORNBERRY CIR	336.98	33.70	66.72	437.40
2936	474541048	9	684277	24766	THORNBERRY CIR	372.88	37.29	73.83	484.00
2937	474541050	0	684277	24746	THORNBERRY CIR	372.88	37.29	73.83	484.00
2938	474551005	1	684277	10861	MORNING RIDGE DR	378.50	37.85	74.94	491.28
2939	474552004	3	684277	10860	CLOUD HAVEN DR	311.20	31.12	61.62	403.94
2940	474553016	7	684277	24879	MANZANITA AVE	282.52	28.25	55.94	366.70
2941	474553020	0	684277	24969	MANZANITA AVE	114.38	11.44	22.65	148.46
2942	474561006	3	684277	10655	MORNING RIDGE DR	371.78	37.18	73.61	482.56
2943	474562014	3	684277	10638	SUMMER BREEZE DR	248.61	24.86	49.22	322.68
2944	474562019	8	684277	10562	SUMMER BREEZE DR	372.88	37.29	73.83	484.00
2945	474563001	4	684277	10561	SUMMER BREEZE DR	378.50	37.85	74.94	491.28
2946	474563009	2	684277	10628	MORNING RIDGE DR	809.88	80.99	160.36	1051.22
2947	474563012	4	684277	24792	EARLY MORN LN	473.12	47.31	93.68	614.10
2948	474573006	0	684277	24683	MORNING MIST DR	321.68	32.17	63.69	417.54
2949	474574007	4	684277	24874	COVEY RD	503.03	50.30	99.60	652.92
2950	474574009	6	684277	24836	COVEY RD	493.99	49.40	97.81	641.20
2951	474576006	9	684277	24701	COVEY RD	378.50	37.85	74.94	491.28
2952	474577001	7	684277	10546	SUMMER BREEZE DR	133.42	13.34	26.42	173.18
2953	474581002	1	684277	10399	MORNING RIDGE DR	378.50	37.85	74.94	491.28
2954	474581006	5	684277	24658	DARKSTAR DR	321.68	32.17	63.69	417.54
2955	474581011	9	684277	24728	DARKSTAR DR	378.50	37.85	74.94	491.28
2956	474583007	2	684277	24781	MOONSHADOW DR	378.50	37.85	74.94	491.28
2957	474584006	4	684277	24722	MOONSHADOW DR	493.99	49.40	97.81	641.20
2958	474584009	7	684277	24678	MOONSHADOW DR	332.65	33.27	65.87	431.78

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
2959	474601002	2	684277	10620	CANYON VISTARD	372.88	37.29	73.83	484.00
2960	474602006	9	684277	10691	PARK RIM CIR	485.05	48.51	96.04	629.60
2961	474602008	1	684277	10721	PARK RIM CIR	378.50	37.85	74.94	491.28
2962	474602024	5	684277	10589	CANYON VISTA RD	378.50	37.85	74.94	491.28
2963	474602026	7	684277	24090	CANYON WOODS CIR	707.21	70.72	140.03	917.96
2964	474602030	0	684277	24099	CANYON WOODS CIR	203.96	20.40	40.38	264.74
2965	474611011	1	684277	10450	CANYON VISTA RD	372.88	37.29	73.83	484.00
2966	474611013	3	684277	10430	CANYON VISTA RD	378.50	37.85	74.94	491.28
2967	474611018	8	684277	10380	CANYON VISTA RD	122.40	12.24	24.24	158.88
2968	474612003	7	684277	24260	EAGLE VALLEY CIR	71.43	7.14	14.14	92.70
2969	474612009	3	684277	24240	SUMMIT RIDGE CIR	361.39	36.14	71.56	469.08
2970	474612016	9	684277	24210	SHADY RIDGE CIR	71.43	7.14	14.14	92.70
2971	474612018	1	684277	24185	SHADY RIDGE CIR	452.87	45.29	89.67	587.82
2972	474612022	4	684277	24170	COUNTRY CANYON RD	350.24	35.02	69.35	454.60
2973	474621005	7	684277	10330	CANYON VISTA RD	45.00	4.50	8.91	58.40
2974	474621008	0	684277	10300	CANYON VISTA RD	591.38	59.14	117.09	767.60
2975	474622006	1	684277	24360	RIMCREST LN	378.50	37.85	74.94	491.28
2976	474622011	5	684277	24323	RIMCREST LN	76.44	7.64	15.13	99.20
2977	474632010	5	684277	10215	CANYON VISTA RD	112.91	11.29	22.36	146.56
2978	474641007	1	684277	11849	VENETIAN DR	428.84	42.88	84.91	556.62
2979	474642002	9	684277	25225	BRISTOL AVE	311.34	31.13	61.64	404.10
2980	474643001	1	684277	11815	VILLA HERMOSA	385.23	38.52	76.28	500.02
2981	474643002	2	684277	11809	VILLA HERMOSA	372.88	37.29	73.83	484.00
2982	474643008	8	684277	11850	VENETIAN DR	493.99	49.40	97.81	641.20
2983	474643011	0	684277	11868	VENETIAN DR	385.23	38.52	76.28	500.02
2984	474643013	2	684277	11880	VENETIAN DR	118.16	11.82	23.40	153.38
2985	474643016	5	684277	11869	VILLA HERMOSA	133.42	13.34	26.42	173.18
2986	474651001	6	684277	25685	JAVIER PL	311.86	31.19	61.75	404.80
2987	474651002	7	684277	25677	JAVIER PL	372.88	37.29	73.83	484.00

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Customers with Invoice Item Dates in 2018**

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
2988	474651006	1	684277	25645	JAVIER PL	493.99	49.40	97.81	641.20
2989	474651010	4	684277	25654	JAVIER PL	182.88	18.29	36.21	237.38
2990	474651020	3	684277	25645	JASON PL	162.74	16.27	32.22	211.22
2991	474651030	2	684277	25691	SHALU AVE	385.23	38.52	76.28	500.02
2992	474651031	3	684277	25681	SHALU AVE	238.16	23.82	47.16	309.14
2993	474651040	1	684277	11904	TUSCOLA ST	378.50	37.85	74.94	491.28
2994	474660008	1	684277	25744	OAK CT	321.68	32.17	63.69	417.54
2995	474660021	2	684277	25731	POPLAR CT	378.78	37.88	75.00	491.66
2996	474673001	4	684277	11359	SAN RICARDO AVE	86.07	8.61	17.04	111.72
2997	474673004	7	684277	11419	SAN RICARDO AVE	397.15	39.72	78.64	515.50
2998	474673004	7	684277	11419	SAN RICARDO ST	397.15	39.72	78.64	515.50
2999	474674003	9	684277	25577	SAN THOMAS ST	320.28	32.03	63.42	415.72
3000	474675004	3	684277	25603	SAN ANTONIO ST	76.43	7.64	15.13	99.20
3001	474681001	9	684277	11360	RIDGEMONT DR	378.50	37.85	74.94	491.28
3002	474681009	7	684277	25577	SANTA BARBARA ST	155.12	15.51	30.71	201.34
3003	474681015	2	684277	25604	SANTA BARBARA ST	190.42	19.04	37.70	247.16
3004	474701012	0	684277	25208	ALTA VISTA DR	378.50	37.85	74.94	491.28
3005	474701015	3	684277	11016	OLD PERRIS BLVD	357.79	35.78	70.84	464.40
3006	474711011	0	684277	25306	ALTA VISTA DR	378.50	37.85	74.94	491.28
3007	474713005	1	684277	25315	PICO VISTA WAY	96.41	9.64	19.09	125.14
3008	474720007	5	684277	25426	FRAN LOU DR	729.30	72.93	144.40	946.62
3009	474720016	3	684277	25453	BIANCA CT	251.32	25.13	49.76	326.20
3010	474730008	7	684277	11864	CITRUS CT	142.32	14.23	28.18	184.72
3011	474730012	0	684277	11867	TUSCOLA ST	372.88	37.29	73.83	484.00
3012	474731010	1	684277	11763	NAVEL AVE	372.88	37.29	73.83	484.00
3013	474731011	2	684277	11770	JAFFA WAY	238.16	23.82	47.16	309.14
3014	474731019	0	684277	11670	NAVEL AVE	372.88	37.29	73.83	484.00
3015	474731021	1	684277	11659	NAVEL AVE	372.88	37.29	73.83	484.00
3016	474731022	2	684277	11665	NAVEL AVE	372.88	37.29	73.83	484.00

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
3017	474731023	3	684277	11673	NAVEL AVE	346.06	34.61	68.52	449.18
3018	474733005	3	684277	25579	TANGERINE RD	61.93	6.19	12.26	80.38
3019	474733008	6	684277	25566	SHALU AVE	336.98	33.70	66.72	437.40
3020	474733009	7	684277	25552	SHALU AVE	76.43	7.64	15.13	99.20
3021	475030023	4	684277	23978	QUAPAW TRL	183.58	18.36	36.35	238.28
3022	475032001	0	684277	24533	CHIPPEWA TRL	890.34	89.03	176.29	1155.66
3023	475032002	1	684277	24519	CHIPPEWA TRL	238.16	23.82	47.16	309.14
3024	475032017	5	684277	24309	CHIPPEWA TRL	76.67	7.67	15.18	99.52
3025	475032021	8	684277	24263	CHIPPEWA TRL	372.88	37.29	73.83	484.00
3026	475032026	3	684277	24280	ANGIE LN	503.03	50.30	99.60	652.92
3027	475050003	8	684277	11001	OLD PERRIS BLVD	100.00	10.00	19.80	129.80
3028	475050010	4	684277	24790	SUNDAY DR	186.45	18.65	36.92	242.02
3029	475050024	7	684277	24779	SUNDAY DR	341.68	34.17	67.65	443.50
3030	475050034	6	684277	24841	FREEDOM CT	71.43	7.14	14.14	92.70
3031	475050037	9	684277	24795	FREEDOM CT	357.79	35.78	70.84	464.40
3032	475050038	0	684277	24781	FREEDOM CT	336.50	33.65	66.63	436.78
3033	475070029	4	684277	24798	EL DORADO ST	372.88	37.29	73.83	484.00
3034	475070047	0	684277	24867	SKYLAND DR	378.50	37.85	74.94	491.28
3035	475080008	6	684277	11355	HUBBARD ST	114.75	11.48	22.72	148.94
3036	475081002	3	684277	24588	SKYLAND DR	357.79	35.78	70.84	464.40
3037	475081005	6	684277	24748	SKYLAND DR	451.36	45.14	89.37	585.86
3038	475081014	4	684277	24638	SKYLAND DR	378.50	37.85	74.94	491.28
3039	475081016	6	684277	24530	SKYLAND DR	375.56	37.56	74.36	487.48
3040	475082006	0	684277	24571	SKYLAND DR	421.95	42.20	83.55	547.70
3041	475082019	2	684277	24524	SKYROCK DR	352.06	35.21	69.71	456.98
3042	475082020	2	684277	24512	SKYROCK DR	372.88	37.29	73.83	484.00
3043	475082025	7	684277	24687	SKYLAND DR	344.32	34.43	68.18	446.92
3044	475082027	9	684277	24711	SKYLAND DR	485.99	48.60	96.23	630.82
3045	475082028	0	684277	24723	SKYLAND DR	372.88	37.29	73.83	484.00

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
3046	475082030	1	684277	24747	SKYLAND DR	493.99	49.40	97.81	641.20
3047	475083003	0	684277	24553	SKYROCK DR	372.88	37.29	73.83	484.00
3048	475090021	8	684277	11290	DAVIS ST	77.00	7.70	15.25	99.94
3049	475100003	2	684277	11279	DAVIS ST	414.73	41.47	82.12	538.32
3050	475100003	2	684277	11279	DAVIS ST	414.73	41.47	82.12	538.32
3051	475100008	7	684277	11275	DAVIS ST	429.57	42.96	85.06	557.58
3052	475100009	8	684277	11277	DAVIS ST	378.50	37.85	74.94	491.28
3053	475100021	8	684277	24010	SANDY GLADE AVE	609.73	60.97	120.73	791.42
3054	475100025	2	684277	24066	SANDY GLADE AVE	93.09	9.31	18.43	120.82
3055	475100029	6	684277	24083	ROSELEAF PL	254.58	25.46	50.41	330.44
3056	475100050	4	684277	11314	GREEN GLEN ST	210.05	21.01	41.59	272.64
3057	475100058	2	684277	11348	BLUEWOOD PL	261.44	26.14	51.76	339.34
3058	475100060	3	684277	11361	SAGEWOOD PL	56.22	5.62	11.13	72.96
3059	475100061	4	684277	11347	SAGEWOOD PL	385.23	38.52	76.28	500.02
3060	475100071	3	684277	11273	DAVIS ST	372.88	37.29	73.83	484.00
3061	475100073	5	684277	11281	DAVIS ST	50.00	5.00	9.90	64.90
3062	475110003	6	684277	24039	SANDY GLADE AVE	372.88	37.29	73.83	484.00
3063	475110006	9	684277	24081	SANDY GLADE AVE	609.73	60.97	120.73	791.42
3064	475110102	2	684277	24121	SANDY GLADE AVE	465.15	46.52	92.10	603.76
3065	475110290	0	684277	11396	SANDSTONE PL	378.50	37.85	74.94	491.28
3066	475110355	5	684277	11453	SANDSTONE PL	372.88	37.29	73.83	484.00
3067	475110519	9	684277	11421	DAVIS ST	378.50	37.85	74.94	491.28
3068	475112001	7	684277	24011	SANDBOW ST	372.88	37.29	73.83	484.00
3069	475112003	9	684277	24043	SANDBOW ST	366.20	36.62	72.51	475.32
3070	475120003	4	684277	11479	DAYBREAK TRL	141.80	14.18	28.08	184.06
3071	475120005	6	684277	11455	DAYBREAK TRL	378.50	37.85	74.94	491.28
3072	475131001	6	684277	11381	BRIGHT STAR TRL	493.99	49.40	97.81	641.20
3073	475131004	9	684277	11417	BRIGHT STAR TRL	364.74	36.47	72.22	473.42
3074	475132003	1	684277	24591	SUNDIAL WAY	50.00	5.00	9.90	64.90

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
3075	475132005	3	684277	24635	SUNDIAL WAY	378.50	37.85	74.94	491.28
3076	475132006	4	684277	24655	SUNDIAL WAY	152.88	15.29	30.27	198.44
3077	475132014	1	684277	24855	SUNDIAL WAY	205.53	20.55	40.69	266.76
3078	475132014	1	684277	24855	SUNDIAL WAY	205.53	20.55	40.69	266.76
3079	475132017	4	684277	24915	SUNDIAL WAY	364.02	36.40	72.08	472.50
3080	475132018	5	684277	24927	SUNDIAL WAY	372.88	37.29	73.83	484.00
3081	475132020	6	684277	24951	SUNDIAL WAY	59.27	5.93	11.74	76.94
3082	475133005	6	684277	24696	SUNDIAL WAY	372.88	37.29	73.83	484.00
3083	475133007	8	684277	24758	SUNDIAL WAY	345.91	34.59	68.49	448.98
3084	475133009	0	684277	24808	SUNDIAL WAY	485.05	48.51	96.04	629.60
3085	475133015	5	684277	24825	MOONTIDE LN	372.88	37.29	73.83	484.00
3086	475133017	7	684277	24781	MOONTIDE LN	547.44	54.74	108.39	710.56
3087	475134003	7	684277	24650	MOONTIDE LN	372.88	37.29	73.83	484.00
3088	475134008	2	684277	24782	MOONTIDE LN	421.95	42.20	83.55	547.70
3089	475141004	0	684277	24774	RED RIVER RD	216.80	21.68	42.93	281.40
3090	475141010	5	684277	24860	RED RIVER RD	508.69	50.87	100.72	660.28
3091	475141014	9	684277	24843	RED RIVER RD	233.20	23.32	46.17	302.68
3092	475141019	4	684277	24842	ROCK SPRINGS TRL	71.43	7.14	14.14	92.70
3093	475141020	4	684277	24858	ROCK SPRING TRL	493.99	49.40	97.81	641.20
3094	475141031	4	684277	11473	PERRIS BLVD	385.23	38.52	76.28	500.02
3095	475141035	8	684277	24950	GEM CT	372.88	37.29	73.83	484.00
3096	475141036	9	684277	24980	GEM CT	378.50	37.85	74.94	491.28
3097	475142001	0	684277	11430	HUBBARD ST	249.32	24.93	49.37	323.62
3098	475142004	3	684277	11470	HUBBARD ST	486.54	48.65	96.33	631.52
3099	475142005	4	684277	11490	HUBBARD ST	319.64	31.96	63.29	414.88
3100	475142005	4	684277	11490	HUBBARD ST	319.64	31.96	63.29	414.88
3101	475150005	9	684277	11531	PERRIS BLVD	495.37	49.54	98.08	642.98
3102	475150011	4	684277	11550	HUBBARD ST	687.64	68.76	136.15	892.54
3103	475150020	2	684277	24772	METRIC DR	47.32	4.73	9.37	61.42

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
3104	475150024	6	684277	24820	METRIC DR	378.50	37.85	74.94	491.28
3105	475150036	7	684277	24785	METRIC DR	378.50	37.85	74.94	491.28
3106	475150044	4	684277	24880	METRIC DR	123.22	12.32	24.40	159.94
3107	475160010	4	684277	24706	HILTON DR	372.88	37.29	73.83	484.00
3108	475160014	8	684277	11567	HUBBARD ST	378.50	37.85	74.94	491.28
3109	475160039	1	684277	11552	PROSPERITY LN	261.80	26.18	51.84	339.82
3110	475160044	5	684277	11523	PROSPERITY LN	76.43	7.64	15.13	99.20
3111	475160048	9	684277	11567	PROSPERITY LN	409.58	40.96	81.10	531.64
3112	475170010	5	684277	11588	DAVIS ST	372.88	37.29	73.83	484.00
3113	475170018	3	684277	11598	SPYGLASS CIR	53.44	5.34	10.58	69.36
3114	475170020	4	684277	11572	SPYGLASS CIR	372.88	37.29	73.83	484.00
3115	475170026	0	684277	11515	SPYGLASS CIR	186.88	18.69	37.00	242.56
3116	475170028	2	684277	11543	SPYGLASS CIR	266.43	26.64	52.75	345.82
3117	475170032	5	684277	11597	SPYGLASS CIR	372.88	37.29	73.83	484.00
3118	475170035	8	684277	11568	SEAPORT CIR	373.35	37.34	73.92	484.60
3119	475170040	2	684277	11504	SEAPORT CIR	258.50	25.85	51.18	335.52
3120	475170042	4	684277	11525	SEAPORT CIR	372.88	37.29	73.83	484.00
3121	475170042	4	684277	11525	SEAPORT CIR	372.88	37.29	73.83	484.00
3122	475171007	6	684277	24311	MOONRAKER LN	192.08	19.21	38.03	249.32
3123	475171011	9	684277	24357	MOONRAKER LN	372.88	37.29	73.83	484.00
3124	475171015	3	684277	24405	MOONRAKER LN	376.18	37.62	74.48	488.28
3125	475172007	9	684277	11539	RIDGECREST LN	158.13	15.81	31.31	205.24
3126	475172009	1	684277	11559	RIDGECREST LN	144.14	14.41	28.54	187.08
3127	475172010	1	684277	11569	RIDGECREST LN	378.50	37.85	74.94	491.28
3128	475181027	5	684277	11517	TRIUMPH LN	376.96	37.70	74.64	489.30
3129	475181032	9	684277	11573	LEISURE WAY	415.62	41.56	82.29	539.46
3130	475182013	5	684277	11557	DAVIS ST	270.42	27.04	53.54	351.00
3131	475182021	2	684277	11521	DAVIS ST	80.00	8.00	15.84	103.84
3132	475182032	2	684277	11591	KASBA CIR	76.43	7.64	15.13	99.20

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

Column Totals	2,003,753.76	200,377.97	396,739.88	2,600,843.48
Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
3133	475182037	7	684277	11618	KASBA CIR	372.40	37.24	73.74	483.38
3134	475190020	6	684277	11703	DAVIS ST	149.14	14.91	29.53	193.58
3135	475200003	1	684277	11672	DAVIS ST	378.50	37.85	74.94	491.28
3136	475200006	4	684277	24254	VIRGINIA LN	238.16	23.82	47.16	309.14
3137	475200014	1	684277	24304	VIRGINIA LN	227.20	22.72	44.99	294.90
3138	475200043	7	684277	11641	INDIAN ST	47.03	4.70	9.31	61.04
3139	475200046	0	684277	24379	WILLIS LN	378.50	37.85	74.94	491.28
3140	475200049	3	684277	11668	DAVIS ST	372.88	37.29	73.83	484.00
3141	475210019	7	684277	11723	HUBBARD ST	600.50	60.05	118.90	779.44
3142	475210027	4	684277	24583	TREASURE DR	378.50	37.85	74.94	491.28
3143	475210028	5	684277	24597	TREASURE DR	191.04	19.10	37.83	247.96
3144	475211004	6	684277	11671	DEFIANCE WAY	378.50	37.85	74.94	491.28
3145	475211005	7	684277	11685	DEFIANCE WAY	486.54	48.65	96.33	631.52
3146	475220012	1	684277	24868	VALECREST DR	139.70	13.97	27.66	181.32
3147	475220069	3	684277	11730	CAMINO DE LA VISTA DR	71.43	7.14	14.14	92.70
3148	475220070	3	684277	11744	CAMINO DE LA VISTA DR	77.86	7.79	15.42	101.06
3149	475221011	3	684277	24771	VALECREST DR	76.43	7.64	15.13	99.20
3150	475231014	7	684277	24821	REDCLIFF CT	42.24	4.22	8.36	54.82
3151	475231026	8	684277	24812	ENCHANTED WAY	312.88	31.29	61.95	406.12
3152	475231029	1	684277	24842	ENCHANTED WAY	344.96	34.50	68.30	447.76
3153	475231035	6	684277	11803	CAMINO DE LA VISTA DR	221.43	22.14	43.84	287.40
3154	475232010	6	684277	24763	ENCHANTED WAY	71.43	7.14	14.14	92.70
3155	475232021	6	684277	24881	ENCHANTED WAY	376.18	37.62	74.48	488.28
3156	475233010	9	684277	24960	ENCHANTED WAY	372.88	37.29	73.83	484.00
3157	475233016	5	684277	24945	CAMINO DE ORO WAY	378.50	37.85	74.94	491.28
3158	475233025	3	684277	24928	CAMINO DE ORO WAY	372.88	37.29	73.83	484.00
3159	475240028	8	684277	24596	COVINGTON WAY	378.50	37.85	74.94	491.28
3160	475240032	1	684277	11841	KILGORE ST	493.99	49.40	97.81	641.20
3161	475240040	8	684277	11867	HUBBARD ST	469.01	46.90	92.86	608.76

**MORENO VALLEY Tax Roll Listing 2019
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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
3162	475240040	8	684277	11867	HUBBARD ST	469.01	46.90	92.86	608.76
3163	475250035	5	684277	11854	DAVIS ST	162.81	16.28	32.24	211.32
3164	475250039	9	684277	24347	GROVEN LN	385.23	38.52	76.28	500.02
3165	475250048	7	684277	24317	GROVEN LN	367.64	36.76	72.79	477.18
3166	475250058	6	684277	24393	DUNLAVY CT	42.03	4.20	8.32	54.54
3167	475250074	0	684277	11859	INDIAN ST	265.61	26.56	52.59	344.76
3168	475251009	5	684277	24394	DUNLAVY CT	166.63	16.66	32.99	216.28
3169	475261010	6	684277	24072	GROVEN LN	251.86	25.19	49.87	326.92
3170	475261014	0	684277	24128	GROVEN LN	104.36	10.44	20.66	135.46
3171	475261033	7	684277	24057	MADOLE DR	87.73	8.77	17.37	113.86
3172	475262001	1	684277	24041	GROVEN LN	357.79	35.78	70.84	464.40
3173	475262016	5	684277	24207	GROVEN LN	234.74	23.47	46.48	304.68
3174	475263013	5	684277	11775	NOTNIL CT	99.89	9.99	19.78	129.66
3175	475263019	1	684277	11777	GLADWAY CT	378.50	37.85	74.94	491.28
3176	475263027	8	684277	24196	MADOLE DR	378.50	37.85	74.94	491.28
3177	475264005	1	684277	11773	LANCEWOOD DR	128.53	12.85	25.45	166.82
3178	475271003	1	684277	24037	KERNWOOD DR	372.88	37.29	73.83	484.00
3179	475271010	7	684277	11989	TABOR DR	378.50	37.85	74.94	491.28
3180	475272016	6	684277	24093	SETON PL	357.79	35.78	70.84	464.40
3181	475272019	9	684277	11881	ZANTAR LN	493.99	49.40	97.81	641.20
3182	475272048	5	684277	11885	DAVIS ST	286.74	28.67	56.77	372.18
3183	475272058	4	684277	24192	IRONWOOD AVE	378.50	37.85	74.94	491.28
3184	475280021	5	684277	24438	IRONWOOD AVE	356.08	35.61	70.50	462.18
3185	475280058	9	684277	24291	KIMBERLY AVE	238.16	23.82	47.16	309.14
3186	475280091	8	684277	24446	IRONWOOD AVE	372.88	37.29	73.83	484.00
3187	475280092	9	684277	24284	IRONWOOD AVE	301.89	30.19	59.77	391.84
3188	475292004	7	684277	11921	HUBBARD ST	372.88	37.29	73.83	484.00
3189	475292013	5	684277	11950	KILGORE ST	357.31	35.73	70.75	463.78
3190	475293010	5	684277	11884	INDIAN ST	71.86	7.19	14.23	93.28

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
3191	475293012	7	684277	11901	OHIO ST	372.88	37.29	73.83	484.00
3192	475293015	0	684277	11927	OHIO ST	486.54	48.65	96.33	631.52
3193	475293017	2	684277	24550	IRONWOOD AVE	305.00	30.50	60.39	395.88
3194	475293018	3	684277	24546	IRONWOOD AVE	385.23	38.52	76.28	500.02
3195	475293019	4	684277	24540	IRONWOOD AVE	90.16	9.02	17.85	117.02
3196	475293027	1	684277	11899	WELLER PL	378.50	37.85	74.94	491.28
3197	475293036	9	684277	11982	WELLER PL	780.80	78.08	154.60	1013.48
3198	475293043	5	684277	11923	WELBY PL	224.23	22.42	44.40	291.04
3199	475293055	6	684277	11984	WELBY PL	302.88	30.29	59.97	393.14
3200	475293064	4	684277	11989	KILGORE ST	486.54	48.65	96.33	631.52
3201	475300015	1	684277	11964	FOUCH LN	305.54	30.55	60.50	396.58
3202	475300025	0	684277	11987	PERRIS BLVD	378.50	37.85	74.94	491.28
3203	475300035	9	684277	11933	MELODY LN	302.88	30.29	59.97	393.14
3204	475300054	6	684277	24920	ESCONDIDO CT	372.88	37.29	73.83	484.00
3205	475300056	8	684277	11905	FOUCH LN	290.84	29.08	57.59	377.50
3206	475311018	8	684277	24570	ZUPPARDO WAY	79.74	7.97	15.79	103.50
3207	475311026	5	684277	24565	ZUPPARDO WAY	372.88	37.29	73.83	484.00
3208	475312031	2	684277	11229	SUNGLOW DR	358.88	35.89	71.06	465.82
3209	475313004	1	684277	24543	SUNNY RIDGE DR	273.30	27.33	54.11	354.74
3210	475313005	2	684277	24553	SUNNY RIDGE DR	378.50	37.85	74.94	491.28
3211	475313006	3	684277	24563	SUNNY RIDGE DR	321.68	32.17	63.69	417.54
3212	475313008	5	684277	24583	SUNNY RIDGE DR	378.50	37.85	74.94	491.28
3213	475314001	1	684277	11226	SUNGLOW DR	372.88	37.29	73.83	484.00
3214	475314002	2	684277	11212	SUNGLOW DR	378.50	37.85	74.94	491.28
3215	475321006	8	684277	24388	QUAPAW TRL	493.99	49.40	97.81	641.20
3216	475321023	3	684277	24062	QUAPAW TRL	378.50	37.85	74.94	491.28
3217	475322003	8	684277	24415	QUAPAW TRL	486.54	48.65	96.33	631.52
3218	475322005	0	684277	24381	QUAPAW TRL	372.88	37.29	73.83	484.00
3219	475322007	2	684277	24355	QUAPAW TRL	83.16	8.32	16.47	107.94

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Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
3220	475322017	1	684277	24418	PAWNEE TRL	486.54	48.65	96.33	631.52
3221	475322024	7	684277	24357	PAWNEE TRL	385.23	38.52	76.28	500.02
3222	475322025	8	684277	24343	PAWNEE TRL	90.19	9.02	17.86	117.06
3223	475322029	2	684277	24570	CHIPPEWA TRL	160.12	16.01	31.70	207.82
3224	475322033	5	684277	24313	QUAPAW TRL	300.00	30.00	59.40	389.40
3225	475331003	6	684277	24118	CHIPPEWA TRL	315.57	31.56	62.48	409.60
3226	475331004	7	684277	24134	CHIPPEWA TRL	378.50	37.85	74.94	491.28
3227	475331012	4	684277	24212	CHIPPEWA TRL	372.88	37.29	73.83	484.00
3228	475333004	3	684277	24165	BADGER SPRINGS TRL	236.74	23.67	46.87	307.28
3229	475333006	5	684277	24189	BADGER SPRINGS TRL	342.68	34.27	67.85	444.80
3230	475333008	7	684277	24211	BADGER SPRINGS TRL	378.50	37.85	74.94	491.28
3231	475333010	8	684277	24235	BADGER SPRINGS TRL	117.72	11.77	23.31	152.80
3232	475333011	9	684277	24011	BADGER SPRINGS TRL	378.50	37.85	74.94	491.28
3233	475333015	3	684277	24059	BADGER SPRINGS TRL	378.50	37.85	74.94	491.28
3234	475334003	5	684277	24044	ROYALE ST	354.28	35.43	70.15	459.86
3235	475335002	7	684277	24030	FORSYTE ST	372.88	37.29	73.83	484.00
3236	475335006	1	684277	24014	FORSYTE ST	139.12	13.91	27.55	180.58
3237	475335007	2	684277	24008	FORSYTE ST	378.50	37.85	74.94	491.28
3238	475341008	2	684277	24156	FORSYTE ST	372.88	37.29	73.83	484.00
3239	475341025	7	684277	24050	FORSYTE ST	352.22	35.22	69.74	457.18
3240	475342014	0	684277	24206	ROYALE ST	372.88	37.29	73.83	484.00
3241	475342025	0	684277	24088	ROYALE ST	372.88	37.29	73.83	484.00
3242	475342026	1	684277	24078	ROYALE ST	372.88	37.29	73.83	484.00
3243	475342029	4	684277	24045	FORSYTE ST	238.16	23.82	47.16	309.14
3244	475342035	9	684277	24103	FORSYTE ST	493.99	49.40	97.81	641.20
3245	475343004	4	684277	24165	ROYALE ST	378.50	37.85	74.94	491.28
3246	475343005	5	684277	24179	ROYALE ST	53.21	5.32	10.54	69.06
3247	475343008	8	684277	24219	ROYALE ST	48.16	4.82	9.54	62.52
3248	475351003	8	684277	24661	SUNNY RIDGE DR	378.50	37.85	74.94	491.28

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
3249	475351013	7	684277	24691	HUNTLEY DR	364.39	36.44	72.15	472.98
3250	475352018	5	684277	24706	HUNTLEY DR	84.76	8.48	16.78	110.02
3251	475352024	0	684277	24652	HUNTLEY DR	372.88	37.29	73.83	484.00
3252	475352037	2	684277	11065	HUBBARD ST	378.50	37.85	74.94	491.28
3253	475352041	5	684277	11117	HUBBARD ST	493.99	49.40	97.81	641.20
3254	475353011	1	684277	24746	SUNDAY DR	372.88	37.29	73.83	484.00
3255	475360010	2	684277	24643	DUNLAVY CT	259.16	25.92	51.31	336.38
3256	475360013	5	684277	24685	DUNLAVY CT	160.07	16.01	31.69	207.76
3257	477240015	0	684277	12190	MORRISON ST	238.16	23.82	47.16	309.14
3258	478040032	4	684277	13920	CURTIS CIR	71.43	7.14	14.14	92.70
3259	478050002	8	684277	28344	ALESSANDRO BLVD	529.28	52.93	104.80	687.00
3260	478050014	9	684277	13894	WALNUT CT	378.50	37.85	74.94	491.28
3261	478050017	2	684277	13938	WALNUT CT	477.00	47.70	94.45	619.14
3262	478070005	3	684277	28095	ALESSANDRO BLVD	372.88	37.29	73.83	484.00
3263	478070006	4	684277	28105	ALESSANDRO BLVD	344.02	34.40	68.12	446.54
3264	478131029	3	684277	28947	MALTYB AVE	378.50	37.85	74.94	491.28
3265	478131035	8	684277	28791	MALTYB AVE	537.44	53.74	106.41	697.58
3266	478132017	5	684277	28882	BRODIAEA AVE	55.63	5.56	11.01	72.20
3267	478132018	6	684277	28910	BRODIAEA AVE	76.43	7.64	15.13	99.20
3268	478132034	0	684277	28847	CAMPBELL AVE	817.87	81.79	161.94	1061.60
3269	478132036	2	684277	28915	CAMPBELL AVE	305.45	30.55	60.48	396.48
3270	478132037	3	684277	28963	CAMPBELL AVE	372.88	37.29	73.83	484.00
3271	478165018	8	684277	28815	KIMBERLY AVE	463.65	46.37	91.80	601.82
3272	478165076	0	684277	28989	KIMBERLY AVE	76.12	7.61	15.07	98.80
3273	478166001	5	684277	28765	ALESSANDRO BLVD	112.91	11.29	22.36	146.56
3274	478166003	7	684277	28819	ALESSANDRO BLVD	372.88	37.29	73.83	484.00
3275	478166009	3	684277	28873	ALESSANDRO BLVD	372.88	37.29	73.83	484.00
3276	478166013	6	684277	28929	ALESSANDRO BLVD	396.81	39.68	78.57	515.06
3277	478166013	6	684277	28929	ALESSANDRO BLVD	396.81	39.68	78.57	515.06

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Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
3278	478166014	7	684277	28949	ALESSANDRO BLVD	486.54	48.65	96.33	631.52
3279	478166020	2	684277	28766	KIMBERLY AVE	486.54	48.65	96.33	631.52
3280	478166037	8	684277	28839	ALESSANDRO BLVD	347.50	34.75	68.81	451.06
3281	478175011	2	684277	28882	ALESSANDRO BLVD	372.88	37.29	73.83	484.00
3282	478176003	8	684277	28835	WILLIAMS AVE	200.00	20.00	39.60	259.60
3283	478181027	6	684277	29062	WILLIAMS AVE	307.35	30.74	60.86	398.94
3284	478181054	0	684277	13910	REDLANDS BLVD	388.91	38.89	77.00	504.80
3285	478182012	5	684277	29062	ALESSANDRO BLVD	321.44	32.14	63.64	417.22
3286	478182036	7	684277	29111	WILLIAMS AVE	485.05	48.51	96.04	629.60
3287	478182048	8	684277	29144	ALESSANDRO BLVD	372.88	37.29	73.83	484.00
3288	478182056	5	684277	29125	WILLIAMS AVE	79.82	7.98	15.80	103.60
3289	478191035	4	684277	29249	BAY AVE	485.05	48.51	96.04	629.60
3290	478192032	4	684277	29103	STEVENS AVE	27.72	2.77	5.49	35.98
3291	478192038	0	684277	29120	GIFFORD AVE	605.72	60.57	119.93	786.22
3292	478201043	1	684277	28925	BAY AVE	493.99	49.40	97.81	641.20
3293	478201060	6	684277	28890	STEVENS AVE	943.48	94.35	186.81	1224.64
3294	478202041	2	684277	28971	STEVENS AVE	378.50	37.85	74.94	491.28
3295	478202083	0	684277	28845	STEVENS AVE	385.23	38.52	76.28	500.02
3296	478202087	4	684277	28919	STEVENS AVE	372.88	37.29	73.83	484.00
3297	478210068	2	684277	13680	STODDARD ST	705.04	70.50	139.60	915.14
3298	478261001	9	684277	28244	BAY AVE	486.54	48.65	96.33	631.52
3299	478261004	2	684277	28184	BAY AVE	485.05	48.51	96.04	629.60
3300	478261007	5	684277	28124	BAY AVE	43.85	4.39	8.68	56.92
3301	478261013	0	684277	28225	SEA BISCUIT ST	532.88	53.29	105.51	691.68
3302	478273004	9	684277	28040	WAR ADMIRAL ST	493.99	49.40	97.81	641.20
3303	478280003	0	684277	13550	WILMOT ST	378.50	37.85	74.94	491.28
3304	478280011	7	684277	13515	PLANTATION WAY	70.56	7.06	13.97	91.58
3305	478280016	2	684277	28834	MCABEE AVE	69.40	6.94	13.74	90.08
3306	478280038	2	684277	28974	MOLSON CT	372.88	37.29	73.83	484.00

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
3307	4782900118		684277	13710	CLEMSON CT	335.05	33.51	66.34	434.90
3308	4782900185		684277	13629	WILMOT ST	564.88	56.49	111.85	733.22
3309	4782910089		684277	28656	BELMONT PARK WAY	372.88	37.29	73.83	484.00
3310	4783010122		684277	13077	GERSHWIN WAY	503.03	50.30	99.60	652.92
3311	4783030140		684277	13142	MOZART WAY	372.88	37.29	73.83	484.00
3312	4783120083		684277	28690	HANDEL CT	212.62	21.26	42.10	275.98
3313	4783130019		684277	13141	SHUBERT ST	427.27	42.73	84.60	554.60
3314	4783200022		684277	14289	ANNADALE DR	378.50	37.85	74.94	491.28
3315	4783200066		684277	14347	ANNADALE DR	347.47	34.75	68.80	451.02
3316	4783200198		684277	28259	ARBORGLENN DR	372.88	37.29	73.83	484.00
3317	4783200208		684277	28269	ARBORGLENN DR	378.50	37.85	74.94	491.28
3318	4783220017		684277	14267	MORNINGSIDE DR	256.04	25.60	50.70	332.34
3319	4783220084		684277	14288	ANNADALE DR	372.88	37.29	73.83	484.00
3320	4783220116		684277	14336	ANNADALE DR	376.96	37.70	74.64	489.30
3321	4783220381		684277	14331	MORNINGSIDE DR	378.50	37.85	74.94	491.28
3322	4783220392		684277	14315	MORNINGSIDE DR	321.68	32.17	63.69	417.54
3323	4783220402		684277	14299	MORNINGSIDE DR	261.21	26.12	51.72	339.04
3324	4783300023		684277	28431	BRODIAEA AVE	42.06	4.21	8.33	54.60
3325	4783300144		684277	28382	ARBORGLENN DR	372.88	37.29	73.83	484.00
3326	4783300166		684277	28418	ARBORGLENN DR	493.99	49.40	97.81	641.20
3327	4783310093		684277	14328	ARBORGLENN DR	369.73	36.97	73.21	479.90
3328	4783410016		684277	28207	TRISTAN DR	486.54	48.65	96.33	631.52
3329	4783410072		684277	13783	PEYTON DR	378.50	37.85	74.94	491.28
3330	4783410083		684277	13763	PEYTON DR	362.98	36.30	71.87	471.14
3331	4783420086		684277	13821	CLARISSA CT	452.90	45.29	89.67	587.86
3332	4783420141		684277	13845	RODERICK DR	185.09	18.51	36.65	240.24
3333	4783510172		684277	28323	KEATON DR	372.88	37.29	73.83	484.00
3334	4783510215		684277	28304	BAY AVE	359.79	35.98	71.24	467.00
3335	4783510325		684277	28403	KEATON DR	378.50	37.85	74.94	491.28

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

Column Totals	2,003,753.76	200,377.97	396,739.88	2,600,843.48
Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
3336	478352003	2	684277	13690	OAKLEY DR	50.00	5.00	9.90	64.90
3337	478352013	1	684277	28385	CRISPIN DR	487.44	48.74	96.51	632.68
3338	478352015	3	684277	28345	CRISPIN DR	486.54	48.65	96.33	631.52
3339	478360007	1	684277	13510	KELTON CT	486.54	48.65	96.33	631.52
3340	478360010	3	684277	13570	KELTON CT	91.61	9.16	18.14	118.90
3341	478360012	5	684277	13610	KELTON CT	493.99	49.40	97.81	641.20
3342	478360024	6	684277	13568	BAXTER CT	347.50	34.75	68.81	451.06
3343	478361004	1	684277	13546	SOMERGATE DR	361.80	36.18	71.64	469.62
3344	478370003	8	684277	28917	LEXINGTON WAY	359.08	35.91	71.10	466.08
3345	478370012	6	684277	13278	CANTERBURY DOWNS WAY	372.88	37.29	73.83	484.00
3346	478371001	9	684277	13255	CANTERBURY DOWNS WAY	385.23	38.52	76.28	500.02
3347	478371003	1	684277	13295	CANTERBURY DOWNS WAY	75.12	7.51	14.87	97.50
3348	478371017	4	684277	13310	LOS ALAMITOS CT	248.78	24.88	49.26	322.92
3349	478371019	6	684277	28883	DRACAEA AVE	238.16	23.82	47.16	309.14
3350	478380005	1	684277	28845	LEXINGTON WAY	129.56	12.96	25.65	168.16
3351	478381003	2	684277	13325	LOS ALAMITOS CT	378.50	37.85	74.94	491.28
3352	478381011	9	684277	13388	TRIPLE CROWN CT	372.88	37.29	73.83	484.00
3353	478381015	3	684277	13308	TRIPLE CROWN CT	493.99	49.40	97.81	641.20
3354	478381025	2	684277	28847	DRACAEA AVE	221.73	22.17	43.90	287.80
3355	478382004	6	684277	28778	LEXINGTON WAY	372.49	37.25	73.75	483.48
3356	478390002	9	684277	13340	SANTA ANITA AVE	176.36	17.64	34.92	228.92
3357	478391003	3	684277	13373	SANTA ANITA AVE	378.50	37.85	74.94	491.28
3358	478391005	5	684277	13333	SANTA ANITA AVE	372.88	37.29	73.83	484.00
3359	478391006	6	684277	28675	SUFFOLK DOWNS WAY	465.31	46.53	92.13	603.96
3360	478391008	8	684277	13376	NOTTINGHAM AVE	378.50	37.85	74.94	491.28
3361	478393002	8	684277	13351	NOTTINGHAM AVE	493.99	49.40	97.81	641.20
3362	478400031	5	684277	13153	WEXFORD AVE	320.70	32.07	63.50	416.26
3363	478401005	5	684277	13100	ESSEN LN	378.50	37.85	74.94	491.28
3364	478402002	5	684277	28619	STRAUSS LN	600.44	60.04	118.89	779.36

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
3365	478410016	3	684277	28634	BAY MEADOWS AVE	303.96	30.40	60.18	394.54
3366	478412006	0	684277	13423	PRANCER LN	372.88	37.29	73.83	484.00
3367	478412027	9	684277	13333	WEXFORD AVE	372.88	37.29	73.83	484.00
3368	478420012	0	684277	29233	MALTY AVE	478.54	47.85	94.75	621.14
3369	478421008	0	684277	29235	CAMPBELL AVE	503.03	50.30	99.60	652.92
3370	478421011	2	684277	14230	HOTCHKISS ST	181.74	18.17	35.98	235.88
3371	478430005	5	684277	29170	KIMBERLY AVE	223.27	22.33	44.21	289.80
3372	478430007	7	684277	29070	KIMBERLY AVE	372.88	37.29	73.83	484.00
3373	478430016	5	684277	29075	ALESSANDRO BLVD	477.72	47.77	94.59	620.08
3374	478430019	8	684277	29095	ALESSANDRO BLVD	372.88	37.29	73.83	484.00
3375	478431012	4	684277	29054	MALTY AVE	321.68	32.17	63.69	417.54
3376	478431014	6	684277	29148	MALTY AVE	378.50	37.85	74.94	491.28
3377	478431017	9	684277	29040	MALTY AVE	228.60	22.86	45.26	296.72
3378	478431020	1	684277	29230	MALTY AVE	81.85	8.19	16.21	106.24
3379	479060003	7	684277	12655	KITCHING ST	337.37	33.74	66.80	437.90
3380	479060004	8	684277	12671	KITCHING ST	365.72	36.57	72.41	474.70
3381	479060016	9	684277	12656	LAURY LN	372.88	37.29	73.83	484.00
3382	479060032	3	684277	25392	TODD DR	500.88	50.09	99.17	650.14
3383	479060033	4	684277	25378	TODD DR	378.50	37.85	74.94	491.28
3384	479062004	4	684277	25339	TODD DR	372.88	37.29	73.83	484.00
3385	479062015	4	684277	12727	LAURY LN	378.50	37.85	74.94	491.28
3386	479062036	3	684277	25390	JUDITH PL	71.43	7.14	14.14	92.70
3387	479062039	6	684277	25348	JUDITH PL	267.97	26.80	53.06	347.82
3388	479090001	8	684277	25100	ATWOOD AVE	340.07	34.01	67.33	441.40
3389	479090016	2	684277	25164	ATWOOD AVE	394.88	39.49	78.19	512.56
3390	479090017	3	684277	25138	ATWOOD AVE	424.47	42.45	84.05	550.96
3391	479090038	2	684277	25119	EUCALYPTUS AVE	493.99	49.40	97.81	641.20
3392	479100009	6	684277	13026	SHIREBOURN RD	148.03	14.80	29.31	192.14
3393	479100010	6	684277	13040	SHIREBOURN RD	127.74	12.77	25.29	165.80

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
3394	479100010	6	684277	13040	SHIREBOURN RD	127.74	12.77	25.29	165.80
3395	479100011	7	684277	25300	RIVENDELL TER	364.14	36.41	72.10	472.64
3396	479100014	0	684277	25342	RIVENDELL TER	326.68	32.67	64.68	424.02
3397	479100017	3	684277	13010	THISTLE BROOK DR	385.23	38.52	76.28	500.02
3398	479100024	9	684277	13096	THISTLE BROOK DR	71.43	7.14	14.14	92.70
3399	479101005	5	684277	13107	SHIREBOURN RD	378.50	37.85	74.94	491.28
3400	479102006	9	684277	13064	SHIREBOURN RD	353.88	35.39	70.07	459.34
3401	479102007	0	684277	25301	RIVENDELL TER	185.18	18.52	36.67	240.36
3402	479102009	2	684277	25345	RIVENDELL TER	372.88	37.29	73.83	484.00
3403	479110004	5	684277	13167	SHIREBOURN RD	378.50	37.85	74.94	491.28
3404	479110007	8	684277	13205	SHIREBOURN RD	372.88	37.29	73.83	484.00
3405	479110009	0	684277	13231	SHIREBOURN RD	321.68	32.17	63.69	417.54
3406	479112005	9	684277	13235	THISTLE BROOK DR	212.97	21.30	42.17	276.44
3407	479112007	1	684277	13211	THISTLE BROOK DR	378.50	37.85	74.94	491.28
3408	479112009	3	684277	13133	THISTLE BROOK DR	357.22	35.72	70.73	463.66
3409	479112011	4	684277	13109	THISTLE BROOK DR	155.54	15.55	30.80	201.88
3410	479113003	0	684277	25350	DRACAEA AVE	500.88	50.09	99.17	650.14
3411	479113005	2	684277	25330	DRACAEA AVE	372.88	37.29	73.83	484.00
3412	479113012	8	684277	13214	THISTLE BROOK DR	153.44	15.34	30.38	199.16
3413	479113012	8	684277	13214	THISTLE BROOK DR	153.44	15.34	30.38	199.16
3414	479113018	4	684277	13142	THISTLE BROOK DR	331.20	33.12	65.58	429.90
3415	479113020	5	684277	13118	THISTLE BROOK DR	439.36	43.94	86.99	570.28
3416	479113046	9	684277	25418	STEFFY CIR	378.50	37.85	74.94	491.28
3417	479113051	3	684277	13134	TERRY CT	109.95	11.00	21.77	142.72
3418	479120002	1	684277	25039	ATWOOD AVE	54.82	5.48	10.85	71.14
3419	479120008	7	684277	25111	ATWOOD AVE	378.50	37.85	74.94	491.28
3420	479120026	3	684277	25090	DRACAEA AVE UNIT B	486.54	48.65	96.33	631.52
3421	479120028	5	684277	25074	DRACAEA AVE	385.23	38.52	76.28	500.02
3422	479120035	1	684277	13185	BENCLIFF AVE UNIT A	908.92	90.89	179.97	1179.78

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
3423	479120035	1	684277	13185	BENCLIFF AVE UNIT B	908.92	90.89	179.97	1179.78
3424	479121001	3	684277	13128	BENCLIFF AVE UNIT B	91.27	9.13	18.07	118.46
3425	479121002	4	684277	13142	BENCLIFF AVE UNIT A	493.99	49.40	97.81	641.20
3426	479121023	3	684277	13230	TACOMA DR	404.72	40.47	80.13	525.32
3427	479121023	3	684277	13220	TACOMA DR	404.72	40.47	80.13	525.32
3428	479121024	4	684277	13195	TACOMA DR	279.96	28.00	55.43	363.38
3429	479131005	8	684277	13301	BIRCHWOOD DR	385.23	38.52	76.28	500.02
3430	479131009	2	684277	13347	BIRCHWOOD DR	64.29	6.43	12.73	83.44
3431	479131011	3	684277	13371	BIRCHWOOD DR	79.00	7.90	15.64	102.54
3432	479132009	5	684277	13278	BIRCHWOOD DR	243.16	24.32	48.15	315.62
3433	479132047	9	684277	13349	PATRICIA LN	149.00	14.90	29.50	193.40
3434	479132048	0	684277	13363	PATRICIA LN	372.88	37.29	73.83	484.00
3435	479132073	2	684277	13288	BENCLIFF AVE	385.23	38.52	76.28	500.02
3436	479140004	5	684277	13385	BIRCHWOOD DR	364.48	36.45	72.17	473.10
3437	479140009	0	684277	13453	BIRCHWOOD DR	155.12	15.51	30.71	201.34
3438	479140021	0	684277	13376	BIRCHWOOD DR	296.97	29.70	58.80	385.46
3439	479150031	0	684277	13395	LASSELLE ST	611.59	61.16	121.10	793.84
3440	479160001	4	684277	25654	COTTONWOOD AVE	487.34	48.73	96.49	632.56
3441	479160001	4	684277	25652	COTTONWOOD AVE	487.34	48.73	96.49	632.56
3442	479160014	6	684277	25754	COTTONWOOD AVE	349.51	34.95	69.20	453.66
3443	479170018	1	684277	25947	COTTONWOOD AVE	377.87	37.79	74.82	490.48
3444	479170026	8	684277	25909	MARGARITA ST	50.00	5.00	9.90	64.90
3445	479170028	0	684277	13588	TERRA BELLA AVE	385.23	38.52	76.28	500.02
3446	479170031	2	684277	13556	TERRA BELLA AVE	486.54	48.65	96.33	631.52
3447	479170032	3	684277	13546	TERRA BELLA AVE	372.88	37.29	73.83	484.00
3448	479200019	4	684277	25051	SAINT CHRISTOPHER LN	336.98	33.70	66.72	437.40
3449	479251002	6	684277	25401	DRACAEA AVE	50.00	5.00	9.90	64.90
3450	479251005	9	684277	25437	DRACAEA AVE	410.48	41.05	81.28	532.80
3451	479251008	2	684277	13281	SILVER LN	591.38	59.14	117.09	767.60

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
3452	479251010	3	684277	13301	SILVERLN	95.51	9.55	18.91	123.96
3453	479251014	7	684277	13343	SILVERLN	372.88	37.29	73.83	484.00
3454	479251021	3	684277	13413	SILVERLN	375.91	37.59	74.43	487.92
3455	479252002	9	684277	13480	GOLD PL	372.88	37.29	73.83	484.00
3456	479252009	6	684277	13420	GOLD PL	602.45	60.25	119.29	781.98
3457	479252012	8	684277	13390	GOLD PL	378.50	37.85	74.94	491.28
3458	479252014	0	684277	13370	GOLD PL	372.88	37.29	73.83	484.00
3459	479253004	4	684277	13431	GOLD PL	378.50	37.85	74.94	491.28
3460	479253014	3	684277	13458	SILVERLN	155.12	15.51	30.71	201.34
3461	479261003	8	684277	25219	FIR AVE	485.05	48.51	96.04	629.60
3462	479261004	9	684277	25205	FIR AVE	347.41	34.74	68.79	450.94
3463	479261006	1	684277	25175	FIR AVE	372.88	37.29	73.83	484.00
3464	479261014	8	684277	25248	BRANDING IRON WAY	372.88	37.29	73.83	484.00
3465	479261022	5	684277	25174	MAYNARD DR	223.32	22.33	44.22	289.86
3466	479261030	2	684277	25203	MAYNARD DR	477.72	47.77	94.59	620.08
3467	479261040	1	684277	25246	MARSEL RANCH RD	336.68	33.67	66.66	437.00
3468	479261043	4	684277	25201	MARSEL RANCH RD	98.11	9.81	19.43	127.34
3469	479261046	7	684277	25157	MARSEL RANCH RD	348.40	34.84	68.98	452.22
3470	479262007	5	684277	12805	SHIRAY RANCH RD	378.50	37.85	74.94	491.28
3471	479262008	6	684277	12791	SHIRAY RANCH RD	357.79	35.78	70.84	464.40
3472	479262009	7	684277	12777	SHIRAY RANCH RD	228.50	22.85	45.24	296.58
3473	479262016	3	684277	12893	SHIRAY RANCH RD	372.88	37.29	73.83	484.00
3474	479263005	6	684277	25153	BRIDLE TRAIL RD	587.18	58.72	116.26	762.16
3475	479270001	4	684277	12761	TAMARA DR	378.50	37.85	74.94	491.28
3476	479270002	5	684277	12773	TAMARA DR	87.93	8.79	17.41	114.12
3477	479270014	6	684277	12927	TAMARA DR	378.50	37.85	74.94	491.28
3478	479270022	3	684277	12996	FOREMAN AVE	378.50	37.85	74.94	491.28
3479	479270025	6	684277	12964	FOREMAN AVE	378.50	37.85	74.94	491.28
3480	479270030	0	684277	12904	FOREMAN AVE	372.88	37.29	73.83	484.00

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Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
3481	479271003	9	684277	12976	TAMARA DR	355.09	35.51	70.31	460.90
3482	479271010	5	684277	12890	TAMARA DR	372.88	37.29	73.83	484.00
3483	479272009	8	684277	12857	FOREMAN AVE	356.56	35.66	70.60	462.82
3484	479272020	7	684277	12985	FOREMAN AVE	372.88	37.29	73.83	484.00
3485	479280001	5	684277	13986	FLAMING ARROW DR	372.88	37.29	73.83	484.00
3486	479280004	8	684277	13944	FLAMING ARROW DR	341.68	34.17	67.65	443.50
3487	479281006	3	684277	25152	SILENT CREEK RD	372.88	37.29	73.83	484.00
3488	479281014	0	684277	25207	SILENT CREEK RD	92.76	9.28	18.37	120.40
3489	479282005	5	684277	25183	SILVER ARROW DR	236.98	23.70	46.92	307.60
3490	479290006	1	684277	25289	OLD FARM ST	378.50	37.85	74.94	491.28
3491	479290007	2	684277	25303	OLD FARM ST	372.88	37.29	73.83	484.00
3492	479291005	3	684277	25304	OLD FARM ST	351.86	35.19	69.67	456.72
3493	479291006	4	684277	25286	OLD FARM ST	372.88	37.29	73.83	484.00
3494	479291008	6	684277	25260	OLD FARM ST	312.77	31.28	61.93	405.98
3495	479291026	2	684277	25306	SUGAR HILL RD	372.88	37.29	73.83	484.00
3496	479291033	8	684277	25249	BAY AVE	356.56	35.66	70.60	462.82
3497	479292003	4	684277	25159	BAY AVE	359.95	36.00	71.27	467.22
3498	479292005	6	684277	25189	BAY AVE	181.99	18.20	36.03	236.22
3499	479292008	9	684277	25214	SUGAR HILL RD	477.72	47.77	94.59	620.08
3500	479293005	9	684277	25187	SUGAR HILL RD	197.38	19.74	39.08	256.20
3501	479293007	1	684277	25213	SUGAR HILL RD	477.72	47.77	94.59	620.08
3502	479293020	2	684277	25197	OLD FARM ST	27.60	2.76	5.46	35.82
3503	479300007	2	684277	12290	LOREZ DR	78.16	7.82	15.48	101.46
3504	479300010	4	684277	12330	LOREZ DR	180.17	18.02	35.67	233.86
3505	479300025	8	684277	12311	MARMONT PL	241.49	24.15	47.82	313.46
3506	479300031	3	684277	12364	MARMONT PL	378.50	37.85	74.94	491.28
3507	479301004	2	684277	25197	ELDER AVE	76.43	7.64	15.13	99.20
3508	479301005	3	684277	25181	ELDER AVE	378.50	37.85	74.94	491.28
3509	479302003	4	684277	12371	LOREZ DR	378.50	37.85	74.94	491.28

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

Column Totals	2,003,753.76	200,377.97	396,739.88	2,600,843.48
Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
3510	479302010	0	684277	12271	LOREZ DR	240.72	24.07	47.66	312.44
3511	479311020	7	684277	25343	LAS PALOMAS DR	493.99	49.40	97.81	641.20
3512	479311030	6	684277	25443	LAS PALOMAS DR	136.68	13.67	27.06	177.40
3513	479311032	8	684277	25463	LAS PALOMAS DR	485.05	48.51	96.04	629.60
3514	479311036	2	684277	25261	LAS PALOMAS DR	485.08	48.51	96.05	629.64
3515	479311037	3	684277	25273	LAS PALOMAS DR	413.55	41.36	81.88	536.78
3516	479312009	1	684277	25481	HEMLOCK AVE	372.88	37.29	73.83	484.00
3517	479312019	0	684277	25379	HEMLOCK AVE	325.41	32.54	64.43	422.38
3518	479312041	9	684277	12297	PASEO DEL SOL WAY	372.88	37.29	73.83	484.00
3519	479312043	1	684277	12292	PASEO DEL SOL WAY	370.86	37.09	73.43	481.38
3520	479312048	6	684277	12340	PASEO DEL SOL WAY	372.88	37.29	73.83	484.00
3521	479312053	0	684277	25396	LAS PALOMAS DR	367.64	36.76	72.79	477.18
3522	479312055	2	684277	25416	LAS PALOMAS DR	378.50	37.85	74.94	491.28
3523	479312061	7	684277	12295	ARENISCA VERDE DR	148.72	14.87	29.45	193.04
3524	479321001	1	684277	13747	STOCKBROOK RD	357.24	35.72	70.73	463.68
3525	479321004	4	684277	13701	STOCKBROOK RD	87.91	8.79	17.41	114.10
3526	479321009	9	684277	13641	STOCKBROOK RD	172.88	17.29	34.23	224.40
3527	479321012	1	684277	13605	STOCKBROOK RD	206.50	20.65	40.89	268.04
3528	479321026	4	684277	25571	LOREN WAY	372.66	37.27	73.79	483.72
3529	479321030	7	684277	25513	LOREN WAY	493.99	49.40	97.81	641.20
3530	479322005	8	684277	13558	STOCKBROOK RD	192.67	19.27	38.15	250.08
3531	479322006	9	684277	13570	STOCKBROOK RD	49.43	4.94	9.79	64.16
3532	479322008	1	684277	13594	STOCKBROOK RD	281.20	28.12	55.68	365.00
3533	479322019	1	684277	13736	STOCKBROOK RD	231.68	23.17	45.87	300.72
3534	479333006	3	684277	25189	SWEET GRASS DR	629.38	62.94	124.62	816.94
3535	479333006	3	684277	25189	SWEETGRASS DR	629.38	62.94	124.62	816.94
3536	479333020	5	684277	13695	DEER HILL PL	58.19	5.82	11.52	75.52
3537	479341009	1	684277	25167	LEANN CT	385.17	38.52	76.26	499.94
3538	479341010	1	684277	25183	LEANN CT	370.62	37.06	73.38	481.06

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

Column Totals	2,003,753.76	200,377.97	396,739.88	2,600,843.48
Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
3539	479341011	2	684277	25197	LEANN CT	378.50	37.85	74.94	491.28
3540	479341017	8	684277	25250	LEANN CT	493.99	49.40	97.81	641.20
3541	479341032	1	684277	25253	TODD DR	332.88	33.29	65.91	432.08
3542	479342002	7	684277	25240	TODD DR	372.88	37.29	73.83	484.00
3543	479342006	1	684277	25186	TODD DR	242.03	24.20	47.92	314.14
3544	479342013	7	684277	12679	SHIRAY RANCH RD	288.51	28.85	57.12	374.48
3545	479342015	9	684277	12703	SHIRAY RANCH RD	439.68	43.97	87.06	570.70
3546	479342017	1	684277	12731	SHIRAY RANCH RD	357.79	35.78	70.84	464.40
3547	479351002	5	684277	25525	FIR AVE	378.50	37.85	74.94	491.28
3548	479351008	1	684277	12785	WILLOW TREE AVE	378.50	37.85	74.94	491.28
3549	479351010	2	684277	12815	WILLOW TREE AVE	127.05	12.71	25.16	164.92
3550	479351025	6	684277	12796	PINEBROOK CT	372.88	37.29	73.83	484.00
3551	479352004	0	684277	25555	CEDARBROOK AVE	357.79	35.78	70.84	464.40
3552	479352008	4	684277	25605	CEDARBROOK AVE	372.88	37.29	73.83	484.00
3553	479352026	0	684277	25703	FIR AVE	372.88	37.29	73.83	484.00
3554	479352037	0	684277	12789	RAENETTE WAY	372.88	37.29	73.83	484.00
3555	479352042	4	684277	12766	RAENETTE WAY	591.38	59.14	117.09	767.60
3556	479353006	5	684277	12798	ARDOS ST	493.89	49.39	97.79	641.06
3557	479353008	7	684277	12810	ARDOS ST	378.50	37.85	74.94	491.28
3558	479361002	6	684277	25532	FIR AVE	372.88	37.29	73.83	484.00
3559	479361006	0	684277	25604	FIR AVE	71.43	7.14	14.14	92.70
3560	479361011	4	684277	12711	SHADOWBROOK ST	477.72	47.77	94.59	620.08
3561	479361012	5	684277	12701	SHADOWBROOK ST	243.16	24.32	48.15	315.62
3562	479361015	8	684277	12671	SHADOWBROOK ST	453.95	45.40	89.88	589.22
3563	479362001	8	684277	12617	SHADOWBROOK ST	485.05	48.51	96.04	629.60
3564	479362005	2	684277	12563	SHADOWBROOK ST	155.12	15.51	30.71	201.34
3565	479362011	7	684277	12546	SHADOWBROOK ST	155.12	15.51	30.71	201.34
3566	479362012	8	684277	12562	SHADOWBROOK ST	378.50	37.85	74.94	491.28
3567	479362014	0	684277	12590	SHADOWBROOK ST	600.44	60.04	118.89	779.36

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
3568	479362015	1	684277	12606	SHADOWBROOK ST	276.17	27.62	54.68	358.46
3569	479362021	6	684277	12660	SHADOWBROOK ST	372.88	37.29	73.83	484.00
3570	479362032	6	684277	12589	WILLOW TREE AVE	378.50	37.85	74.94	491.28
3571	479362037	1	684277	12653	WILLOW TREE AVE	155.12	15.51	30.71	201.34
3572	479362038	2	684277	12665	WILLOW TREE AVE	181.45	18.15	35.93	235.52
3573	479363001	1	684277	12674	WILLOW TREE AVE	93.09	9.31	18.43	120.82
3574	479363005	5	684277	12724	WILLOW TREE AVE	378.50	37.85	74.94	491.28
3575	479363018	7	684277	12510	WILLOW TREE AVE	136.98	13.70	27.12	177.80
3576	479371027	0	684277	12406	FELT CT	71.43	7.14	14.14	92.70
3577	479381001	7	684277	12637	HEARTLEAF ST	181.43	18.14	35.92	235.48
3578	479381008	4	684277	12721	HEARTLEAF ST	292.06	29.21	57.83	379.10
3579	479382008	7	684277	12663	JUNEBERRY CT	373.07	37.31	73.87	484.24
3580	479382010	8	684277	12691	JUNEBERRY CT	372.88	37.29	73.83	484.00
3581	479382014	2	684277	12646	HEARTLEAF ST	378.50	37.85	74.94	491.28
3582	479382016	4	684277	12622	PEACHLEAF ST	372.88	37.29	73.83	484.00
3583	479382020	7	684277	12584	PEACHLEAF ST	378.50	37.85	74.94	491.28
3584	479382024	1	684277	12550	PEACHLEAF ST	372.88	37.29	73.83	484.00
3585	479383002	4	684277	25736	FIR AVE	32.44	3.24	6.42	42.10
3586	479383009	1	684277	25661	SWEETLEAF ST	355.63	35.56	70.41	461.60
3587	479384001	6	684277	12515	PEACHLEAF ST	372.88	37.29	73.83	484.00
3588	479384002	7	684277	12525	PEACHLEAF ST	378.50	37.85	74.94	491.28
3589	479384006	1	684277	12597	PEACHLEAF ST	493.99	49.40	97.81	641.20
3590	479384008	3	684277	12615	PEACHLEAF ST	367.88	36.79	72.84	477.50
3591	479384009	4	684277	12623	PEACHLEAF ST	427.13	42.71	84.57	554.40
3592	479384010	4	684277	12534	HEARTLEAF ST	378.50	37.85	74.94	491.28
3593	479384013	7	684277	12509	HEARTLEAF ST	493.99	49.40	97.81	641.20
3594	479384018	2	684277	12561	HEARTLEAF ST	367.75	36.78	72.82	477.34
3595	479384023	6	684277	12611	HEARTLEAF ST	121.64	12.16	24.08	157.88
3596	479391015	1	684277	25438	WEDMORE DR	385.23	38.52	76.28	500.02

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

Column Totals	2,003,753.76	200,377.97	396,739.88	2,600,843.48
Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
3597	479391017	3	684277	25418	WEDMORE DR	349.18	34.92	69.14	453.24
3598	479391022	7	684277	25451	FIR AVE	372.88	37.29	73.83	484.00
3599	479391030	4	684277	25401	FIR AVE	365.80	36.58	72.43	474.80
3600	479392006	6	684277	12992	WESTBURY DR	609.73	60.97	120.73	791.42
3601	479392007	7	684277	12984	WESTBURY DR	252.64	25.26	50.02	327.92
3602	479392011	0	684277	12948	WESTBURY DR	378.50	37.85	74.94	491.28
3603	479392012	1	684277	25409	WEDMORE DR	34.12	3.41	6.76	44.28
3604	479401007	4	684277	12577	BROADLEAF LN	132.60	13.26	26.25	172.10
3605	479401007	4	684277	12577	BROADLEAF LN	132.60	13.26	26.25	172.10
3606	479401014	0	684277	12590	BLUNTLEAF CT	157.79	15.78	31.24	204.80
3607	479401020	5	684277	12502	BLUNTLEAF CT	378.50	37.85	74.94	491.28
3608	479401023	8	684277	12545	BLUNTLEAF CT	378.50	37.85	74.94	491.28
3609	479401024	9	684277	12561	BLUNTLEAF CT	219.59	21.96	43.48	285.02
3610	479401029	4	684277	12635	BLUNTLEAF CT	486.54	48.65	96.33	631.52
3611	479401033	7	684277	12695	BLUNTLEAF CT	378.50	37.85	74.94	491.28
3612	479402001	1	684277	25834	FIR AVE	600.50	60.05	118.90	779.44
3613	479402010	9	684277	25785	SWEETLEAF ST	238.16	23.82	47.16	309.14
3614	479402018	7	684277	25808	SWEETLEAF ST	148.87	14.89	29.48	193.24
3615	479402020	8	684277	12692	BROADLEAF LN	385.23	38.52	76.28	500.02
3616	479402030	7	684277	12572	BROADLEAF LN	493.99	49.40	97.81	641.20
3617	479411005	3	684277	12617	LASSELLE ST	222.88	22.29	44.13	289.30
3618	479411033	8	684277	12612	HACKBERRY LN	372.88	37.29	73.83	484.00
3619	479412001	2	684277	12537	HACKBERRY LN	372.88	37.29	73.83	484.00
3620	479412005	6	684277	12587	HACKBERRY LN	350.56	35.06	69.41	455.02
3621	479413006	0	684277	12555	NINEBARK ST	378.50	37.85	74.94	491.28
3622	479413007	1	684277	12565	NINEBARK ST	609.73	60.97	120.73	791.42
3623	479413008	2	684277	12575	NINEBARK ST	378.50	37.85	74.94	491.28
3624	479413016	9	684277	12649	NINEBARK ST	249.57	24.96	49.42	323.94
3625	479413017	0	684277	12657	NINEBARK ST	707.21	70.72	140.03	917.96

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
3626	479413018	1	684277	12665	NINEBARK ST	493.99	49.40	97.81	641.20
3627	479413022	4	684277	12701	NINEBARK ST	372.88	37.29	73.83	484.00
3628	479421004	3	684277	12360	KITCHING ST	321.68	32.17	63.69	417.54
3629	479421011	9	684277	12407	KASOTA CT	600.50	60.05	118.90	779.44
3630	479421012	0	684277	12395	KASOTA CT	372.88	37.29	73.83	484.00
3631	479421013	1	684277	12383	KASOTA CT	486.54	48.65	96.33	631.52
3632	479421023	0	684277	12384	KASOTA CT	85.92	8.59	17.01	111.52
3633	479421027	4	684277	12419	TUSCOLA ST	375.64	37.56	74.38	487.58
3634	479421031	7	684277	12375	TUSCOLA ST	537.44	53.74	106.41	697.58
3635	479421035	1	684277	12323	TUSCOLA ST	369.82	36.98	73.22	480.02
3636	479422016	7	684277	12395	YUMA CT	372.88	37.29	73.83	484.00
3637	479422017	8	684277	12407	YUMA CT	89.80	8.98	17.78	116.56
3638	479422025	5	684277	12348	SHASTA PL	281.67	28.17	55.77	365.60
3639	479422036	5	684277	12320	TUSCOLA ST	242.03	24.20	47.92	314.14
3640	479422038	7	684277	12348	TUSCOLA ST	453.31	45.33	89.76	588.40
3641	479422039	8	684277	12360	TUSCOLA ST	372.88	37.29	73.83	484.00
3642	479423024	7	684277	25531	ELDER AVE	372.88	37.29	73.83	484.00
3643	479423025	8	684277	25541	ELDER AVE	415.62	41.56	82.29	539.46
3644	479423031	3	684277	25601	ELDER AVE	385.23	38.52	76.28	500.02
3645	479423040	1	684277	25691	ELDER AVE	372.88	37.29	73.83	484.00
3646	479431001	1	684277	12087	LEIF ERICSON DR	35.00	3.50	6.93	45.42
3647	479431019	8	684277	25775	PIZZARO CT	508.47	50.85	100.68	660.00
3648	479431021	9	684277	25786	PIZZARO CT	171.44	17.14	33.94	222.52
3649	479432008	1	684277	12096	CHAMPLAIN ST	64.29	6.43	12.73	83.44
3650	479432028	9	684277	12115	LASSELLE ST	378.50	37.85	74.94	491.28
3651	479433002	8	684277	12169	CHAMPLAIN ST	378.38	37.84	74.92	491.14
3652	479435003	5	684277	12042	LASSELLE ST	99.09	9.91	19.62	128.62
3653	479435005	7	684277	12084	LASSELLE ST	294.24	29.42	58.26	381.92
3654	479441004	5	684277	13675	DAIMLER ST	350.74	35.07	69.45	455.26

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
3655	479441010	0	684277	13749	DAIMLER ST	71.43	7.14	14.14	92.70
3656	479441012	2	684277	13724	CHARA AVE	385.23	38.52	76.28	500.02
3657	479441018	8	684277	13650	CHARA AVE	378.08	37.81	74.86	490.74
3658	479441022	1	684277	13663	CHARA AVE	336.68	33.67	66.66	437.00
3659	479441026	5	684277	13713	CHARA AVE	359.20	35.92	71.12	466.24
3660	479441027	6	684277	13725	CHARA AVE	372.88	37.29	73.83	484.00
3661	479442005	9	684277	25916	LANCIA ST	71.43	7.14	14.14	92.70
3662	479443013	9	684277	25904	RAILTON ST	378.50	37.85	74.94	491.28
3663	479444004	4	684277	25965	RAILTON ST	126.43	12.64	25.03	164.10
3664	479444008	8	684277	25919	RAILTON ST	364.04	36.40	72.08	472.52
3665	479444009	9	684277	25907	RAILTON ST	113.99	11.40	22.57	147.96
3666	479444012	1	684277	25875	RAILTON ST	486.54	48.65	96.33	631.52
3667	479444014	3	684277	25845	RAILTON ST	493.99	49.40	97.81	641.20
3668	479444015	4	684277	25846	BAY AVE	493.99	49.40	97.81	641.20
3669	479452002	7	684277	13144	SWEETFERN ST	147.86	14.79	29.28	191.92
3670	479452005	0	684277	25540	FERNBUSH ST	361.80	36.18	71.64	469.62
3671	479453006	4	684277	13198	SWEETSPICE ST	385.23	38.52	76.28	500.02
3672	479453012	9	684277	25529	FERNBUSH ST	372.88	37.29	73.83	484.00
3673	479453014	1	684277	25542	DRACAEA AVE	194.55	19.46	38.52	252.52
3674	479453022	8	684277	13135	RAENETTE WAY	326.03	32.60	64.55	423.18
3675	479454006	7	684277	25724	MOONSEED ST	372.88	37.29	73.83	484.00
3676	479454009	0	684277	13160	OILNUT CT	361.28	36.13	71.53	468.94
3677	479454011	1	684277	13131	OILNUT CT	240.92	24.09	47.70	312.70
3678	479454014	4	684277	13179	OILNUT CT	155.12	15.51	30.71	201.34
3679	479454018	8	684277	13160	RAENETTE WAY	465.31	46.53	92.13	603.96
3680	479454019	9	684277	13144	RAENETTE WAY	493.99	49.40	97.81	641.20
3681	479461006	9	684277	25442	OLD FARM ST	493.99	49.40	97.81	641.20
3682	479461015	7	684277	25417	ORCHID CT	84.82	8.48	16.79	110.08
3683	479461019	1	684277	25384	ORCHID CT	378.50	37.85	74.94	491.28

**MORENO VALLEY Tax Roll Listing 2019
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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
3684	479461023	4	684277	25428	ORCHID CT	325.70	32.57	64.49	422.76
3685	479461031	1	684277	25439	BAY AVE	378.50	37.85	74.94	491.28
3686	479461033	3	684277	25415	BAY AVE	28.84	2.88	5.71	37.42
3687	479462001	7	684277	13804	RED MAHOGANY DR	372.88	37.29	73.83	484.00
3688	479462020	4	684277	13924	RED MAHOGANY DR	256.43	25.64	50.77	332.84
3689	479462025	9	684277	13931	RED MAHOGANY DR	366.41	36.64	72.55	475.60
3690	479462029	3	684277	13911	RED MAHOGANY DR	372.88	37.29	73.83	484.00
3691	479462030	3	684277	13905	RED MAHOGANY DR	372.88	37.29	73.83	484.00
3692	479462032	5	684277	13893	RED MAHOGANY DR	385.23	38.52	76.28	500.02
3693	479462048	0	684277	13971	ELMWOOD CT	493.99	49.40	97.81	641.20
3694	479462053	4	684277	13921	ELMWOOD CT	302.24	30.22	59.84	392.30
3695	479462057	8	684277	13881	ELMWOOD CT	378.50	37.85	74.94	491.28
3696	479462058	9	684277	13871	ELMWOOD CT	486.54	48.65	96.33	631.52
3697	479471001	5	684277	13625	GRAPE MYRTLE DR	372.88	37.29	73.83	484.00
3698	479472010	6	684277	25252	WHITE BIRCH LN	378.50	37.85	74.94	491.28
3699	479472013	9	684277	25275	WHITE BIRCH LN	42.03	4.20	8.32	54.54
3700	479473010	9	684277	25402	BAY AVE	353.67	35.37	70.03	459.06
3701	479473013	2	684277	25438	BAY AVE	141.20	14.12	27.96	183.28
3702	479473014	3	684277	25450	BAY AVE	372.88	37.29	73.83	484.00
3703	479473021	9	684277	25437	WHITE BIRCH LN	257.57	25.76	51.00	334.32
3704	479473033	0	684277	25315	WHITE BIRCH LN	372.88	37.29	73.83	484.00
3705	479474006	9	684277	13684	GRAPE MYRTLE DR	343.26	34.33	67.97	445.56
3706	479475002	8	684277	13656	BLACK ELM CT	288.64	28.86	57.15	374.64
3707	479475012	7	684277	13681	BLUE SPRUCE CT	477.72	47.77	94.59	620.08
3708	479475015	0	684277	13651	BLUE SPRUCE CT	357.79	35.78	70.84	464.40
3709	479476009	8	684277	13747	RED MAHOGANY DR	378.50	37.85	74.94	491.28
3710	479477002	4	684277	13708	RED MAHOGANY DR	161.43	16.14	31.96	209.52
3711	479477003	5	684277	13714	RED MAHOGANY DR	171.41	17.14	33.94	222.48
3712	479477005	7	684277	13726	RED MAHOGANY DR	328.26	32.83	65.00	426.08

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

Column Totals	2,003,753.76	200,377.97	396,739.88	2,600,843.48
Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
3713	479477006	8	684277	13734	RED MAHOGANY DR	248.15	24.82	49.13	322.10
3714	479482003	1	684277	13519	RED MAHOGANY DR	193.37	19.34	38.29	251.00
3715	479482013	0	684277	13583	RED MAHOGANY DR	305.80	30.58	60.55	396.92
3716	479482018	5	684277	13651	RED MAHOGANY DR	289.18	28.92	57.26	375.36
3717	479482021	7	684277	13671	RED MAHOGANY DR	372.88	37.29	73.83	484.00
3718	479482023	9	684277	13683	RED MAHOGANY DR	71.43	7.14	14.14	92.70
3719	479482025	1	684277	13697	RED MAHOGANY DR	378.50	37.85	74.94	491.28
3720	479482027	3	684277	13622	BLUE SPRUCE CT	372.88	37.29	73.83	484.00
3721	479482031	6	684277	13582	BLUE SPRUCE CT	378.50	37.85	74.94	491.28
3722	479482035	0	684277	13581	BLUE SPRUCE CT	372.88	37.29	73.83	484.00
3723	479482038	3	684277	13611	BLUE SPRUCE CT	378.50	37.85	74.94	491.28
3724	479482057	0	684277	13616	GRAPE MYRTLE DR	372.88	37.29	73.83	484.00
3725	479482058	1	684277	13608	GRAPE MYRTLE DR	600.44	60.04	118.89	779.36
3726	479483012	2	684277	13576	RED MAHOGANY DR	258.09	25.81	51.10	335.00
3727	479483016	6	684277	13600	RED MAHOGANY DR	372.88	37.29	73.83	484.00
3728	479483024	3	684277	13650	RED MAHOGANY DR	378.50	37.85	74.94	491.28
3729	479483026	5	684277	13664	RED MAHOGANY DR	372.88	37.29	73.83	484.00
3730	479483028	7	684277	13676	RED MAHOGANY DR	372.88	37.29	73.83	484.00
3731	479483031	9	684277	13696	RED MAHOGANY DR	372.88	37.29	73.83	484.00
3732	479491007	3	684277	25638	PALMWOOD DR	205.67	20.57	40.72	266.96
3733	479491020	4	684277	25685	PALM SHADOWS DR	378.50	37.85	74.94	491.28
3734	479491026	0	684277	12083	PALM VISTA ST	609.73	60.97	120.73	791.42
3735	479492002	1	684277	25654	PALM SHADOWS DR	50.00	5.00	9.90	64.90
3736	479492010	8	684277	12024	PALM VISTA ST	378.50	37.85	74.94	491.28
3737	479492013	1	684277	12060	PALM VISTA ST	476.55	47.66	94.36	618.56
3738	479492015	3	684277	12084	PALM VISTA ST	372.88	37.29	73.83	484.00
3739	479501016	1	684277	25406	HAWKWOOD TRL	136.98	13.70	27.12	177.80
3740	479501028	2	684277	12084	FLINTLOCK TRL	238.16	23.82	47.16	309.14
3741	479501029	3	684277	12094	FLINTLOCK TRL	493.99	49.40	97.81	641.20

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
3742	479501030	3	684277	25479	LONE MESA TRL	88.16	8.82	17.46	114.44
3743	479501032	5	684277	25459	LONE MESA TRL	221.68	22.17	43.89	287.74
3744	479501034	7	684277	25431	LONE MESA TRL	76.43	7.64	15.13	99.20
3745	479501035	8	684277	25419	LONE MESA TRL	378.50	37.85	74.94	491.28
3746	479502005	4	684277	25411	HAWKWOOD TRL	477.72	47.77	94.59	620.08
3747	479502020	7	684277	25440	LONE MESA TRL	372.88	37.29	73.83	484.00
3748	479502023	0	684277	12063	FLINTLOCK TRL	378.50	37.85	74.94	491.28
3749	479512008	8	684277	12181	AMBER HILL TRL	351.04	35.10	69.51	455.64
3750	479512012	1	684277	12141	AMBER HILL TRL	378.50	37.85	74.94	491.28
3751	479513002	5	684277	12112	AMBER HILL TRL	199.89	19.99	39.58	259.46
3752	479513005	8	684277	12142	AMBER HILL TRL	91.41	9.14	18.10	118.64
3753	479513007	0	684277	12162	AMBER HILL TRL	485.05	48.51	96.04	629.60
3754	479513008	1	684277	12182	AMBER HILL TRL	275.48	27.55	54.55	357.58
3755	479513014	6	684277	12235	WESTERLY TRL	486.03	48.60	96.23	630.86
3756	479513016	8	684277	12215	WESTERLY TRL	378.50	37.85	74.94	491.28
3757	479513017	9	684277	12205	WESTERLY TRL	378.50	37.85	74.94	491.28
3758	479513022	3	684277	12155	WESTERLY TRL	378.50	37.85	74.94	491.28
3759	479513026	7	684277	12212	AMBER HILL TRL	357.79	35.78	70.84	464.40
3760	479515005	4	684277	12203	WIND RIVER CIR	372.88	37.29	73.83	484.00
3761	479515008	7	684277	12173	WIND RIVER CIR	372.88	37.29	73.83	484.00
3762	479515018	6	684277	12200	WESTERLY TRL	378.50	37.85	74.94	491.28
3763	479516003	5	684277	12180	LANGTRY CIR	238.16	23.82	47.16	309.14
3764	479516003	5	684277	12180	LANGTRY CIR	238.16	23.82	47.16	309.14
3765	479521011	8	684277	13110	SWEETSPICE ST	71.43	7.14	14.14	92.70
3766	479521012	9	684277	13098	SWEETSPICE ST	378.50	37.85	74.94	491.28
3767	479521015	2	684277	13062	SWEETSPICE ST	372.88	37.29	73.83	484.00
3768	479521017	4	684277	13038	SWEETSPICE ST	378.50	37.85	74.94	491.28
3769	479521019	6	684277	13014	SWEETSPICE ST	422.91	42.29	83.74	548.94
3770	479522003	4	684277	13023	BENDER DR	385.23	38.52	76.28	500.02

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
3771	479522010	0	684277	13119	BENDER DR	503.03	50.30	99.60	652.92
3772	479522011	1	684277	13060	RAENETTE WAY	378.50	37.85	74.94	491.28
3773	479523013	6	684277	13024	BENDER DR	71.43	7.14	14.14	92.70
3774	479524011	7	684277	13014	SWEETFERN ST	372.88	37.29	73.83	484.00
3775	479524015	1	684277	13062	SWEETFERN ST	299.75	29.98	59.35	389.08
3776	479524021	6	684277	13101	SWEETSPICE ST	370.40	37.04	73.34	480.78
3777	479524022	7	684277	13089	SWEETSPICE ST	372.88	37.29	73.83	484.00
3778	479531001	0	684277	25508	WEDMORE DR	71.43	7.14	14.14	92.70
3779	479531007	6	684277	25556	WEDMORE DR	378.38	37.84	74.92	491.14
3780	479531013	1	684277	25604	WEDMORE DR	372.88	37.29	73.83	484.00
3781	479531025	2	684277	25620	EUCALYPTUS AVE	320.27	32.03	63.41	415.70
3782	479531027	4	684277	12887	RAENETTE WAY	378.50	37.85	74.94	491.28
3783	479531029	6	684277	12913	RAENETTE WAY	158.99	15.90	31.48	206.36
3784	479532002	4	684277	12927	CORALBERRY ST	378.50	37.85	74.94	491.28
3785	479533005	0	684277	25710	ROSEBAY CT	70.32	7.03	13.92	91.26
3786	479533011	5	684277	25709	ROSEBAY CT	378.50	37.85	74.94	491.28
3787	479533015	9	684277	25669	ROSEBAY CT	486.54	48.65	96.33	631.52
3788	479533023	6	684277	12941	VELVETLEAF ST	465.15	46.52	92.10	603.76
3789	479534004	2	684277	12974	VELVETLEAF ST	377.64	37.76	74.77	490.16
3790	479541004	4	684277	25781	DAPHNE CT	372.88	37.29	73.83	484.00
3791	479541005	5	684277	25771	DAPHNE CT	213.54	21.35	42.28	277.16
3792	479541011	0	684277	25791	FIR AVE	461.63	46.16	91.40	599.18
3793	479542008	1	684277	12806	VELVETLEAF ST	372.88	37.29	73.83	484.00
3794	479542010	2	684277	12822	VELVETLEAF ST	378.50	37.85	74.94	491.28
3795	479543006	2	684277	12833	WINTERBERRY DR	186.34	18.63	36.89	241.86
3796	479543007	3	684277	25913	DEERBERRY DR	347.50	34.75	68.81	451.06
3797	479543016	1	684277	25889	BARTRAM CT	627.92	62.79	124.33	815.04
3798	479544009	8	684277	25901	FIR AVE	382.80	38.28	75.79	496.86
3799	479544016	4	684277	25950	DEERBERRY DR	372.88	37.29	73.83	484.00

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Customers with Invoice Item Dates in 2018**

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
3800	479544017	5	684277	25962	DEERBERRY DR	372.88	37.29	73.83	484.00
3801	479551003	4	684277	12877	VELVETLEAF ST	591.50	59.15	117.12	767.76
3802	479551007	8	684277	25751	BRUMELIA CT	372.88	37.29	73.83	484.00
3803	479552005	9	684277	12870	VELVETLEAF ST	378.50	37.85	74.94	491.28
3804	479552007	1	684277	12886	VELVETLEAF ST	358.92	35.89	71.07	465.88
3805	479552010	3	684277	12910	VELVETLEAF ST	299.20	29.92	59.24	388.36
3806	479552021	3	684277	12923	NINEBARK ST	378.50	37.85	74.94	491.28
3807	479553009	6	684277	12899	LASSELLE ST	385.23	38.52	76.28	500.02
3808	479553011	7	684277	12894	WINTERBERRY DR	372.88	37.29	73.83	484.00
3809	479553013	9	684277	12918	WINTERBERRY DR	308.85	30.89	61.15	400.88
3810	479554002	2	684277	25862	WOLFBERRY DR	385.23	38.52	76.28	500.02
3811	479554007	7	684277	25922	WOLFBERRY DR	503.03	50.30	99.60	652.92
3812	479555001	4	684277	25858	HOLLYBERRY LN	493.99	49.40	97.81	641.20
3813	479561002	4	684277	13011	PEPPERBUSH DR	315.31	31.53	62.43	409.26
3814	479561003	5	684277	13023	PEPPERBUSH DR	378.50	37.85	74.94	491.28
3815	479561005	7	684277	13047	PEPPERBUSH DR	176.97	17.70	35.04	229.70
3816	479562017	1	684277	13061	NINEBARK ST	76.43	7.64	15.13	99.20
3817	479563005	3	684277	13048	NINEBARK ST	254.76	25.48	50.44	330.68
3818	479563007	5	684277	13024	NINEBARK ST	600.50	60.05	118.90	779.44
3819	479563011	8	684277	13077	FELISA ST	493.99	49.40	97.81	641.20
3820	479563012	9	684277	13065	FELISA ST	161.55	16.16	31.99	209.70
3821	479564003	4	684277	25944	ANDRE CT	488.89	48.89	96.80	634.58
3822	479564010	0	684277	25969	ANDRE CT	361.45	36.15	71.57	469.16
3823	479564017	7	684277	25944	BLUELEAF ST	378.50	37.85	74.94	491.28
3824	479564018	8	684277	25956	BLUELEAF ST	76.43	7.64	15.13	99.20
3825	479564019	9	684277	25968	BLUELEAF ST	372.88	37.29	73.83	484.00
3826	479564024	3	684277	25969	BLUELEAF ST	147.03	14.70	29.11	190.84
3827	479571004	7	684277	13198	PEPPERBUSH DR	359.20	35.92	71.12	466.24
3828	479571007	0	684277	13148	PEPPERBUSH DR	271.50	27.15	53.76	352.40

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
3829	479571015	7	684277	13169	NINEBARK ST	534.24	53.42	105.78	693.44
3830	479571018	0	684277	13217	NINEBARK ST	481.67	48.17	95.37	625.20
3831	479571019	1	684277	13233	NINEBARK ST	372.88	37.29	73.83	484.00
3832	479572011	6	684277	13248	NINEBARK ST	349.96	35.00	69.29	454.24
3833	479572014	9	684277	13186	NINEBARK ST	241.13	24.11	47.74	312.98
3834	479572015	0	684277	25871	REDBAY LN	29.80	2.98	5.90	38.68
3835	479572020	4	684277	25931	REDBAY LN	93.30	9.33	18.47	121.10
3836	479572022	6	684277	25955	REDBAY LN	372.88	37.29	73.83	484.00
3837	479573009	8	684277	13130	TWINFLOWER CT	378.50	37.85	74.94	491.28
3838	479573011	9	684277	13127	TWINFLOWER CT	385.23	38.52	76.28	500.02
3839	479573013	1	684277	13149	TWINFLOWER CT	378.50	37.85	74.94	491.28
3840	479573019	7	684277	13132	ZENOBIA CT	155.12	15.51	30.71	201.34
3841	479573022	9	684277	13121	ZENOBIA CT	336.98	33.70	66.72	437.40
3842	479573025	2	684277	25910	REDBAY LN	248.87	24.89	49.28	323.04
3843	479573031	7	684277	13130	NINEBARK ST	493.99	49.40	97.81	641.20
3844	479581007	1	684277	13675	BEARBERRY DR	372.88	37.29	73.83	484.00
3845	479581010	3	684277	13635	BEARBERRY DR	372.88	37.29	73.83	484.00
3846	479581013	6	684277	13593	BEARBERRY DR	155.12	15.51	30.71	201.34
3847	479582001	8	684277	13500	BANE BERRY ST	378.50	37.85	74.94	491.28
3848	479582002	9	684277	13512	BANE BERRY ST	346.25	34.63	68.56	449.44
3849	479582005	2	684277	13548	BANE BERRY ST	321.20	32.12	63.60	416.92
3850	479582023	8	684277	25703	DANDELION CT	378.50	37.85	74.94	491.28
3851	479582027	2	684277	25668	TALLANDSIA CT	378.50	37.85	74.94	491.28
3852	479582034	8	684277	25719	TALLANDSIA CT	493.99	49.40	97.81	641.20
3853	479582037	1	684277	25693	TALLANDSIA CT	378.50	37.85	74.94	491.28
3854	479582042	5	684277	25662	BAY AVE	355.75	35.58	70.44	461.76
3855	479582045	8	684277	25710	BAY AVE	417.27	41.73	82.62	541.62
3856	479591003	8	684277	13405	NINEBARK ST	730.48	73.05	144.64	948.16
3857	479591006	1	684277	13447	NINEBARK ST	372.88	37.29	73.83	484.00

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Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
3858	479591008	3	684277	13475	NINEBARK ST	354.28	35.43	70.15	459.86
3859	479593006	7	684277	13448	NUTMEG ST	357.34	35.73	70.75	463.82
3860	479594005	9	684277	25799	ANISE ST	476.69	47.67	94.38	618.74
3861	479595003	0	684277	25776	CAYENNE CT	47.02	4.70	9.31	61.02
3862	479595011	7	684277	25787	CAYENNE CT	71.43	7.14	14.14	92.70
3863	479595013	9	684277	25763	CAYENNE CT	255.00	25.50	50.49	330.98
3864	479595016	2	684277	25764	MARGARITA ST	63.04	6.30	12.48	81.82
3865	479595018	4	684277	25788	MARGARITA ST	72.88	7.29	14.43	94.60
3866	479595019	5	684277	25800	MARGARITA ST	643.86	64.39	127.49	835.74
3867	479596002	2	684277	25811	MARGARITA ST	378.50	37.85	74.94	491.28
3868	479596003	3	684277	25823	MARGARITA ST	295.83	29.58	58.57	383.98
3869	479597002	5	684277	13513	NINEBARK ST	378.50	37.85	74.94	491.28
3870	479597008	1	684277	13585	NINEBARK ST	493.99	49.40	97.81	641.20
3871	479597011	3	684277	25751	MARGARITA ST	336.98	33.70	66.72	437.40
3872	479601002	7	684277	12208	COCOPAH CT	50.00	5.00	9.90	64.90
3873	479601018	2	684277	25540	SAND CREEK TRL	378.50	37.85	74.94	491.28
3874	479603008	9	684277	25650	VESPUCCI AVE	110.72	11.07	21.92	143.70
3875	479603015	5	684277	25639	PALMWOOD DR	175.46	17.55	34.74	227.74
3876	479603021	0	684277	25713	PALMWOOD DR	493.99	49.40	97.81	641.20
3877	479612003	2	684277	25533	STUYVESANT ST	43.00	4.30	8.51	55.80
3878	479612006	5	684277	25569	STUYVESANT ST	580.51	58.05	114.94	753.50
3879	479613005	7	684277	12234	COCOPAH CT	271.68	27.17	53.79	352.64
3880	479614009	4	684277	25701	STUYVESANT ST	372.88	37.29	73.83	484.00
3881	479615001	9	684277	25728	STUYVESANT ST	378.50	37.85	74.94	491.28
3882	479615009	7	684277	25650	STUYVESANT ST	372.88	37.29	73.83	484.00
3883	479615023	9	684277	25713	ONATE DR	272.07	27.21	53.87	353.14
3884	479621004	1	684277	13826	PAPRIKA CT	408.68	40.87	80.92	530.46
3885	479621009	6	684277	13801	PAPRIKA CT	372.88	37.29	73.83	484.00
3886	479621016	2	684277	13850	CUMIN ST	493.99	49.40	97.81	641.20

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

Column Totals	2,003,753.76	200,377.97	396,739.88	2,600,843.48
Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
3887	479621027	2	684277	25971	BAY AVE	486.54	48.65	96.33	631.52
3888	479621028	3	684277	25983	BAY AVE	372.88	37.29	73.83	484.00
3889	479622001	1	684277	13861	CHERVIL CT	357.67	35.77	70.82	464.26
3890	479622014	3	684277	13862	CHERVIL CT	486.54	48.65	96.33	631.52
3891	479622018	7	684277	13825	CUMIN ST	378.50	37.85	74.94	491.28
3892	479622021	9	684277	13791	CUMIN ST	357.34	35.73	70.75	463.82
3893	479622033	0	684277	13814	CHARA AVE	349.31	34.93	69.16	453.40
3894	479622034	1	684277	13828	CHARA AVE	372.88	37.29	73.83	484.00
3895	479623001	4	684277	13757	CHARA AVE	141.83	14.18	28.08	184.08
3896	479631002	0	684277	13898	CHERVIL CT	82.98	8.30	16.43	107.70
3897	479631003	1	684277	13912	CHERVIL CT	359.52	35.95	71.18	466.64
3898	479632005	6	684277	13941	CHERVIL CT	102.57	10.26	20.31	133.14
3899	479632015	5	684277	13926	CHARA AVE	378.50	37.85	74.94	491.28
3900	479641004	3	684277	25687	DRACAEA AVE	116.72	11.67	23.11	151.50
3901	479642001	3	684277	13251	RAENETTE WAY	378.50	37.85	74.94	491.28
3902	479642009	1	684277	25645	TURMERIC WAY	238.16	23.82	47.16	309.14
3903	479642020	0	684277	13294	PEPPERBUSH DR	222.64	22.26	44.08	288.98
3904	479642022	2	684277	13266	PEPPERBUSH DR	372.88	37.29	73.83	484.00
3905	479642023	3	684277	13250	PEPPERBUSH DR	115.42	11.54	22.85	149.80
3906	479642024	4	684277	13251	NINEBARK ST	378.50	37.85	74.94	491.28
3907	479642027	7	684277	13287	NINEBARK ST	372.88	37.29	73.83	484.00
3908	479642029	9	684277	13311	NINEBARK ST	385.23	38.52	76.28	500.02
3909	479642033	2	684277	13359	NINEBARK ST	348.86	34.89	69.08	452.82
3910	479643002	7	684277	13346	NINEBARK ST	372.88	37.29	73.83	484.00
3911	479643009	4	684277	13347	NUTMEG ST	201.57	20.16	39.91	261.64
3912	479644004	2	684277	25833	DRACAEA AVE	343.46	34.35	68.01	445.82
3913	479644006	4	684277	13258	NUTMEG ST	321.68	32.17	63.69	417.54
3914	479644007	5	684277	13264	NUTMEG ST	162.80	16.28	32.23	211.30
3915	479644014	1	684277	13324	NUTMEG ST	357.79	35.78	70.84	464.40

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

Column Totals	2,003,753.76	200,377.97	396,739.88	2,600,843.48
Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
3916	479651002	2	684277	25551	BAY AVE	104.83	10.48	20.76	136.06
3917	479651007	7	684277	25590	FRUIT TREE ST	139.06	13.91	27.53	180.50
3918	479651015	4	684277	13770	RED BERRY ST	493.99	49.40	97.81	641.20
3919	479651026	4	684277	25621	BAY AVE	369.88	36.99	73.24	480.10
3920	479651028	6	684277	25641	BAY AVE	450.82	45.08	89.26	585.16
3921	479651031	8	684277	13795	MANGOWOOD DR	477.72	47.77	94.59	620.08
3922	479652002	5	684277	25540	BLACK WALNUT ST	378.50	37.85	74.94	491.28
3923	479652003	6	684277	25550	BLACK WALNUT ST	145.12	14.51	28.73	188.36
3924	479652017	9	684277	25619	FRUIT TREE ST	372.88	37.29	73.83	484.00
3925	479652022	3	684277	13855	MANGOWOOD DR	372.88	37.29	73.83	484.00
3926	479652023	4	684277	25640	BLACK WALNUT ST	476.65	47.67	94.38	618.70
3927	479653002	8	684277	13760	MANGOWOOD DR	99.93	9.99	19.79	129.70
3928	479661011	1	684277	12113	LOREZ DR	372.88	37.29	73.83	484.00
3929	479661012	2	684277	12101	LOREZ DR	378.50	37.85	74.94	491.28
3930	479661014	4	684277	12077	LOREZ DR	378.50	37.85	74.94	491.28
3931	479661019	9	684277	25160	BRONZE DR	298.53	29.85	59.11	387.48
3932	479662004	8	684277	25252	BRONZE DR	378.50	37.85	74.94	491.28
3933	479662007	1	684277	25267	BRONZE DR	378.50	37.85	74.94	491.28
3934	479662008	2	684277	25255	BRONZE DR	182.50	18.25	36.14	236.88
3935	479662035	6	684277	12135	FRANKLIN ST	279.97	28.00	55.43	363.40
3936	479663002	9	684277	12098	FRANKLIN ST	372.88	37.29	73.83	484.00
3937	479663014	0	684277	25210	TURQUOISE LN	372.88	37.29	73.83	484.00
3938	479663017	3	684277	25246	TURQUOISE LN	372.88	37.29	73.83	484.00
3939	479663022	7	684277	25261	TURQUOISE LN	250.00	25.00	49.50	324.50
3940	479663024	9	684277	25239	TURQUOISE LN	643.86	64.39	127.49	835.74
3941	479663034	8	684277	25236	HEMLOCK AVE	50.00	5.00	9.90	64.90
3942	479663035	9	684277	25248	HEMLOCK AVE	206.20	20.62	40.83	267.64
3943	479663036	0	684277	25260	HEMLOCK AVE	372.88	37.29	73.83	484.00
3944	479670005	4	684277	25261	DRACAEA AVE	385.23	38.52	76.28	500.02

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

Column Totals	2,003,753.76	200,377.97	396,739.88	2,600,843.48
Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
3945	479670028	5	684277	25304	HENRY CT	166.19	16.62	32.91	215.72
3946	479670033	9	684277	25297	CHARITY CT	59.68	5.97	11.82	77.46
3947	479670036	2	684277	25278	CHARITY CT	65.04	6.50	12.88	84.42
3948	479671002	4	684277	13270	KYLE DR	321.68	32.17	63.69	417.54
3949	479671006	8	684277	13318	KYLE DR	372.88	37.29	73.83	484.00
3950	479671017	8	684277	25339	MICHELE LN	186.98	18.70	37.02	242.70
3951	479672010	4	684277	25322	MICHELE LN	372.88	37.29	73.83	484.00
3952	479681004	7	684277	13478	ALPINE ST	579.10	57.91	114.66	751.66
3953	479681005	8	684277	13464	ALPINE ST	378.50	37.85	74.94	491.28
3954	479681011	3	684277	13380	ALPINE ST	351.40	35.14	69.58	456.12
3955	479690005	6	684277	25062	ROADRUNNER LN	372.88	37.29	73.83	484.00
3956	479690006	7	684277	12038	DIEGO CT	177.24	17.72	35.09	230.04
3957	479690013	3	684277	12109	DIEGO CT	71.43	7.14	14.14	92.70
3958	479690017	7	684277	25081	ABBEY LN	372.40	37.24	73.74	483.38
3959	479690020	9	684277	25129	ABBEY LN	93.16	9.32	18.45	120.92
3960	479690024	3	684277	12094	PALOS GRANDE WAY	372.88	37.29	73.83	484.00
3961	481031010	0	684277	12117	MARIGOLD AVE	372.88	37.29	73.83	484.00
3962	481031022	1	684277	12094	NITA DR	307.33	30.73	60.85	398.90
3963	481031024	3	684277	12114	NITA DR	149.41	14.94	29.58	193.92
3964	481032007	1	684277	12081	INDIAN ST	278.50	27.85	55.14	361.48
3965	481032008	2	684277	12093	INDIAN ST	171.56	17.16	33.97	222.68
3966	481032021	3	684277	12024	MARIGOLD AVE	194.43	19.44	38.50	252.36
3967	481033006	3	684277	12083	NITA DR	375.23	37.52	74.30	487.04
3968	481041006	8	684277	12203	MARIGOLD AVE	372.88	37.29	73.83	484.00
3969	481041008	0	684277	12177	MARIGOLD AVE	378.50	37.85	74.94	491.28
3970	481042010	4	684277	12202	MARIGOLD AVE	372.88	37.29	73.83	484.00
3971	481042011	5	684277	12188	MARIGOLD AVE	116.30	11.63	23.03	150.96
3972	481043009	7	684277	12159	NITA DR	72.67	7.27	14.39	94.32
3973	481062006	3	684277	24628	SINALOA ST	372.88	37.29	73.83	484.00

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

Column Totals	2,003,753.76	200,377.97	396,739.88	2,600,843.48
Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
3974	481064002	5	684277	12176	INDIAN ST	141.92	14.19	28.10	184.20
3975	481064005	8	684277	12214	INDIAN ST	238.16	23.82	47.16	309.14
3976	481064011	3	684277	24572	HEMLOCK AVE	50.00	5.00	9.90	64.90
3977	481064014	6	684277	24620	HEMLOCK AVE	153.20	15.32	30.33	198.84
3978	481064019	1	684277	24690	HEMLOCK AVE	360.64	36.06	71.41	468.10
3979	481064025	6	684277	24675	SINGER ST	372.88	37.29	73.83	484.00
3980	481064029	0	684277	24621	SINGER ST	178.62	17.86	35.37	231.84
3981	481064031	1	684277	24589	SINGER ST	366.80	36.68	72.63	476.10
3982	481064038	8	684277	12165	HANOVER AVE	350.80	35.08	69.46	455.34
3983	481120016	1	684277	24220	WEBSTER AVE	502.17	50.22	99.43	651.82
3984	481120023	7	684277	24108	WEBSTER AVE	486.54	48.65	96.33	631.52
3985	481130006	3	684277	24061	WEBSTER AVE UNIT 01	520.62	52.06	103.08	675.76
3986	481130006	3	684277	24061	WEBSTER AVE	520.62	52.06	103.08	675.76
3987	481130011	7	684277	24145	WEBSTER AVE	533.34	53.33	105.60	692.26
3988	481130016	2	684277	24245	WEBSTER AVE	1424.44	142.44	282.04	1848.92
3989	481130020	5	684277	24162	FIR AVE	773.63	77.36	153.18	1004.16
3990	481130032	6	684277	24132	FIR AVE	76.43	7.64	15.13	99.20
3991	481130033	7	684277	24134	FIR AVE	296.09	29.61	58.63	384.32
3992	481130036	0	684277	24039	WEBSTER AVE	138.16	13.82	27.36	179.34
3993	481140008	6	684277	24375	SUNNYMEAD BLVD	530.22	53.02	104.98	688.22
3994	481140028	4	684277	24454	WEBSTER AVE	238.16	23.82	47.16	309.14
3995	481150009	8	684277	24421	WEBSTER AVE	336.57	33.66	66.64	436.86
3996	481150010	8	684277	24477	WEBSTER AVE	707.62	70.76	140.11	918.48
3997	481150017	5	684277	24460	FIR AVE	509.74	50.97	100.93	661.64
3998	481150022	9	684277	24420	FIR AVE	747.43	74.74	147.99	970.16
3999	481150022	9	684277	24416	FIR AVE	747.43	74.74	147.99	970.16
4000	481150033	9	684277	24264	FIR AVE	486.87	48.69	96.40	631.96
4001	481150033	9	684277	24268	FIR AVE	486.87	48.69	96.40	631.96
4002	481161019	1	684277	24616	WEBSTER AVE	372.88	37.29	73.83	484.00

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

Column Totals	2,003,753.76	200,377.97	396,739.88	2,600,843.48
Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
4003	481161020	1	684277	24614	WEBSTER AVE	162.86	16.29	32.25	211.40
4004	481161021	2	684277	24592	WEBSTER AVE	378.50	37.85	74.94	491.28
4005	481161024	5	684277	24610	WEBSTER AVE	206.18	20.62	40.82	267.62
4006	481161026	7	684277	12609	VAL VIEW DR	378.50	37.85	74.94	491.28
4007	481161027	8	684277	12593	VAL VIEW DR	71.43	7.14	14.14	92.70
4008	481161028	9	684277	12573	VAL VIEW DR	372.88	37.29	73.83	484.00
4009	481162005	1	684277	24713	STARCREST DR	356.16	35.62	70.52	462.30
4010	481162012	7	684277	24712	WEBSTER AVE	486.54	48.65	96.33	631.52
4011	481171003	7	684277	12648	INDIAN ST	160.35	16.04	31.75	208.14
4012	481171005	9	684277	24531	WEBSTER AVE	160.12	16.01	31.70	207.82
4013	481171026	8	684277	24730	FIR AVE	493.99	49.40	97.81	641.20
4014	481171033	4	684277	24638	FIR AVE	71.43	7.14	14.14	92.70
4015	481171036	7	684277	24594	FIR AVE	252.07	25.21	49.91	327.18
4016	481171042	2	684277	12680	INDIAN ST	378.50	37.85	74.94	491.28
4017	481200022	3	684277	12765	PERRIS BLVD APT A	234.56	23.46	46.44	304.46
4018	481200031	1	684277	24850	MYERS AVE	71.43	7.14	14.14	92.70
4019	481210001	5	684277	24765	MYERS AVE	355.57	35.56	70.40	461.52
4020	481210002	6	684277	24789	MYERS AVE	376.18	37.62	74.48	488.28
4021	481210003	7	684277	24797	MYERS AVE	238.16	23.82	47.16	309.14
4022	481210004	8	684277	24829	MYERS AVE	388.45	38.85	76.91	504.20
4023	481210004	8	684277	24811	MYERS AVE	388.45	38.85	76.91	504.20
4024	481210014	7	684277	24975	MYERS AVE	493.99	49.40	97.81	641.20
4025	481210027	9	684277	24920	EUCALYPTUS AVE	361.08	36.11	71.49	468.68
4026	481210037	8	684277	24914	EUCALYPTUS AVE	352.17	35.22	69.73	457.12
4027	481210039	0	684277	24788	EUCALYPTUS AVE	321.68	32.17	63.69	417.54
4028	481210042	2	684277	24784	EUCALYPTUS AVE	409.10	40.91	81.00	531.00
4029	481210045	5	684277	24796	EUCALYPTUS AVE	370.62	37.06	73.38	481.06
4030	481210050	9	684277	12801	PERRIS BLVD	372.88	37.29	73.83	484.00
4031	481221016	3	684277	12765	ROSS ST	248.74	24.87	49.25	322.86

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Customers with Invoice Item Dates in 2018**

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
4032	481222004	5	684277	12808	ROSS ST	388.11	38.81	76.85	503.76
4033	481222005	6	684277	12820	ROSS ST	367.64	36.76	72.79	477.18
4034	481222006	7	684277	12834	ROSS ST	50.00	5.00	9.90	64.90
4035	481222012	2	684277	12823	LEE ST	216.70	21.67	42.91	281.28
4036	481223007	1	684277	12846	LEE ST	510.32	51.03	101.04	662.38
4037	481223014	7	684277	24657	FIR AVE	342.16	34.22	67.75	444.12
4038	481223018	1	684277	24691	FIR AVE	341.42	34.14	67.60	443.16
4039	481223022	4	684277	24662	MYERS AVE	372.88	37.29	73.83	484.00
4040	481223027	9	684277	24748	MYERS AVE	310.93	31.09	61.56	403.58
4041	481230002	8	684277	12892	INDIAN ST	378.50	37.85	74.94	491.28
4042	481230026	0	684277	24626	EUCALYPTUS AVE	378.50	37.85	74.94	491.28
4043	481230033	6	684277	12980	INDIAN ST	195.79	19.58	38.77	254.14
4044	481230036	9	684277	12926	INDIAN ST	371.41	37.14	73.54	482.08
4045	481230045	7	684277	24556	EUCALYPTUS AVE	486.54	48.65	96.33	631.52
4046	481240011	7	684277	24429	FIR AVE	71.43	7.14	14.14	92.70
4047	481240024	9	684277	24480	MYERS AVE	341.25	34.13	67.57	442.94
4048	481240034	8	684277	24320	MYERS AVE	365.72	36.57	72.41	474.70
4049	481250023	9	684277	24462	EUCALYPTUS AVE	257.55	25.76	51.00	334.30
4050	481250027	3	684277	24412	EUCALYPTUS AVE	360.04	36.00	71.29	467.32
4051	481250029	5	684277	24380	EUCALYPTUS AVE	573.60	57.36	113.57	744.52
4052	481260020	7	684277	12821	RUBY CT	372.88	37.29	73.83	484.00
4053	481260043	8	684277	24168	MYERS AVE	159.15	15.92	31.51	206.58
4054	481270004	4	684277	24059	MYERS AVE	522.59	52.26	103.47	678.32
4055	481270004	4	684277	24061	MYERS AVE	522.59	52.26	103.47	678.32
4056	481270004	4	684277	24061	MYERS AVE	522.59	52.26	103.47	678.32
4057	481270010	9	684277	24117	MYERS AVE	281.95	28.20	55.83	365.98
4058	481270010	9	684277	24119	MYERS AVE	281.95	28.20	55.83	365.98
4059	481270013	2	684277	24159	MYERS AVE	23.27	2.33	4.61	30.20
4060	481270022	0	684277	24234	EUCALYPTUS AVE	76.43	7.64	15.13	99.20

**MORENO VALLEY Tax Roll Listing 2019
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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
4061	481270034	1	684277	24062	EUCALYPTUS AVE	59.82	5.98	11.84	77.64
4062	481270050	5	684277	24189	MYERS AVE	155.69	15.57	30.83	202.08
4063	481270064	8	684277	24049	MYERS AVE	90.49	9.05	17.92	117.46
4064	481291002	7	684277	12021	HARCLARE DR	187.67	18.77	37.16	243.60
4065	481291003	8	684277	12033	HARCLARE DR	95.90	9.59	18.99	124.48
4066	481291010	4	684277	12101	HARCLARE DR	378.50	37.85	74.94	491.28
4067	481291018	2	684277	12175	HARCLARE DR	452.55	45.26	89.61	587.42
4068	481291022	5	684277	12219	HARCLARE DR	378.50	37.85	74.94	491.28
4069	481292009	7	684277	12081	AARON DR	486.54	48.65	96.33	631.52
4070	481292010	7	684277	12093	AARON DR	372.88	37.29	73.83	484.00
4071	481292012	9	684277	12117	AARON DR	372.88	37.29	73.83	484.00
4072	481292015	2	684277	12153	AARON DR	92.88	9.29	18.39	120.56
4073	481292022	8	684277	24789	NEVIN PL	313.63	31.36	62.10	407.08
4074	481292028	4	684277	24779	ALCOVE PL	63.93	6.39	12.66	82.98
4075	481301007	2	684277	12091	BARNES CT	378.50	37.85	74.94	491.28
4076	481301023	6	684277	12089	ODESSA DR	386.35	38.64	76.50	501.48
4077	481301024	7	684277	12031	ODESSA DR	378.50	37.85	74.94	491.28
4078	481301027	0	684277	12010	AARON DR	372.88	37.29	73.83	484.00
4079	481302002	0	684277	12018	ODESSA DR	378.50	37.85	74.94	491.28
4080	481302003	1	684277	12030	ODESSA DR	378.50	37.85	74.94	491.28
4081	481302008	6	684277	12088	ODESSA DR	372.88	37.29	73.83	484.00
4082	481302009	7	684277	12098	ODESSA DR	308.50	30.85	61.08	400.42
4083	481302021	7	684277	12309	HARCLARE DR	378.50	37.85	74.94	491.28
4084	481302025	1	684277	12261	HARCLARE DR	378.50	37.85	74.94	491.28
4085	481310005	8	684277	12324	LEAHY DR	169.80	16.98	33.62	220.40
4086	481312025	2	684277	24564	PACE DR	71.43	7.14	14.14	92.70
4087	481312026	3	684277	24576	PACE DR	378.50	37.85	74.94	491.28
4088	481312034	0	684277	24523	HEMLOCK AVE	378.50	37.85	74.94	491.28
4089	481312038	4	684277	24719	PACE DR	378.50	37.85	74.94	491.28

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

Column Totals	2,003,753.76	200,377.97	396,739.88	2,600,843.48
Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
4090	481312048	3	684277	24587	PACE DR	372.88	37.29	73.83	484.00
4091	481322009	9	684277	24777	HEMLOCK AVE APT A	639.99	64.00	126.72	830.70
4092	481341024	1	684277	24697	AFTON WAY	486.54	48.65	96.33	631.52
4093	481341026	3	684277	12130	KILGORE ST	378.50	37.85	74.94	491.28
4094	481341027	4	684277	12118	KILGORE ST	623.96	62.40	123.54	809.90
4095	481341028	5	684277	12106	KILGORE ST	378.50	37.85	74.94	491.28
4096	481342034	3	684277	12075	HONEYSUCKLE CT	357.79	35.78	70.84	464.40
4097	482020001	5	684277	24246	ATWOOD AVE	70.10	7.01	13.88	90.98
4098	482020002	6	684277	24244	ATWOOD AVE	176.24	17.62	34.89	228.74
4099	482020022	4	684277	13060	HEACOCK ST	197.82	19.78	39.17	256.76
4100	482020028	0	684277	24085	EUCALYPTUS AVE	50.00	5.00	9.90	64.90
4101	482020029	1	684277	24095	EUCALYPTUS AVE	425.21	42.52	84.19	551.92
4102	482020029	1	684277	24087	EUCALYPTUS AVE	425.21	42.52	84.19	551.92
4103	482020061	9	684277	24230	ATWOOD AVE	528.75	52.88	104.69	686.32
4104	482030003	8	684277	24293	EUCALYPTUS AVE	384.18	38.42	76.07	498.66
4105	482030008	3	684277	24355	EUCALYPTUS AVE	318.63	31.86	63.09	413.58
4106	482030028	1	684277	24310	ATWOOD AVE	237.33	23.73	46.99	308.04
4107	482030030	2	684277	24292	ATWOOD AVE	212.43	21.24	42.06	275.72
4108	482030033	5	684277	24252	ATWOOD AVE	24.55	2.46	4.86	31.86
4109	482040019	4	684277	24695	EUCALYPTUS AVE	372.88	37.29	73.83	484.00
4110	482040029	3	684277	24580	ATWOOD AVE	372.88	37.29	73.83	484.00
4111	482040035	8	684277	24656	ATWOOD AVE	365.41	36.54	72.35	474.30
4112	482040042	4	684277	24676	ATWOOD AVE	60.00	6.00	11.88	77.88
4113	482050002	9	684277	24797	EUCALYPTUS AVE	359.85	35.99	71.25	467.08
4114	482050003	0	684277	24815	EUCALYPTUS AVE	379.82	37.98	75.20	493.00
4115	482050026	1	684277	24791	EUCALYPTUS AVE	372.88	37.29	73.83	484.00
4116	482050031	5	684277	24876	ATWOOD AVE	372.88	37.29	73.83	484.00
4117	482050032	6	684277	24872	ATWOOD AVE	372.88	37.29	73.83	484.00
4118	482060009	7	684277	24876	DRACAEA AVE	392.63	39.26	77.74	509.62

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

Column Totals	2,003,753.76	200,377.97	396,739.88	2,600,843.48
Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
4119	482060009	7	684277	24876	DRACAEA AVE 1/2	392.63	39.26	77.74	509.62
4120	482060015	2	684277	24963	ATWOOD AVE	339.10	33.91	67.14	440.14
4121	482060016	3	684277	24985	ATWOOD AVE	281.20	28.12	55.68	365.00
4122	482060018	5	684277	13157	PERRIS BLVD	55.57	5.56	11.00	72.12
4123	482060024	0	684277	24942	DRACAEA AVE	395.30	39.53	78.27	513.10
4124	482060035	0	684277	24882	DRACAEA AVE UNIT A	351.46	35.15	69.59	456.20
4125	482070004	3	684277	24547	ATWOOD AVE	486.54	48.65	96.33	631.52
4126	482070013	1	684277	24727	ATWOOD AVE	155.12	15.51	30.71	201.34
4127	482070016	4	684277	24716	DRACAEA AVE	372.88	37.29	73.83	484.00
4128	482070038	4	684277	13176	INDIAN ST	76.67	7.67	15.18	99.52
4129	482080021	9	684277	24447	ATWOOD AVE	378.50	37.85	74.94	491.28
4130	482080038	5	684277	24419	ATWOOD AVE	99.84	9.98	19.77	129.58
4131	482090002	3	684277	24208	DRACAEA AVE	372.88	37.29	73.83	484.00
4132	482090007	8	684277	24156	DRACAEA AVE	216.20	21.62	42.81	280.62
4133	482090024	3	684277	24215	ATWOOD AVE	355.24	35.52	70.34	461.10
4134	482110016	6	684277	13330	DILBECK DR	421.95	42.20	83.55	547.70
4135	482110061	1	684277	13325	DILBECK DR	365.26	36.53	72.32	474.10
4136	482110203	3	684277	13455	DILBECK DR	600.50	60.05	118.90	779.44
4137	482112002	0	684277	24360	SYKES DR	265.22	26.52	52.51	344.24
4138	482113005	6	684277	24330	COTTONWOOD AVE	175.49	17.55	34.75	227.78
4139	482113011	1	684277	24311	SYKES DR	20.78	2.08	4.11	26.96
4140	482113012	2	684277	24323	SYKES DR	362.63	36.26	71.80	470.68
4141	482113018	8	684277	13460	DILBECK DR	139.67	13.97	27.66	181.30
4142	482121003	9	684277	24480	MARILYN ST	372.88	37.29	73.83	484.00
4143	482121004	0	684277	24468	MARILYN ST	235.23	23.52	46.58	305.32
4144	482121006	2	684277	24442	MARILYN ST	71.43	7.14	14.14	92.70
4145	482121009	5	684277	24402	MARILYN ST	65.29	6.53	12.93	84.74
4146	482122001	0	684277	24377	MARILYN ST	378.50	37.85	74.94	491.28
4147	482122004	3	684277	24417	MARILYN ST	121.65	12.17	24.09	157.90

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

Column Totals	2,003,753.76	200,377.97	396,739.88	2,600,843.48
Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
4148	482122005	4	684277	24429	MARILYN ST	378.50	37.85	74.94	491.28
4149	482122016	4	684277	24538	ONEIDA ST	445.26	44.53	88.16	577.94
4150	482123012	3	684277	24561	ONEIDA ST	281.74	28.17	55.78	365.68
4151	482123013	4	684277	24573	ONEIDA ST	372.88	37.29	73.83	484.00
4152	482141013	0	684277	24814	LUKEWOOD PL	378.50	37.85	74.94	491.28
4153	482141014	1	684277	24800	LUKEWOOD PL	378.50	37.85	74.94	491.28
4154	482141015	2	684277	13290	MORENO WAY	372.88	37.29	73.83	484.00
4155	482141017	4	684277	24825	DRACAEA AVE	59.93	5.99	11.87	77.78
4156	482141023	9	684277	24909	DRACAEA AVE	378.50	37.85	74.94	491.28
4157	482141035	0	684277	24891	DRACAEA AVE	92.24	9.22	18.26	119.72
4158	482142001	2	684277	24785	LUKEWOOD PL	104.24	10.42	20.64	135.30
4159	482142013	3	684277	24856	RAMONA LN	357.79	35.78	70.84	464.40
4160	482143009	3	684277	13365	MORENO WAY	378.50	37.85	74.94	491.28
4161	482144002	9	684277	24803	RAMONA LN	378.50	37.85	74.94	491.28
4162	482144007	4	684277	24867	RAMONA LN	365.14	36.51	72.30	473.94
4163	482144008	5	684277	24883	RAMONA LN	378.50	37.85	74.94	491.28
4164	482151001	0	684277	24780	MYRNA ST	98.28	9.83	19.46	127.56
4165	482151002	1	684277	13409	MORENO WAY	537.19	53.72	106.36	697.26
4166	482151006	5	684277	13479	MORENO WAY	159.05	15.91	31.49	206.44
4167	482152003	5	684277	13417	HIAWATHA LN	403.72	40.37	79.94	524.02
4168	482152009	1	684277	13448	HIAWATHA LN	372.88	37.29	73.83	484.00
4169	482152012	3	684277	13420	HIAWATHA LN	378.50	37.85	74.94	491.28
4170	482152013	4	684277	13404	HIAWATHA LN	724.92	72.49	143.53	940.94
4171	482152015	6	684277	13366	HIAWATHA LN	713.96	71.40	141.36	926.72
4172	482152022	2	684277	24830	COTTONWOOD AVE	415.62	41.56	82.29	539.46
4173	482152025	5	684277	13456	MORENO WAY	350.11	35.01	69.32	454.44
4174	482152026	6	684277	13436	MORENO WAY	493.99	49.40	97.81	641.20
4175	482152029	9	684277	24831	CORLEY CT	314.82	31.48	62.33	408.62
4176	482152031	0	684277	24851	CORLEY CT	486.54	48.65	96.33	631.52

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

Column Totals	2,003,753.76	200,377.97	396,739.88	2,600,843.48
Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
4177	4821520387		684277	13396	MORENO WAY	493.99	49.40	97.81	641.20
4178	4821520398		684277	13386	MORENO WAY	91.84	9.18	18.18	119.20
4179	4821520518		684277	24894	COTTONWOOD AVE	378.50	37.85	74.94	491.28
4180	4821520530		684277	24916	COTTONWOOD AVE	73.47	7.35	14.55	95.36
4181	4821520541		684277	24926	COTTONWOOD AVE	144.25	14.43	28.56	187.24
4182	4821610109		684277	24638	MYRNA ST	372.88	37.29	73.83	484.00
4183	4821610176		684277	24730	MYRNA ST	608.96	60.90	120.57	790.42
4184	4821610187		684277	24740	MYRNA ST	71.43	7.14	14.14	92.70
4185	4821620014		684277	13412	CORA PL	164.49	16.45	32.57	213.50
4186	4821620102		684277	13441	CORA PL	372.88	37.29	73.83	484.00
4187	4821620113		684277	13427	CORA PL	348.20	34.82	68.94	451.96
4188	4821620179		684277	13470	LEOTA CT	378.50	37.85	74.94	491.28
4189	4821620201		684277	13471	LEOTA CT	372.88	37.29	73.83	484.00
4190	4821620245		684277	13411	LEOTA CT	372.88	37.29	73.83	484.00
4191	4821620300		684277	13484	JO ANN ST	378.50	37.85	74.94	491.28
4192	4821700206		684277	24396	DORNER DR	378.50	37.85	74.94	491.28
4193	4821700305		684277	24487	DORNER DR	238.16	23.82	47.16	309.14
4194	4821700316		684277	24473	DORNER DR	71.43	7.14	14.14	92.70
4195	4821700327		684277	24461	DORNER DR	71.43	7.14	14.14	92.70
4196	4821700525		684277	24451	COTTONWOOD AVE	93.09	9.31	18.43	120.82
4197	4822010014		684277	24762	EUGENA AVE	378.50	37.85	74.94	491.28
4198	4822010036		684277	24786	EUGENA AVE	600.44	60.04	118.89	779.36
4199	4822010212		684277	24910	ALESSANDRO BLVD	321.68	32.17	63.69	417.54
4200	4822020150		684277	24848	CAROLYN AVE	372.88	37.29	73.83	484.00
4201	4822030043		684277	24797	CAROLYN AVE	376.96	37.70	74.64	489.30
4202	4822030108		684277	24869	CAROLYN AVE	434.15	43.42	85.96	563.52
4203	4822030119		684277	13975	GAYE ST	391.50	39.15	77.52	508.16
4204	4822030119		684277	13975	GAYE ST	391.50	39.15	77.52	508.16
4205	4822030164		684277	24834	ALESSANDRO BLVD	296.21	29.62	58.65	384.48

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

Column Totals	2,003,753.76	200,377.97	396,739.88	2,600,843.48
Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
4206	482230022	3	684277	14739	PERRIS BLVD	378.50	37.85	74.94	491.28
4207	482241016	2	684277	13591	RAMSDELL DR	493.99	49.40	97.81	641.20
4208	482242005	5	684277	24322	DORNER DR	372.88	37.29	73.83	484.00
4209	482242014	3	684277	24269	DOLAN DR	378.50	37.85	74.94	491.28
4210	482242021	9	684277	24345	DOLAN DR	363.24	36.32	71.92	471.48
4211	482242024	2	684277	24371	BION DR	378.50	37.85	74.94	491.28
4212	482243001	4	684277	13604	RAMSDELL DR	372.88	37.29	73.83	484.00
4213	482243002	5	684277	13620	RAMSDELL DR	480.68	48.07	95.18	623.92
4214	482243007	0	684277	24303	DORNER DR	50.00	5.00	9.90	64.90
4215	482243008	1	684277	24313	DORNER DR	493.99	49.40	97.81	641.20
4216	482243009	2	684277	24323	DORNER DR	378.50	37.85	74.94	491.28
4217	482243012	4	684277	24357	DORNER DR	372.88	37.29	73.83	484.00
4218	482251015	2	684277	14761	STARMONT ST	191.80	19.18	37.98	248.96
4219	482251026	2	684277	24810	SHOREHAM AVE	68.69	6.87	13.60	89.16
4220	482251028	4	684277	24820	SHOREHAM AVE	326.77	32.68	64.70	424.14
4221	482251033	8	684277	24846	SHOREHAM AVE	112.27	11.23	22.23	145.72
4222	482252012	2	684277	14830	BLUEBRIAR ST	172.06	17.21	34.07	223.34
4223	482252017	7	684277	14780	BLUEBRIAR ST	71.43	7.14	14.14	92.70
4224	482253003	7	684277	14813	BLUEBRIAR ST	346.32	34.63	68.57	449.52
4225	482253007	1	684277	14842	DELFBUSH ST	33.99	3.40	6.73	44.12
4226	482253011	4	684277	14802	DELFBUSH ST	372.88	37.29	73.83	484.00
4227	482253018	1	684277	14845	DELFBUSH ST	59.09	5.91	11.70	76.70
4228	482253022	4	684277	14846	BRENTSTONE ST	392.68	39.27	77.75	509.70
4229	482253025	7	684277	14816	BRENTSTONE ST	320.70	32.07	63.50	416.26
4230	482253027	9	684277	14796	BRENTSTONE ST	240.35	24.04	47.59	311.98
4231	482253030	1	684277	14817	BRENTSTONE ST	81.65	8.17	16.17	105.98
4232	482253032	3	684277	14837	BRENTSTONE ST	268.21	26.82	53.11	348.14
4233	482253041	1	684277	14838	VINEHILL ST	222.73	22.27	44.10	289.10
4234	482254002	9	684277	14809	VINEHILL ST	372.88	37.29	73.83	484.00

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
4235	482254021	6	684277	14824	STAR MONT ST	65.85	6.59	13.04	85.48
4236	482261016	4	684277	14974	STAR MONT ST	372.88	37.29	73.83	484.00
4237	482261022	9	684277	14961	STAR MONT ST	350.20	35.02	69.34	454.56
4238	482262006	8	684277	14977	FOXSHIELD ST	238.16	23.82	47.16	309.14
4239	482263001	6	684277	14916	FOXSHIELD ST	158.99	15.90	31.48	206.36
4240	482264009	7	684277	14962	DOVEHURST ST	71.43	7.14	14.14	92.70
4241	482264011	8	684277	14973	BLUEBRIAR ST	330.86	33.09	65.51	429.46
4242	482264012	9	684277	14963	BLUEBRIAR ST	160.12	16.01	31.70	207.82
4243	482264015	2	684277	14933	BLUEBRIAR ST	77.39	7.74	15.32	100.44
4244	482264018	5	684277	14903	BLUEBRIAR ST	126.29	12.63	25.01	163.92
4245	482265006	7	684277	14910	BLUEBRIAR ST	378.50	37.85	74.94	491.28
4246	482271001	1	684277	14623	PERHAM DR	178.50	17.85	35.34	231.68
4247	482271009	9	684277	14543	PERHAM DR	378.50	37.85	74.94	491.28
4248	482272005	8	684277	14560	PERHAM DR	321.68	32.17	63.69	417.54
4249	482272009	2	684277	14615	CORDON PL	378.50	37.85	74.94	491.28
4250	482272017	9	684277	14526	CORDON PL	378.50	37.85	74.94	491.28
4251	482272019	1	684277	14556	CORDON PL	378.50	37.85	74.94	491.28
4252	482272024	5	684277	24366	GLENCREST DR	486.54	48.65	96.33	631.52
4253	482272034	4	684277	14524	JUSTIN PL	378.50	37.85	74.94	491.28
4254	482272045	4	684277	24472	GLENCREST DR	372.88	37.29	73.83	484.00
4255	482281001	2	684277	14383	PERHAM DR	372.88	37.29	73.83	484.00
4256	482281002	3	684277	14395	PERHAM DR	493.99	49.40	97.81	641.20
4257	482281006	7	684277	14445	PERHAM DR	295.42	29.54	58.49	383.44
4258	482282003	7	684277	24306	SAINT JAMES DR	227.03	22.70	44.95	294.68
4259	482282008	2	684277	24372	SAINT JAMES DR	378.50	37.85	74.94	491.28
4260	482282009	3	684277	24386	SAINT JAMES DR	378.50	37.85	74.94	491.28
4261	482283005	2	684277	24329	SAINT JAMES DR	342.85	34.29	67.89	445.02
4262	482283006	3	684277	24343	SAINT JAMES DR	372.88	37.29	73.83	484.00
4263	482283008	5	684277	24371	SAINT JAMES DR	402.93	40.29	79.78	523.00

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
4264	482283020	5	684277	24420	BOSTWICK DR	573.56	57.36	113.57	744.48
4265	482283029	4	684277	24290	BOSTWICK DR	372.88	37.29	73.83	484.00
4266	482284002	2	684277	24493	BOSTWICK DR	161.80	16.18	32.04	210.02
4267	482284011	0	684277	24433	BOSTWICK DR	366.13	36.61	72.49	475.22
4268	482284012	1	684277	24421	BOSTWICK DR	204.19	20.42	40.43	265.04
4269	482284016	5	684277	24355	BOSTWICK DR	385.23	38.52	76.28	500.02
4270	482291006	8	684277	13693	RAMSDELL DR	378.50	37.85	74.94	491.28
4271	482292005	0	684277	24275	TIERRA DE ORO	378.50	37.85	74.94	491.28
4272	482292006	1	684277	24263	TIERRA DE ORO	200.00	20.00	39.60	259.60
4273	482292008	3	684277	24345	TIERRA DE ORO	87.03	8.70	17.23	112.96
4274	482292009	4	684277	24333	TIERRA DE ORO	342.80	34.28	67.87	444.94
4275	482292010	4	684277	24317	TIERRA DE ORO	136.91	13.69	27.11	177.70
4276	482292023	6	684277	24362	BAY AVE	345.26	34.53	68.36	448.14
4277	482293007	5	684277	24331	VIA DEL SOL	255.08	25.51	50.51	331.10
4278	482293013	0	684277	24324	TIERRA DE ORO	153.16	15.32	30.33	198.80
4279	482293014	1	684277	24338	TIERRA DE ORO	372.88	37.29	73.83	484.00
4280	482294001	2	684277	24244	VIA DEL SOL	158.99	15.90	31.48	206.36
4281	482294002	3	684277	24250	VIA DEL SOL	378.50	37.85	74.94	491.28
4282	482301007	9	684277	24282	JANET KAY DR	378.50	37.85	74.94	491.28
4283	482302002	7	684277	14735	PERHAM DR	378.50	37.85	74.94	491.28
4284	482302006	1	684277	14695	PERHAM DR	372.88	37.29	73.83	484.00
4285	482302008	3	684277	14675	PERHAM DR	236.32	23.63	46.79	306.74
4286	482303004	2	684277	14710	PERHAM DR	198.80	19.88	39.36	258.04
4287	482303016	3	684277	14741	WILMA SUE ST	376.18	37.62	74.48	488.28
4288	482304012	2	684277	14742	WILMA SUE ST	372.64	37.26	73.78	483.68
4289	482304015	5	684277	24372	DELPHINIUM AVE	344.04	34.40	68.12	446.56
4290	482304025	4	684277	14733	CLAUDINE ST	115.45	11.55	22.86	149.86
4291	482304028	7	684277	14703	CLAUDINE ST	385.23	38.52	76.28	500.02
4292	482304030	8	684277	14683	CLAUDINE ST	378.50	37.85	74.94	491.28

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

Column Totals	2,003,753.76	200,377.97	396,739.88	2,600,843.48
Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
4293	482304033	1	684277	24393	JANET KAY DR	158.99	15.90	31.48	206.36
4294	482305007	1	684277	14675	CARLA JEAN DR	71.43	7.14	14.14	92.70
4295	482305009	3	684277	14684	CLAUDINE ST	153.64	15.36	30.42	199.42
4296	482305011	4	684277	14704	CLAUDINE ST	317.91	31.79	62.95	412.64
4297	482306003	0	684277	24394	JANET KAY DR	302.88	30.29	59.97	393.14
4298	482306020	5	684277	14746	CARLA JEAN DR	243.01	24.30	48.12	315.42
4299	482311019	1	684277	24412	LAMONT DR	372.88	37.29	73.83	484.00
4300	482311022	3	684277	24446	LAMONT DR	421.95	42.20	83.55	547.70
4301	482311024	5	684277	24474	LAMONT DR	372.88	37.29	73.83	484.00
4302	482311025	6	684277	24473	LAMONT DR	378.50	37.85	74.94	491.28
4303	482311033	3	684277	24369	LAMONT DR	385.23	38.52	76.28	500.02
4304	482311035	5	684277	24343	LAMONT DR	78.16	7.82	15.48	101.46
4305	482311036	6	684277	24331	LAMONT DR	102.32	10.23	20.26	132.80
4306	482312005	1	684277	14323	PERHAM DR	235.23	23.52	46.58	305.32
4307	482313003	2	684277	24316	LAMONT DR	385.23	38.52	76.28	500.02
4308	482313004	3	684277	24330	LAMONT DR	378.50	37.85	74.94	491.28
4309	482313005	4	684277	24344	LAMONT DR	372.88	37.29	73.83	484.00
4310	482313008	7	684277	14343	STONEHURST DR	493.99	49.40	97.81	641.20
4311	482313021	8	684277	24375	FINLEY DR	71.43	7.14	14.14	92.70
4312	482314002	4	684277	24308	FINLEY DR	372.88	37.29	73.83	484.00
4313	482314005	7	684277	24343	FINLEY DR	71.37	7.14	14.13	92.64
4314	482320001	2	684277	24418	VIA DEL SOL	372.88	37.29	73.83	484.00
4315	482320007	8	684277	24490	VIA DEL SOL	378.50	37.85	74.94	491.28
4316	482320013	3	684277	13705	DAHL WAY	181.34	18.13	35.90	235.36
4317	482320015	5	684277	13731	DAHL DR	361.38	36.14	71.55	469.06
4318	482320017	7	684277	13627	DAHL DR	113.07	11.31	22.39	146.76
4319	482321001	5	684277	24408	TIERRA DE ORO	78.50	7.85	15.54	101.88
4320	482321007	1	684277	24486	TIERRA DE ORO	372.88	37.29	73.83	484.00
4321	482322001	8	684277	24415	TIERRA DE ORO	245.42	24.54	48.59	318.54

**MORENO VALLEY Tax Roll Listing 2019
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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
4322	482322003	0	684277	24443	TIERRA DE ORO	600.44	60.04	118.89	779.36
4323	482322008	5	684277	24488	BAY AVE	71.43	7.14	14.14	92.70
4324	482322009	6	684277	24474	BAY AVE	376.18	37.62	74.48	488.28
4325	482331004	9	684277	24174	SILVERWOOD LN	71.43	7.14	14.14	92.70
4326	482331011	5	684277	24157	SILVERWOOD LN	378.50	37.85	74.94	491.28
4327	482331028	1	684277	24169	JIMSON PL	372.88	37.29	73.83	484.00
4328	482331029	2	684277	24181	JIMSON PL	385.23	38.52	76.28	500.02
4329	482331036	8	684277	14580	UNITY CT	385.23	38.52	76.28	500.02
4330	482332002	0	684277	14528	JOSHUA TREE AVE	378.50	37.85	74.94	491.28
4331	482332003	1	684277	14540	JOSHUA TREE AVE	378.50	37.85	74.94	491.28
4332	482332007	5	684277	14590	JOSHUA TREE AVE	372.88	37.29	73.83	484.00
4333	482333001	2	684277	14517	UNITY CT	282.61	28.26	55.96	366.82
4334	482333004	5	684277	14577	UNITY CT	372.88	37.29	73.83	484.00
4335	482341003	9	684277	24045	BRODIAEA AVE	138.16	13.82	27.36	179.34
4336	482341009	5	684277	14311	VINCENTE DR	46.68	4.67	9.24	60.58
4337	482341014	9	684277	14312	TRAVERS CT	463.14	46.31	91.70	601.14
4338	482341015	0	684277	14290	TRAVERS CT	71.43	7.14	14.14	92.70
4339	482341018	3	684277	14281	TRAVERS CT	437.02	43.70	86.53	567.24
4340	482342007	6	684277	24161	BRODIAEA AVE	347.50	34.75	68.81	451.06
4341	482342024	1	684277	24212	FINLEY DR	378.50	37.85	74.94	491.28
4342	482342027	4	684277	24260	FINLEY DR	341.95	34.20	67.71	443.86
4343	482342028	5	684277	24276	FINLEY DR	340.00	34.00	67.32	441.32
4344	482343006	8	684277	24211	FINLEY DR	503.03	50.30	99.60	652.92
4345	482343015	6	684277	24245	POWELL PL	295.07	29.51	58.42	383.00
4346	482343016	7	684277	24237	POWELL PL	115.40	11.54	22.85	149.78
4347	482343031	0	684277	24017	POWELL PL	393.95	39.40	78.00	511.34
4348	482351003	0	684277	14897	BLUEBERRY RD	341.20	34.12	67.56	442.88
4349	482351007	4	684277	14947	BLUEBERRY RD	477.72	47.77	94.59	620.08
4350	482351008	5	684277	14959	BLUEBERRY RD	378.50	37.85	74.94	491.28

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Customers with Invoice Item Dates in 2018**

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
4351	482352005	5	684277	14922	BLUEBERRY RD	372.88	37.29	73.83	484.00
4352	482352006	6	684277	14934	BLUEBERRY RD	372.88	37.29	73.83	484.00
4353	482352010	9	684277	14945	CLIFFROSE CT	366.31	36.63	72.53	475.46
4354	482353002	5	684277	14988	CLIFFROSE CT	472.19	47.22	93.49	612.90
4355	482353005	8	684277	14968	CLIFFROSE CT	283.09	28.31	56.05	367.44
4356	482353008	1	684277	14948	CLIFFROSE CT	143.16	14.32	28.35	185.82
4357	482353009	2	684277	14940	CLIFFROSE CT	268.13	26.81	53.09	348.02
4358	482353010	2	684277	14928	CLIFFROSE CT	125.04	12.50	24.76	162.30
4359	482353012	4	684277	14906	CLIFFROSE CT	503.03	50.30	99.60	652.92
4360	482362011	1	684277	24869	BRANCH ST	301.94	30.19	59.78	391.90
4361	482363009	3	684277	24955	BASSWOOD ST	183.16	18.32	36.27	237.74
4362	482363011	4	684277	24942	BAY AVE	518.33	51.83	102.63	672.78
4363	482363011	4	684277	24942	BAY AVE	518.33	51.83	102.63	672.78
4364	482363012	5	684277	24928	BAY AVE	192.79	19.28	38.17	250.24
4365	482363015	8	684277	24890	BAY AVE	358.10	35.81	70.90	464.80
4366	482364008	5	684277	13665	MORENO WAY	347.11	34.71	68.73	450.54
4367	482365001	1	684277	13747	PECAN PL	355.54	35.55	70.40	461.48
4368	482365003	3	684277	13723	PECAN PL	349.46	34.95	69.19	453.60
4369	482370005	1	684277	13879	RAMSDELL DR	347.32	34.73	68.77	450.82
4370	482370014	9	684277	13781	RAMSDELL DR	372.88	37.29	73.83	484.00
4371	482370015	0	684277	13771	RAMSDELL DR	260.88	26.09	51.65	338.62
4372	482371006	5	684277	24138	MILLSAP DR	701.81	70.18	138.96	910.94
4373	482371015	3	684277	24198	MILLSAP DR	238.16	23.82	47.16	309.14
4374	482371018	6	684277	24244	MILLSAP DR	503.03	50.30	99.60	652.92
4375	482372002	4	684277	24233	MILLSAP DR	378.50	37.85	74.94	491.28
4376	482372004	6	684277	24201	MILLSAP DR	602.45	60.25	119.29	781.98
4377	482372016	7	684277	24221	HORTON CT	277.48	27.75	54.94	360.16
4378	482372024	4	684277	24121	DELGADO CT	385.23	38.52	76.28	500.02
4379	482372028	8	684277	24178	DELGADO CT	493.99	49.40	97.81	641.20

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
4380	482372031	0	684277	24226	DELGADO CT	372.88	37.29	73.83	484.00
4381	482372032	1	684277	24238	DELGADO CT	359.04	35.90	71.09	466.02
4382	482372040	8	684277	24161	DELGADO CT	372.88	37.29	73.83	484.00
4383	482372044	2	684277	24146	VIA VARGAS DR	483.09	48.31	95.65	627.04
4384	482372046	4	684277	24172	VIA VARGAS DR	614.52	61.45	121.67	797.64
4385	482372047	5	684277	24184	VIA VARGAS DR	302.43	30.24	59.88	392.54
4386	482372051	8	684277	24236	VIA VARGAS DR	372.88	37.29	73.83	484.00
4387	482372052	9	684277	24240	VIA VARGAS DR	378.50	37.85	74.94	491.28
4388	482373001	6	684277	24119	VIA VARGAS DR	378.50	37.85	74.94	491.28
4389	482373008	3	684277	24203	VIA VARGAS DR	493.99	49.40	97.81	641.20
4390	482381008	8	684277	14836	BLUEBERRY RD	374.53	37.45	74.16	486.14
4391	482382003	6	684277	14835	BLUEBERRY RD	43.41	4.34	8.60	56.34
4392	482382005	8	684277	14811	BLUEBERRY RD	222.88	22.29	44.13	289.30
4393	482382008	1	684277	24341	BLUEGRASS CT	358.74	35.87	71.03	465.64
4394	482382017	9	684277	24348	COMFORT CT	420.56	42.06	83.27	545.88
4395	482383004	0	684277	24235	DELPHINIUM AVE	372.88	37.29	73.83	484.00
4396	482384014	2	684277	24364	BLUEGRASS CT	372.88	37.29	73.83	484.00
4397	482384019	7	684277	24302	BLUEGRASS CT	385.23	38.52	76.28	500.02
4398	482384025	2	684277	24323	DELPHINIUM AVE	155.12	15.51	30.71	201.34
4399	482384028	5	684277	24351	DELPHINIUM AVE	77.03	7.70	15.25	99.98
4400	482384032	8	684277	24407	DELPHINIUM AVE	117.04	11.70	23.17	151.90
4401	482384033	9	684277	24421	DELPHINIUM AVE	372.88	37.29	73.83	484.00
4402	482384034	0	684277	24431	DELPHINIUM AVE	372.88	37.29	73.83	484.00
4403	482391001	2	684277	13641	PECAN PL	600.44	60.04	118.89	779.36
4404	482391002	3	684277	13631	PECAN PL	493.99	49.40	97.81	641.20
4405	482392001	5	684277	13637	MORENO WAY	486.54	48.65	96.33	631.52
4406	482392006	0	684277	13577	MORENO WAY	615.02	61.50	121.77	798.28
4407	482393001	8	684277	24854	BOWER ST	493.99	49.40	97.81	641.20
4408	482393004	1	684277	24900	BOWER ST	378.50	37.85	74.94	491.28

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
4409	482393007	4	684277	24940	BOWER ST	372.88	37.29	73.83	484.00
4410	482394001	1	684277	24855	BOWER ST	259.69	25.97	51.42	337.08
4411	482394007	7	684277	24941	BOWER ST	372.88	37.29	73.83	484.00
4412	482394010	9	684277	24928	BAYLEAF ST	51.20	5.12	10.14	66.46
4413	482395006	9	684277	24923	BAYLEAF ST	355.06	35.51	70.30	460.86
4414	482395016	8	684277	24934	BRANCH ST	236.50	23.65	46.83	306.98
4415	482396007	3	684277	13570	PERSIMMON RD	219.74	21.97	43.51	285.22
4416	482412007	2	684277	24626	MORNING GLORY ST	378.50	37.85	74.94	491.28
4417	482412015	9	684277	14920	SILVERTREE RD	378.50	37.85	74.94	491.28
4418	482413002	0	684277	24652	FERNDELL ST	138.27	13.83	27.38	179.48
4419	482413003	1	684277	24676	FERNDELL ST	378.50	37.85	74.94	491.28
4420	482413008	6	684277	24744	FERNDELL ST	158.99	15.90	31.48	206.36
4421	482413011	8	684277	24711	FERNDELL ST	147.72	14.77	29.25	191.74
4422	482413023	9	684277	24745	MORNING GLORY ST	378.03	37.80	74.85	490.68
4423	482413027	3	684277	24675	MORNING GLORY ST	176.63	17.66	34.97	229.26
4424	482414003	4	684277	24593	MORNING GLORY ST	378.50	37.85	74.94	491.28
4425	482414006	7	684277	24547	MORNING GLORY ST	378.50	37.85	74.94	491.28
4426	482414007	8	684277	24533	MORNING GLORY ST	310.00	31.00	61.38	402.38
4427	482414012	2	684277	14949	SILVERTREE RD	372.88	37.29	73.83	484.00
4428	482421005	8	684277	24575	DELPHINIUM AVE	149.68	14.97	29.64	194.28
4429	482421007	0	684277	14755	SILVERTREE RD	378.50	37.85	74.94	491.28
4430	482421008	1	684277	14767	SILVERTREE RD	193.38	19.34	38.29	251.00
4431	482421011	3	684277	14801	SILVERTREE RD	167.82	16.78	33.23	217.82
4432	482422012	7	684277	14809	CLOVERFIELD RD	372.88	37.29	73.83	484.00
4433	482422013	8	684277	14825	CLOVERFIELD RD	128.46	12.85	25.44	166.74
4434	482422013	8	684277	14825	CLOVERFIELD RD	128.46	12.85	25.44	166.74
4435	482422017	2	684277	14891	CLOVERFIELD RD	342.75	34.28	67.87	444.90
4436	482423006	5	684277	14818	CLOVERFIELD RD	242.03	24.20	47.92	314.14
4437	482423014	2	684277	24667	DELPHINIUM AVE	351.46	35.15	69.59	456.20

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
4438	482423022	9	684277	14841	WINTERGREEN ST	486.54	48.65	96.33	631.52
4439	482423026	3	684277	14881	WINTERGREEN ST	372.88	37.29	73.83	484.00
4440	482423029	6	684277	14911	WINTERGREEN ST	35.00	3.50	6.93	45.42
4441	482423031	7	684277	14927	WINTERGREEN ST	371.41	37.14	73.54	482.08
4442	482424012	3	684277	24654	BAMBOO CT	372.88	37.29	73.83	484.00
4443	482424014	5	684277	24680	BAMBOO CT	49.76	4.98	9.85	64.58
4444	482424018	9	684277	24730	BAMBOO CT	372.88	37.29	73.83	484.00
4445	482424018	9	684277	24730	BAMBOO CT	372.88	37.29	73.83	484.00
4446	482424020	0	684277	24731	BAMBOO CT	158.70	15.87	31.42	205.98
4447	482441004	9	684277	24319	MOUNT RUSSELL DR	378.50	37.85	74.94	491.28
4448	482441015	9	684277	14075	HAUSTEEN CT	76.43	7.64	15.13	99.20
4449	482441020	3	684277	24279	MOUNT RUSSELL DR	372.88	37.29	73.83	484.00
4450	482441021	4	684277	24261	MOUNT RUSSELL DR	372.88	37.29	73.83	484.00
4451	482441025	8	684277	14106	FENNER CT	106.73	10.67	21.13	138.52
4452	482442006	4	684277	14076	BRANDT DR	520.46	52.05	103.05	675.56
4453	482442007	5	684277	14088	BRANDT DR	372.88	37.29	73.83	484.00
4454	482442010	7	684277	14128	BRANDT DR	378.50	37.85	74.94	491.28
4455	482443002	3	684277	24289	DIMITRA DR	173.08	17.31	34.27	224.66
4456	482443008	9	684277	14171	BRANDT DR	378.50	37.85	74.94	491.28
4457	482443018	8	684277	14186	PERHAM CT	493.99	49.40	97.81	641.20
4458	482443029	8	684277	24261	DIMITRA DR	192.32	19.23	38.08	249.62
4459	482451004	0	684277	24677	BRODIAEA AVE	385.23	38.52	76.28	500.02
4460	482451009	5	684277	14311	VICTOR DR	186.43	18.64	36.91	241.98
4461	482451011	6	684277	14327	VICTOR DR	71.43	7.14	14.14	92.70
4462	482451017	2	684277	14377	VICTOR DR	378.50	37.85	74.94	491.28
4463	482451032	5	684277	14358	SAYAN PL	88.32	8.83	17.49	114.64
4464	482451035	8	684277	14318	SAYAN PL	369.40	36.94	73.14	479.48
4465	482451038	1	684277	14276	SAYAN PL	91.44	9.14	18.10	118.68
4466	482451039	2	684277	14275	SAYAN PL	378.50	37.85	74.94	491.28

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

Column Totals	2,003,753.76	200,377.97	396,739.88	2,600,843.48
Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
4467	482451041	3	684277	14305	SAYAN PL	372.88	37.29	73.83	484.00
4468	482451045	7	684277	14300	HOMESTEAD DR	372.88	37.29	73.83	484.00
4469	482451050	1	684277	24547	BRODIAEA AVE	369.90	36.99	73.24	480.12
4470	482452039	5	684277	24664	SLOAN CT	378.50	37.85	74.94	491.28
4471	482452041	6	684277	14322	VICTOR DR	385.23	38.52	76.28	500.02
4472	482452042	7	684277	14314	VICTOR DR	125.83	12.58	24.91	163.32
4473	482453008	0	684277	14315	HOMESTEAD DR	257.13	25.71	50.91	333.74
4474	482461010	6	684277	14195	HOMESTEAD DR	60.00	6.00	11.88	77.88
4475	482461017	3	684277	14178	HOMESTEAD DR	380.98	38.10	75.43	494.50
4476	482461020	5	684277	14228	HOMESTEAD DR	59.46	5.95	11.77	77.18
4477	482461028	3	684277	14149	LINNETT DR	537.44	53.74	106.41	697.58
4478	482462001	1	684277	14244	LINNETT DR	64.29	6.43	12.73	83.44
4479	482462006	6	684277	14174	LINNETT DR	372.88	37.29	73.83	484.00
4480	482462008	8	684277	14144	LINNETT DR	324.72	32.47	64.29	421.48
4481	482462015	4	684277	14151	GALVIN CT	206.22	20.62	40.83	267.66
4482	482462019	8	684277	14170	GALVIN CT	493.99	49.40	97.81	641.20
4483	482462022	0	684277	14222	GALVIN CT	372.88	37.29	73.83	484.00
4484	482462031	8	684277	14138	KINGSWAY CT	378.50	37.85	74.94	491.28
4485	482462038	5	684277	24747	JENKINS DR	241.62	24.16	47.84	313.62
4486	482462039	6	684277	24733	JENKINS DR	126.68	12.67	25.08	164.42
4487	482462042	8	684277	24697	JENKINS DR	485.05	48.51	96.04	629.60
4488	482471003	1	684277	24558	SENECA CIR	395.36	39.54	78.28	513.18
4489	482471011	8	684277	24545	SENECA CIR	340.38	34.04	67.40	441.82
4490	482471021	7	684277	24512	TUSCARORA CIR	378.50	37.85	74.94	491.28
4491	482471023	9	684277	24519	TUSCARORA CIR	247.28	24.73	48.96	320.96
4492	482472002	3	684277	14396	SAYAN PL	158.99	15.90	31.48	206.36
4493	482472011	1	684277	14497	VICTOR DR	238.16	23.82	47.16	309.14
4494	482472015	5	684277	14451	VICTOR DR	146.24	14.62	28.95	189.80
4495	482472019	9	684277	14417	VICTOR DR	283.94	28.39	56.22	368.54

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
4496	482473001	5	684277	24666	CONLEY CT	493.99	49.40	97.81	641.20
4497	482473002	6	684277	24680	CONLEY CT	108.22	10.82	21.43	140.46
4498	482481001	0	684277	14121	TRAVERS DR	485.05	48.51	96.04	629.60
4499	482481003	2	684277	14097	TRAVERS DR	351.46	35.15	69.59	456.20
4500	482481004	3	684277	14083	TRAVERS DR	372.88	37.29	73.83	484.00
4501	482481007	6	684277	14096	TRAVERS DR	164.99	16.50	32.67	214.16
4502	482481011	9	684277	14105	ANN MARIE CT	486.54	48.65	96.33	631.52
4503	482481013	1	684277	14079	ANN MARIE CT	378.50	37.85	74.94	491.28
4504	482481014	2	684277	14080	ANN MARIE CT	152.09	15.21	30.11	197.40
4505	482481015	3	684277	14094	ANN MARIE CT	252.57	25.26	50.01	327.84
4506	482481016	4	684277	14106	ANN MARIE CT	376.18	37.62	74.48	488.28
4507	482481027	4	684277	24128	MOUNT RUSSELL DR	372.64	37.26	73.78	483.68
4508	482482005	7	684277	24111	MOUNT RUSSELL DR	356.64	35.66	70.61	462.90
4509	482482009	1	684277	24181	MOUNT RUSSELL DR	378.50	37.85	74.94	491.28
4510	482482013	4	684277	14091	FENNER CT	23.58	2.36	4.67	30.60
4511	482491001	1	684277	14245	TRAVERS DR	272.64	27.26	53.98	353.88
4512	482491008	8	684277	14147	TRAVERS DR	372.88	37.29	73.83	484.00
4513	482492005	8	684277	14188	TRAVERS DR	493.99	49.40	97.81	641.20
4514	482492013	5	684277	24121	DIMITRA DR	183.99	18.40	36.43	238.82
4515	482492014	6	684277	24127	DIMITRA DR	378.50	37.85	74.94	491.28
4516	482492032	2	684277	14188	VINCENTE DR	267.88	26.79	53.04	347.70
4517	482492036	6	684277	14244	VINCENTE DR	87.19	8.72	17.26	113.16
4518	482492049	8	684277	14218	TOBY CT	299.83	29.98	59.37	389.18
4519	482492050	8	684277	14232	TOBY CT	372.88	37.29	73.83	484.00
4520	482500002	9	684277	24480	BRODIAEA AVE	371.40	37.14	73.54	482.08
4521	482500009	6	684277	24443	JONNA LN	120.00	12.00	23.76	155.76
4522	482500010	6	684277	24465	JONNA LN	452.48	45.25	89.59	587.32
4523	482501014	3	684277	14186	STONEHURST DR	225.66	22.57	44.68	292.90
4524	482501021	9	684277	14141	STONEHURST DR	136.21	13.62	26.97	176.80

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
4525	482501026	4	684277	14213	STONEHURST DR	167.19	16.72	33.10	217.00
4526	482511010	0	684277	14744	JOSHUA TREE AVE	378.50	37.85	74.94	491.28
4527	482512006	0	684277	24165	LOVE CT	78.99	7.90	15.64	102.52
4528	482512009	3	684277	24211	LOVE CT	71.43	7.14	14.14	92.70
4529	482512013	6	684277	14725	JOSHUA TREE AVE	146.20	14.62	28.95	189.76
4530	482531002	5	684277	24269	BAY AVE	385.23	38.52	76.28	500.02
4531	482531009	2	684277	24298	MILLSAP DR	76.43	7.64	15.13	99.20
4532	482532004	0	684277	24354	MILLSAP DR	76.43	7.64	15.13	99.20
4533	482533013	1	684277	13870	CALADA DR	385.23	38.52	76.28	500.02
4534	482533020	7	684277	24333	MILLSAP DR	372.88	37.29	73.83	484.00
4535	482533022	9	684277	24371	MILLSAP DR	372.88	37.29	73.83	484.00
4536	482533024	1	684277	24262	DABNEY DR	221.44	22.14	43.84	287.42
4537	482534008	0	684277	13855	CALADA DR	372.88	37.29	73.83	484.00
4538	482534010	1	684277	13835	CALADA DR	241.20	24.12	47.76	313.08
4539	482536006	4	684277	24326	VIA VARGAS DR	33.16	3.32	6.57	43.04
4540	482536009	7	684277	24290	VIA VARGAS DR	486.54	48.65	96.33	631.52
4541	482536010	7	684277	24291	BAIRDALE DR	177.20	17.72	35.09	230.00
4542	482536013	0	684277	24335	BAIRDALE DR	372.88	37.29	73.83	484.00
4543	482536018	5	684277	24360	BAIRDALE DR	71.43	7.14	14.14	92.70
4544	482551006	1	684277	13431	HAREWOOD DR	336.98	33.70	66.72	437.40
4545	482551013	7	684277	24015	AMBERLEY DR	371.41	37.14	73.54	482.08
4546	482551014	8	684277	24029	AMBERLEY DR	372.88	37.29	73.83	484.00
4547	482551017	1	684277	24069	AMBERLEY DR	372.88	37.29	73.83	484.00
4548	482552006	4	684277	24030	AMBERLEY DR	220.07	22.01	43.57	285.64
4549	482552008	6	684277	24041	ROTHBURY DR	372.88	37.29	73.83	484.00
4550	482552011	8	684277	24091	ROTHBURY DR	293.70	29.37	58.15	381.22
4551	482552015	2	684277	24122	AMBERLEY DR	372.88	37.29	73.83	484.00
4552	482552029	5	684277	24193	ROTHBURY DR	378.50	37.85	74.94	491.28
4553	482553002	3	684277	24094	ROTHBURY DR	71.43	7.14	14.14	92.70

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Customers with Invoice Item Dates in 2018**

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
4554	482553017	7	684277	24136	ROTHBURY DR	372.88	37.29	73.83	484.00
4555	482553023	2	684277	24180	ROTHBURY DR	176.43	17.64	34.93	229.00
4556	482553028	7	684277	24212	ROTHBURY DR	299.83	29.98	59.37	389.18
4557	482553034	2	684277	24145	FAWN ST	372.88	37.29	73.83	484.00
4558	482553037	5	684277	24165	FAWN ST	378.50	37.85	74.94	491.28
4559	482553040	7	684277	24189	FAWN ST	378.50	37.85	74.94	491.28
4560	482553041	8	684277	24195	FAWN ST	485.05	48.51	96.04	629.60
4561	482553042	9	684277	24199	FAWN ST	372.88	37.29	73.83	484.00
4562	482553044	1	684277	24213	FAWN ST	372.88	37.29	73.83	484.00
4563	482553045	2	684277	24221	FAWN ST	372.88	37.29	73.83	484.00
4564	482554006	0	684277	24135	AMBERLEY DR	372.88	37.29	73.83	484.00
4565	482554007	1	684277	24145	AMBERLEY DR	155.12	15.51	30.71	201.34
4566	482554009	3	684277	24157	AMBERLEY DR	378.50	37.85	74.94	491.28
4567	482554012	5	684277	24179	AMBERLEY DR	356.64	35.66	70.61	462.90
4568	482554019	2	684277	13480	CAVANDISH LN	353.34	35.33	69.96	458.62
4569	482554021	3	684277	13460	CAVANDISH LN	372.88	37.29	73.83	484.00
4570	482554023	5	684277	13440	CAVANDISH LN	372.88	37.29	73.83	484.00
4571	482561006	2	684277	24225	LINNEA CT	537.44	53.74	106.41	697.58
4572	482561019	4	684277	24215	CRAIG DR	222.80	22.28	44.11	289.18
4573	482561022	6	684277	24244	CRAIG DR	378.50	37.85	74.94	491.28
4574	482561023	7	684277	24230	CRAIG DR	485.84	48.58	96.20	630.62
4575	482561031	4	684277	24130	CRAIG DR	37.87	3.79	7.50	49.16
4576	482561043	5	684277	14400	SUSANA CT	372.88	37.29	73.83	484.00
4577	482562002	1	684277	14419	ETERNAL DR	372.88	37.29	73.83	484.00
4578	482562003	2	684277	14435	ETERNAL DR	378.50	37.85	74.94	491.28
4579	482562005	4	684277	14459	ETERNAL DR	378.50	37.85	74.94	491.28
4580	482562007	6	684277	14487	ETERNAL DR	49.55	4.96	9.81	64.32
4581	482562010	8	684277	14430	UNITY CT	383.56	38.36	75.95	497.86
4582	482562012	0	684277	14458	UNITY CT	378.50	37.85	74.94	491.28

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
4583	482571006	3	684277	24275	DRACAEA AVE	246.17	24.62	48.74	319.52
4584	482571013	9	684277	24207	DRACAEA AVE	372.88	37.29	73.83	484.00
4585	482571016	2	684277	24183	DRACAEA AVE	372.88	37.29	73.83	484.00
4586	482571023	8	684277	24176	RADWELL DR	372.88	37.29	73.83	484.00
4587	482571026	1	684277	24198	RADWELL DR	295.93	29.59	58.59	384.10
4588	482571039	3	684277	13290	CAVANDISH LN	91.70	9.17	18.16	119.02
4589	482571042	5	684277	13308	CAVANDISH LN	350.48	35.05	69.40	454.92
4590	482571045	8	684277	13326	CAVANDISH LN	21.68	2.17	4.29	28.14
4591	482572003	3	684277	13369	CAVANDISH LN	258.32	25.83	51.15	335.30
4592	482572010	9	684277	24261	RADWELL DR	378.50	37.85	74.94	491.28
4593	482572021	9	684277	24177	RADWELL DR	71.43	7.14	14.14	92.70
4594	482572026	4	684277	13328	HELMSDALE ST	228.50	22.85	45.24	296.58
4595	482572029	7	684277	13350	HELMSDALE ST	378.50	37.85	74.94	491.28
4596	482572032	9	684277	13365	HOLBECK CT	372.88	37.29	73.83	484.00
4597	482582005	6	684277	24824	CHIPPENDALE ST	372.88	37.29	73.83	484.00
4598	482582013	3	684277	24813	CHIPPENDALE ST	361.80	36.18	71.64	469.62
4599	482582015	5	684277	24785	CHIPPENDALE ST	372.88	37.29	73.83	484.00
4600	482582021	0	684277	24816	CAPE COD ST	372.88	37.29	73.83	484.00
4601	482582024	3	684277	24866	CAPE COD ST	378.50	37.85	74.94	491.28
4602	482582029	8	684277	24805	CAPE COD ST	247.03	24.70	48.91	320.64
4603	482582030	8	684277	24791	CAPE COD ST	378.50	37.85	74.94	491.28
4604	482582032	0	684277	24769	CAPE COD ST	50.00	5.00	9.90	64.90
4605	482591013	1	684277	24794	LORNA DR	320.70	32.07	63.50	416.26
4606	482591014	2	684277	24793	OTIS DR	71.43	7.14	14.14	92.70
4607	482592017	8	684277	24883	LORNA DR	349.62	34.96	69.22	453.80
4608	482592019	0	684277	24911	LORNA DR	372.88	37.29	73.83	484.00
4609	482593004	9	684277	24850	NOGAL ST	244.84	24.48	48.48	317.80
4610	482593007	2	684277	24832	NOGAL ST	280.83	28.08	55.60	364.50
4611	482593011	5	684277	24795	LORNA DR	372.88	37.29	73.83	484.00

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
4612	482593015	9	684277	24845	LORNA DR	372.88	37.29	73.83	484.00
4613	482594005	3	684277	24833	NOGAL ST	348.48	34.85	69.00	452.32
4614	482600004	0	684277	24085	AYLESBURY DR	372.88	37.29	73.83	484.00
4615	482600007	3	684277	24111	AYLESBURY DR	158.99	15.90	31.48	206.36
4616	482600013	8	684277	24155	AYLESBURY DR	364.48	36.45	72.17	473.10
4617	482600023	7	684277	24088	FAWN ST	372.88	37.29	73.83	484.00
4618	482600030	3	684277	13331	HAREWOOD DR	381.58	38.16	75.55	495.28
4619	482600030	3	684277	13331	HAREWOOD DR	381.58	38.16	75.55	495.28
4620	482600033	6	684277	24036	AYLESBURY DR	378.50	37.85	74.94	491.28
4621	482600040	2	684277	13313	LUTON CT	297.13	29.71	58.83	385.66
4622	482600042	4	684277	13285	LUTON CT	121.64	12.16	24.08	157.88
4623	482600050	1	684277	13291	HELMSDALE ST	25.40	2.54	5.03	32.96
4624	482600053	4	684277	13261	HELMSDALE ST	225.10	22.51	44.57	292.18
4625	482600055	6	684277	24141	DRACAEA AVE	385.23	38.52	76.28	500.02
4626	482600057	8	684277	24115	DRACAEA AVE	278.50	27.85	55.14	361.48
4627	482611004	4	684277	24793	BRODIAEA AVE	88.22	8.82	17.47	114.50
4628	482611007	7	684277	24827	BRODIAEA AVE	247.27	24.73	48.96	320.96
4629	482612002	5	684277	24811	HEIL DR	362.40	36.24	71.76	470.40
4630	482612003	6	684277	24823	HEIL DR	378.50	37.85	74.94	491.28
4631	482612004	7	684277	24833	HEIL DR	140.22	14.02	27.76	182.00
4632	482612005	8	684277	24845	HEIL DR	226.68	22.67	44.88	294.22
4633	482612017	9	684277	24946	OTIS DR	493.99	49.40	97.81	641.20
4634	482612019	1	684277	24959	HEIL DR	372.88	37.29	73.83	484.00
4635	482612022	3	684277	24911	HEIL DR	378.28	37.83	74.90	491.00
4636	482612023	4	684277	24889	HEIL DR	372.88	37.29	73.83	484.00
4637	482613001	7	684277	24811	OTIS DR	385.23	38.52	76.28	500.02
4638	482613008	4	684277	24915	OTIS DR	372.88	37.29	73.83	484.00
4639	482614001	0	684277	24999	BRODIAEA AVE	378.50	37.85	74.94	491.28
4640	482614012	0	684277	24916	HEIL DR	473.75	47.38	93.80	614.92

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Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
4641	482614014	2	684277	24944	HEIL DR	532.34	53.23	105.40	690.96
4642	482622030	1	684277	24695	MARS CT	372.88	37.29	73.83	484.00
4643	482623023	8	684277	24611	CACTUS AVE	155.12	15.51	30.71	201.34
4644	482623029	4	684277	14573	VICTOR DR	372.88	37.29	73.83	484.00
4645	482631012	3	684277	13907	PHEASANT KNOLL LN	359.98	36.00	71.28	467.26
4646	482631016	7	684277	13959	PHEASANT KNOLL LN	155.69	15.57	30.83	202.08
4647	482631031	0	684277	13986	COVEY QUAIL LN	372.88	37.29	73.83	484.00
4648	482631032	1	684277	13972	COVEY QUAIL LN	409.58	40.96	81.10	531.64
4649	482632002	7	684277	13924	COVEY QUAIL LN	76.67	7.67	15.18	99.52
4650	482632026	9	684277	24616	WILLET LN	341.20	34.12	67.56	442.88
4651	482632032	4	684277	24676	WILLET LN	81.67	8.17	16.17	106.00
4652	482633016	3	684277	13914	PHEASANT KNOLL LN	242.03	24.20	47.92	314.14
4653	482633025	1	684277	13917	ROBIN NEST CT	370.19	37.02	73.30	480.50
4654	482633039	4	684277	13906	ROBIN NEST CT	347.05	34.71	68.72	450.48
4655	482633041	5	684277	13932	ROBIN NEST CT	155.12	15.51	30.71	201.34
4656	482633042	6	684277	13946	ROBIN NEST CT	378.50	37.85	74.94	491.28
4657	482633044	8	684277	24702	CAROLYN AVE	372.88	37.29	73.83	484.00
4658	482641012	4	684277	13575	VELLANTO WAY	348.40	34.84	68.98	452.22
4659	482641015	7	684277	13593	VELLANTO WAY	209.95	21.00	41.57	272.52
4660	482641016	8	684277	13599	VELLANTO WAY	372.88	37.29	73.83	484.00
4661	482641017	9	684277	13607	VELLANTO WAY	378.50	37.85	74.94	491.28
4662	482641018	0	684277	13613	VELLANTO WAY	75.12	7.51	14.87	97.50
4663	482642004	0	684277	24675	MANTEE PL	378.50	37.85	74.94	491.28
4664	482642008	4	684277	24619	MANTEE PL	220.26	22.03	43.61	285.90
4665	482642009	5	684277	24607	MANTEE PL	378.50	37.85	74.94	491.28
4666	482642024	8	684277	24706	MANTEE PL	53.65	5.37	10.62	69.64
4667	482642028	2	684277	13526	VELLANTO WAY	246.29	24.63	48.77	319.68
4668	482642035	8	684277	13568	VELLANTO WAY	152.88	15.29	30.27	198.44
4669	482643008	7	684277	13524	SEARSON DR	352.50	35.25	69.80	457.54

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

Column Totals	2,003,753.76	200,377.97	396,739.88	2,600,843.48
Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
4670	482643009	8	684277	13512	SEARSON DR	361.38	36.14	71.55	469.06
4671	482651008	2	684277	13725	VELLANTO WAY	318.47	31.85	63.06	413.38
4672	482652011	7	684277	24668	BAY AVE	356.20	35.62	70.53	462.34
4673	482652022	7	684277	24617	ORMISTA DR	465.15	46.52	92.10	603.76
4674	482652026	1	684277	24561	ORMISTA DR	367.21	36.72	72.71	476.64
4675	482652028	3	684277	24535	ORMISTA DR	177.74	17.77	35.19	230.70
4676	482653003	3	684277	24562	ORMISTA DR	372.88	37.29	73.83	484.00
4677	482653005	5	684277	24590	ORMISTA DR	372.88	37.29	73.83	484.00
4678	482653006	6	684277	24604	ORMISTA DR	372.88	37.29	73.83	484.00
4679	482653012	1	684277	24688	ORMISTA DR	282.28	28.23	55.89	366.40
4680	482653018	7	684277	24673	QUALTON CT	378.50	37.85	74.94	491.28
4681	482653022	0	684277	24617	QUALTON CT	378.50	37.85	74.94	491.28
4682	482653023	1	684277	24605	QUALTON CT	150.84	15.08	29.87	195.78
4683	482653025	3	684277	24575	QUALTON CT	372.88	37.29	73.83	484.00
4684	482653026	4	684277	24565	QUALTON CT	415.62	41.56	82.29	539.46
4685	482653030	7	684277	24590	QUALTON CT	105.00	10.50	20.79	136.28
4686	482653031	8	684277	24604	QUALTON CT	378.50	37.85	74.94	491.28
4687	482653035	2	684277	24660	QUALTON CT	47.47	4.75	9.40	61.62
4688	482653039	6	684277	24716	QUALTON CT	385.23	38.52	76.28	500.02
4689	482654010	2	684277	13632	SEARSON DR	378.50	37.85	74.94	491.28
4690	482661003	8	684277	14778	BRIANA ST	338.50	33.85	67.02	439.36
4691	482661008	3	684277	14822	BRIANA ST	910.26	91.03	180.23	1181.52
4692	482661014	8	684277	14876	BRIANA ST	270.50	27.05	53.56	351.10
4693	482662001	9	684277	24099	DELPHINIUM AVE	151.09	15.11	29.92	196.12
4694	482662007	5	684277	24153	DELPHINIUM AVE	365.17	36.52	72.30	473.98
4695	482662010	7	684277	14915	KENNEBEC CT	482.86	48.29	95.61	626.76
4696	482662013	0	684277	14885	KENNEBEC CT	120.07	12.01	23.77	155.84
4697	482662014	1	684277	14875	KENNEBEC CT	420.78	42.08	83.31	546.16
4698	482662029	5	684277	14820	KENNEBEC CT	378.50	37.85	74.94	491.28

**MORENO VALLEY Tax Roll Listing 2019
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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
4699	482662032	7	684277	14850	KENNEBEC CT	372.88	37.29	73.83	484.00
4700	482662034	9	684277	14870	KENNEBEC CT	71.43	7.14	14.14	92.70
4701	482662042	6	684277	14785	BRIANA ST	551.96	55.20	109.29	716.44
4702	482663001	2	684277	24235	KISMET CIR	372.88	37.29	73.83	484.00
4703	482663008	9	684277	24224	DRESSIN DR	249.53	24.95	49.41	323.88
4704	482663009	0	684277	24230	DRESSIN DR	372.88	37.29	73.83	484.00
4705	482671007	3	684277	24320	SUN VALLEY RD	372.88	37.29	73.83	484.00
4706	482671009	5	684277	24340	SUN VALLEY RD	372.88	37.29	73.83	484.00
4707	482672001	0	684277	14900	PERHAM DR	50.00	5.00	9.90	64.90
4708	482672013	1	684277	24309	SUN VALLEY RD	465.15	46.52	92.10	603.76
4709	482673001	3	684277	24205	SUN VALLEY RD	372.88	37.29	73.83	484.00
4710	482673003	5	684277	24187	SUN VALLEY RD	50.00	5.00	9.90	64.90
4711	482673008	0	684277	24143	SUN VALLEY RD	106.92	10.69	21.17	138.78
4712	482674003	8	684277	24168	SUN VALLEY RD	372.88	37.29	73.83	484.00
4713	482674013	7	684277	24256	SUN VALLEY RD	175.45	17.55	34.74	227.74
4714	482674019	3	684277	14925	BRIANA ST	311.11	31.11	61.60	403.82
4715	482674020	3	684277	14915	BRIANA ST	372.88	37.29	73.83	484.00
4716	482674027	0	684277	24209	DRESSIN DR	246.17	24.62	48.74	319.52
4717	482674028	1	684277	24197	DRESSIN DR	378.50	37.85	74.94	491.28
4718	482681001	8	684277	14904	SPINNAKER LN	250.05	25.01	49.51	324.56
4719	482681006	3	684277	14852	SPINNAKER LN	372.88	37.29	73.83	484.00
4720	482681010	6	684277	14816	SPINNAKER LN	372.88	37.29	73.83	484.00
4721	482681012	8	684277	14800	SPINNAKER LN	378.50	37.85	74.94	491.28
4722	482682009	9	684277	14781	SPINNAKER LN	378.50	37.85	74.94	491.28
4723	482682010	9	684277	14789	SPINNAKER LN	378.50	37.85	74.94	491.28
4724	482682011	0	684277	14797	SPINNAKER LN	268.00	26.80	53.06	347.86
4725	482682017	6	684277	14845	SPINNAKER LN	378.50	37.85	74.94	491.28
4726	482682019	8	684277	14875	SPINNAKER LN	378.50	37.85	74.94	491.28
4727	482682025	3	684277	14929	SPINNAKER LN	378.50	37.85	74.94	491.28

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
4728	482682032	9	684277	14910	MEADOW BREEZE DR	71.43	7.14	14.14	92.70
4729	482682043	9	684277	14820	LAVENDER LN	76.67	7.67	15.18	99.52
4730	482682053	8	684277	14799	LAVENDER LN	379.64	37.96	75.17	492.76
4731	482682056	1	684277	14829	LAVENDER LN	351.46	35.15	69.59	456.20
4732	482682060	4	684277	14869	LAVENDER LN	83.35	8.34	16.50	108.18
4733	482682061	5	684277	14879	LAVENDER LN	372.88	37.29	73.83	484.00
4734	482682072	5	684277	24025	SUN VALLEY RD	114.51	11.45	22.67	148.62
4735	482682080	2	684277	24115	SUN VALLEY RD	149.83	14.98	29.67	194.48
4736	482683003	6	684277	14929	MEADOW BREEZE DR	407.64	40.76	80.71	529.10
4737	482683003	6	684277	14929	MEADOW BREEZE DR	407.64	40.76	80.71	529.10
4738	482683004	7	684277	14919	MEADOW BREEZE DR	485.05	48.51	96.04	629.60
4739	482683009	2	684277	14855	MEADOW BREEZE DR	589.24	58.92	116.67	764.82
4740	482683011	3	684277	14870	LAVENDER LN	372.88	37.29	73.83	484.00
4741	482683014	6	684277	14900	LAVENDER LN	378.10	37.81	74.86	490.76
4742	482683016	8	684277	14920	LAVENDER LN	486.54	48.65	96.33	631.52
4743	482690001	6	684277	14605	UNITY CT	372.88	37.29	73.83	484.00
4744	482690003	8	684277	14625	UNITY CT	372.88	37.29	73.83	484.00
4745	482690012	6	684277	14583	CAGNEY CT	372.88	37.29	73.83	484.00
4746	482690016	0	684277	14623	CAGNEY CT	372.88	37.29	73.83	484.00
4747	482690022	5	684277	14665	CAGNEY CT	385.23	38.52	76.28	500.02
4748	482690025	8	684277	14691	UNITY CT	369.88	36.99	73.24	480.10
4749	482690026	9	684277	14703	UNITY CT	223.98	22.40	44.35	290.72
4750	482690029	2	684277	14682	HAMBY CT	378.50	37.85	74.94	491.28
4751	482690031	3	684277	14693	HAMBY CT	352.46	35.25	69.79	457.50
4752	482690033	5	684277	14709	UNITY CT	31.74	3.17	6.28	41.18
4753	484030009	8	684277	25791	ALESSANDRO BLVD	372.88	37.29	73.83	484.00
4754	484041001	4	684277	14243	AGAVE ST	582.58	58.26	115.35	756.18
4755	484041002	5	684277	14229	AGAVE ST	406.32	40.63	80.45	527.40
4756	484041002	5	684277	14229	AGAVE ST	406.32	40.63	80.45	527.40

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
4757	484041003	6	684277	14213	AGAVE ST	71.43	7.14	14.14	92.70
4758	484041007	0	684277	14161	AGAVE ST	486.54	48.65	96.33	631.52
4759	484041010	2	684277	14130	AGAVE ST	345.22	34.52	68.35	448.08
4760	484041011	3	684277	14140	AGAVE ST	486.54	48.65	96.33	631.52
4761	484041023	4	684277	14199	APPLE BLOSSOM LN	493.99	49.40	97.81	641.20
4762	484042002	8	684277	14134	APPLE BLOSSOM LN	50.03	5.00	9.91	64.94
4763	484042007	3	684277	14198	APPLEBLOSSOM LN	315.19	31.52	62.41	409.12
4764	484042019	4	684277	14141	WOODPARK DR	76.43	7.64	15.13	99.20
4765	484042021	5	684277	14152	WOODPARK DR	157.14	15.71	31.11	203.96
4766	484042025	9	684277	14200	WOODPARK DR	503.03	50.30	99.60	652.92
4767	484042029	3	684277	25304	BRODIAEA AVE	95.00	9.50	18.81	123.30
4768	484042031	4	684277	25328	BRODIAEA AVE	372.88	37.29	73.83	484.00
4769	484042040	2	684277	14136	WILLOUGHBY RD	239.77	23.98	47.48	311.22
4770	484042043	5	684277	14172	WILLOUGHBY RD	238.16	23.82	47.16	309.14
4771	484042044	6	684277	14184	WILLOUGHBY RD	313.99	31.40	62.17	407.56
4772	484042045	7	684277	14196	WILLOUGHBY RD	378.50	37.85	74.94	491.28
4773	484051005	9	684277	14197	HIGH NOON CT	614.52	61.45	121.67	797.64
4774	484051016	9	684277	14208	HIGH NOON CT	473.33	47.33	93.72	614.38
4775	484051020	2	684277	14241	RIO BRAVO RD	642.92	64.29	127.30	834.50
4776	484051023	5	684277	14203	RIO BRAVO RD	385.23	38.52	76.28	500.02
4777	484052003	0	684277	14216	RIO BRAVO RD	378.50	37.85	74.94	491.28
4778	484052008	5	684277	14152	RIO BRAVO RD	76.43	7.64	15.13	99.20
4779	484060004	6	684277	25720	BRODIAEA AVE	339.85	33.99	67.29	441.12
4780	484060008	0	684277	25676	BRODIAEA AVE	71.43	7.14	14.14	92.70
4781	484060019	0	684277	14159	CYPRESS SANDS LN	71.43	7.14	14.14	92.70
4782	484060021	1	684277	14139	CYPRESS SANDS LN	327.23	32.72	64.79	424.74
4783	484060026	6	684277	14160	CYPRESS SANDS LN	71.43	7.14	14.14	92.70
4784	484060030	9	684277	14196	CYPRESS SANDS LN	341.98	34.20	67.71	443.88
4785	484060064	0	684277	14141	MARTINIQUE DR	387.90	38.79	76.80	503.48

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
4786	484060072	7	684277	14188	MARTINIQUE DR	372.88	37.29	73.83	484.00
4787	484071002	8	684277	25780	BRODIAEA AVE	376.83	37.68	74.61	489.12
4788	484071009	5	684277	14179	FLAMINGO BAY LN	377.40	37.74	74.73	489.86
4789	484071012	7	684277	14151	FLAMINGO BAY LN	361.70	36.17	71.62	469.48
4790	484072006	5	684277	25938	BRODIAEA AVE	372.88	37.29	73.83	484.00
4791	484072009	8	684277	25908	BRODIAEA AVE	372.88	37.29	73.83	484.00
4792	484072019	7	684277	14130	FLAMINGO BAY LN	378.50	37.85	74.94	491.28
4793	484072020	7	684277	14140	FLAMINGO BAY LN	486.54	48.65	96.33	631.52
4794	484072028	5	684277	14212	FLAMINGO BAY LN	372.88	37.29	73.83	484.00
4795	484072031	7	684277	14209	SAN CRISTOBAL BAY DR	357.31	35.73	70.75	463.78
4796	484072035	1	684277	14175	SAN CRISTOBAL BAY DR	176.68	17.67	34.98	229.32
4797	484072040	5	684277	14131	SAN CRISTOBAL BAY DR	362.38	36.24	71.75	470.36
4798	484072047	2	684277	14184	SAN CRISTOBAL BAY DR	372.88	37.29	73.83	484.00
4799	484072048	3	684277	14192	SAN CRISTOBAL BAY DR	372.88	37.29	73.83	484.00
4800	484072050	4	684277	14210	SAN CRISTOBAL BAY DR	378.50	37.85	74.94	491.28
4801	484072051	5	684277	14222	SAN CRISTOBAL BAY DR	76.67	7.67	15.18	99.52
4802	484072056	0	684277	14183	SAINT TROPEZ CT	642.92	64.29	127.30	834.50
4803	484072065	8	684277	14148	SAINT TROPEZ CT	321.89	32.19	63.73	417.80
4804	484072077	9	684277	14191	MONTEGO BAY DR	503.03	50.30	99.60	652.92
4805	484072086	7	684277	14140	MONTEGO BAY DR	76.43	7.64	15.13	99.20
4806	484072087	8	684277	14148	MONTEGO BAY DR	129.58	12.96	25.66	168.20
4807	484072087	8	684277	14148	MONTEGO BAY DR	129.58	12.96	25.66	168.20
4808	484072093	3	684277	14200	MONTEGO BAY DR	22.46	2.25	4.45	29.16
4809	484072097	7	684277	14209	JAMAICA SANDS LN	155.12	15.51	30.71	201.34
4810	484072103	9	684277	14155	JAMAICA SANDS LN	493.99	49.40	97.81	641.20
4811	484081003	0	684277	14338	JANIE CT	54.37	5.44	10.77	70.58
4812	484081006	3	684277	14296	JANIE CT	372.88	37.29	73.83	484.00
4813	484081010	6	684277	14339	JANIE CT	347.50	34.75	68.81	451.06
4814	484081015	1	684277	14358	HOUSTON DR	378.50	37.85	74.94	491.28

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Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
4815	484081016	2	684277	14344	HOUSTON DR	372.88	37.29	73.83	484.00
4816	484081017	3	684277	14328	HOUSTON DR	357.79	35.78	70.84	464.40
4817	484081024	9	684277	25963	BRODIAEA AVE	365.41	36.54	72.35	474.30
4818	484081026	1	684277	25991	BRODIAEA AVE	378.50	37.85	74.94	491.28
4819	484082009	9	684277	25792	FLINT DR	121.61	12.16	24.08	157.84
4820	484082018	7	684277	25908	FLINT DR	372.88	37.29	73.83	484.00
4821	484082026	4	684277	25817	BRODIAEA AVE	477.30	47.73	94.51	619.54
4822	484082027	5	684277	25805	BRODIAEA AVE	493.99	49.40	97.81	641.20
4823	484083001	4	684277	25906	FRESCA DR	356.04	35.60	70.50	462.14
4824	484083004	7	684277	25907	FLINT DR	372.88	37.29	73.83	484.00
4825	484083005	8	684277	25893	FLINT DR	372.88	37.29	73.83	484.00
4826	484091003	1	684277	25545	BRODIAEA AVE	378.50	37.85	74.94	491.28
4827	484091013	0	684277	14298	SANDCASTLE CT	493.99	49.40	97.81	641.20
4828	484091021	7	684277	14331	SANDCASTLE CT	356.58	35.66	70.60	462.84
4829	484092003	4	684277	14354	WINDJAMMER DR	47.51	4.75	9.41	61.66
4830	484092018	8	684277	25637	BRODIAEA AVE	378.50	37.85	74.94	491.28
4831	484092023	2	684277	25695	BRODIAEA AVE	421.95	42.20	83.55	547.70
4832	484092026	5	684277	14259	WOODLARK LN	371.41	37.14	73.54	482.08
4833	484094004	1	684277	14334	REDWING DR	352.84	35.28	69.86	457.98
4834	484101002	0	684277	25369	BRODIAEA AVE	378.50	37.85	74.94	491.28
4835	484101030	5	684277	25393	BRODIAEA AVE	357.79	35.78	70.84	464.40
4836	484102003	4	684277	25345	RAMBLEWOOD CT	748.13	74.81	148.13	971.06
4837	484102011	1	684277	25262	VALLEYWOOD CT	74.82	7.48	14.81	97.10
4838	484102012	2	684277	25274	VALLEYWOOD CT	378.50	37.85	74.94	491.28
4839	484102020	9	684277	25370	VALLEYWOOD CT	378.50	37.85	74.94	491.28
4840	484103001	5	684277	25369	VALLEYWOOD CT	355.09	35.51	70.31	460.90
4841	484103009	3	684277	25273	VALLEYWOOD CT	247.79	24.78	49.06	321.62
4842	484104008	5	684277	14273	WOODPARK DR	372.88	37.29	73.83	484.00
4843	484104009	6	684277	14263	WOODPARK DR	76.43	7.64	15.13	99.20

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4844	484104010	6	684277	14253	WOODPARK DR	94.93	9.49	18.80	123.22
4845	484105006	6	684277	14307	RIO BRAVO RD	378.50	37.85	74.94	491.28
4846	484105007	7	684277	14319	RIO BRAVO RD	366.69	36.67	72.60	475.96
4847	484106006	9	684277	14314	RIO BRAVO RD	119.17	11.92	23.60	154.68
4848	484110010	0	684277	25015	BRODIAEA AVE	290.38	29.04	57.50	376.92
4849	484110164	4	684277	25063	OCOTILLO AVE	362.80	36.28	71.83	470.90
4850	484110229	9	684277	25040	YUCCA DR	447.27	44.73	88.56	580.56
4851	484112002	4	684277	14322	PALMEA DR	378.50	37.85	74.94	491.28
4852	484112008	0	684277	14265	AGAVE ST	324.33	32.43	64.22	420.98
4853	484112015	6	684277	14335	AGAVE ST	85.12	8.51	16.85	110.48
4854	484112018	9	684277	25200	YUCCA DR	372.88	37.29	73.83	484.00
4855	484113001	6	684277	25245	BRODIAEA AVE	76.44	7.64	15.13	99.20
4856	484113009	4	684277	14320	AGAVE ST	372.88	37.29	73.83	484.00
4857	484113016	0	684277	14370	AGAVE ST	372.88	37.29	73.83	484.00
4858	484121007	7	684277	14437	CHOLLA DR	421.95	42.20	83.55	547.70
4859	484121011	0	684277	14397	CHOLLA DR	378.50	37.85	74.94	491.28
4860	484121018	7	684277	14327	CHOLLA DR	378.50	37.85	74.94	491.28
4861	484121028	6	684277	14217	CHOLLA DR	493.99	49.40	97.81	641.20
4862	484121031	8	684277	25203	JOSHUA AVE	372.88	37.29	73.83	484.00
4863	484121042	8	684277	25180	JOSHUA AVE	138.16	13.82	27.36	179.34
4864	484122002	5	684277	14216	CHOLLA DR	321.68	32.17	63.69	417.54
4865	484122004	7	684277	14236	CHOLLA DR	159.14	15.91	31.51	206.56
4866	484122005	8	684277	14246	CHOLLA DR	71.43	7.14	14.14	92.70
4867	484122009	2	684277	14286	CHOLLA DR	252.85	25.29	50.07	328.20
4868	484122019	1	684277	14446	CHOLLA DR	378.50	37.85	74.94	491.28
4869	484122021	2	684277	14466	CHOLLA DR	378.50	37.85	74.94	491.28
4870	484132003	7	684277	25345	WOODCREEK CT	485.13	48.51	96.06	629.70
4871	484132012	5	684277	25274	OAKSTONE CT	529.28	52.93	104.80	687.00
4872	484132018	1	684277	25346	OAKSTONE CT	378.50	37.85	74.94	491.28

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

Column Totals	2,003,753.76	200,377.97	396,739.88	2,600,843.48
Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
4873	484132019	2	684277	25358	OAKSTONE CT	321.68	32.17	63.69	417.54
4874	484135004	7	684277	14398	FARMWOOD DR	529.28	52.93	104.80	687.00
4875	484135011	3	684277	14421	RIO BRAVO RD	477.72	47.77	94.59	620.08
4876	484136004	0	684277	14410	RIO BRAVO RD	27.78	2.78	5.50	36.06
4877	484141015	6	684277	25543	CLIFTON CT	378.50	37.85	74.94	491.28
4878	484141020	0	684277	14379	MURIEL DR	376.08	37.61	74.46	488.14
4879	484142010	4	684277	25604	CLIFTON CT	155.12	15.51	30.71	201.34
4880	484142017	1	684277	25579	JONESTOWN DR	378.50	37.85	74.94	491.28
4881	484142023	6	684277	25651	JONESTOWN DR	372.88	37.29	73.83	484.00
4882	484143004	2	684277	25556	JONESTOWN DR	71.43	7.14	14.14	92.70
4883	484143006	4	684277	25580	JONESTOWN DR	357.79	35.78	70.84	464.40
4884	484143009	7	684277	25616	JONESTOWN DR	103.27	10.33	20.45	134.04
4885	484144002	3	684277	25676	JONESTOWN DR	609.73	60.97	120.73	791.42
4886	484145009	3	684277	14478	REDWING DR	385.23	38.52	76.28	500.02
4887	484151001	4	684277	14376	STUARD DR	379.25	37.93	75.09	492.26
4888	484151014	6	684277	14455	JANIE CT	378.50	37.85	74.94	491.28
4889	484151023	4	684277	14499	SYLVESTER DR	52.88	5.29	10.47	68.64
4890	484152003	9	684277	14469	CHANNY DR	71.43	7.14	14.14	92.70
4891	484153004	3	684277	14432	CHANNY DR	163.99	16.40	32.47	212.86
4892	484154002	4	684277	25999	FRESCA DR	194.47	19.45	38.51	252.42
4893	484154003	5	684277	14402	JANIE CT	372.88	37.29	73.83	484.00
4894	484154012	3	684277	25955	JONESBOROUGH CT	378.50	37.85	74.94	491.28
4895	484162004	1	684277	14559	SYLVESTER DR	378.50	37.85	74.94	491.28
4896	484162015	1	684277	25835	THUNDERCLOUD CT	370.75	37.08	73.41	481.24
4897	484162030	4	684277	14524	CHANNY DR	321.68	32.17	63.69	417.54
4898	484163006	6	684277	25879	WHITE WOOD CIR	378.50	37.85	74.94	491.28
4899	484163009	9	684277	25909	WHITE WOOD CIR	314.57	31.46	62.29	408.32
4900	484163013	2	684277	25941	WHITE WOOD CIR	371.41	37.14	73.54	482.08
4901	484163015	4	684277	25961	WHITE WOOD CIR	385.23	38.52	76.28	500.02

**MORENO VALLEY Tax Roll Listing 2019
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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
4902	484164002	5	684277	14604	BLACKBUSH RD	378.50	37.85	74.94	491.28
4903	484164004	7	684277	14578	BLACKBUSH RD	372.88	37.29	73.83	484.00
4904	484164005	8	684277	14566	BLACKBUSH RD	94.66	9.47	18.74	122.86
4905	484164011	3	684277	14525	BLACKBUSH RD	378.50	37.85	74.94	491.28
4906	484164021	2	684277	14536	SYLVESTER DR	71.43	7.14	14.14	92.70
4907	484164022	3	684277	14524	SYLVESTER DR	71.43	7.14	14.14	92.70
4908	484171007	2	684277	25594	ARGONAUT DR	378.50	37.85	74.94	491.28
4909	484171008	3	684277	25606	ARGONAUT DR	421.95	42.20	83.55	547.70
4910	484171009	4	684277	25618	ARGONAUT DR	243.02	24.30	48.12	315.44
4911	484171011	5	684277	25642	ARGONAUT DR	378.50	37.85	74.94	491.28
4912	484171016	0	684277	14567	ANTILLES DR	579.10	57.91	114.66	751.66
4913	484171017	1	684277	14577	ANTILLES DR	378.50	37.85	74.94	491.28
4914	484172004	2	684277	25617	ARGONAUT DR	71.43	7.14	14.14	92.70
4915	484172008	6	684277	14565	RIO HONDO DR	76.12	7.61	15.07	98.80
4916	484172009	7	684277	14579	RIO HONDO DR	378.50	37.85	74.94	491.28
4917	484172017	4	684277	14572	ARUBA PL	46.15	4.62	9.14	59.90
4918	484172020	6	684277	14595	ARUBA PL	76.43	7.64	15.13	99.20
4919	484172024	0	684277	14586	ANTILLES DR	493.99	49.40	97.81	641.20
4920	484181004	0	684277	25794	DELPHINIUM AVE	372.88	37.29	73.83	484.00
4921	484181005	1	684277	25806	DELPHINIUM AVE	142.16	14.22	28.15	184.52
4922	484181012	7	684277	25875	FIGWOOD WAY	51.91	5.19	10.28	67.38
4923	484181014	9	684277	25847	FIGWOOD WAY	493.99	49.40	97.81	641.20
4924	484181020	4	684277	25763	FIGWOOD WAY	378.50	37.85	74.94	491.28
4925	484181023	7	684277	25780	WHITE WOOD CIR	357.52	35.75	70.79	464.06
4926	484182004	3	684277	14656	CANDOR CT	50.00	5.00	9.90	64.90
4927	484182005	4	684277	14644	CANDOR CT	372.88	37.29	73.83	484.00
4928	484182010	8	684277	25834	FIGWOOD WAY	372.88	37.29	73.83	484.00
4929	484182028	5	684277	14641	ROSEMARY AVE	243.16	24.32	48.15	315.62
4930	484183013	4	684277	14722	BLACKBUSH RD	228.50	22.85	45.24	296.58

**MORENO VALLEY Tax Roll Listing 2019
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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
4931	484191002	9	684277	14623	ANTILLES DR	590.98	59.10	117.01	767.08
4932	484191013	9	684277	14711	ANTILLES DR	442.71	44.27	87.66	574.64
4933	484191016	2	684277	14677	ANTILLES DR	372.88	37.29	73.83	484.00
4934	484192011	0	684277	25678	DELPHINIUM AVE	121.68	12.17	24.09	157.94
4935	484192019	8	684277	14717	RIO HONDO DR	110.14	11.01	21.81	142.96
4936	484193001	4	684277	14644	RIO HONDO DR	434.73	43.47	86.08	564.28
4937	484193009	2	684277	14650	RIO GRANDE DR	372.88	37.29	73.83	484.00
4938	484194005	1	684277	14631	ARUBA PL	144.63	14.46	28.64	187.72
4939	484194009	5	684277	14646	ANTILLES DR	378.50	37.85	74.94	491.28
4940	484201003	0	684277	14533	COCHITI DR	372.88	37.29	73.83	484.00
4941	484201010	6	684277	25391	TAUPE AVE	238.16	23.82	47.16	309.14
4942	484201035	9	684277	25433	CLOVELLY CT	365.48	36.55	72.37	474.40
4943	484201043	6	684277	25462	CLOVELLY CT	372.88	37.29	73.83	484.00
4944	484201044	7	684277	25463	CHIPMAN HILL CT	372.88	37.29	73.83	484.00
4945	484201048	1	684277	25393	CHIPMAN HILL CT	710.56	71.06	140.69	922.30
4946	484201050	2	684277	25408	CHIPMAN HILL CT	368.53	36.85	72.97	478.34
4947	484202005	5	684277	14557	RIO BRAVO RD	334.92	33.49	66.31	434.72
4948	484202008	8	684277	25416	TAUPE AVE	336.98	33.70	66.72	437.40
4949	484202011	0	684277	14548	COCHITI DR	181.20	18.12	35.88	235.20
4950	484202013	2	684277	14522	COCHITI DR	315.58	31.56	62.49	409.62
4951	484203007	0	684277	14714	RIO BRAVO RD	293.05	29.31	58.02	380.38
4952	484203016	8	684277	14546	RIO BRAVO RD	349.82	34.98	69.26	454.06
4953	484203017	9	684277	14534	RIO BRAVO RD	493.99	49.40	97.81	641.20
4954	484211009	7	684277	25257	MINNETONKA CT	365.68	36.57	72.41	474.66
4955	484211012	9	684277	25283	MINNETONKA CT	372.88	37.29	73.83	484.00
4956	484212001	2	684277	25253	BILLIE DR	378.50	37.85	74.94	491.28
4957	484212002	3	684277	25263	BILLIE DR	372.88	37.29	73.83	484.00
4958	484212009	0	684277	25330	OCONTO CT	63.00	6.30	12.47	81.76
4959	484212015	5	684277	25259	OCONTO CT	372.88	37.29	73.83	484.00

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
4960	484212026	5	684277	25270	MENOMINEE CT	358.46	35.85	70.98	465.28
4961	484212035	3	684277	25336	DELPHINIUM AVE	801.28	80.13	158.65	1040.06
4962	484213018	1	684277	14714	PARKWOOD CT	121.34	12.13	24.02	157.48
4963	484221007	6	684277	25142	DESERT WILLOW DR	378.50	37.85	74.94	491.28
4964	484221011	9	684277	25161	DESERT WILLOW DR	485.05	48.51	96.04	629.60
4965	484221017	5	684277	25216	BILLIE DR	358.96	35.90	71.07	465.92
4966	484222013	4	684277	25160	ALEPPO WAY	372.88	37.29	73.83	484.00
4967	484222020	0	684277	25173	ALEPPO WAY	372.88	37.29	73.83	484.00
4968	484222025	5	684277	25202	GORGONIO WAY	493.99	49.40	97.81	641.20
4969	484222028	8	684277	25166	GORGONIO WAY	341.82	34.18	67.68	443.68
4970	484222029	9	684277	25154	GORGONIO WAY	110.12	11.01	21.80	142.92
4971	484222036	5	684277	25183	GORGONIO WAY	378.50	37.85	74.94	491.28
4972	484222039	8	684277	25219	GORGONIO WAY	344.18	34.42	68.15	446.74
4973	484223005	0	684277	14678	AGAVE ST	372.88	37.29	73.83	484.00
4974	484223007	2	684277	14654	AGAVE ST	111.88	11.19	22.15	145.22
4975	484223009	4	684277	14634	AGAVE ST	346.94	34.69	68.69	450.32
4976	484224002	0	684277	14570	AGAVE ST	372.88	37.29	73.83	484.00
4977	484224005	3	684277	14530	AGAVE ST	357.37	35.74	70.76	463.86
4978	484224006	4	684277	14518	AGAVE ST	336.97	33.70	66.72	437.38
4979	484231004	4	684277	14551	CHOLLA DR	80.96	8.10	16.03	105.08
4980	484231010	9	684277	25023	BILLIE DR	239.27	23.93	47.38	310.58
4981	484231014	3	684277	25079	BILLIE DR	378.50	37.85	74.94	491.28
4982	484231020	8	684277	25123	BILLIE DR	372.88	37.29	73.83	484.00
4983	484232008	1	684277	14594	CHOLLA DR	198.96	19.90	39.39	258.24
4984	484233002	8	684277	14582	MAY LN	71.43	7.14	14.14	92.70
4985	484233007	3	684277	14512	MAY LN	76.64	7.66	15.17	99.46
4986	484241009	0	684277	14806	CASA LOMA DR	272.73	27.27	54.00	354.00
4987	484241016	6	684277	14825	LA BRISIS WAY	414.15	41.42	82.00	537.56
4988	484241025	4	684277	14850	LA BRISIS WAY	372.88	37.29	73.83	484.00

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
4989	484242006	0	684277	14843	CASA LOMA DR	156.12	15.61	30.91	202.64
4990	484242007	1	684277	14837	CASA LOMA DR	238.16	23.82	47.16	309.14
4991	484251001	3	684277	14880	LA BRISIS WAY	76.43	7.64	15.13	99.20
4992	484253007	5	684277	25159	EL GRECO DR	357.79	35.78	70.84	464.40
4993	484253009	7	684277	25148	EL GRECO DR	198.59	19.86	39.32	257.76
4994	484253010	7	684277	25160	EL GRECO DR	371.28	37.13	73.51	481.92
4995	484253019	6	684277	25189	VANESSA CT	264.33	26.43	52.34	343.10
4996	484253023	9	684277	25149	VANESSA CT	615.30	61.53	121.83	798.66
4997	484253024	0	684277	25148	VANESSA CT	93.73	9.37	18.56	121.66
4998	484261001	4	684277	25365	EL GRECO DR	385.23	38.52	76.28	500.02
4999	484261003	6	684277	25339	EL GRECO DR	95.95	9.60	19.00	124.54
5000	484261009	2	684277	25267	EL GRECO DR	77.58	7.76	15.36	100.70
5001	484262004	0	684277	14907	REMBRANDT DR	378.50	37.85	74.94	491.28
5002	484262005	1	684277	14895	REMBRANDT DR	372.88	37.29	73.83	484.00
5003	484262009	5	684277	14849	REMBRANDT DR	347.50	34.75	68.81	451.06
5004	484262013	8	684277	14799	REMBRANDT DR	300.07	30.01	59.41	389.48
5005	484263015	3	684277	25364	EL GRECO DR	76.43	7.64	15.13	99.20
5006	484263016	4	684277	25374	EL GRECO DR	378.50	37.85	74.94	491.28
5007	484264001	3	684277	25336	RENOIR AVE	202.57	20.26	40.11	262.94
5008	484264004	6	684277	14894	REMBRANDT DR	431.52	43.15	85.44	560.10
5009	484264007	9	684277	14858	REMBRANDT DR	249.66	24.97	49.43	324.06
5010	484265009	4	684277	14810	VAN GOGH AVE	528.55	52.86	104.65	686.06
5011	484273005	5	684277	25421	EL GRECO DR	140.00	14.00	27.72	181.72
5012	484273006	6	684277	25433	EL GRECO DR	378.50	37.85	74.94	491.28
5013	484273008	8	684277	25455	EL GRECO DR	347.00	34.70	68.71	450.40
5014	484273026	4	684277	25620	EL GRECO DR	238.16	23.82	47.16	309.14
5015	484273028	6	684277	25600	EL GRECO DR	465.27	46.53	92.12	603.92
5016	484273032	9	684277	14848	ALBA WAY	372.88	37.29	73.83	484.00
5017	484273045	1	684277	25561	EL GRECO DR	338.35	33.84	66.99	439.18

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Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
5018	484281003	8	684277	14946	MAGELLAN DR	372.88	37.29	73.83	484.00
5019	484281007	2	684277	14892	MAGELLAN DR	347.50	34.75	68.81	451.06
5020	484282006	4	684277	14928	EDELWEISS PL	493.99	49.40	97.81	641.20
5021	484282010	7	684277	14917	DE SOTO PL	310.12	31.01	61.40	402.52
5022	484283006	7	684277	25651	STONEBROOK DR	89.82	8.98	17.78	116.58
5023	484284003	7	684277	14939	RIO GRANDE DR	493.99	49.40	97.81	641.20
5024	484284007	1	684277	14891	RIO GRANDE DR	371.41	37.14	73.54	482.08
5025	484285008	5	684277	14960	RIO GRANDE DR	372.88	37.29	73.83	484.00
5026	484291009	5	684277	25594	ERICSON DR	242.19	24.22	47.95	314.36
5027	484291011	6	684277	25566	ERICSON DR	372.88	37.29	73.83	484.00
5028	484292013	1	684277	25658	ERICSON DR	372.88	37.29	73.83	484.00
5029	484293022	2	684277	14881	EDELWEISS PL	95.12	9.51	18.83	123.46
5030	484293023	3	684277	14871	EDELWEISS PL	106.20	10.62	21.03	137.84
5031	484293026	6	684277	14838	EDELWEISS PL	174.25	17.43	34.50	226.18
5032	484293035	4	684277	14858	DE SOTO PL	503.03	50.30	99.60	652.92
5033	484294009	4	684277	14858	RIO GRANDE DR	485.05	48.51	96.04	629.60
5034	484301008	4	684277	25783	PARSLEY AVE	372.88	37.29	73.83	484.00
5035	484301012	7	684277	25801	PARSLEY AVE	357.06	35.71	70.70	463.46
5036	484301014	9	684277	25813	PARSLEY AVE	372.88	37.29	73.83	484.00
5037	484302003	2	684277	25857	PARSLEY AVE	372.88	37.29	73.83	484.00
5038	484303003	5	684277	25866	PARSLEY AVE	125.00	12.50	24.75	162.24
5039	484303006	8	684277	25852	PARSLEY AVE	71.43	7.14	14.14	92.70
5040	484303010	1	684277	14794	TARRAGON WAY	111.16	11.12	22.01	144.28
5041	484303024	4	684277	25786	PARSLEY AVE	493.99	49.40	97.81	641.20
5042	484303025	5	684277	25782	PARSLEY AVE	378.50	37.85	74.94	491.28
5043	484303029	9	684277	25764	PARSLEY AVE	372.88	37.29	73.83	484.00
5044	484303038	7	684277	25849	DELPHINIUM AVE	38.16	3.82	7.56	49.54
5045	484303045	3	684277	14811	ROSEMARY AVE	372.88	37.29	73.83	484.00
5046	484311001	8	684277	25898	CORIANDE CT	75.12	7.51	14.87	97.50

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

Column Totals	2,003,753.76	200,377.97	396,739.88	2,600,843.48
Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
5047	484311008	5	684277	25821	CORIANDE CT	238.16	23.82	47.16	309.14
5048	484311010	6	684277	25801	CORIANDE CT	71.43	7.14	14.14	92.70
5049	484311024	9	684277	25832	CORIANDE CT	372.88	37.29	73.83	484.00
5050	484311032	6	684277	25785	BASIL CT	372.88	37.29	73.83	484.00
5051	484312005	5	684277	14914	TARRAGON WAY	372.88	37.29	73.83	484.00
5052	484312008	8	684277	25864	CORIANDE CT	372.88	37.29	73.83	484.00
5053	484312019	8	684277	14952	CURRY ST	372.88	37.29	73.83	484.00
5054	484312023	1	684277	14978	CURRY ST	72.68	7.27	14.39	94.34
5055	484312024	2	684277	14979	CURRY ST	267.36	26.74	52.94	347.04
5056	484312028	6	684277	14953	CURRY ST	372.88	37.29	73.83	484.00
5057	484321002	0	684277	25981	DELPHINIUM AVE	26.43	2.64	5.23	34.30
5058	484321021	7	684277	14809	CURRY ST	187.96	18.80	37.22	243.98
5059	484321024	0	684277	14783	CURRY ST	372.88	37.29	73.83	484.00
5060	484321028	4	684277	14792	CURRY ST	71.43	7.14	14.14	92.70
5061	484321030	5	684277	14808	CURRY ST	372.88	37.29	73.83	484.00
5062	484321031	6	684277	14818	CURRY ST	460.69	46.07	91.22	597.98
5063	484321043	7	684277	14914	CURRY ST	166.22	16.62	32.91	215.74
5064	484321054	7	684277	25996	CORIANDE CT	372.88	37.29	73.83	484.00
5065	484321058	1	684277	25965	CORIANDE CT	372.53	37.25	73.76	483.54
5066	484321066	8	684277	25905	CORIANDE CT	76.43	7.64	15.13	99.20
5067	484322007	8	684277	25949	PARSLEY AVE	172.88	17.29	34.23	224.40
5068	484322008	9	684277	25939	PARSLEY AVE	372.88	37.29	73.83	484.00
5069	484322009	0	684277	25929	PARSLEY AVE	238.16	23.82	47.16	309.14
5070	485032016	7	684277	15035	PEPPER CT	361.37	36.14	71.55	469.06
5071	485032017	8	684277	15047	PEPPER CT	102.54	10.25	20.30	133.08
5072	485032019	0	684277	15069	PEPPER CT	299.83	29.98	59.37	389.18
5073	485032026	6	684277	15141	PEPPER CT	372.88	37.29	73.83	484.00
5074	485033033	5	684277	24161	CLOVER AVE	372.88	37.29	73.83	484.00
5075	485033040	1	684277	15234	PEPPER CT	217.93	21.79	43.15	282.86

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
5076	485033046	7	684277	15160	PEPPER CT	486.54	48.65	96.33	631.52
5077	485033049	0	684277	15136	PEPPER CT	376.61	37.66	74.57	488.84
5078	485033051	1	684277	15116	PEPPER CT	85.15	8.52	16.86	110.52
5079	485033054	4	684277	15082	PEPPER CT	321.68	32.17	63.69	417.54
5080	485042013	5	684277	24393	NICOLE CT	485.05	48.51	96.04	629.60
5081	485042020	1	684277	24323	NICOLE CT	336.68	33.67	66.66	437.00
5082	485042027	8	684277	24300	GABRIEL ST	477.32	47.73	94.51	619.56
5083	485043012	7	684277	15093	PAIGE AVE	372.88	37.29	73.83	484.00
5084	485043014	9	684277	15107	PAIGE AVE	361.80	36.18	71.64	469.62
5085	485051003	4	684277	24330	GABRIEL ST	256.08	25.61	50.70	332.38
5086	485051009	0	684277	24390	GABRIEL ST	485.05	48.51	96.04	629.60
5087	485052007	1	684277	24377	GABRIEL ST	486.54	48.65	96.33	631.52
5088	485052009	3	684277	24405	GABRIEL ST	385.23	38.52	76.28	500.02
5089	485052019	2	684277	24523	GABRIEL ST	375.83	37.58	74.41	487.82
5090	485052019	2	684277	24523	GABRIEL ST	375.83	37.58	74.41	487.82
5091	485052021	3	684277	24539	GABRIEL ST	238.16	23.82	47.16	309.14
5092	485052025	7	684277	24571	GABRIEL ST	357.79	35.78	70.84	464.40
5093	485052026	8	684277	24579	GABRIEL ST	372.88	37.29	73.83	484.00
5094	485052038	9	684277	24349	KARRY CT	76.39	7.64	15.13	99.16
5095	485052049	9	684277	24286	KURT CT	180.41	18.04	35.72	234.16
5096	485052054	3	684277	24320	KURT CT	458.26	45.83	90.74	594.82
5097	485052060	8	684277	24351	KURT CT	346.62	34.66	68.63	449.90
5098	485052062	0	684277	24343	KURT CT	378.50	37.85	74.94	491.28
5099	485052065	3	684277	24321	KURT CT	378.50	37.85	74.94	491.28
5100	485053003	0	684277	24430	TYANN CT	486.54	48.65	96.33	631.52
5101	485055004	7	684277	24281	KURT CT	55.12	5.51	10.91	71.54
5102	485055006	9	684277	15219	PAIGE AVE	80.16	8.02	15.87	104.04
5103	485055010	2	684277	15195	PAIGE AVE	368.23	36.82	72.91	477.96
5104	485055015	7	684277	15159	PAIGE AVE	111.50	11.15	22.08	144.72

**MORENO VALLEY Tax Roll Listing 2019
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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
5105	485055016	8	684277	15149	PAIGE AVE	385.23	38.52	76.28	500.02
5106	485055018	0	684277	15137	PAIGE AVE	121.68	12.17	24.09	157.94
5107	485061002	4	684277	24524	BEAL AVE	385.23	38.52	76.28	500.02
5108	485061006	8	684277	24572	BEAL AVE	372.88	37.29	73.83	484.00
5109	485061012	3	684277	15054	BATTON ST	372.88	37.29	73.83	484.00
5110	485061015	6	684277	15090	BATTON ST	351.46	35.15	69.59	456.20
5111	485064003	4	684277	24680	GOLDSTON CT	372.88	37.29	73.83	484.00
5112	485064006	7	684277	24710	GOLDSTON CT	629.30	62.93	124.60	816.82
5113	485064008	9	684277	24730	GOLDSTON CT	378.50	37.85	74.94	491.28
5114	485064009	0	684277	24731	GOLDSTON CT	372.88	37.29	73.83	484.00
5115	485064014	4	684277	24681	GOLDSTON CT	372.88	37.29	73.83	484.00
5116	485064021	0	684277	24700	PATRICIAN CT	342.08	34.21	67.73	444.02
5117	485064023	2	684277	24720	PATRICIAN CT	279.73	27.97	55.39	363.08
5118	485064028	7	684277	24701	PATRICIAN CT	262.38	26.24	51.95	340.56
5119	485071001	4	684277	24510	VANDENBERG DR	493.99	49.40	97.81	641.20
5120	485071007	0	684277	24586	VANDENBERG DR	486.54	48.65	96.33	631.52
5121	485072017	2	684277	24710	GOLD STAR DR	201.30	20.13	39.86	261.28
5122	485072019	4	684277	24699	HEATH CT	378.50	37.85	74.94	491.28
5123	485072023	7	684277	24659	HEATH CT	378.50	37.85	74.94	491.28
5124	485072027	1	684277	24680	HEATH CT	485.05	48.51	96.04	629.60
5125	485072032	5	684277	24697	RUGBY LN	372.88	37.29	73.83	484.00
5126	485074003	5	684277	24548	FILAREE AVE	125.37	12.54	24.82	162.72
5127	485074003	5	684277	24548	FILAREE AVE	125.37	12.54	24.82	162.72
5128	485074007	9	684277	24569	VANDENBERG DR	272.40	27.24	53.94	353.58
5129	485075003	8	684277	24700	RUGBY LN	493.99	49.40	97.81	641.20
5130	485075012	6	684277	15214	BUXTON AVE	361.80	36.18	71.64	469.62
5131	485075013	7	684277	15226	BUXTON AVE	294.12	29.41	58.24	381.76
5132	485081002	6	684277	15128	LAVERDA LN	181.20	18.12	35.88	235.20
5133	485081004	8	684277	15104	LAVERDA LN	242.03	24.20	47.92	314.14

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
5134	485081008	2	684277	24858	GREENLEE WAY	372.88	37.29	73.83	484.00
5135	485082001	8	684277	15141	LAVERDA LN	372.88	37.29	73.83	484.00
5136	485083006	6	684277	15129	PRENTICE WAY	378.50	37.85	74.94	491.28
5137	485084004	7	684277	24762	AGUSTA DR	372.88	37.29	73.83	484.00
5138	485084006	9	684277	15053	NORTON LN	378.50	37.85	74.94	491.28
5139	485084007	0	684277	15065	NORTON LN	120.80	12.08	23.92	156.80
5140	485091007	2	684277	15176	BLACK SHADOW DR	330.07	33.01	65.35	428.42
5141	485091010	4	684277	15173	BLACK SHADOW DR	372.88	37.29	73.83	484.00
5142	485091018	2	684277	15236	LAVERDA LN	372.40	37.24	73.74	483.38
5143	485091025	8	684277	15152	LAVERDA LN	372.88	37.29	73.83	484.00
5144	485092001	9	684277	24826	MATTUS WAY	91.51	9.15	18.12	118.78
5145	485092006	4	684277	15153	LAVERDA LN	317.85	31.79	62.94	412.58
5146	485093004	5	684277	15212	NORTON LN	359.05	35.91	71.09	466.04
5147	485093004	5	684277	15212	NORTON LN	359.05	35.91	71.09	466.04
5148	485093006	7	684277	15188	NORTON LN	158.99	15.90	31.48	206.36
5149	485093007	8	684277	15176	NORTON LN	372.88	37.29	73.83	484.00
5150	485093012	2	684277	15189	PRENTICE WAY	349.18	34.92	69.14	453.24
5151	485093013	3	684277	15201	PRENTICE WAY	306.20	30.62	60.63	397.44
5152	485093014	4	684277	24795	MATTUS WAY	493.99	49.40	97.81	641.20
5153	485093015	5	684277	24811	MATTUS WAY	378.50	37.85	74.94	491.28
5154	485093017	7	684277	24843	MATTUS WAY	346.40	34.64	68.59	449.62
5155	485093018	8	684277	24859	MATTUS WAY	372.88	37.29	73.83	484.00
5156	485093024	3	684277	24842	GOLD STAR DR	71.43	7.14	14.14	92.70
5157	485101011	5	684277	24827	GOLD STAR DR	239.55	23.96	47.43	310.94
5158	485101024	7	684277	15328	CAMP CT	372.88	37.29	73.83	484.00
5159	485101028	1	684277	15285	CAMP CT	211.68	21.17	41.91	274.76
5160	485101031	3	684277	15331	CAMP CT	342.39	34.24	67.79	444.42
5161	485101035	7	684277	15312	SWARENS CT	372.88	37.29	73.83	484.00
5162	485101037	9	684277	15282	SWARENS CT	372.88	37.29	73.83	484.00

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
5163	485101042	3	684277	15343	SWARENS CT	391.80	39.18	77.58	508.56
5164	485101051	1	684277	15327	WITCZAK CT	372.88	37.29	73.83	484.00
5165	485102001	9	684277	15262	BLACK SHADOW DR	372.88	37.29	73.83	484.00
5166	485103003	4	684277	24795	FAY AVE	486.54	48.65	96.33	631.52
5167	485103004	5	684277	24807	FAY AVE	195.17	19.52	38.64	253.32
5168	485103005	6	684277	24819	FAY AVE	119.32	11.93	23.63	154.88
5169	485103013	3	684277	24915	FAY AVE	486.54	48.65	96.33	631.52
5170	485112001	0	684277	24977	QUENADA DR	198.96	19.90	39.39	258.24
5171	485112004	3	684277	24841	QUENADA DR	155.12	15.51	30.71	201.34
5172	485121019	5	684277	24697	QUENADA DR	205.79	20.58	40.75	267.12
5173	485131002	0	684277	24522	FAY AVE	235.66	23.57	46.66	305.88
5174	485131008	6	684277	24590	FAY AVE	372.88	37.29	73.83	484.00
5175	485131011	8	684277	24624	FAY AVE	349.32	34.93	69.17	453.42
5176	485131013	0	684277	15367	OAKHAM CT	110.35	11.04	21.85	143.24
5177	485132016	6	684277	24742	TALBOT CT	312.77	31.28	61.93	405.98
5178	485132018	8	684277	24739	TALBOT CT	486.54	48.65	96.33	631.52
5179	485132019	9	684277	24729	TALBOT CT	65.30	6.53	12.93	84.76
5180	485132023	2	684277	24687	TALBOT CT	378.50	37.85	74.94	491.28
5181	485132023	2	684277	24687	TALBOT CT	378.50	37.85	74.94	491.28
5182	485132024	3	684277	24677	TALBOT CT	63.68	6.37	12.61	82.66
5183	485133012	5	684277	24621	FAY AVE	486.54	48.65	96.33	631.52
5184	485134003	0	684277	15439	HERNE CT	372.88	37.29	73.83	484.00
5185	485134005	2	684277	15391	HERNE CT	378.50	37.85	74.94	491.28
5186	485141011	9	684277	24465	STACEY AVE	40.00	4.00	7.92	51.92
5187	485141020	7	684277	24438	KATRINA AVE	378.50	37.85	74.94	491.28
5188	485141026	3	684277	24488	KATRINA AVE	40.90	4.09	8.10	53.08
5189	485142001	3	684277	24405	STACEY AVE	241.20	24.12	47.76	313.08
5190	485142002	4	684277	24397	STACEY AVE	378.50	37.85	74.94	491.28
5191	485142004	6	684277	24381	STACEY AVE	378.50	37.85	74.94	491.28

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
5192	485142005	7	684277	24373	STACEY AVE	378.50	37.85	74.94	491.28
5193	485142018	9	684277	15332	THERESA AVE	378.50	37.85	74.94	491.28
5194	485142029	9	684277	24338	KATRINA AVE	357.79	35.78	70.84	464.40
5195	485142033	2	684277	24370	KATRINA AVE	493.99	49.40	97.81	641.20
5196	485142037	6	684277	24408	KATRINA AVE	372.88	37.29	73.83	484.00
5197	485143003	8	684277	24348	STACEY AVE	378.50	37.85	74.94	491.28
5198	485143006	1	684277	24372	STACEY AVE	141.68	14.17	28.05	183.90
5199	485144001	9	684277	24310	STACEY AVE	485.05	48.51	96.04	629.60
5200	485144002	0	684277	24296	STACEY AVE	70.87	7.09	14.03	91.98
5201	485144003	1	684277	24282	STACEY AVE	378.50	37.85	74.94	491.28
5202	485145006	7	684277	24391	KATRINA AVE	71.43	7.14	14.14	92.70
5203	485145018	8	684277	24487	KATRINA AVE	378.50	37.85	74.94	491.28
5204	485151008	8	684277	24084	POPPYSTONE DR	385.23	38.52	76.28	500.02
5205	485151015	4	684277	24140	POPPYSTONE DR	68.89	6.89	13.64	89.42
5206	485151019	8	684277	24172	POPPYSTONE DR	178.16	17.82	35.28	231.26
5207	485151026	4	684277	24240	POPPYSTONE DR	290.28	29.03	57.48	376.78
5208	485151034	1	684277	15330	CANYONSTONE DR	385.23	38.52	76.28	500.02
5209	485152002	5	684277	24039	POPPYSTONE DR	51.66	5.17	10.23	67.06
5210	485152007	0	684277	24077	POPPYSTONE DR	372.88	37.29	73.83	484.00
5211	485152008	1	684277	24085	POPPYSTONE DR	331.69	33.17	65.67	430.52
5212	485152014	6	684277	24076	STONEBRIDGE CT	114.24	11.42	22.62	148.28
5213	485152038	8	684277	24179	STONEBRIDGE CT	378.50	37.85	74.94	491.28
5214	485153006	2	684277	24155	POPPYSTONE DR	493.89	49.39	97.79	641.06
5215	485153010	5	684277	24125	POPPYSTONE DR	372.88	37.29	73.83	484.00
5216	485153012	7	684277	24132	STONEBRIDGE CT	107.14	10.71	21.21	139.06
5217	485153015	0	684277	24154	STONEBRIDGE CT	357.79	35.78	70.84	464.40
5218	485161006	7	684277	15396	FUGATE CT	238.16	23.82	47.16	309.14
5219	485161007	8	684277	15414	FUGATE CT	268.25	26.83	53.11	348.18
5220	485161011	1	684277	15446	FUGATE CT	378.50	37.85	74.94	491.28

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
5221	4851610211	0	684277	15380	TIFFIN CT	328.61	32.86	65.06	426.52
5222	4851610298	8	684277	15449	GEMSTONE CT	372.88	37.29	73.83	484.00
5223	4851610353	3	684277	15395	GEMSTONE CT	46.17	4.62	9.14	59.92
5224	4851610386	6	684277	15396	GEMSTONE CT	71.43	7.14	14.14	92.70
5225	4851610430	0	684277	15446	GEMSTONE CT	353.82	35.38	70.06	459.26
5226	4851620015	5	684277	15360	CANYONSTONE DR	352.29	35.23	69.75	457.26
5227	4851630205	5	684277	24181	PUDDINGSTONE DR	128.48	12.85	25.44	166.76
5228	4851630227	7	684277	24161	PUDDINGSTONE DR	368.97	36.90	73.06	478.92
5229	4851630238	8	684277	24151	PUDDINGSTONE DR	363.20	36.32	71.91	471.42
5230	4851630250	0	684277	24131	PUDDINGSTONE DR	493.99	49.40	97.81	641.20
5231	4851710123	3	684277	15403	THERESA AVE	143.02	14.30	28.32	185.64
5232	4851720038	8	684277	24300	DYNA PL	372.88	37.29	73.83	484.00
5233	4851730019	9	684277	24346	DYNA PL	372.88	37.29	73.83	484.00
5234	4851730053	3	684277	24378	DYNA PL	378.50	37.85	74.94	491.28
5235	4851730086	6	684277	24404	DYNA PL	366.29	36.63	72.53	475.44
5236	4851730129	9	684277	24413	DYNA PL	35.00	3.50	6.93	45.42
5237	4851730130	0	684277	24403	DYNA PL	134.15	13.42	26.56	174.12
5238	4851730152	2	684277	24387	DYNA PL	651.35	65.14	128.97	845.46
5239	4851730152	2	684277	24389	DYNA PL	651.35	65.14	128.97	845.46
5240	4851730163	3	684277	24379	DYNA PL	378.50	37.85	74.94	491.28
5241	4851730239	9	684277	24360	CAROLEE AVE	84.36	8.44	16.70	109.50
5242	4851730240	0	684277	24370	CAROLEE AVE	364.13	36.41	72.10	472.64
5243	4851730338	8	684277	15437	BANDY CT	372.88	37.29	73.83	484.00
5244	4851730437	7	684277	15410	BANDY CT	205.70	20.57	40.73	267.00
5245	4851730460	0	684277	15436	BANDY CT	321.68	32.17	63.69	417.54
5246	4851740111	1	684277	24301	DYNA PL	372.88	37.29	73.83	484.00
5247	4851740144	4	684277	15436	THERESA AVE	207.89	20.79	41.16	269.84
5248	4851750015	5	684277	24345	CAROLEE AVE	549.96	55.00	108.89	713.84
5249	4851750114	4	684277	24433	CAROLEE AVE	199.53	19.95	39.51	258.98

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

Column Totals	2,003,753.76	200,377.97	396,739.88	2,600,843.48
Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
5250	485175014	7	684277	24455	CAROLEE AVE	303.96	30.40	60.18	394.54
5251	485175019	2	684277	15466	BANDY CT	385.23	38.52	76.28	500.02
5252	485181018	0	684277	24460	ELECTRA CT	493.99	49.40	97.81	641.20
5253	485181021	2	684277	24486	ELECTRA CT	391.48	39.15	77.51	508.14
5254	485181021	2	684277	24486	ELECTRA CT	391.48	39.15	77.51	508.14
5255	485181031	1	684277	24411	ELECTRA CT	349.24	34.92	69.15	453.30
5256	485181031	1	684277	24411	ELECTRA CT	349.24	34.92	69.15	453.30
5257	485181041	0	684277	24492	ROBIE CT	259.08	25.91	51.30	336.28
5258	485181046	5	684277	24461	ROBIE CT	370.62	37.06	73.38	481.06
5259	485181049	8	684277	24437	ROBIE CT	378.50	37.85	74.94	491.28
5260	485181051	9	684277	24421	ROBIE CT	378.50	37.85	74.94	491.28
5261	485182004	0	684277	24380	ROBIE CT	62.19	6.22	12.31	80.72
5262	485182017	2	684277	24315	ELECTRA CT	372.88	37.29	73.83	484.00
5263	485182023	7	684277	24267	ELECTRA CT	293.99	29.40	58.21	381.60
5264	485182028	2	684277	24300	ELECTRA CT	372.88	37.29	73.83	484.00
5265	485182036	9	684277	15563	NADIA ST	290.49	29.05	57.52	377.06
5266	485182038	1	684277	24278	ROBIE CT	167.82	16.78	33.23	217.82
5267	485183006	5	684277	24357	ROBIE CT	372.88	37.29	73.83	484.00
5268	485183008	7	684277	24339	ROBIE CT	378.50	37.85	74.94	491.28
5269	485183011	9	684277	24313	ROBIE CT	385.23	38.52	76.28	500.02
5270	485183014	2	684277	24285	ROBIE CT	406.48	40.65	80.48	527.60
5271	485191010	3	684277	24425	LIOLIOS WAY	349.00	34.90	69.10	453.00
5272	485192003	0	684277	24434	LIOLIOS WAY	351.46	35.15	69.59	456.20
5273	485192010	6	684277	24490	LIOLIOS WAY	366.97	36.70	72.66	476.32
5274	485193008	8	684277	24395	FITZ ST	360.58	36.06	71.40	468.04
5275	485193009	9	684277	24385	FITZ ST	336.98	33.70	66.72	437.40
5276	485193014	3	684277	24341	FITZ ST	96.41	9.64	19.09	125.14
5277	485194001	4	684277	24323	FITZ ST	378.50	37.85	74.94	491.28
5278	485194002	5	684277	24313	FITZ ST	162.86	16.29	32.25	211.40

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
5279	485194005	8	684277	24287	FITZ ST	76.43	7.64	15.13	99.20
5280	485194006	9	684277	24277	FITZ ST	518.22	51.82	102.61	672.64
5281	485194012	4	684277	15703	NADIA ST	372.88	37.29	73.83	484.00
5282	485194013	5	684277	15693	NADIA ST	347.50	34.75	68.81	451.06
5283	485195001	7	684277	15697	LIPARI DR	300.60	30.06	59.52	390.18
5284	485195002	8	684277	15689	LIPARI DR	365.43	36.54	72.35	474.32
5285	485195013	8	684277	24324	HILDA CT	481.89	48.19	95.41	625.48
5286	485195021	5	684277	24351	HILDA CT	477.72	47.77	94.59	620.08
5287	485195023	7	684277	24331	HILDA CT	583.16	58.32	115.47	756.94
5288	485195025	9	684277	24315	HILDA CT	84.58	8.46	16.75	109.78
5289	485195027	1	684277	24297	HILDA CT	44.13	4.41	8.74	57.28
5290	485195038	1	684277	24348	FITZ ST	372.88	37.29	73.83	484.00
5291	485195041	3	684277	15713	LIPARI DR	378.50	37.85	74.94	491.28
5292	485201005	9	684277	15785	SHERYL LN	378.50	37.85	74.94	491.28
5293	485201006	0	684277	15793	SHERYL LN	154.56	15.46	30.60	200.62
5294	485201007	1	684277	15794	APRIL CT	372.88	37.29	73.83	484.00
5295	485201008	2	684277	15786	APRIL CT	372.88	37.29	73.83	484.00
5296	485201015	8	684277	15769	APRIL CT	372.88	37.29	73.83	484.00
5297	485201030	1	684277	24377	WILDWOOD ST	286.18	28.62	56.66	371.46
5298	485201033	4	684277	24407	WILDWOOD ST	493.99	49.40	97.81	641.20
5299	485201041	1	684277	24487	WILDWOOD ST	201.09	20.11	39.82	261.02
5300	485201051	0	684277	11664	DAVIS ST	417.09	41.71	82.58	541.38
5301	485201055	4	684277	24354	ST THOMAS AVE	280.26	28.03	55.49	363.78
5302	485201058	7	684277	24318	ST THOMAS AVE	238.62	23.86	47.25	309.72
5303	485201062	0	684277	24305	ST THOMAS AVE	321.68	32.17	63.69	417.54
5304	485201066	4	684277	24353	ST THOMAS AVE	372.88	37.29	73.83	484.00
5305	485202003	0	684277	15770	SHERYL LN	378.50	37.85	74.94	491.28
5306	485202004	1	684277	15778	SHERYL LN	127.80	12.78	25.30	165.88
5307	485202011	7	684277	15761	JUNE CT	372.88	37.29	73.83	484.00

**MORENO VALLEY Tax Roll Listing 2019
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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
5308	485202016	2	684277	15778	JUNE CT	292.88	29.29	57.99	380.16
5309	485202019	5	684277	15793	JALANIE LN	347.50	34.75	68.81	451.06
5310	485202024	9	684277	15753	JALANIE LN	389.68	38.97	77.16	505.80
5311	485203005	5	684277	15786	JALANIE LN	238.16	23.82	47.16	309.14
5312	485204001	4	684277	24497	ST THOMAS AVE	271.43	27.14	53.74	352.30
5313	485211006	1	684277	24354	FUJ DR	378.50	37.85	74.94	491.28
5314	485212001	9	684277	24390	FUJ DR	370.98	37.10	73.45	481.52
5315	485212004	2	684277	24426	FUJ DR	372.88	37.29	73.83	484.00
5316	485212012	9	684277	24465	FUJ DR	372.88	37.29	73.83	484.00
5317	485212014	1	684277	24441	FUJ DR	81.03	8.10	16.04	105.16
5318	485212017	4	684277	24409	FUJ DR	239.97	24.00	47.51	311.48
5319	485212017	4	684277	24409	FUJ DR	239.97	24.00	47.51	311.48
5320	485212019	6	684277	24389	FUJ DR	378.50	37.85	74.94	491.28
5321	485212027	3	684277	24462	CARMAN LN	372.88	37.29	73.83	484.00
5322	485212028	4	684277	24474	CARMAN LN	378.50	37.85	74.94	491.28
5323	485212040	4	684277	24389	CARMAN LN	372.88	37.29	73.83	484.00
5324	485213001	2	684277	24365	FUJ DR	372.88	37.29	73.83	484.00
5325	485213002	3	684277	24353	FUJ DR	378.50	37.85	74.94	491.28
5326	485213005	6	684277	24325	FUJ DR	378.50	37.85	74.94	491.28
5327	485213007	8	684277	24305	FUJ DR	345.63	34.56	68.43	448.62
5328	485213010	0	684277	24354	CARMAN LN	493.99	49.40	97.81	641.20
5329	485213020	9	684277	24341	CARMAN LN	242.15	24.22	47.95	314.32
5330	485213020	9	684277	24341	CARMAN LN	242.15	24.22	47.95	314.32
5331	486021001	6	684277	25906	HARRIET AVE	372.88	37.29	73.83	484.00
5332	486021006	1	684277	25972	HARRIET AVE	378.50	37.85	74.94	491.28
5333	486021010	4	684277	15042	CAROLINA AVE	372.88	37.29	73.83	484.00
5334	486022008	6	684277	15210	CAROLINA AVE	845.87	84.59	167.48	1097.94
5335	486023006	7	684277	25925	MARGARET AVE	485.05	48.51	96.04	629.60
5336	486023008	9	684277	25903	MARGARET AVE	202.25	20.23	40.05	262.52

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
5337	486024002	6	684277	25884	MARGARET AVE	101.20	10.12	20.04	131.36
5338	486024005	9	684277	25918	MARGARET AVE	493.99	49.40	97.81	641.20
5339	486024009	3	684277	25951	ANNETTE AVE	356.26	35.63	70.54	462.42
5340	486024014	7	684277	25895	ANNETTE AVE	321.68	32.17	63.69	417.54
5341	486024016	9	684277	25873	ANNETTE AVE	152.86	15.29	30.27	198.42
5342	486025006	3	684277	15095	CHARLEE CT	31.33	3.13	6.20	40.66
5343	486025014	0	684277	25910	ANNETTE AVE	493.99	49.40	97.81	641.20
5344	486025015	1	684277	25922	ANNETTE AVE	216.80	21.68	42.93	281.40
5345	486025018	4	684277	25960	ANNETTE AVE	417.21	41.72	82.61	541.54
5346	486025020	5	684277	15119	CAROLINA AVE	372.88	37.29	73.83	484.00
5347	486025021	6	684277	15109	CAROLINA AVE	71.43	7.14	14.14	92.70
5348	486025026	1	684277	25959	HARRIET AVE	615.02	61.50	121.77	798.28
5349	486025027	2	684277	25945	HARRIET AVE	407.75	40.78	80.74	529.26
5350	486025028	3	684277	25933	HARRIET AVE	242.03	24.20	47.92	314.14
5351	486025029	4	684277	25919	HARRIET AVE	176.43	17.64	34.93	229.00
5352	486031010	5	684277	15029	JACQUETTA AVE	493.89	49.39	97.79	641.06
5353	486031020	4	684277	15155	JACQUETTA AVE	76.67	7.67	15.18	99.52
5354	486031023	7	684277	15195	JACQUETTA AVE	447.92	44.79	88.69	581.40
5355	486032006	5	684277	15156	JACQUETTA AVE	316.50	31.65	62.67	410.82
5356	486032013	1	684277	15064	JACQUETTA AVE	493.89	49.39	97.79	641.06
5357	486032015	3	684277	15038	JACQUETTA AVE	372.88	37.29	73.83	484.00
5358	486032023	0	684277	15131	ZHANA DR	68.69	6.87	13.60	89.16
5359	486032024	1	684277	15145	ZHANA DR	378.50	37.85	74.94	491.28
5360	486032030	6	684277	15225	ZHANA DR	53.11	5.31	10.52	68.94
5361	486034001	6	684277	25860	MARGARET AVE	493.99	49.40	97.81	641.20
5362	486035002	0	684277	15146	ZHANA DR	272.56	27.26	53.97	353.78
5363	486035003	1	684277	15132	ZHANA DR	205.64	20.56	40.72	266.92
5364	486035007	5	684277	15078	ZHANA DR	378.50	37.85	74.94	491.28
5365	486035008	6	684277	15062	ZHANA DR	602.45	60.25	119.29	781.98

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
5366	486041003	0	684277	25596	SAN LUPE AVE	107.73	10.77	21.33	139.82
5367	486041004	1	684277	25604	SAN LUPE AVE	321.20	32.12	63.60	416.92
5368	486041005	2	684277	25612	SAN LUPE AVE	71.43	7.14	14.14	92.70
5369	486041010	6	684277	25652	SAN LUPE AVE	51.74	5.17	10.24	67.14
5370	486041013	9	684277	25676	SAN LUPE AVE	485.05	48.51	96.04	629.60
5371	486041019	5	684277	25724	SAN LUPE AVE	485.05	48.51	96.04	629.60
5372	486042001	1	684277	25581	SAN LUPE AVE	643.86	64.39	127.49	835.74
5373	486042003	3	684277	25595	SAN LUPE AVE	104.27	10.43	20.65	135.34
5374	486042006	6	684277	25653	SAN LUPE AVE	378.50	37.85	74.94	491.28
5375	486042009	9	684277	25683	SAN LUPE AVE	372.88	37.29	73.83	484.00
5376	486042017	6	684277	15071	RIO GRANDE DR	408.91	40.89	80.96	530.76
5377	486042017	6	684277	15071	RIO GRANDE DR	408.91	40.89	80.96	530.76
5378	486043002	5	684277	15024	RIO GRANDE DR	385.23	38.52	76.28	500.02
5379	486043008	1	684277	15096	RIO GRANDE DR	372.88	37.29	73.83	484.00
5380	486051009	7	684277	25572	SAN LUPE AVE	372.88	37.29	73.83	484.00
5381	486052003	4	684277	25555	SAN LUPE AVE	378.50	37.85	74.94	491.28
5382	486052007	8	684277	15135	CALLE RENFRO	348.24	34.82	68.95	452.00
5383	486054003	0	684277	15145	RIO GRANDE DR	357.04	35.70	70.69	463.42
5384	486054005	2	684277	15172	MARTE CIR	313.27	31.33	62.03	406.62
5385	486054005	2	684277	15172	MARTE CIR	313.27	31.33	62.03	406.62
5386	486054007	4	684277	15148	MARTE CIR	42.60	4.26	8.43	55.28
5387	486055002	2	684277	15132	RIO GRANDE DR	336.98	33.70	66.72	437.40
5388	486055005	5	684277	15168	RIO GRANDE DR	372.88	37.29	73.83	484.00
5389	486055006	6	684277	15180	RIO GRANDE DR	71.67	7.17	14.19	93.02
5390	486056001	4	684277	25548	MARGARET AVE	455.35	45.54	90.16	591.04
5391	486056002	5	684277	25560	MARGARET AVE	493.99	49.40	97.81	641.20
5392	486056016	8	684277	25671	ESTRELLAS LN	493.99	49.40	97.81	641.20
5393	486056024	5	684277	25573	ESTRELLAS LN	368.53	36.85	72.97	478.34
5394	486057004	0	684277	25693	MARGARET AVE	40.12	4.01	7.94	52.06

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
5395	486057008	4	684277	25645	MARGARET AVE	165.12	16.51	32.69	214.32
5396	486061004	3	684277	15211	PATRICIA ST	435.87	43.59	86.30	565.76
5397	486061008	7	684277	15174	PATRICIA ST	342.80	34.28	67.87	444.94
5398	486061027	4	684277	25410	MARGARET AVE	78.98	7.90	15.64	102.52
5399	486061035	1	684277	15210	RENCHER CT	378.50	37.85	74.94	491.28
5400	486062013	4	684277	25351	MARGARET AVE	503.03	50.30	99.60	652.92
5401	486082006	0	684277	25131	FILAREE AVE	204.08	20.41	40.41	264.90
5402	486082029	1	684277	15344	ELEANOR LN	372.88	37.29	73.83	484.00
5403	486082030	1	684277	15332	ELEANOR LN	162.86	16.29	32.25	211.40
5404	486082035	6	684277	25188	FAY AVE	372.88	37.29	73.83	484.00
5405	486082039	0	684277	25140	FAY AVE	163.68	16.37	32.41	212.46
5406	486082042	2	684277	25106	FAY AVE	465.31	46.53	92.13	603.96
5407	486083004	1	684277	25107	FAY AVE	486.54	48.65	96.33	631.52
5408	486083016	2	684277	25188	YOLANDA AVE	101.23	10.12	20.04	131.38
5409	486083024	9	684277	25094	YOLANDA AVE	378.50	37.85	74.94	491.28
5410	486092002	7	684277	25083	YOLANDA AVE	352.29	35.23	69.75	457.26
5411	486092003	8	684277	25095	YOLANDA AVE	372.88	37.29	73.83	484.00
5412	486092005	0	684277	25119	YOLANDA AVE	238.16	23.82	47.16	309.14
5413	486092017	1	684277	25176	JUANITA AVE	253.26	25.33	50.15	328.74
5414	486092018	2	684277	25164	JUANITA AVE	76.44	7.64	15.13	99.20
5415	486092025	8	684277	25082	JUANITA AVE	150.39	15.04	29.78	195.20
5416	486093009	7	684277	25165	JUANITA AVE	372.76	37.28	73.81	483.84
5417	486093013	0	684277	25213	JUANITA AVE	372.88	37.29	73.83	484.00
5418	486093015	2	684277	25200	GENTIAN AVE	195.01	19.50	38.61	253.12
5419	486093015	2	684277	25200	GENTIAN AVE	195.01	19.50	38.61	253.12
5420	486094001	2	684277	15498	ELEANOR LN	426.72	42.67	84.49	553.88
5421	486094006	7	684277	15426	ELEANOR LN	188.50	18.85	37.32	244.66
5422	486094009	0	684277	15394	ELEANOR LN	354.10	35.41	70.11	459.62
5423	486094012	2	684277	15415	PATRICIA ST	76.43	7.64	15.13	99.20

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Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
5424	486095001	5	684277	25071	GENTIAN AVE	491.20	49.12	97.26	637.58
5425	486095008	2	684277	25153	GENTIAN AVE	341.68	34.17	67.65	443.50
5426	486101005	7	684277	25340	FILAREE AVE	75.80	7.58	15.01	98.38
5427	486102014	8	684277	25339	FILAREE AVE	503.03	50.30	99.60	652.92
5428	486102022	5	684277	25328	FAY AVE	327.88	32.79	64.92	425.58
5429	486102028	1	684277	25402	FAY AVE	237.92	23.79	47.11	308.82
5430	486102032	4	684277	25450	FAY AVE	198.96	19.90	39.39	258.24
5431	486103010	7	684277	25387	FAY AVE	403.73	40.37	79.94	524.04
5432	486103020	6	684277	25304	YOLANDA AVE	141.80	14.18	28.08	184.06
5433	486103033	8	684277	25462	YOLANDA AVE	65.59	6.56	12.99	85.14
5434	486103034	9	684277	25474	YOLANDA AVE	378.50	37.85	74.94	491.28
5435	48611001	4	684277	25291	YOLANDA AVE	168.06	16.81	33.28	218.14
5436	48611024	5	684277	25438	JUANITA AVE	138.16	13.82	27.36	179.34
5437	48611025	6	684277	25426	JUANITA AVE	372.88	37.29	73.83	484.00
5438	48611032	2	684277	25340	JUANITA AVE	191.07	19.11	37.83	248.00
5439	48611033	3	684277	25328	JUANITA AVE	473.88	47.39	93.83	615.10
5440	48611034	4	684277	25316	JUANITA AVE	215.11	21.51	42.59	279.20
5441	48612005	1	684277	25339	JUANITA AVE	347.59	34.76	68.82	451.16
5442	48612012	7	684277	25425	JUANITA AVE	267.88	26.79	53.04	347.70
5443	48612034	7	684277	25316	GENTIAN AVE	378.50	37.85	74.94	491.28
5444	486121001	5	684277	25504	CASA ENCANTADOR RD	385.23	38.52	76.28	500.02
5445	486121003	7	684277	25532	CASA ENCANTADOR RD	378.50	37.85	74.94	491.28
5446	486121005	9	684277	25560	CASA ENCANTADOR RD	372.88	37.29	73.83	484.00
5447	486121012	5	684277	15379	VIA ALICIA DR	372.88	37.29	73.83	484.00
5448	486121013	6	684277	15367	VIA ALICIA DR	378.50	37.85	74.94	491.28
5449	486121018	1	684277	15307	VIA ALICIA DR	20.87	2.09	4.13	27.08
5450	486121025	7	684277	25594	VISTA FAMOSO DR	299.83	29.98	59.37	389.18
5451	486122003	0	684277	25615	VISTA FAMOSO DR	386.54	38.65	76.53	501.72
5452	486123002	2	684277	15456	MORONGO CT	346.74	34.67	68.65	450.06

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

Column Totals	2,003,753.76	200,377.97	396,739.88	2,600,843.48
Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
5453	486123006	6	684277	25546	RANCHO TIERRA DR	486.54	48.65	96.33	631.52
5454	486123007	7	684277	25534	RANCHO TIERRA DR	486.54	48.65	96.33	631.52
5455	486124002	5	684277	15457	VIA LORCA DR	335.07	33.51	66.34	434.92
5456	486124010	2	684277	25563	RANCHO TIERRA DR	372.88	37.29	73.83	484.00
5457	486124012	4	684277	25591	RANCHO TIERRA DR	145.87	14.59	28.88	189.34
5458	486131008	3	684277	25720	VISTA FAMOSO DR	493.99	49.40	97.81	641.20
5459	486131010	4	684277	15329	CASA GRANDE ST	376.18	37.62	74.48	488.28
5460	486131013	7	684277	15293	CASA GRANDE ST	378.50	37.85	74.94	491.28
5461	486134003	7	684277	15449	PASEO CORTEZ	347.32	34.73	68.77	450.82
5462	486135004	1	684277	25659	RANCHO TIERRA DR	378.50	37.85	74.94	491.28
5463	486135010	6	684277	15420	PASEO CORTEZ	370.09	37.01	73.28	480.38
5464	486135019	5	684277	15401	CASA GRANDE ST	378.50	37.85	74.94	491.28
5465	486135021	6	684277	15425	CASA GRANDE ST	581.89	58.19	115.21	755.28
5466	486135026	1	684277	15485	CASA GRANDE ST	372.88	37.29	73.83	484.00
5467	486141005	1	684277	15322	LOS ESTADOS ST	372.88	37.29	73.83	484.00
5468	486141007	3	684277	15298	LOS ESTADOS ST	343.50	34.35	68.01	445.86
5469	486141012	7	684277	25914	CALLE FAMILIA	299.51	29.95	59.30	388.76
5470	486141025	9	684277	25860	RANCHO LUCERO DR	487.74	48.77	96.57	633.08
5471	486141033	6	684277	25760	RANCHO LUCERO DR	372.88	37.29	73.83	484.00
5472	486142004	3	684277	25789	RANCHO LUCERO DR	378.50	37.85	74.94	491.28
5473	486143006	8	684277	25933	CALLE FAMILIA	372.88	37.29	73.83	484.00
5474	486143008	0	684277	15328	LAS ROSAS AVE	372.88	37.29	73.83	484.00
5475	486143010	1	684277	15356	LAS ROSAS AVE	71.44	7.14	14.14	92.72
5476	486151003	0	684277	25913	CASA FANTASTICO DR	371.41	37.14	73.54	482.08
5477	486151005	2	684277	25941	CASA FANTASTICO DR	493.99	49.40	97.81	641.20
5478	486151011	7	684277	15461	CAMINO GRANDE	200.00	20.00	39.60	259.60
5479	486151013	9	684277	15437	CAMINO GRANDE	61.86	6.19	12.25	80.30
5480	486151022	7	684277	25872	PASEO PACIFICO	261.71	26.17	51.82	339.70
5481	486151023	8	684277	25858	PASEO PACIFICO	485.05	48.51	96.04	629.60

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
5482	486151026	1	684277	15398	NORMANDO CT	235.00	23.50	46.53	305.02
5483	486151028	3	684277	15401	NORMANDO CT	341.62	34.16	67.64	443.42
5484	486151041	4	684277	25843	CASA ENCANTADOR RD	50.00	5.00	9.90	64.90
5485	486151047	0	684277	25931	CASA ENCANTADOR RD	421.95	42.20	83.55	547.70
5486	486152005	5	684277	15423	PASEO CARMEL	441.62	44.16	87.44	573.22
5487	486152009	9	684277	15471	PASEO CARMEL	378.50	37.85	74.94	491.28
5488	486153022	3	684277	25856	CASA FANTASTICO DR	71.98	7.20	14.25	93.42
5489	486170004	0	684277	25367	GENTIAN AVE	76.43	7.64	15.13	99.20
5490	486181008	8	684277	25270	WENDY WAY	114.47	11.45	22.67	148.58
5491	486182002	5	684277	15734	PATRICIA ST	364.51	36.45	72.17	473.12
5492	486182004	7	684277	15720	PATRICIA ST	372.88	37.29	73.83	484.00
5493	486182006	9	684277	15704	PATRICIA ST	378.50	37.85	74.94	491.28
5494	486182012	4	684277	15658	PATRICIA ST	378.50	37.85	74.94	491.28
5495	486182014	6	684277	15644	PATRICIA ST	372.88	37.29	73.83	484.00
5496	486183016	1	684277	15653	PATRICIA ST	322.20	32.22	63.80	418.22
5497	486183024	8	684277	15715	PATRICIA ST	238.16	23.82	47.16	309.14
5498	486184012	0	684277	25294	DANA LN	354.42	35.44	70.17	460.02
5499	486184017	5	684277	25248	DANA LN	372.88	37.29	73.83	484.00
5500	486192030	1	684277	25204	DANA LN	372.88	37.29	73.83	484.00
5501	486192032	3	684277	25216	DANA LN	508.47	50.85	100.68	660.00
5502	486193011	7	684277	25211	DANA LN	55.12	5.51	10.91	71.54
5503	486193012	8	684277	25205	DANA LN	378.50	37.85	74.94	491.28
5504	486193022	7	684277	25129	DANA LN	241.50	24.15	47.82	313.46
5505	486193029	4	684277	25055	DANA LN	378.50	37.85	74.94	491.28
5506	486193035	9	684277	25030	DANA LN	172.64	17.26	34.18	224.08
5507	486193037	1	684277	25050	DANA LN	372.88	37.29	73.83	484.00
5508	486201003	4	684277	15775	NINYA AVE	352.36	35.24	69.77	457.36
5509	486201004	5	684277	15783	NINYA AVE	71.44	7.14	14.14	92.72
5510	486202001	5	684277	15856	NINYA AVE	421.95	42.20	83.55	547.70

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

Column Totals	2,003,753.76	200,377.97	396,739.88	2,600,843.48
Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
5511	486202003	7	684277	15838	NINYA AVE	378.50	37.85	74.94	491.28
5512	486202004	8	684277	15830	NINYA AVE	372.88	37.29	73.83	484.00
5513	486202005	9	684277	15820	NINYA AVE	493.99	49.40	97.81	641.20
5514	486202006	0	684277	15808	NINYA AVE	378.50	37.85	74.94	491.28
5515	486202012	5	684277	15758	NINYA AVE	347.50	34.75	68.81	451.06
5516	486202014	7	684277	15767	COBRA DR	378.50	37.85	74.94	491.28
5517	486202016	9	684277	15787	COBRA DR	565.20	56.52	111.91	733.62
5518	486203015	1	684277	15811	NAN AVE	685.66	68.57	135.76	889.98
5519	486203020	5	684277	15861	NAN AVE	378.50	37.85	74.94	491.28
5520	486204016	5	684277	15774	WEDOW DR	352.06	35.21	69.71	456.98
5521	486204017	6	684277	15858	WEDOW DR	428.72	42.87	84.89	556.48
5522	486211002	4	684277	15847	NINYA AVE	378.50	37.85	74.94	491.28
5523	486211003	5	684277	15855	NINYA AVE	378.50	37.85	74.94	491.28
5524	486211007	9	684277	15887	NINYA AVE	485.05	48.51	96.04	629.60
5525	486211011	2	684277	15919	NINYA AVE	303.71	30.37	60.13	394.20
5526	486211012	3	684277	15927	NINYA AVE	493.99	49.40	97.81	641.20
5527	486211013	4	684277	15935	NINYA AVE	369.06	36.91	73.07	479.04
5528	486212014	8	684277	15864	NINYA AVE	372.88	37.29	73.83	484.00
5529	486212015	9	684277	15849	COBRA DR	493.99	49.40	97.81	641.20
5530	486212022	5	684277	15913	COBRA DR	385.23	38.52	76.28	500.02
5531	486213001	9	684277	15930	COBRA DR	297.44	29.74	58.89	386.06
5532	486213008	6	684277	15848	COBRA DR	623.96	62.40	123.54	809.90
5533	486214003	4	684277	15906	WEDOW DR	477.72	47.77	94.59	620.08
5534	486214006	7	684277	15942	WEDOW DR	336.98	33.70	66.72	437.40
5535	486221005	8	684277	15759	PATRICIA ST	357.31	35.73	70.75	463.78
5536	486221006	9	684277	15761	PATRICIA ST	752.52	75.25	149.00	976.76
5537	486221006	9	684277	15761	PATRICIA LN	752.52	75.25	149.00	976.76
5538	486221013	5	684277	15775	PATRICIA ST	372.88	37.29	73.83	484.00
5539	486221025	6	684277	25325	SHAMELASH DR	76.44	7.64	15.13	99.20

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Customers with Invoice Item Dates in 2018**

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
5540	486221026	7	684277	25337	SHAMEL ASH DR	372.88	37.29	73.83	484.00
5541	486221028	9	684277	25361	SHAMEL ASH DR	365.00	36.50	72.27	473.76
5542	486222007	3	684277	15784	PATRICIA ST	378.50	37.85	74.94	491.28
5543	486222014	9	684277	15770	PATRICIA ST	493.99	49.40	97.81	641.20
5544	486222017	2	684277	15764	PATRICIA ST	493.99	49.40	97.81	641.20
5545	486222027	1	684277	25322	BEANTREE CT	50.00	5.00	9.90	64.90
5546	486222033	6	684277	25347	BEANTREE CT	242.03	24.20	47.92	314.14
5547	486222037	0	684277	25347	CAYMAN AVE	372.88	37.29	73.83	484.00
5548	486222040	2	684277	15765	CAYMAN CIR	71.44	7.14	14.14	92.72
5549	486222042	4	684277	15761	CAYMAN CIR	378.50	37.85	74.94	491.28
5550	486231005	9	684277	25421	SHAMEL ASH DR	372.88	37.29	73.83	484.00
5551	486232002	9	684277	25432	SHAMEL ASH DR	93.86	9.39	18.59	121.84
5552	486232005	2	684277	25396	SHAMEL ASH DR	372.88	37.29	73.83	484.00
5553	486232010	6	684277	25397	BEANTREE CT	288.09	28.81	57.04	373.94
5554	486232012	8	684277	25421	BEANTREE CT	102.80	10.28	20.35	133.42
5555	486233006	6	684277	15761	FARMSTEAD ST	196.80	19.68	38.97	255.44
5556	486234002	5	684277	25383	CAYMAN AVE	55.01	5.50	10.89	71.40
5557	486235012	7	684277	15766	BLUECHIP CIR	378.50	37.85	74.94	491.28
5558	486235015	0	684277	15760	BLUECHIP CIR	378.50	37.85	74.94	491.28
5559	486235027	1	684277	15765	BLUECHIP CIR	299.83	29.98	59.37	389.18
5560	486235034	7	684277	15766	FARMSTEAD ST	372.88	37.29	73.83	484.00
5561	486235035	8	684277	15764	FARMSTEAD ST	370.38	37.04	73.34	480.76
5562	486235044	6	684277	25465	SANTIAGO DR	402.88	40.29	79.77	522.94
5563	486290012	8	684277	14471	ANTHONY PL	586.88	58.69	116.20	761.76
5564	486290026	1	684277	27330	CACTUS AVE	503.03	50.30	99.60	652.92
5565	486290027	2	684277	27350	CACTUS AVE	372.88	37.29	73.83	484.00
5566	486290031	5	684277	14281	OLIVER ST	796.30	79.63	157.67	1033.60
5567	486290031	5	684277	14275	OLIVER ST	796.30	79.63	157.67	1033.60
5568	486351006	1	684277	15506	GUAJOME RD	42.39	4.24	8.39	55.02

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
5569	486351011	5	684277	15556	GUAJOME RD	372.88	37.29	73.83	484.00
5570	486351014	8	684277	15586	GUAJOME RD	378.50	37.85	74.94	491.28
5571	486351021	4	684277	15595	JACARA LN	378.50	37.85	74.94	491.28
5572	486351026	9	684277	15545	JACARA LN	250.48	25.05	49.60	325.12
5573	486351028	1	684277	15525	JACARA LN	372.88	37.29	73.83	484.00
5574	486351030	2	684277	15505	JACARA LN	372.88	37.29	73.83	484.00
5575	486352001	9	684277	15625	GUAJOME RD	372.88	37.29	73.83	484.00
5576	486352022	8	684277	25535	CATALEJO LN	33.64	3.36	6.66	43.66
5577	486352027	3	684277	15576	CARMEL VERDE LN	347.50	34.75	68.81	451.06
5578	486352029	5	684277	15596	CARMEL VERDE LN	372.88	37.29	73.83	484.00
5579	486352031	6	684277	15585	GORRION CT	378.50	37.85	74.94	491.28
5580	486352039	4	684277	15566	GORRION CT	355.57	35.56	70.40	461.52
5581	486352041	5	684277	15586	GORRION CT	384.29	38.43	76.09	498.80
5582	486352048	2	684277	15535	GRANADA DR	493.99	49.40	97.81	641.20
5583	486352052	5	684277	15566	GRANADA DR	71.74	7.17	14.20	93.10
5584	486352053	6	684277	15576	GRANADA DR	177.50	17.75	35.15	230.40
5585	486352059	2	684277	15615	GUAJOME RD	98.41	9.84	19.49	127.74
5586	486353002	3	684277	15605	CARMEL VERDE LN	368.08	36.81	72.88	477.76
5587	486353005	6	684277	15575	CARMEL VERDE LN	378.50	37.85	74.94	491.28
5588	486354001	5	684277	15555	CARMEL VERDE LN	279.10	27.91	55.26	362.26
5589	486354012	5	684277	25566	CATALEJO LN	142.88	14.29	28.29	185.46
5590	486361001	7	684277	15705	GUAJOME RD	372.88	37.29	73.83	484.00
5591	486361015	0	684277	25660	HORADO LN	378.50	37.85	74.94	491.28
5592	486363002	4	684277	25725	HORADO LN	372.73	37.27	73.80	483.80
5593	486363009	1	684277	25645	HORADO LN	101.98	10.20	20.19	132.36
5594	486363013	4	684277	25605	HORADO LN	369.92	36.99	73.24	480.14
5595	486363019	0	684277	15726	GRANADA DR	367.71	36.77	72.81	477.28
5596	486363021	1	684277	15746	GRANADA DR	282.65	28.27	55.97	366.88
5597	486363022	2	684277	15756	GRANADA DR	372.88	37.29	73.83	484.00

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Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
5598	486364022	5	684277	15685	GRANADA DR	128.71	12.87	25.48	167.06
5599	486364025	8	684277	15705	GRANADA DR	336.44	33.64	66.61	436.68
5600	486364029	2	684277	15706	CARMEL VERDE LN	34.54	3.45	6.84	44.82
5601	486364039	1	684277	25540	CASTAS CT	64.85	6.49	12.84	84.18
5602	486364041	2	684277	25545	FORTUNA DEL SUR DR	50.00	5.00	9.90	64.90
5603	486365007	5	684277	15675	CARMEL VERDE LN	80.10	8.01	15.86	103.96
5604	486365013	0	684277	15735	CARMEL VERDE LN	378.50	37.85	74.94	491.28
5605	486371004	1	684277	15645	ISLETA LN	385.23	38.52	76.28	500.02
5606	486372005	5	684277	15600	ISLETA LN	410.83	41.08	81.34	533.24
5607	486372010	9	684277	15645	LAS POSAS DR	318.20	31.82	63.00	413.02
5608	486372015	4	684277	15695	LAS POSAS DR	378.50	37.85	74.94	491.28
5609	486373003	6	684277	25780	HORADO LN	123.22	12.32	24.40	159.94
5610	486373017	9	684277	15665	LUCIA LN	493.99	49.40	97.81	641.20
5611	486373018	0	684277	15675	LUCIA LN	120.28	12.03	23.82	156.12
5612	486373022	3	684277	15680	NAVAJA CIR	302.11	30.21	59.82	392.14
5613	486373027	8	684277	15665	NAVAJA CIR	327.12	32.71	64.77	424.60
5614	486373028	9	684277	15675	NAVAJA CIR	246.20	24.62	48.75	319.56
5615	486374001	7	684277	25745	HORADO LN	102.25	10.23	20.25	132.72
5616	486374014	9	684277	25875	HORADO LN	371.41	37.14	73.54	482.08
5617	486374015	0	684277	25885	HORADO LN	372.88	37.29	73.83	484.00
5618	486374017	2	684277	25905	HORADO LN	508.47	50.85	100.68	660.00
5619	486381001	9	684277	25920	JUMANO DR	378.50	37.85	74.94	491.28
5620	486381006	4	684277	25870	JUMANO DR	372.88	37.29	73.83	484.00
5621	486381010	7	684277	25830	JUMANO DR	35.99	3.60	7.13	46.72
5622	486382008	9	684277	25950	JUMANO DR	276.68	27.67	54.78	359.12
5623	486382009	0	684277	25940	JUMANO DR	50.00	5.00	9.90	64.90
5624	486383002	6	684277	15590	JACARA LN	378.50	37.85	74.94	491.28
5625	486383004	8	684277	15570	JACARA LN	212.64	21.26	42.10	276.00
5626	486383008	2	684277	15530	JACARA LN	486.54	48.65	96.33	631.52

MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018

Column Totals	2,003,753.76	200,377.97	396,739.88	2,600,843.48
Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
5627	486383012	5	684277	15545	ISLETA LN	372.88	37.29	73.83	484.00
5628	486383015	8	684277	15575	ISLETA LN	362.95	36.30	71.87	471.12
5629	486383017	0	684277	15595	ISLETA LN	383.58	38.36	75.95	497.88
5630	486384027	2	684277	15555	LA ENTRADA DR	347.02	34.70	68.71	450.42
5631	486385003	3	684277	25935	JUMANO DR	372.88	37.29	73.83	484.00
5632	486385005	5	684277	25915	JUMANO DR	358.95	35.90	71.07	465.92
5633	486385011	0	684277	15580	LA ENTRADA DR	486.54	48.65	96.33	631.52
5634	486385013	2	684277	15575	NUECES CT	239.53	23.95	47.43	310.90
5635	486385017	6	684277	15560	NUECES CT	77.43	7.74	15.33	100.50
5636	486385018	7	684277	15570	NUECES CT	591.38	59.14	117.09	767.60
5637	486386001	4	684277	15590	ISLETA LN	145.00	14.50	28.71	188.20
5638	486386002	5	684277	15595	LAS POSAS DR	372.88	37.29	73.83	484.00
5639	486387010	5	684277	25935	LA BARCA RD	357.36	35.74	70.76	463.86
5640	486387014	9	684277	25975	LA BARCA RD	56.25	5.63	11.14	73.02
5641	486391002	1	684277	25645	PACATO RD	372.88	37.29	73.83	484.00
5642	486391008	7	684277	25705	PACATO RD	76.67	7.67	15.18	99.52
5643	486391012	0	684277	25674	PALO CEDRO DR	292.37	29.24	57.89	379.50
5644	486392003	5	684277	25669	LOS CABOS DR	89.43	8.94	17.71	116.08
5645	486392009	1	684277	25723	LOS CABOS DR	372.88	37.29	73.83	484.00
5646	486392019	0	684277	25668	PACATO RD	503.03	50.30	99.60	652.92
5647	486392024	4	684277	25718	PACATO RD	485.05	48.51	96.04	629.60
5648	486392028	8	684277	25754	PALO CEDRO DR	238.16	23.82	47.16	309.14
5649	486401003	2	684277	25536	LOS CABOS DR	351.71	35.17	69.64	456.52
5650	486401009	8	684277	25559	LOS CABOS DR	378.50	37.85	74.94	491.28
5651	486401014	2	684277	25609	LOS CABOS DR	162.86	16.29	32.25	211.40
5652	486401019	7	684277	25524	PACATO RD	176.35	17.64	34.92	228.90
5653	486401019	7	684277	25524	PACATO RD	176.35	17.64	34.92	228.90
5654	486401021	8	684277	25548	PACATO RD	385.23	38.52	76.28	500.02
5655	486401022	9	684277	25558	PACATO RD	365.76	36.58	72.42	474.76

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

Column Totals	2,003,753.76	200,377.97	396,739.88	2,600,843.48
Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
5656	486401029	6	684277	25628	PACATO RD	267.76	26.78	53.02	347.56
5657	486402004	6	684277	25551	PALO CEDRO DR	162.86	16.29	32.25	211.40
5658	486402009	1	684277	15895	ORO GLEN DR	372.88	37.29	73.83	484.00
5659	486402015	6	684277	15835	ORO GLEN DR	372.88	37.29	73.83	484.00
5660	486402018	9	684277	15805	ORO GLEN DR	372.88	37.29	73.83	484.00
5661	486403009	4	684277	15850	ORO GLEN DR	344.47	34.45	68.21	447.12
5662	486403010	4	684277	15840	ORO GLEN DR	372.88	37.29	73.83	484.00
5663	486403019	3	684277	15843	PADRE CT	311.34	31.13	61.64	404.10
5664	486412006	9	684277	15326	AGUILA PASS	384.48	38.45	76.13	499.06
5665	486413007	3	684277	15410	CABALLO RD	352.42	35.24	69.78	457.44
5666	486413013	8	684277	26211	BOGOSO LN	45.64	4.56	9.04	59.24
5667	486413016	1	684277	26181	BOGOSO LN	99.95	10.00	19.79	129.74
5668	486413017	2	684277	26171	BOGOSO LN	341.18	34.12	67.55	442.84
5669	486413024	8	684277	26130	BOGOSO LN	47.03	4.70	9.31	61.04
5670	486413027	1	684277	26160	BOGOSO LN	71.43	7.14	14.14	92.70
5671	486413029	3	684277	15355	CALLE CAMELIA	372.88	37.29	73.83	484.00
5672	486413034	7	684277	15315	CALLE CAMELIA	484.78	48.48	95.99	629.24
5673	486413038	1	684277	26181	CASA ENCANTADOR RD	352.92	35.29	69.88	458.08
5674	486414001	0	684277	15409	ALOSTA LN	213.27	21.33	42.23	276.82
5675	486414002	1	684277	15399	ALOSTA LN	372.88	37.29	73.83	484.00
5676	486414004	3	684277	15379	ALOSTA LN	197.02	19.70	39.01	255.72
5677	486415003	5	684277	26051	CASA ENCANTADOR RD	162.09	16.21	32.09	210.38
5678	486415009	1	684277	15361	CABALLO RD	108.16	10.82	21.42	140.40
5679	486415015	6	684277	26100	BALANCIN WAY	372.88	37.29	73.83	484.00
5680	486415020	0	684277	26050	BALANCIN WAY	186.52	18.65	36.93	242.10
5681	486416004	9	684277	15430	BRASA LN	385.23	38.52	76.28	500.02
5682	486417001	9	684277	15425	CABALLO RD	372.88	37.29	73.83	484.00
5683	486417006	4	684277	15410	BELLO WAY	312.97	31.30	61.97	406.24
5684	486417007	5	684277	15420	BELLO WAY	367.39	36.74	72.74	476.86

**MORENO VALLEY Tax Roll Listing 2019
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Column Totals	2,003,753.76	200,377.97	396,739.88	2,600,843.48
Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
5685	4864210012		684277	26401	CASA ENCANTADOR RD	479.69	47.97	94.98	622.64
5686	4864210078		684277	26341	CASA ENCANTADOR RD	486.54	48.65	96.33	631.52
5687	4864210090		684277	26321	CASA ENCANTADOR RD	328.44	32.84	65.03	426.30
5688	4864210144		684277	26290	CAMINO LARGO	367.08	36.71	72.68	476.46
5689	4864210166		684277	26310	CAMINO LARGO	372.88	37.29	73.83	484.00
5690	4864210188		684277	26330	CAMINO LARGO	282.16	28.22	55.87	366.24
5691	4864210209		684277	26350	CAMINO LARGO	454.19	45.42	89.93	589.54
5692	4864210298		684277	15362	ABAZO DR	321.68	32.17	63.69	417.54
5693	4864220037		684277	15385	ABAZO DR	372.88	37.29	73.83	484.00
5694	4864220114		684277	26341	CAMINO LARGO	137.91	13.79	27.31	179.00
5695	4864220224		684277	26231	CAMINO LARGO	71.43	7.14	14.14	92.70
5696	4864220280		684277	15346	CALLE CAMELIA	372.88	37.29	73.83	484.00
5697	4864220291		684277	26230	BOGOSO LN	372.88	37.29	73.83	484.00
5698	4864220301		684277	26240	BOGOSO LN	486.54	48.65	96.33	631.52
5699	4864220378		684277	26310	BOGOSO LN	372.88	37.29	73.83	484.00
5700	4864220433		684277	15404	CALLE ROSA RD	62.60	6.26	12.39	81.24
5701	4864230096		684277	26245	BOGOSO LN	76.77	7.68	15.20	99.64
5702	4864230128		684277	15410	CALLE CAMELIA	155.12	15.51	30.71	201.34
5703	4864230173		684277	15411	CALLE CASTANO	372.88	37.29	73.83	484.00
5704	4864310013		684277	15485	BRASA LN	378.50	37.85	74.94	491.28
5705	4864310057		684277	15445	BRASA LN	352.73	35.27	69.84	457.84
5706	4864310200		684277	15429	ALOSTA LN	372.38	37.24	73.73	483.34
5707	4864320126		684277	15480	BRASA LN	71.43	7.14	14.14	92.70
5708	4864350015		684277	15510	BRASA LN	125.16	12.52	24.78	162.46
5709	4864350125		684277	15550	AROBLES CT	372.88	37.29	73.83	484.00
5710	4864350169		684277	15519	AROBLES CT	131.43	13.14	26.02	170.58
5711	4864410014		684277	16215	ISLA MARIA CIR	378.50	37.85	74.94	491.28
5712	4864410179		684277	16140	ISLA MARIA CIR	345.82	34.58	68.47	448.86
5713	4864410223		684277	16190	ISLA MARIA CIR	326.74	32.67	64.69	424.10

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

Column Totals	2,003,753.76	200,377.97	396,739.88	2,600,843.48
Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
5714	486442004	0	684277	26121	CALLE AGUA	348.02	34.80	68.91	451.72
5715	486442005	1	684277	26111	CALLE AGUA	396.28	39.63	78.46	514.36
5716	486442008	4	684277	16200	ONDA CIR	468.36	46.84	92.74	607.94
5717	486442020	4	684277	16250	CALLE SERENA	372.88	37.29	73.83	484.00
5718	486442022	6	684277	26090	NUBLADO CIR	168.50	16.85	33.36	218.70
5719	486442024	8	684277	26110	NUBLADO CIR	221.62	22.16	43.88	287.66
5720	486442029	3	684277	16285	VIA ULTIMO	369.31	36.93	73.12	479.36
5721	486442035	8	684277	16225	VIA ULTIMO	372.88	37.29	73.83	484.00
5722	486442039	2	684277	16185	VIA ULTIMO	372.88	37.29	73.83	484.00
5723	486442042	4	684277	16155	VIA ULTIMO	30.00	3.00	5.94	38.94
5724	486443008	7	684277	16220	VIA ULTIMO	378.50	37.85	74.94	491.28
5725	486451007	1	684277	16155	GRANDE ISLA CIR	281.20	28.12	55.68	365.00
5726	486451013	6	684277	16100	GRANDE ISLA CIR	372.88	37.29	73.83	484.00
5727	486452007	4	684277	25931	CALLE AGUA	107.19	10.72	21.22	139.12
5728	486452008	5	684277	25921	CALLE AGUA	372.88	37.29	73.83	484.00
5729	486452011	7	684277	16275	GRANDE ISLA CIR	76.43	7.64	15.13	99.20
5730	486452012	8	684277	16265	GRANDE ISLA CIR	152.55	15.26	30.21	198.02
5731	486452019	5	684277	25880	CALLE FUEGO	378.50	37.85	74.94	491.28
5732	486452029	4	684277	16260	GRANDE ISLA CIR	149.28	14.93	29.56	193.76
5733	486453003	3	684277	16302	CALLE SERENA	336.98	33.70	66.72	437.40
5734	486454003	6	684277	25921	CALLE FUEGO	71.43	7.14	14.14	92.70
5735	486454005	8	684277	25901	CALLE FUEGO	372.88	37.29	73.83	484.00
5736	486461006	1	684277	16350	SABINA CT	71.43	7.14	14.14	92.70
5737	486461008	3	684277	25680	CALLE AGUA	378.50	37.85	74.94	491.28
5738	486461016	0	684277	25760	CALLE AGUA	318.20	31.82	63.00	413.02
5739	486461020	3	684277	25800	CALLE AGUA	378.50	37.85	74.94	491.28
5740	486462004	2	684277	16275	CALLE AURORA	600.44	60.04	118.89	779.36
5741	486462011	8	684277	16270	ALMANOR CT	503.33	50.33	99.66	653.32
5742	486462011	8	684277	16270	ALMANOR CT	503.33	50.33	99.66	653.32

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Customers with Invoice Item Dates in 2018**

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
5743	486462012	9	684277	16280	ALMANOR CT	372.88	37.29	73.83	484.00
5744	486462015	2	684277	25771	CALLE AGUA	379.17	37.92	75.08	492.16
5745	486462019	6	684277	25731	CALLE AGUA	378.50	37.85	74.94	491.28
5746	486463006	7	684277	16295	VIA IMPRESSO	370.28	37.03	73.32	480.62
5747	486464007	1	684277	25791	VIA KANNELA	336.57	33.66	66.64	436.86
5748	486464010	3	684277	25761	VIA KANNELA	294.44	29.44	58.30	382.18
5749	486464012	5	684277	25741	VIA KANNELA	56.73	5.67	11.23	73.62
5750	486464013	6	684277	25731	VIA KANNELA	360.88	36.09	71.45	468.42
5751	486464017	0	684277	25691	VIA KANNELA	495.32	49.53	98.07	642.92
5752	486470004	7	684277	16116	VIA ULTIMO	476.34	47.63	94.31	618.28
5753	486470006	9	684277	16100	VIA ULTIMO	172.88	17.29	34.23	224.40
5754	486470019	1	684277	16015	PALOMINO LN	372.88	37.29	73.83	484.00
5755	486470025	6	684277	16051	PALOMINO LN	238.16	23.82	47.16	309.14
5756	486470027	8	684277	16063	PALOMINO LN	160.40	16.04	31.76	208.20
5757	486470037	7	684277	16123	PALOMINO LN	467.83	46.78	92.63	607.24
5758	486471005	1	684277	26110	CALLE AGUA	101.46	10.15	20.09	131.70
5759	486471006	2	684277	16138	PALOMINO LN	228.45	22.85	45.23	296.52
5760	486471025	9	684277	16040	PALOMINO LN	372.88	37.29	73.83	484.00
5761	486471034	7	684277	16117	VIA ULTIMO	321.20	32.12	63.60	416.92
5762	486480005	9	684277	16050	EDGEWATER LN	372.88	37.29	73.83	484.00
5763	486480015	8	684277	16088	PENINSULA CT	191.68	19.17	37.95	248.80
5764	486480018	1	684277	16085	PENINSULA CT	372.88	37.29	73.83	484.00
5765	486480039	0	684277	25977	SOARING SEAGULL LN	348.42	34.84	68.99	452.24
5766	486480045	5	684277	16018	PELICAN LN	136.68	13.67	27.06	177.40
5767	486482001	1	684277	25879	SHORELINE ST	155.12	15.51	30.71	201.34
5768	486482006	6	684277	25829	SHORELINE ST	369.67	36.97	73.20	479.84
5769	486490011	5	684277	14699	ROUND LEAF RD	155.12	15.51	30.71	201.34
5770	486490015	9	684277	14651	ROUND LEAF RD	486.54	48.65	96.33	631.52
5771	486490017	1	684277	14668	ROUND LEAF RD	163.83	16.38	32.44	212.64

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
5772	486490024	7	684277	27132	BIG HORN AVE	378.50	37.85	74.94	491.28
5773	486491001	9	684277	27217	BARK LN	372.88	37.29	73.83	484.00
5774	486491002	0	684277	27203	BARK LN	289.70	28.97	57.36	376.02
5775	486492007	8	684277	27169	BIG HORN AVE	385.23	38.52	76.28	500.02
5776	486492008	9	684277	27155	BIG HORN AVE	346.60	34.66	68.63	449.88
5777	486492019	9	684277	27084	DELPHINIUM AVE	109.77	10.98	21.74	142.48
5778	486492029	8	684277	27224	DELPHINIUM AVE	396.84	39.68	78.57	515.08
5779	486492029	8	684277	27224	DELPHINIUM AVE	396.84	39.68	78.57	515.08
5780	486493002	6	684277	14636	SALT RIVER WAY	372.88	37.29	73.83	484.00
5781	486493005	9	684277	14672	SALT RIVER WAY	313.75	31.38	62.12	407.24
5782	486500006	1	684277	27280	DELPHINIUM AVE	372.88	37.29	73.83	484.00
5783	486500008	3	684277	27308	DELPHINIUM AVE	88.16	8.82	17.46	114.44
5784	486501002	0	684277	14661	RED GUM ST	378.50	37.85	74.94	491.28
5785	486503012	5	684277	14651	WILLOW LEAF RD	486.54	48.65	96.33	631.52
5786	486503014	7	684277	14627	WILLOW LEAF RD	247.03	24.70	48.91	320.64
5787	486503017	0	684277	27443	BIG HORN AVE	321.68	32.17	63.69	417.54
5788	486503024	6	684277	27357	BIG HORN AVE	378.50	37.85	74.94	491.28
5789	486504001	8	684277	14674	RED GUM ST	126.15	12.62	24.98	163.74
5790	486504017	3	684277	27366	BIG HORN AVE	378.50	37.85	74.94	491.28
5791	486510007	3	684277	27342	HONEY SCENTED RD	71.59	7.16	14.18	92.92
5792	486510013	8	684277	27261	WILLOW LEAF RD	27.79	2.78	5.50	36.06
5793	486511006	5	684277	27468	AROMATIC CT	80.12	8.01	15.86	103.98
5794	486512004	6	684277	14561	WILLOW LEAF RD	372.88	37.29	73.83	484.00
5795	486512009	1	684277	27383	WILLOW LEAF RD	372.88	37.29	73.83	484.00
5796	486512012	3	684277	27384	HONEY SCENTED RD	372.88	37.29	73.83	484.00
5797	486512015	6	684277	27430	HONEY SCENTED RD	272.22	27.22	53.90	353.34
5798	486513002	7	684277	27313	HONEY SCENTED RD	107.57	10.76	21.30	139.62
5799	486513009	4	684277	27423	HONEY SCENTED RD	372.88	37.29	73.83	484.00
5800	486520005	2	684277	27406	PEPPERMINT ST	378.50	37.85	74.94	491.28

**MORENO VALLEY Tax Roll Listing 2019
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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
5801	486520006	3	684277	27418	PEPPERMINT ST	348.18	34.82	68.94	451.94
5802	486522001	4	684277	14822	WHITE BOX LN	372.88	37.29	73.83	484.00
5803	486522003	6	684277	14846	WHITE BOX LN	367.15	36.72	72.70	476.56
5804	486522004	7	684277	14858	WHITE BOX LN	252.24	25.22	49.94	327.40
5805	486523009	5	684277	14823	WHITE BOX LN	378.50	37.85	74.94	491.28
5806	486523020	4	684277	27408	SHIMMER CT	486.54	48.65	96.33	631.52
5807	486540005	4	684277	14319	LONDON RD	274.15	27.42	54.28	355.84
5808	486541007	9	684277	14366	LONDON RD	372.88	37.29	73.83	484.00
5809	486542013	7	684277	27759	BRODIAEA AVE	319.94	31.99	63.35	415.28
5810	486542028	1	684277	27842	SAND DOLLAR WAY	98.09	9.81	19.42	127.32
5811	486550001	1	684277	14389	LONDON RD	372.88	37.29	73.83	484.00
5812	486550002	2	684277	14403	LONDON RD	339.94	33.99	67.31	441.24
5813	486551004	7	684277	27729	DOVER DR	321.68	32.17	63.69	417.54
5814	486551007	0	684277	27771	DOVER DR	181.43	18.14	35.92	235.48
5815	486551010	2	684277	27813	DOVER DR	372.88	37.29	73.83	484.00
5816	486552005	1	684277	14442	DUSTY COYOTE AVE	372.88	37.29	73.83	484.00
5817	486552008	4	684277	14400	DUSTY COYOTE AVE	372.88	37.29	73.83	484.00
5818	486552015	0	684277	14409	LEEWARD WAY	224.71	22.47	44.49	291.66
5819	486552020	4	684277	27764	DOVER DR	372.88	37.29	73.83	484.00
5820	486552027	1	684277	14436	LONDON RD	156.37	15.64	30.96	202.96
5821	486552030	3	684277	27735	CONCH LN	335.28	33.53	66.39	435.20
5822	486552032	5	684277	14434	TRADEWINDS PL	299.83	29.98	59.37	389.18
5823	486552034	7	684277	14406	TRADEWINDS PL	486.54	48.65	96.33	631.52
5824	486553002	1	684277	14449	DUSTY COYOTE AVE	201.56	20.16	39.91	261.62
5825	486553004	3	684277	14421	DUSTY COYOTE AVE	363.07	36.31	71.89	471.26
5826	487010002	0	684277	12109	LEIF ERICSON DR	372.88	37.29	73.83	484.00
5827	487010005	3	684277	12145	LEIF ERICSON DR	372.88	37.29	73.83	484.00
5828	487013010	6	684277	12210	LEIF ERICSON DR	477.72	47.77	94.59	620.08
5829	487013016	2	684277	12205	CHAMPLAIN ST	366.14	36.61	72.50	475.24

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

Column Totals	2,003,753.76	200,377.97	396,739.88	2,600,843.48
Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
5830	487014006	6	684277	12230	CHAMPLAIN ST	477.72	47.77	94.59	620.08
5831	487014007	7	684277	12240	CHAMPLAIN ST	71.43	7.14	14.14	92.70
5832	487014009	9	684277	12262	CHAMPLAIN ST	71.44	7.14	14.14	92.72
5833	487014013	2	684277	12247	PONCE DE LEON DR	378.50	37.85	74.94	491.28
5834	487014016	5	684277	12215	PONCE DE LEON DR	250.56	25.06	49.61	325.22
5835	487015007	0	684277	12210	BALTIMORE AVE	372.88	37.29	73.83	484.00
5836	487015010	2	684277	12273	CHAMPLAIN ST	350.92	35.09	69.48	455.48
5837	487021001	3	684277	25705	ELDER AVE	372.88	37.29	73.83	484.00
5838	487022006	1	684277	12358	BALTIMORE AVE	372.88	37.29	73.83	484.00
5839	487023007	5	684277	12371	EYRE CT	372.88	37.29	73.83	484.00
5840	487023015	2	684277	12380	EYRE CT	336.20	33.62	66.57	436.38
5841	487023020	6	684277	12363	CHAMPLAIN ST	175.63	17.56	34.77	227.96
5842	487023021	7	684277	12349	CHAMPLAIN ST	105.54	10.55	20.90	136.98
5843	487030002	2	684277	26050	SCOTT VICTOR CIR	500.88	50.09	99.17	650.14
5844	487030009	9	684277	26017	SCOTT VICTOR CIR	252.64	25.26	50.02	327.92
5845	487030013	2	684277	26058	ELIOT AVE	488.54	48.85	96.73	634.12
5846	487031004	7	684277	26031	ELIOT AVE	372.88	37.29	73.83	484.00
5847	487031005	8	684277	26039	ELIOT AVE	372.88	37.29	73.83	484.00
5848	487031006	9	684277	26047	ELIOT AVE	115.67	11.57	22.90	150.14
5849	487040006	7	684277	12214	PONCE DE LEON DR	346.02	34.60	68.51	449.12
5850	487040017	7	684277	12165	LASSELLE ST	372.78	37.28	73.81	483.86
5851	487041001	5	684277	12140	LASSELLE ST	378.50	37.85	74.94	491.28
5852	487041007	1	684277	26046	PINZON CT	378.50	37.85	74.94	491.28
5853	487041009	3	684277	26070	PINZON CT	276.18	27.62	54.68	358.48
5854	487041014	7	684277	26027	PINZON CT	246.12	24.61	48.73	319.46
5855	487041022	4	684277	26070	BRIDGER ST	238.59	23.86	47.24	309.68
5856	487041026	8	684277	26091	BRIDGER ST	46.49	4.65	9.21	60.34
5857	487041027	9	684277	26081	BRIDGER ST	413.92	41.39	81.96	537.26
5858	487041032	3	684277	26031	BRIDGER ST	378.50	37.85	74.94	491.28

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
5859	487041040	0	684277	26090	CORONADA DR	378.50	37.85	74.94	491.28
5860	487042016	2	684277	12348	BREWSTER DR	599.86	59.99	118.77	778.62
5861	487043001	1	684277	12351	BREWSTER DR	281.34	28.13	55.70	365.16
5862	487043002	2	684277	12339	BREWSTER DR	473.02	47.30	93.66	613.98
5863	487043009	9	684277	12268	LASSELLE ST	493.99	49.40	97.81	641.20
5864	487043010	9	684277	12280	LASSELLE ST	138.50	13.85	27.42	179.76
5865	487044006	9	684277	12267	LASSELLE ST	378.50	37.85	74.94	491.28
5866	487044007	0	684277	12255	LASSELLE ST	378.50	37.85	74.94	491.28
5867	487044008	1	684277	12243	LASSELLE ST	486.54	48.65	96.33	631.52
5868	487050015	6	684277	12350	MARQUETTE CT	372.88	37.29	73.83	484.00
5869	487050019	0	684277	12390	MARQUETTE CT	490.69	49.07	97.16	636.92
5870	487050020	0	684277	12381	LASSELLE ST	372.88	37.29	73.83	484.00
5871	487050023	3	684277	12351	LASSELLE ST	372.88	37.29	73.83	484.00
5872	487050024	4	684277	12339	LASSELLE ST	208.98	20.90	41.38	271.26
5873	487051008	3	684277	12409	BREWSTER DR	72.75	7.28	14.41	94.44
5874	487053004	5	684277	26143	ELDER AVE	378.50	37.85	74.94	491.28
5875	487053006	7	684277	26119	ELDER AVE	369.13	36.91	73.09	479.12
5876	487053006	7	684277	26119	ELDER AVE	369.13	36.91	73.09	479.12
5877	487053009	0	684277	26083	ELDER AVE	176.38	17.64	34.92	228.94
5878	487060003	6	684277	12051	MORRISON ST	112.23	11.22	22.22	145.66
5879	487060007	0	684277	12041	MORRISON ST	473.14	47.31	93.68	614.12
5880	487072012	1	684277	26240	TASMAN ST	304.88	30.49	60.37	395.74
5881	487073003	6	684277	26219	TASMAN ST	372.88	37.29	73.83	484.00
5882	487073004	7	684277	26229	TASMAN ST	378.50	37.85	74.94	491.28
5883	487073009	2	684277	26290	PARTON CT	225.00	22.50	44.55	292.04
5884	487073010	2	684277	26280	PARTON CT	481.30	48.13	95.30	624.72
5885	487073013	5	684277	26259	PARTON CT	486.54	48.65	96.33	631.52
5886	487073016	8	684277	26279	PARTON CT	378.50	37.85	74.94	491.28
5887	487073023	4	684277	12314	VALERIE CT	378.50	37.85	74.94	491.28

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
5888	487073024	5	684277	12313	VALERIE CT	378.50	37.85	74.94	491.28
5889	487073026	7	684277	12333	VALERIE CT	378.50	37.85	74.94	491.28
5890	487073028	9	684277	12318	WOODBRIAR DR	76.67	7.67	15.18	99.52
5891	487074002	8	684277	26211	LEAFWOOD DR	486.54	48.65	96.33	631.52
5892	487074005	1	684277	26249	LEAFWOOD DR	147.51	14.75	29.21	191.46
5893	487080004	9	684277	26126	ELDER AVE	160.12	16.01	31.70	207.82
5894	487090002	8	684277	11990	VISTA DE CERROS DR	50.40	5.04	9.98	65.42
5895	487091004	3	684277	12031	VISTA DE CERROS DR	273.95	27.40	54.24	355.58
5896	487091005	4	684277	12045	VISTA DE CERROS DR	251.17	25.12	49.73	326.02
5897	487091007	6	684277	12075	VISTA DE CERROS DR	81.20	8.12	16.08	105.40
5898	487100001	7	684277	12049	CASA LINDA CT	548.56	54.86	108.62	712.04
5899	487100001	7	684277	12049	CASA LINDA PL	548.56	54.86	108.62	712.04
5900	487101001	0	684277	26310	TASMAN ST	493.99	49.40	97.81	641.20
5901	487103001	6	684277	26419	SHERWOOD CIR	202.10	20.21	40.02	262.32
5902	487103008	3	684277	12236	VIA DE PALMAS	155.12	15.51	30.71	201.34
5903	487103010	4	684277	12212	VIA DE PALMAS DR	57.58	5.76	11.40	74.74
5904	487103012	6	684277	26380	SHERWOOD CIR	372.88	37.29	73.83	484.00
5905	487103017	1	684277	26419	OLYMPUS CT	352.84	35.28	69.86	457.98
5906	487111008	8	684277	26420	HOPE CIR	92.01	9.20	18.22	119.42
5907	487110220	0	684277	12375	SANDRIA AVE	487.79	48.78	96.58	633.14
5908	487112007	0	684277	12360	SANDRIA AVE	486.54	48.65	96.33	631.52
5909	487112008	1	684277	26430	HELENE DR	233.55	23.36	46.24	303.14
5910	487120002	0	684277	26315	ELDER AVE	364.90	36.49	72.25	473.64
5911	487120006	4	684277	26375	ELDER AVE	141.98	14.20	28.11	184.28
5912	487121007	8	684277	12379	VIA DE PALMAS	477.72	47.77	94.59	620.08
5913	487131007	9	684277	12250	SANDRIA AVE	372.88	37.29	73.83	484.00
5914	487131016	7	684277	12189	MORRISON ST	372.88	37.29	73.83	484.00
5915	487140015	4	684277	12205	CALLE DE JIMENEZ	372.88	37.29	73.83	484.00
5916	487140021	9	684277	26256	HEMLOCK AVE	459.25	45.93	90.93	596.10

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
5917	487180003	7	684277	12320	MORRISON ST	62.96	6.30	12.47	81.72
5918	487180005	9	684277	12360	MORRISON ST	630.48	63.05	124.84	818.36
5919	487180016	9	684277	12405	ELF OWL LN	378.50	37.85	74.94	491.28
5920	487181001	8	684277	12274	ELF OWL LN	485.05	48.51	96.04	629.60
5921	487182011	0	684277	12470	SAGE GROUSE LN	158.99	15.90	31.48	206.36
5922	487182014	3	684277	12429	FOXHOUND CIR	106.68	10.67	21.12	138.46
5923	487182023	1	684277	12411	FALCON LN	341.20	34.12	67.56	442.88
5924	487183005	8	684277	12380	FALCON LN	385.23	38.52	76.28	500.02
5925	487183007	0	684277	12320	FALCON LN	477.72	47.77	94.59	620.08
5926	487183012	4	684277	12383	CHUKAR LN	372.88	37.29	73.83	484.00
5927	487183013	5	684277	12403	CHUKAR LN	372.88	37.29	73.83	484.00
5928	487183014	6	684277	12433	CHUKAR LN	103.16	10.32	20.43	133.90
5929	487184002	8	684277	12290	CHUKAR LN	272.88	27.29	54.03	354.20
5930	487184004	0	684277	12330	CHUKAR LN	673.27	67.33	133.31	873.90
5931	487184019	4	684277	26901	PRAIRIE DOG LN	158.99	15.90	31.48	206.36
5932	487184028	2	684277	12493	WOLVERINE CIR	508.47	50.85	100.68	660.00
5933	487184033	6	684277	12410	WOLVERINE CIR	558.81	55.88	110.64	725.32
5934	487190006	1	684277	12672	ATHERTON DR	214.88	21.49	42.55	278.92
5935	487190007	2	684277	12658	ATHERTON DR	364.51	36.45	72.17	473.12
5936	487191003	1	684277	26100	PRIMROSE WAY	205.54	20.55	40.70	266.78
5937	487191007	5	684277	12591	ATHERTON DR	71.43	7.14	14.14	92.70
5938	487191017	4	684277	12542	MULBERRY LN	415.62	41.56	82.29	539.46
5939	487193002	6	684277	12571	MULBERRY LN	266.43	26.64	52.75	345.82
5940	487193007	1	684277	12641	MULBERRY LN	355.46	35.55	70.38	461.38
5941	487193025	7	684277	12594	LASSELLE ST	321.68	32.17	63.69	417.54
5942	487200003	8	684277	12715	TWIN BERRY DR	76.43	7.64	15.13	99.20
5943	487202006	7	684277	12590	TWIN BERRY DR	372.88	37.29	73.83	484.00
5944	487202012	2	684277	12674	TWINBERRY DR	379.64	37.96	75.17	492.76
5945	487202015	5	684277	12677	CANDLEWOOD LN	382.86	38.29	75.81	496.96

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Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
5946	487202017	7	684277	12649	CANDLEWOOD LN	371.50	37.15	73.56	482.20
5947	487202025	4	684277	26228	CHESTNUT DR	338.32	33.83	66.99	439.14
5948	487202027	6	684277	26239	PRIMROSE WAY	364.12	36.41	72.10	472.62
5949	487203003	7	684277	12648	CANDLEWOOD LN	372.88	37.29	73.83	484.00
5950	487203008	2	684277	12629	BELLFLOWER LN	76.43	7.64	15.13	99.20
5951	487204012	8	684277	26222	FIR AVE	321.68	32.17	63.69	417.54
5952	487212001	3	684277	26340	CHESTNUT DR	372.88	37.29	73.83	484.00
5953	487213005	0	684277	26288	PRIMROSE WAY	372.88	37.29	73.83	484.00
5954	487213009	4	684277	26358	PRIMROSE WAY	378.50	37.85	74.94	491.28
5955	487215011	1	684277	12602	BARBAZON DR	600.50	60.05	118.90	779.44
5956	487221012	1	684277	26491	PRIMROSE WAY	476.28	47.63	94.30	618.20
5957	487222009	2	684277	26414	PRIMROSE WAY	341.69	34.17	67.65	443.50
5958	487230002	0	684277	26576	FIR AVE	385.23	38.52	76.28	500.02
5959	487230023	9	684277	12601	MAGNOLIA DR	50.00	5.00	9.90	64.90
5960	487230025	1	684277	12621	MAGNOLIA DR	178.50	17.85	35.34	231.68
5961	487231006	7	684277	12613	TORREY PINE RD	45.43	4.54	8.99	58.96
5962	487232002	6	684277	26518	PRIMROSE WAY	353.86	35.39	70.07	459.32
5963	487232008	2	684277	26578	PRIMROSE WAY	372.88	37.29	73.83	484.00
5964	487241002	4	684277	12604	TORREY PINE RD	278.50	27.85	55.14	361.48
5965	487241009	1	684277	12675	WILLOWBROOK LN	493.99	49.40	97.81	641.20
5966	487242004	9	684277	12588	WILLOWBROOK LN	203.61	20.36	40.31	264.28
5967	487242011	5	684277	12603	SPRUCE HILL RD	372.78	37.28	73.81	483.86
5968	487243002	0	684277	12638	WILLOWBROOK LN	372.88	37.29	73.83	484.00
5969	487243006	4	684277	12678	WILLOWBROOK LN	378.50	37.85	74.94	491.28
5970	487243014	1	684277	26716	FIR AVE	372.88	37.29	73.83	484.00
5971	487243019	6	684277	12663	SPRUCE HILL RD	61.43	6.14	12.16	79.72
5972	487243020	6	684277	12675	SPRUCE HILL RD	321.68	32.17	63.69	417.54
5973	487243026	2	684277	26723	BUCKEYE TERRACE	426.41	42.64	84.43	553.48
5974	487243026	2	684277	26723	BUCKEYE TER	426.41	42.64	84.43	553.48

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Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
5975	487250012	1	684277	26886	TWIN HILLS CIR	250.46	25.05	49.59	325.10
5976	487270008	0	684277	12950	LASSELLE ST	378.50	37.85	74.94	491.28
5977	487270041	9	684277	12960	SAMPLE CT	53.96	5.40	10.68	70.04
5978	487271008	3	684277	26011	BANTA PL	306.20	30.62	60.63	397.44
5979	487280001	4	684277	26131	FIR AVE	347.50	34.75	68.81	451.06
5980	487280012	4	684277	26150	LE MANS DR	385.23	38.52	76.28	500.02
5981	487280018	0	684277	12835	MONTECELLO DR	372.88	37.29	73.83	484.00
5982	487280022	3	684277	12875	MONTECELLO DR	372.88	37.29	73.83	484.00
5983	487280025	6	684277	12905	MONTECELLO DR	110.25	11.03	21.83	143.10
5984	487280028	9	684277	12935	MONTECELLO DR	71.43	7.14	14.14	92.70
5985	487280032	2	684277	12975	MONTECELLO DR	155.12	15.51	30.71	201.34
5986	487281001	7	684277	26211	FIR AVE	142.86	14.29	28.29	185.44
5987	487281004	0	684277	26241	FIR AVE	335.20	33.52	66.37	435.08
5988	487281005	1	684277	26251	FIR AVE	70.83	7.08	14.02	91.92
5989	487283003	5	684277	12920	MONTECELLO DR	71.43	7.14	14.14	92.70
5990	487283008	0	684277	12870	MONTECELLO DR	378.50	37.85	74.94	491.28
5991	487283015	6	684277	12800	MONTECELLO DR	240.77	24.08	47.67	312.52
5992	487283035	4	684277	12909	ORLEANS DR	372.88	37.29	73.83	484.00
5993	487284006	1	684277	12890	ORLEANS DR	378.50	37.85	74.94	491.28
5994	487284008	3	684277	12870	ORLEANS DR	378.50	37.85	74.94	491.28
5995	487290003	7	684277	26315	FIR AVE	155.38	15.54	30.77	201.68
5996	487290007	1	684277	26340	LE MANS DR	264.44	26.44	52.36	343.24
5997	487290010	3	684277	26310	LE MANS DR	189.77	18.98	37.58	246.32
5998	487290011	4	684277	26300	LE MANS DR	372.68	37.27	73.79	483.74
5999	487291001	8	684277	12809	FONTAINEBLEAU DR	87.26	8.73	17.28	113.26
6000	487291004	1	684277	12839	FONTAINEBLEAU DR	79.56	7.96	15.75	103.26
6001	487292003	3	684277	12930	FONTAINEBLEAU DR	371.41	37.14	73.54	482.08
6002	487292006	6	684277	12900	FONTAINEBLEAU DR	486.54	48.65	96.33	631.52
6003	487292012	1	684277	12840	FONTAINEBLEAU DR	370.19	37.02	73.30	480.50

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Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
6004	487292017	6	684277	12819	BARBAZON DR	372.88	37.29	73.83	484.00
6005	487292026	4	684277	12909	BARBAZON DR	579.10	57.91	114.66	751.66
6006	487293007	0	684277	26295	PERRIER DR	415.62	41.56	82.29	539.46
6007	487294002	8	684277	12970	BARBAZON DR	227.94	22.79	45.13	295.86
6008	487294029	3	684277	12850	BARBAZON DR	375.58	37.56	74.37	487.50
6009	487294034	7	684277	12800	BARBAZON DR	102.24	10.22	20.24	132.70
6010	487300001	5	684277	26440	MAPLERIDGE WAY	167.88	16.79	33.24	217.90
6011	487300002	6	684277	26450	MAPLERIDGE WAY	372.88	37.29	73.83	484.00
6012	487302004	4	684277	26465	MAPLERIDGE WAY	493.99	49.40	97.81	641.20
6013	487302007	7	684277	26435	MAPLERIDGE WAY	621.04	62.10	122.97	806.10
6014	487302021	9	684277	26435	HAZELCREST CT	244.36	24.44	48.38	317.18
6015	487303001	4	684277	26500	COCONUT LN	366.38	36.64	72.54	475.56
6016	487303002	5	684277	26490	COCONUT LN	76.43	7.64	15.13	99.20
6017	487303004	7	684277	26470	COCONUT LN	600.44	60.04	118.89	779.36
6018	487303007	0	684277	26440	COCONUT LN	378.50	37.85	74.94	491.28
6019	487303009	2	684277	26445	WILLOWDALE CT	372.88	37.29	73.83	484.00
6020	487303012	4	684277	26475	WILLOWDALE CT	495.63	49.56	98.13	643.32
6021	487303016	8	684277	26490	WILLOWDALE CT	365.77	36.58	72.42	474.76
6022	487303017	9	684277	26480	WILLOWDALE CT	42.86	4.29	8.49	55.64
6023	487303020	1	684277	26450	WILLOWDALE CT	357.79	35.78	70.84	464.40
6024	487304001	7	684277	12765	ELMHURST DR	202.77	20.28	40.15	263.20
6025	487304001	7	684277	12765	ELMHURST DR	202.77	20.28	40.15	263.20
6026	487304011	6	684277	26435	COCONUT LN	459.95	46.00	91.07	597.02
6027	487304014	9	684277	26465	COCONUT LN	372.88	37.29	73.83	484.00
6028	487310005	0	684277	12909	GOLDEN LANTERN DR	187.93	18.79	37.21	243.92
6029	487310006	1	684277	12893	GOLDEN LANTERN DR	342.64	34.26	67.84	444.74
6030	487310009	4	684277	26422	ALDERTREE CT	94.83	9.48	18.78	123.08
6031	487310017	1	684277	26481	ALDERTREE CT	479.74	47.97	94.99	622.70
6032	487310017	1	684277	26481	ALDERTREE CT	479.74	47.97	94.99	622.70

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

Column Totals	2,003,753.76	200,377.97	396,739.88	2,600,843.48
Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
6033	487310020	3	684277	26445	ALDERTREE CT	356.09	35.61	70.51	462.20
6034	487310021	4	684277	26433	ALDERTREE CT	372.88	37.29	73.83	484.00
6035	487310023	6	684277	26444	SAND PALM CT	70.68	7.07	14.00	91.74
6036	487310030	2	684277	26467	SAND PALM CT	378.50	37.85	74.94	491.28
6037	487310032	4	684277	26443	SAND PALM CT	200.62	20.06	39.72	260.40
6038	487310033	5	684277	26431	SAND PALM CT	351.46	35.15	69.59	456.20
6039	487321014	2	684277	12940	SHAWNEE ST	347.50	34.75	68.81	451.06
6040	487330009	6	684277	12787	AZALEA ST	334.14	33.41	66.16	433.70
6041	487331004	4	684277	26840	CLAYSTONE DR	356.50	35.65	70.59	462.74
6042	487332010	2	684277	12830	AZALEA ST	94.65	9.47	18.74	122.86
6043	487332012	4	684277	26828	SUGARCANE DR	377.98	37.80	74.84	490.62
6044	487340016	3	684277	26677	AZALEA ST	321.68	32.17	63.69	417.54
6045	487341001	2	684277	26592	AZALEA ST	385.23	38.52	76.28	500.02
6046	487341009	0	684277	26704	AZALEA ST	298.42	29.84	59.09	387.34
6047	487351003	5	684277	13089	MOHICAN DR	352.48	35.25	69.79	457.52
6048	487351016	7	684277	26054	BILOXI DR	372.88	37.29	73.83	484.00
6049	487351018	9	684277	26070	BILOXI DR	378.50	37.85	74.94	491.28
6050	487351021	1	684277	26094	BILOXI DR	385.23	38.52	76.28	500.02
6051	487352001	6	684277	13030	MOHICAN DR	71.43	7.14	14.14	92.70
6052	487352008	3	684277	13100	MOHICAN DR	49.09	4.91	9.72	63.72
6053	487352013	7	684277	13150	MOHICAN DR	76.43	7.64	15.13	99.20
6054	487352014	8	684277	13160	MOHICAN DR	378.50	37.85	74.94	491.28
6055	487352017	1	684277	13190	MOHICAN DR	372.88	37.29	73.83	484.00
6056	487352024	7	684277	13171	EYOTA DR	378.50	37.85	74.94	491.28
6057	487352037	9	684277	13061	EYOTA DR	294.42	29.44	58.29	382.14
6058	487352039	1	684277	13041	EYOTA DR	348.73	34.87	69.05	452.64
6059	487352040	1	684277	13031	EYOTA DR	486.54	48.65	96.33	631.52
6060	487353001	9	684277	13032	EYOTA DR	372.88	37.29	73.83	484.00
6061	487353008	6	684277	13102	EYOTA DR	247.61	24.76	49.03	321.40

**MORENO VALLEY Tax Roll Listing 2019
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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
6062	487353010	7	684277	13122	EYOTA DR	372.88	37.29	73.83	484.00
6063	487353017	4	684277	13192	EYOTA DR	486.54	48.65	96.33	631.52
6064	487354002	3	684277	26103	OSHUA DR	431.54	43.15	85.44	560.12
6065	487360009	9	684277	13052	PAWNEE DR	378.50	37.85	74.94	491.28
6066	487360013	2	684277	13031	TETON CT	579.10	57.91	114.66	751.66
6067	487360018	7	684277	13016	TETON CT	378.50	37.85	74.94	491.28
6068	487360023	1	684277	13056	TETON CT	58.87	5.89	11.66	76.42
6069	487360026	4	684277	13080	TETON CT	378.50	37.85	74.94	491.28
6070	487360026	4	684277	13080	TETON CT	378.50	37.85	74.94	491.28
6071	487360033	0	684277	13195	WICHITA WAY	97.25	9.73	19.26	126.24
6072	487360042	8	684277	13071	WICHITA WAY	385.23	38.52	76.28	500.02
6073	487360043	9	684277	13061	WICHITA WAY	378.50	37.85	74.94	491.28
6074	487360048	4	684277	13011	WICHITA WAY	486.54	48.65	96.33	631.52
6075	487361002	5	684277	13020	WICHITA WAY	372.88	37.29	73.83	484.00
6076	487361012	4	684277	13120	WICHITA WAY	724.26	72.43	143.40	940.08
6077	487361015	7	684277	13150	WICHITA WAY	299.14	29.91	59.23	388.28
6078	487361019	1	684277	13270	WICHITA WAY	372.88	37.29	73.83	484.00
6079	487361020	1	684277	13148	PAWNEE DR	378.50	37.85	74.94	491.28
6080	487361026	7	684277	13208	PAWNEE DR	378.50	37.85	74.94	491.28
6081	487361030	0	684277	13169	POCONO CT	378.50	37.85	74.94	491.28
6082	487361031	1	684277	13159	POCONO CT	378.50	37.85	74.94	491.28
6083	487361036	6	684277	13136	POCONO CT	385.23	38.52	76.28	500.02
6084	487361038	8	684277	13156	POCONO CT	378.50	37.85	74.94	491.28
6085	487361040	9	684277	13176	POCONO CT	378.50	37.85	74.94	491.28
6086	487361041	0	684277	13186	POCONO CT	372.88	37.29	73.83	484.00
6087	487361041	0	684277	13186	POCONO CT	372.88	37.29	73.83	484.00
6088	487361042	1	684277	13196	POCONO CT	196.49	19.65	38.91	255.04
6089	487361051	9	684277	26195	OSHUA DR	372.88	37.29	73.83	484.00
6090	487361058	6	684277	26114	DRACAEA AVE	236.43	23.64	46.81	306.88

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
6091	487362001	7	684277	13029	PAWNEE DR	378.50	37.85	74.94	491.28
6092	487362005	1	684277	13061	PAWNEE DR	378.50	37.85	74.94	491.28
6093	487362007	3	684277	13077	PAWNEE DR	385.78	38.58	76.38	500.74
6094	487362009	5	684277	13093	PAWNEE DR	76.67	7.67	15.18	99.52
6095	487362011	6	684277	13111	PAWNEE DR	323.48	32.35	64.05	419.88
6096	487362016	1	684277	13165	PAWNEE DR	210.37	21.04	41.65	273.06
6097	487362018	3	684277	13185	PAWNEE DR	488.61	48.86	96.74	634.20
6098	487380022	2	684277	26430	BODEGA CT	442.64	44.26	87.64	574.54
6099	487381004	9	684277	13056	TIOGA PASS CT	378.50	37.85	74.94	491.28
6100	487381007	2	684277	13016	TIOGA PASS CT	378.50	37.85	74.94	491.28
6101	487381015	9	684277	26424	PETALUMA AVE	372.88	37.29	73.83	484.00
6102	487381021	4	684277	13020	NAPA VALLEY CT	76.29	7.63	15.11	99.02
6103	487381036	8	684277	13165	NAPA VALLEY CT	372.88	37.29	73.83	484.00
6104	487381037	9	684277	13177	NAPA VALLEY CT	247.03	24.70	48.91	320.64
6105	487381042	3	684277	13237	NAPA VALLEY CT	372.88	37.29	73.83	484.00
6106	487400030	0	684277	13345	LAKEPORT DR	600.44	60.04	118.89	779.36
6107	487400037	7	684277	13250	NELS CIR	287.99	28.80	57.02	373.80
6108	487410007	1	684277	13419	LAKEPORT DR	71.43	7.14	14.14	92.70
6109	487410009	3	684277	13439	LAKEPORT DR	378.50	37.85	74.94	491.28
6110	487410014	7	684277	26095	PRADO ST	372.88	37.29	73.83	484.00
6111	487410018	1	684277	13416	BRAD ST	378.50	37.85	74.94	491.28
6112	487410025	7	684277	26094	PECK ST	347.82	34.78	68.87	451.46
6113	487410028	0	684277	26064	PECK ST	352.35	35.24	69.77	457.36
6114	487410033	4	684277	26014	PECK ST	87.88	8.79	17.40	114.06
6115	487410018	8	684277	26147	DARDANELLE CT	385.23	38.52	76.28	500.02
6116	487411021	6	684277	26195	FERNDALE CT	372.88	37.29	73.83	484.00
6117	487411023	8	684277	26219	FERNDALE CT	358.96	35.90	71.07	465.92
6118	487411028	3	684277	26194	FERNDALE CT	76.43	7.64	15.13	99.20
6119	487411031	5	684277	13370	LAKEPORT DR	321.68	32.17	63.69	417.54

**MORENO VALLEY Tax Roll Listing 2019
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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
6120	487412012	1	684277	26052	PRADO ST	168.64	16.86	33.39	218.88
6121	487413002	5	684277	26035	PRADO ST	76.43	7.64	15.13	99.20
6122	487413007	0	684277	13425	JAMES ST	110.00	11.00	21.78	142.78
6123	487420004	9	684277	13291	BURNEY PASS DR	378.50	37.85	74.94	491.28
6124	487421003	1	684277	13333	YUBA PASS RD	486.54	48.65	96.33	631.52
6125	487421004	2	684277	13323	YUBA PASS RD	204.88	20.49	40.57	265.94
6126	487421008	6	684277	26371	ALTURAS CREEK DR	378.50	37.85	74.94	491.28
6127	487421013	0	684277	26297	ALTURAS CREEK DR	360.93	36.09	71.46	468.48
6128	487421015	2	684277	26267	ALTURAS CREEK DR	76.43	7.64	15.13	99.20
6129	487421022	8	684277	26326	CAPAY BAY CT	378.50	37.85	74.94	491.28
6130	487422001	2	684277	13358	YUBA PASS RD	88.24	8.82	17.47	114.52
6131	487422008	9	684277	26454	ALTURAS CREEK DR	378.50	37.85	74.94	491.28
6132	487422011	1	684277	26406	ALTURAS CREEK DR	372.88	37.29	73.83	484.00
6133	487422016	6	684277	26336	ALTURAS CREEK DR	76.43	7.64	15.13	99.20
6134	487430005	1	684277	13389	BURNEY PASS DR	266.28	26.63	52.72	345.62
6135	487431003	2	684277	26280	WALKER PASS DR	75.12	7.51	14.87	97.50
6136	487431006	5	684277	26322	WALKER PASS DR	193.37	19.34	38.29	251.00
6137	487431011	9	684277	26392	WALKER PASS DR	372.88	37.29	73.83	484.00
6138	487431013	1	684277	26420	WALKER PASS DR	372.88	37.29	73.83	484.00
6139	487431016	4	684277	13409	YUBA PASS RD	71.43	7.14	14.14	92.70
6140	487431024	1	684277	26397	CAPAY BAY CT	372.88	37.29	73.83	484.00
6141	487431050	4	684277	26397	CAPE MENDOCINO CT	209.67	20.97	41.52	272.16
6142	487432013	4	684277	26423	WALKER PASS DR	378.50	37.85	74.94	491.28
6143	487440006	3	684277	13417	LETTERMAN ST	372.05	37.21	73.67	482.92
6144	487440007	4	684277	13403	LETTERMAN ST	560.61	56.06	111.00	727.66
6145	487440019	5	684277	26830	HONORS WAY	224.11	22.41	44.37	290.88
6146	487441006	6	684277	26861	CAMPUS POINT DR	374.48	37.45	74.15	486.08
6147	487442003	6	684277	13424	LETTERMAN ST	372.88	37.29	73.83	484.00
6148	487442012	4	684277	26829	HONORS WAY	87.12	8.71	17.25	113.08

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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
6149	487442028	9	684277	13443	VARSITY LN	372.88	37.29	73.83	484.00
6150	487442029	0	684277	13457	VARSITY LN	155.12	15.51	30.71	201.34
6151	487443006	2	684277	13386	VARSITY LN	372.88	37.29	73.83	484.00
6152	487443010	5	684277	13371	STADIUM WAY	358.90	35.89	71.06	465.84
6153	487443011	6	684277	13385	STADIUM WAY	372.88	37.29	73.83	484.00
6154	487450005	3	684277	26902	HONORS WAY	157.27	15.73	31.14	204.14
6155	487450013	0	684277	26961	HONORS WAY	46.44	4.64	9.19	60.26
6156	487450015	2	684277	26937	HONORS WAY	493.99	49.40	97.81	641.20
6157	487450021	7	684277	26928	COMMONS DR	66.43	6.64	13.15	86.22
6158	487450025	1	684277	26976	COMMONS DR	326.68	32.67	64.68	424.02
6159	487450028	4	684277	13364	ATHLETICS DR	835.00	83.50	165.33	1083.82
6160	487450029	5	684277	13376	ATHLETICS DR	122.56	12.26	24.27	159.08
6161	487450030	5	684277	13390	ATHLETICS DR	272.44	27.24	53.94	353.62
6162	487450031	6	684277	13404	ATHLETICS DR	241.98	24.20	47.91	314.08
6163	487450037	2	684277	13446	ATHLETICS DR	486.54	48.65	96.33	631.52
6164	487450038	3	684277	13460	ATHLETICS DR	372.88	37.29	73.83	484.00
6165	487450044	8	684277	26945	CAMPUS POINT DR	71.43	7.14	14.14	92.70
6166	487451012	2	684277	13397	ATHLETICS DR	378.50	37.85	74.94	491.28
6167	487460005	4	684277	13621	STACY LYNN DR	391.80	39.18	77.58	508.56
6168	487480006	7	684277	26536	QUARTZ RD	158.99	15.90	31.48	206.36
6169	487480008	9	684277	13545	BALSAWOOD LN	372.88	37.29	73.83	484.00
6170	487481003	7	684277	13612	BALSAWOOD LN	372.88	37.29	73.83	484.00
6171	487481020	2	684277	13597	SESAME RD	372.88	37.29	73.83	484.00
6172	487481022	4	684277	13621	SESAME RD	378.50	37.85	74.94	491.28
6173	487481050	9	684277	13623	DIAMOND LN	291.28	29.13	57.67	378.08
6174	487482002	9	684277	26632	QUARTZ RD	378.50	37.85	74.94	491.28
6175	487482007	4	684277	26694	QUARTZ RD	385.23	38.52	76.28	500.02
6176	487482010	6	684277	13580	SESAME RD	93.09	9.31	18.43	120.82
6177	487492003	1	684277	13710	REGIS DR	138.16	13.82	27.36	179.34

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Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
6178	4874920097		684277	13638	REGIS DR	418.48	41.85	82.86	543.18
6179	4874920129		684277	13630	ERIN DR	366.73	36.67	72.61	476.00
6180	4874930111		684277	26181	HUXLEY DR	390.98	39.10	77.41	507.48
6181	4874930133		684277	13671	REGIS DR	372.88	37.29	73.83	484.00
6182	4874930133		684277	13671	REGIS DR	372.88	37.29	73.83	484.00
6183	4874930188		684277	26138	WINDEMERE WAY	493.99	49.40	97.81	641.20
6184	4874930199		684277	26124	WINDEMERE WAY	493.99	49.40	97.81	641.20
6185	4874930232		684277	26068	WINDEMERE WAY	372.88	37.29	73.83	484.00
6186	4874940213		684277	26130	BAY AVE	336.68	33.67	66.66	437.00
6187	4874940279		684277	26046	BAY AVE	351.41	35.14	69.58	456.12
6188	4874940301		684277	26004	BAY AVE	425.78	42.58	84.30	552.66
6189	4875000035		684277	26470	BAY AVE	71.43	7.14	14.14	92.70
6190	4875000134		684277	26479	FIELD ST	385.23	38.52	76.28	500.02
6191	4875000156		684277	13662	BRISBANE CT	372.88	37.29	73.83	484.00
6192	4875000178		684277	13638	BRISBANE CT	190.15	19.02	37.65	246.82
6193	4875000200		684277	13613	BRISBANE CT	127.97	12.80	25.34	166.10
6194	4875000332		684277	26377	HOBART CIR	353.26	35.33	69.95	458.54
6195	4875000442		684277	26372	HOBART CIR	390.97	39.10	77.41	507.48
6196	4875000453		684277	26360	HOBART CIR	372.88	37.29	73.83	484.00
6197	4875000507		684277	13663	SYDNEY AVE	485.00	48.50	96.03	629.52
6198	4875000518		684277	13668	DARWIN DR	378.50	37.85	74.94	491.28
6199	4875010016		684277	13621	DARWIN DR	99.82	9.98	19.76	129.56
6200	4875020020		684277	26338	BAY AVE	290.10	29.01	57.44	376.54
6201	4875020064		684277	26386	BAY AVE	71.43	7.14	14.14	92.70
6202	4875020129		684277	26347	FIELD ST	486.54	48.65	96.33	631.52
6203	4875100069		684277	26527	OPAL ST	372.88	37.29	73.83	484.00
6204	4875110040		684277	26614	BAY AVE	241.08	24.11	47.73	312.92
6205	4875120098		684277	26683	OPAL ST	324.13	32.41	64.18	420.72
6206	4875130112		684277	26658	OPAL ST	89.95	9.00	17.81	116.76

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

Column Totals	2,003,753.76	200,377.97	396,739.88	2,600,843.48
Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
6207	487513017	8	684277	26649	EMERALD AVE	278.29	27.83	55.10	361.22
6208	487513019	0	684277	26625	EMERALD AVE	185.85	18.59	36.80	241.24
6209	487513024	4	684277	26565	EMERALD AVE	222.88	22.29	44.13	289.30
6210	487520009	3	684277	26441	SEQUOIA ST	372.88	37.29	73.83	484.00
6211	487520014	7	684277	26371	SEQUOIA ST	347.50	34.75	68.81	451.06
6212	487520028	0	684277	26369	BARBADOS LN	270.38	27.04	53.54	350.96
6213	487520029	1	684277	26355	BARBADOS LN	71.43	7.14	14.14	92.70
6214	487520032	3	684277	26313	BARBADOS LN	372.88	37.29	73.83	484.00
6215	487520033	4	684277	26299	BARBADOS LN	378.50	37.85	74.94	491.28
6216	487521003	0	684277	26308	BARBADOS LN	418.85	41.89	82.93	543.66
6217	487521006	3	684277	26350	BARBADOS LN	385.23	38.52	76.28	500.02
6218	487522002	2	684277	13900	DOMINICAN AVE	160.12	16.01	31.70	207.82
6219	487522003	3	684277	13914	DOMINICAN AVE	321.68	32.17	63.69	417.54
6220	487530008	3	684277	26595	BAY AVE	372.88	37.29	73.83	484.00
6221	487530014	8	684277	26524	PEGASUS WAY	378.50	37.85	74.94	491.28
6222	487531006	4	684277	26591	RHONE CT	78.24	7.82	15.49	101.54
6223	487531007	5	684277	26605	RHONE CT	153.54	15.35	30.40	199.28
6224	487531009	7	684277	26590	RHONE CT	372.88	37.29	73.83	484.00
6225	487532003	4	684277	26578	DANUBE WAY	279.40	27.94	55.32	362.66
6226	487532016	6	684277	26560	SAGE BRUSH CT	247.11	24.71	48.93	320.74
6227	487532017	7	684277	26546	SAGE BRUSH CT	356.44	35.64	70.57	462.64
6228	487540013	8	684277	12076	WOODBRIAR DR	211.20	21.12	41.82	274.14
6229	487541001	0	684277	12121	WOODBRIAR DR	232.47	23.25	46.03	301.74
6230	487551015	4	684277	13584	COLLIE CT	71.43	7.14	14.14	92.70
6231	487551017	6	684277	26481	COTTONWOOD AVE	157.45	15.75	31.18	204.38
6232	487560007	5	684277	26824	FIR AVE	272.88	27.29	54.03	354.20
6233	487560030	5	684277	26746	GREEN MOUNTIAN DR	336.98	33.70	66.72	437.40
6234	487561002	3	684277	26714	BUCKEYE TERRACE	372.88	37.29	73.83	484.00
6235	487561039	7	684277	26761	JADE TREE TER	76.43	7.64	15.13	99.20

**MORENO VALLEY Tax Roll Listing 2019
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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
6236	487570010	8	684277	26444	JEAN BAPTISTE WAY	448.90	44.89	88.88	582.66
6237	487572004	9	684277	26333	OKEEFE LN	372.88	37.29	73.83	484.00
6238	487572008	3	684277	13805	BAZILLE CT	71.43	7.14	14.14	92.70
6239	487572010	4	684277	13781	BAZILLE CT	321.68	32.17	63.69	417.54
6240	487572012	6	684277	13794	BAZILLE CT	372.88	37.29	73.83	484.00
6241	487572013	7	684277	13806	BAZILLE CT	326.20	32.62	64.59	423.40
6242	487572014	8	684277	26370	OKEEFE LN	600.50	60.05	118.90	779.44
6243	487572018	2	684277	26418	OKEEFE LN	198.84	19.88	39.37	258.08
6244	487572026	9	684277	26431	JEAN BAPTISTE WAY	215.42	21.54	42.65	279.60
6245	487572031	3	684277	26397	BAY AVE	372.88	37.29	73.83	484.00
6246	487581003	6	684277	26844	TWIN HILLS CIR	232.67	23.27	46.07	302.00
6247	487582002	8	684277	26926	SUGARCANE DR	71.43	7.14	14.14	92.70
6248	487582003	9	684277	26940	SUGARCANE DR	71.43	7.14	14.14	92.70
6249	487582005	1	684277	12874	LARKDALE LN	67.52	6.75	13.37	87.64
6250	488010006	1	684277	27041	PAM PL	623.96	62.40	123.54	809.90
6251	488020010	5	684277	27274	WALFRED WAY	529.28	52.93	104.80	687.00
6252	488031002	2	684277	12152	LANTZ LN	378.50	37.85	74.94	491.28
6253	488032005	8	684277	27119	ARCHIE AVE	155.12	15.51	30.71	201.34
6254	488040004	2	684277	12151	MARY LEE WAY	372.88	37.29	73.83	484.00
6255	488061001	4	684277	12231	MARY LEE WAY	227.29	22.73	45.00	295.02
6256	488061005	8	684277	12340	LANTZ LN	254.41	25.44	50.37	330.22
6257	488061011	3	684277	12240	LANTZ LN	149.03	14.90	29.51	193.44
6258	488061012	4	684277	12230	LANTZ LN	158.99	15.90	31.48	206.36
6259	488070005	6	684277	27307	DARLENE DR	372.88	37.29	73.83	484.00
6260	488071003	7	684277	27280	DARLENE DR	486.54	48.65	96.33	631.52
6261	488110002	6	684277	12895	DOLOMITE LN	372.88	37.29	73.83	484.00
6262	488110003	7	684277	12887	DOLOMITE LN	339.70	33.97	67.26	440.92
6263	488110015	8	684277	12791	DOLOMITE LN	378.50	37.85	74.94	491.28
6264	488110075	2	684277	12867	SERPENTINE WAY	343.24	34.32	67.96	445.52

**MORENO VALLEY Tax Roll Listing 2019
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Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
6265	488110080	6	684277	12852	SERPENTINE WAY	378.50	37.85	74.94	491.28
6266	488120015	9	684277	27200	WOODGLEN WAY	372.88	37.29	73.83	484.00
6267	488120022	5	684277	13037	MISTY MEADOW CT	71.43	7.14	14.14	92.70
6268	488120029	2	684277	13038	WINDHAVEN DR	340.23	34.02	67.37	441.62
6269	488120036	8	684277	27232	GOLDEN FIELD CT	372.88	37.29	73.83	484.00
6270	488121011	8	684277	13075	WINDHAVEN DR	372.88	37.29	73.83	484.00
6271	488121016	3	684277	13028	CREEKSIDE WAY	372.88	37.29	73.83	484.00
6272	488122004	5	684277	12930	COBBLESTONE LN	71.43	7.14	14.14	92.70
6273	488122005	6	684277	12936	COBBLESTONE LN	372.88	37.29	73.83	484.00
6274	488122007	8	684277	12960	COBBLESTONE LN	76.43	7.64	15.13	99.20
6275	488122009	0	684277	12972	COBBLESTONE LN	137.40	13.74	27.21	178.34
6276	488131006	5	684277	27017	QUAIL CREEK DR	194.76	19.48	38.56	252.80
6277	488132012	3	684277	27213	QUAIL CREEK DR	486.54	48.65	96.33	631.52
6278	488132026	6	684277	27124	QUAIL CREEK DR	78.16	7.82	15.48	101.46
6279	488132033	2	684277	27147	OAK RIDGE RD	385.23	38.52	76.28	500.02
6280	488133015	9	684277	13153	WINDSONG RD	158.99	15.90	31.48	206.36
6281	488133016	0	684277	13165	WINDSONG RD	300.00	30.00	59.40	389.40
6282	488133032	4	684277	27121	WOODGLEN LN	344.89	34.49	68.29	447.66
6283	488140007	4	684277	13223	WILD SAGE LN	372.88	37.29	73.83	484.00
6284	488140009	6	684277	13232	WILD SAGE LN	155.12	15.51	30.71	201.34
6285	488140016	2	684277	27310	COLD CREEK CT	372.88	37.29	73.83	484.00
6286	488140032	6	684277	13067	WILD SAGE LN	243.16	24.32	48.15	315.62
6287	488140034	8	684277	13091	WILD SAGE LN	239.35	23.94	47.39	310.68
6288	488140043	6	684277	27224	WOODGLEN WAY	326.68	32.67	64.68	424.02
6289	488180016	6	684277	13486	NASON ST	352.84	35.28	69.86	457.98
6290	488180020	9	684277	27130	COTTONWOOD AVE	138.16	13.82	27.36	179.34
6291	488190001	3	684277	27027	COTTONWOOD AVE	113.09	11.31	22.39	146.78
6292	488190003	5	684277	27115	COTTONWOOD AVE	71.43	7.14	14.14	92.70
6293	488190010	1	684277	27331	COTTONWOOD AVE	372.88	37.29	73.83	484.00

**MORENO VALLEY Tax Roll Listing 2019
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Column Totals	2,003,753.76	200,377.97	396,739.88	2,600,843.48
Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
6294	488190020	0	684277	27301	CEDAR CT	372.88	37.29	73.83	484.00
6295	488190025	5	684277	27499	COTTONWOOD AVE	50.00	5.00	9.90	64.90
6296	488200019	0	684277	13635	OLIVER ST	372.88	37.29	73.83	484.00
6297	488200020	0	684277	13715	OLIVER ST	378.50	37.85	74.94	491.28
6298	488210010	2	684277	27118	LARKMEAD CT	93.09	9.31	18.43	120.82
6299	488210011	3	684277	13860	NASON ST	112.47	11.25	22.27	145.98
6300	488210011	3	684277	13860	NASON ST	112.47	11.25	22.27	145.98
6301	488220013	6	684277	27800	ALESSANDRO BLVD	469.10	46.91	92.88	608.88
6302	488230002	7	684277	12038	PETIT ST	452.45	45.25	89.59	587.28
6303	488230004	9	684277	12080	PETIT ST	371.41	37.14	73.54	482.08
6304	488240008	4	684277	12221	HINSON ST	503.03	50.30	99.60	652.92
6305	488241010	8	684277	28160	HEMLOCK AVE	247.03	24.70	48.91	320.64
6306	488270004	3	684277	28089	WHITE SAND TRL	477.72	47.77	94.59	620.08
6307	488270005	4	684277	28115	WHITE SAND TRL	457.60	45.76	90.60	593.96
6308	488281006	9	684277	28247	HEMLOCK AVE	68.93	6.89	13.65	89.46
6309	488281019	1	684277	12323	CLOUDBURST TRL	508.69	50.87	100.72	660.28
6310	488282001	7	684277	12342	PRAIRIE WIND TRL	378.50	37.85	74.94	491.28
6311	488290001	2	684277	12369	DEEP VALLEY TRL	375.08	37.51	74.27	486.86
6312	488290005	6	684277	12471	DEEP VALLEY TRL	224.95	22.50	44.54	291.98
6313	488290007	8	684277	28211	MESA TOP TRL	486.54	48.65	96.33	631.52
6314	488290016	6	684277	12444	PRAIRIE WIND TRL	486.54	48.65	96.33	631.52
6315	488291007	1	684277	12390	DEEP VALLEY TRL	372.40	37.24	73.74	483.38
6316	488320005	8	684277	12314	REDLANDS BLVD	372.88	37.29	73.83	484.00
6317	488370021	7	684277	13786	JEANETTE CT	372.88	37.29	73.83	484.00
6318	488371007	8	684277	27905	OWEN DR	213.47	21.35	42.27	277.08
6319	488371010	0	684277	27959	OWEN DR	284.12	28.41	56.26	368.78
6320	488371011	1	684277	27977	OWEN DR	372.88	37.29	73.83	484.00
6321	488380008	7	684277	27098	DOLOSTONE WAY	196.17	19.62	38.84	254.62
6322	488380009	8	684277	27106	DOLOSTONE WAY	371.06	37.11	73.47	481.64

**MORENO VALLEY Tax Roll Listing 2019
Customers with Invoice Item Dates in 2018**

Column Totals	2,003,753.76	200,377.97	396,739.88	2,600,843.48
Customer Count	6,327			

Rec No	ParcelNo	ParcelUnique	Fund No	HOUSE#	STREET	Principal	Penalty	Interest	Total TR
6323	488380013	1	684277	27139	DOLOSTONE WAY	347.38	34.74	68.78	450.90
6324	488380019	7	684277	27089	DOLOSTONE WAY	366.88	36.69	72.64	476.20
6325	488380031	7	684277	27100	AVENTURINE WAY	163.16	16.32	32.31	211.78
6326	488380033	9	684277	27120	AVENTURINE WAY	372.88	37.29	73.83	484.00
6327	488380039	5	684277	12834	COBBLESTONE LN	486.54	48.65	96.33	631.52



Report to City Council

TO: Mayor and City Council
 Mayor and City Council Acting in its Capacity as
 President and Members of the Board of Directors of the
 Moreno Valley Community Services District (CSD)
 Mayor and City Council Acting in its Capacity as
 Chairman and Commissioners of the Moreno Valley
 Housing Authority (HA)

FROM: Michael L. Wolfe, P.E., Public Works Director/City Engineer

AGENDA DATE: June 4, 2019

TITLE: PUBLIC HEARING AND ADOPTION OF THE CAPITAL
 IMPROVEMENT PLAN FOR FISCAL YEARS 2019/20 &
 2020/21

RECOMMENDED ACTION

Recommend that the City Council:

1. Conduct a Public Hearing to Approve and Adopt Resolution No. 2019-XX, approving the Capital Improvement Plan for FYs 2019/20 & 2020/21;
2. Following the adoption of the Capital Improvement Plan (CIP), authorize the Public Works Director to make any minor adjustments in order to finalize the adopted CIP for public distribution;
3. Authorize the Chief Financial Officer to consolidate the approved CIP Budget with the approved and adopted City Operating Budget for FY 2019/20 and FY 2020/21;

Recommend that the Housing Authority Board of Directors:

1. Acting in its capacity as the Board of Directors of the Moreno Valley Housing Authority of the City of Moreno Valley, conduct a Public Hearing to Approve and Adopt Resolution No. HA 2019-XX, a Resolution of the Moreno Valley Housing Authority of the City of Moreno Valley, California, adopting the Capital Improvement Plan for FYs 2019/20 & 2020/21.

Recommend that the Community Services District Board of Directors:

1. Acting in its capacity as the Board of Directors of the Community Services District of the City of Moreno Valley, conduct a Public Hearing to Approve and Adopt Resolution No. CSD 2019-XX, a Resolution of the Community Services District of the City of Moreno Valley, California, adopting the Capital Improvement Plan for FYs 2019/20 & 2020/21; and

SUMMARY

The CIP identifies the City of Moreno Valley's capital improvement needs, overseen by the City's Public Works Department, for each fiscal year and prioritizes them based on City Council direction and anticipated funding availability. In the past, City staff has produced an updated Capital Improvement Plan (CIP) annually. Starting with Fiscal Year 2017/18, in consort with the City's Operating Budget, staff produces an updated CIP every two years, which is brought before the City Council for their consideration.

DISCUSSION

The purpose of the CIP is to serve as a planning tool that identifies needed improvements and establishes long-term funding. The document tracks the use of resources for designing and managing, acquiring easements, constructing, and rehabilitating City infrastructure, such as buildings, parks, bridges, and streets. The CIP also provides a framework for funding capital projects and helps the City forecast and coordinate long-term needs. Capital planning ensures the timely repair and replacement of aging infrastructure and the implementation of community priorities to meet the demands of a growing and changing population. The Proposed CIP contains the list of projects comprising the budget and expenditures as well as scheduling that will enable critical projects to move forward to a timely and fiscally responsible conclusion.

The Proposed CIP identifies and estimates the costs of planning, designing, and constructing the following types of projects anticipated through build-out of the City:

- Street and Highways
- Bridges
- Buildings
- Drainage
- Electric Utility
- Landscaping
- Parks
- Traffic Signals
- Underground Utilities
- Other

City staff has completed a full review of all project needs through build-out of the City. The recommended priorities, as proposed with the funding requests in FY 2019/20 and FY 2020/21, are based on economic feasibility, community enhancement and need, infrastructure, safety, and anticipated development trends within the City. The proposed two-year CIP also incorporates projects to implement strategic plan priorities,

objectives, and initiatives from the Council approved Momentum MoVal document.

California Government Code Section 66002 provides that the CIP shall be updated and adopted by a resolution, of the governing body of the local agency, at a public hearing. The Proposed CIP was made available for public review on May 21, 2019 and a public notice was published in the Press Enterprise. The CIP for FYs 2019/20 & 2020/21 book is not attached to this report due to its size and is available for review at the City Clerk Office counter at City Hall. The forty one (41) projects with new fund requests in FY 2019/20 and FY 2020/21 are attached to this report for review.

The CIP was presented to the Finance Sub-Committee on April 23, 2019 and was recommended to move forward to Council. The CIP was also presented to the Planning Commission on May 23, 2019 and was found to be in conformance with the City's General Plan. In addition, Moreno Valley Utility capital projects were brought before the Utility Commission for review on May 22, 2019.

Capital Plan Adoption Actions

Resolutions Adopting the Capital Improvement Plan for FYs 2019/20 & 2020/21 - As a long-standing best practice, each of the City's primary entities (the City, Community Services District and Housing Authority) will adopt separate resolutions to approve their respective Capital Improvement Plan. If approved, staff anticipates submitting the CIP and requirement documents to the California Society of Municipal Finance Offices Capital Budget award program for consideration.

ALTERNATIVES

1. Approve and authorize the recommended actions as presented in this staff report and as set forth in the proposed Resolutions and Capital Improvement Plan. *Staff recommends this alternative as it will allow for implementing the funding, planning, design, and construction of necessary capital improvements.*
2. Do not approve and authorize the recommended actions as presented in this staff report and as set forth in the proposed Resolutions and Capital Improvement Plan and direct staff to return with changes. *Staff does not recommend this alternative as it will delay the funding, planning, design, and construction of necessary capital improvements.*

FISCAL IMPACT

Projects have been identified as funded and partially funded for FY 2019/20 - FY 2023/24 and beyond to better understand all of the future needs for the City. However, the actions recommended in this staff report for the Capital Improvement Plan approves the funding and expenditure plan for FY 2019/20 and FY2020/21 only.

Section	Description	FY 2019/20 New Request	FY 2020/21 New Request	Total
80001	Street Improvements	\$24,882,152	\$16,135,736	\$41,017,888
80002	Bridges	\$1,404,214	\$210,000	\$1,614,214
80003	Buildings	\$1,937,000	\$130,000	\$2,067,000
80004	Drainage, Sewers, and Waterlines	\$650,512	\$80,000	\$730,512
80005	Electric Utility	\$4,115,000	\$0	\$4,115,000
80006	Landscaping	\$668,500	\$512,000	\$1,180,500
80007	Parks	\$482,000	\$497,000	\$979,000
80008	Traffic Signals	\$20,000	\$20,000	\$40,000
80010	Other	\$10,000	\$10,073	\$20,073
	Total	\$34,169,378	\$17,594,809	\$51,764,187

The project sheets attached to this staff report provides information regarding the proposed funding source for each project. **There is no impact to the General Fund.** A summary of the funding sources for the projects in FY 2019/20 and FY 2020/21 are as follows:

Air Quality Management Incentives	\$60,073
Community Facility District Fees	\$314,000
Co-Opt Agreements – Riverside County Flood Control	\$320,512
Development Impact Fees	\$3,022,000
Equipment Replacement Reserve	\$500,000
Highway Users Tax Account (HUTA) / Gas Tax	\$655,256
Grants – Federal, State & Local	\$27,351,374
Moreno Valley Utility – Lease Revenue Bonds / 2018 Streetlight Financing	\$4,115,000
Road Maintenance and Rehabilitation Account (RMRA) / SB1	\$6,585,472
Special Districts Landscape Zones/Medians / Districts Fees	\$1,180,500
Storm Water Management Fees	\$160,000
Transportation Uniform Mitigation Fees (TUMF)	\$7,500,000

NOTIFICATION

Notice of this meeting was published in the Press Enterprise newspaper on May 21, 2019. Additional notification was made available through the City website and Publication of the agenda. As of the date of this report preparation, staff has not received any public inquiries in response to the notice for this Capital Improvement Plan adoption.

PREPARATION OF STAFF REPORT

Prepared By:
Launa Jimenez
Senior Management Analyst

Department Head Approval:
Michael L. Wolfe, P.E.
Public Works Director/ City Engineer

Concurred By:
Henry Ngo, P.E.
Capital Projects Division Manager

CITY COUNCIL GOALS

Advocacy. Develop cooperative intergovernmental relationships and be a forceful advocate of City policies, objectives, and goals to appropriate external governments, agencies and corporations.

Revenue Diversification and Preservation. Develop a variety of City revenue sources and policies to create a stable revenue base and fiscal policies to support essential City services, regardless of economic climate.

Public Safety. Provide a safe and secure environment for people and property in the community, control the number and severity of fire and hazardous material incidents, and provide protection for citizens who live, work and visit the City of Moreno Valley.

Public Facilities and Capital Projects. Ensure that needed public facilities, roadway improvements, and other infrastructure improvements are constructed and maintained.

Positive Environment. Create a positive environment for the development of Moreno Valley's future.

Community Image, Neighborhood Pride and Cleanliness. Promote a sense of community pride and foster an excellent image about our City by developing and executing programs which will result in quality development, enhanced neighborhood preservation efforts, including home rehabilitation and neighborhood restoration.

CITY COUNCIL STRATEGIC PRIORITIES

1. Economic Development
2. Public Safety
3. Library
4. Infrastructure
5. Beautification, Community Engagement, and Quality of Life
6. Youth Programs

ATTACHMENTS

1. FY 2019/20 & 2020/21 CIP - City Resolution

- 2. FY 2019/20 & 2020/21 CIP - CSD Resolution
- 3. FY 2019/20 & 2020/21 CIP - HA Resolution
- 4. FY 2019/20 & 2020/21 CIP - New Funding Requests

APPROVALS

Budget Officer Approval	<u>✓ Approved</u>	5/28/19 7:58 AM
City Attorney Approval	<u>✓ Approved</u>	5/28/19 5:19 PM
City Manager Approval	<u>✓ Approved</u>	5/30/19 1:20 PM

RESOLUTION NO. 2019-_____

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, ADOPTING THE CAPITAL IMPROVEMENT PLAN FOR FYs 2019/20 & 2020/21

WHEREAS, the City Manager has heretofore submitted to the City Council a Proposed Capital Improvement Plan (CIP) for the City for FYs 2019/20 & 2020/21, a copy of which is on file in the Office of the City Clerk and is available for public inspection; and

WHEREAS, the said Proposed CIP contains the list of projects comprising the budget, and contains expenditure requirements, and the resources available to the City; and

WHEREAS, the said Proposed CIP proposes certain budget expenditures necessary to meet the expenditure requirements and to provide available resources to the City; and

WHEREAS, the Proposed CIP, as herein approved, will provide the City the necessary financial plans and enable critical projects to move forward to a timely and fiscally responsible conclusion; and

WHEREAS, certain capital projects commitments have been previously approved by the City Council for appropriation in fiscal year 2018/2019 and current adoption of fiscal year 2019/20, and the Chief Financial Officer shall be authorized to carry over such appropriation budgets for these items as approved by the City Manager; and

WHEREAS, following the adoption of the Capital Improvement Plan (CIP), the Public Works Director is authorized to make any minor adjustments in order to finalize the adopted CIP for public distribution.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

1. The Proposed CIP is hereby approved and adopted as the capital budget of the City of Moreno Valley for the FYs 2019/20 & 2020/21.
2. The proposed budget expenditures and estimated revenues as set forth in the Proposed Capital Improvement Plan and detailed as Exhibit A and Exhibit B to this resolution, are approved, hereby appropriated for the various budget programs and will be consolidated with the approved and adopted City Operating Budget for FYs 2019/20 & 2020/21.
3. Pursuant to Section 53901 of the California Government Code, by no later

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Resolution No. 2019-_____
Date Adopted: June 4, 2019

than August 30, 2019, the City Clerk shall file a copy of this Resolution with the Auditor/Controller of the County of Riverside.

- 4. Within fifteen (15) days after the adoption of this Resolution, the City Clerk shall certify to the adoption hereof and, as so certified, cause a copy to be posted in at least three (3) public places within the City.

BE IT FURTHER RESOLVED that this resolution shall take effect immediately upon its adoption.

APPROVED AND ADOPTED this 4th day of June, 2019.

Mayor of the City of Moreno Valley

ATTEST:

City Clerk

APPROVED AS TO FORM:

City Attorney

Resolution No. 2019-2
Date Adopted: June 4, 2019

RESOLUTION JURAT

STATE OF CALIFORNIA)
COUNTY OF RIVERSIDE) ss.
CITY OF MORENO VALLEY)

I, Pat Jacquez-Nares, City Clerk of the City of Moreno Valley, California, do hereby certify that Resolution No. 2019-___ was duly and regularly adopted by the City Council of the City of Moreno Valley at a regular meeting thereof held on the 4th day of June, 2019 by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Council Members, Mayor Pro Tem and Mayor)

CITY CLERK

(SEAL)

Resolution No. 2019-___ 3
Date Adopted: June 4, 2019

Attachment: FY 2019/20 & 2020/21 CIP - City Resolution (3552 : PUBLIC HEARING AND ADOPTION OF THE CAPITAL IMPROVEMENT PLAN

EXHIBIT A

Budget Transfers

FY 2019/20 New Request

Transfers In			Transfers Out		
<u>Account</u>		<u>Total</u>	<u>Account</u>		<u>Total</u>
3000-99-99-93000-802910	Transfer from Fund 2910	\$197,000	2910-99-95-92910-903000	Transfer to Fund 3000	\$197,000
3000-99-99-93000-802908	Transfer from Fund 2908	\$750,000	2908-99-95-92908-903000	Transfer to Fund 3000	\$750,000
3016-99-99-93016-802019	Transfer from Fund 2019	\$750,000	2019-99-99-92019-903016	Transfer to Fund 3016	\$750,000
3301-99-99-93301-802901	Transfer from Fund 2901	\$215,000	2901-99-95-92901-903301	Transfer to Fund 3301	\$215,000
3311-99-99-93311-802911	Transfer from Fund 2911	\$175,000	2911-99-95-92911-903311	Transfer to Fund 3311	\$175,000
3000-99-99-93000-807510	Transfer from Fund 7510	\$500,000	7510-99-97-88190-903000	Transfer to Fund 3000	\$500,000
	Total	<u>\$2,587,000</u>		Total	<u>\$2,587,000</u>

FY 2020/21 New Request

Transfers In			Transfers Out		
<u>Account</u>		<u>Total</u>	<u>Account</u>		<u>Total</u>
3015-99-99-93015-802905	Transfer from Fund 2905	\$30,000	2905-99-95-92905-903015	Transfer to Fund 3015	\$30,000
3016-99-99-93016-802019	Transfer from Fund 2019	\$505,000	2019-99-99-92019-903016	Transfer to Fund 3016	\$505,000
3301-99-99-93301-802901	Transfer from Fund 2901	\$200,000	2901-99-95-92901-903301	Transfer to Fund 3301	\$200,000
3311-99-99-93311-802911	Transfer from Fund 2911	\$200,000	2911-99-95-92911-903311	Transfer to Fund 3311	\$200,000
	Total	<u>\$935,000</u>		Total	<u>\$935,000</u>

Attachment: FY 2019/20 & 2020/21 CIP - City Resolution (3552 : PUBLIC HEARING AND ADOPTION OF THE CAPITAL IMPROVEMENT PLAN

CIP Project - Expenditure/ Estimated Revenue Budgets

Expenditures			Expenditures	
Project Number	Fund	Project Description	FY 2019/20	FY 2020/21
801 0015 70 76	2000	Residential Traffic Mgmt Prgrm (Speed Humps)	50,000	50,000
		2000-70-76-80001-720199	50,000	50,000
801 0008 70 77	2000	Annual ADA Compliant Access Upgrades	200,000	200,000
801 0084	2000A	Citywide Pavement Rehabilitation Program FY19/20	3,292,736	
TBD	2000A	Citywide Pavement Rehabilitation Program FY20/21		3,292,736
		2000-70-77-80001-720199	3,492,736	3,492,736
802 0002 70 77	2000	Bridge Annual Inspection Program	10,000	10,000
TBD	2000	Bridge Preventative Maintenance Program - Implementation Phase	135,256	
		2000-70-77-80002-720199	145,256	10,000
808 0004 70 76	2005	Traffic Signal Coordination Program	20,000	20,000
		2005-70-76-80008-720199	20,000	20,000
810 0015	2005	Dracaea Avenue Neighborhood Greenway Corridor Study	10,000	10,073
		2005-70-76-80010-720199	10,000	10,073
TBD	2008	Citywide Full Trash Capture Device Installaton	80,000	80,000
		2008-70-29-80004-720199	80,000	80,000
TBD	2301	Juan Bautista de Anza Multi-Use Trail/ Moreno Valley Mall to Iris Avenue - ATP 4	1,010,000	7,393,000
801 0021 70 77	2301	SR-60/ Moreno Beach IC Phase 2	16,800,000	
		2301-70-77-80001-720199	17,810,000	7,393,000
TBD	2301	Bridge Preventative Maintenance Program - Implementation Phase	1,043,958	
		2301-70-77-80002-720199	1,043,958	-
TBD	2512	Pavement Rehabilitation for Various Streets (CDBG FY 19/20)	854,416	
		2512-70-77-80001-720199	854,416	-
804 0014	2512	Sunnymead - Flaming Arrow Drive Storm Drain	250,000	
		2512-70-77-80004-720199	250,000	-
TBD	3000	Satellite Library	750,000	
		3000-30-56-80003-720199	750,000	-
TBD	3000	Corporate Yard Master Plan Improvements	197,000	
		3000-70-29-80003-720199	197,000	-
TBD	3000	Corporate Yard Building/ Fleet Shop Remodel	500,000	
		3000-70-40-80003-720199	500,000	-
804 0016	3002	Moreno - Alessandro Interim Facility (Discovery Church)	235,001	
804 0014	3002	Sunnymead - Flaming Arrow Drive Storm Drain	85,511	
		3002-70-77-80004-720199	320,512	-
801 0021 70 77	3003	SR-60/ Moreno Beach IC Phase 2	2,500,000	5,000,000
		3003-70-77-80001-720199	2,500,000	5,000,000
807 0039	3015	Hidden Springs Park II		30,000
		3015-50-57-80007-720199	-	30,000
TBD	3016	Electronic Marquee Sign	250,000	
803 0027	3016	Lease Space Renovations at Various Park Facilities	100,000	100,000
803 0030	3016	Park Restroom Renovations at Various Sites	30,000	30,000
803 0034	3016	Replace Flooring at Various Community Services Facilities	50,000	
		3016-50-57-80003-720199	430,000	130,000

Attachment: FY 2019/20 & 2020/21 CIP - City Resolution (3552 : PUBLIC HEARING AND ADOPTION OF THE CAPITAL IMPROVEMENT PLAN

807 0005 50 57 3016	Annual ADA Park Improvements	100,000	200,000
807 0045 3016	Cottonwood Golf Center Irrigation Improvements	150,000	100,000
807 0043 3016	Cottonwood Recreation Center Exterior Landscaping	45,000	
807 0004 50 57 3016	Replacement Playground Equipment	25,000	75,000
3016-50-57-80007-720199		320,000	375,000
802 0004 3301	Indian Street/ Cardinal Avenue Bridge (Over Lateral A)	215,000	200,000
3301-70-77-80002-720199		215,000	200,000
801 0021 70 77 3311	SR-60/ Moreno Beach IC Phase 2	100,000	200,000
801 0052 70 77 3311	SR-60 / World Logistics Center Parkway Interchange	75,000	
3311-70-77-80001-720199		175,000	200,000
TBD 5013	Landscape Maintenance Districts Capital Improvement Renovation	34,500	
5013-70-79-80006 -720199		34,500	-
TBD 5014	Landscape Maintenance Districts Capital Improvement Renovation	288,000	166,000
5014-70-79-80006 -720199		288,000	166,000
TBD 5111	Landscape Maintenance Districts Capital Improvement Renovation	213,000	213,000
5111-70-79-80006 -720199		213,000	213,000
TBD 5112	Landscape Maintenance Districts Capital Improvement Renovation	133,000	133,000
5112-70-79-80006 -720199		133,000	133,000
803 0031 5113	Towngate Community Center Renovation	60,000	
5113-50-57-80003 -720199		60,000	-
TBD 5113	Calsense Irrigation Controller Upgrades	32,000	
TBD 5113	Celebration Park Splash Pad UV Purification System	50,000	
TBD 5113	Drinking Fountain Replacements at Various Parks	30,000	22,000
TBD 5113	LED Lighting Upgrades at Various Parks	50,000	70,000
5113-50-57-80007 -720199		162,000	92,000
805 0044 6011	Alessandro Crosstown Tie	250,000	
TBD 6011	City Hall Annex Solar Carports	1,800,000	
805 0049 6011	Day Street Line Extension	100,000	
TBD 6011	Gentian Avenue Line Extension	565,000	
805 0043 6011	Heacock Crosstown Tie	100,000	
805 0045 6011	Mobile Advanced Metering Infrastructure (AMI) System	800,000	
TBD 6011	Moreno Beach Bridge Conduit Project	500,000	
6011-30-80-80005-720199		4,115,000	-
Expenditure Total		34,169,378	17,594,809

Estimated Revenues	Estimated Revenues	
	FY 2019/20	FY 2020/21
2301-99-99-92301-482020		
Project # TBD Juan Bautista de Anza Multi-Use Trail/ Moreno Valley Mall to Iris Avenue - ATP 4	\$1,010,000	\$7,393,000
801 0021 70 77-2301-98 SR-60/ Moreno Beach IC Phase 2	\$16,800,000	
Project # TBD Bridge Preventative Maintenance Program - Implementation Phase	\$1,043,958	
2301-99-99-92301-482020	\$18,853,958	\$7,393,000
3002-99-99-93002-500600		
804 0016-3002-98 Moreno - Alessandro Interim Facility (Discovery Church)	\$235,001	
804 0014-3002-98 Sunnymead - Flaming Arrow Drive Storm Drain	\$85,511	
3002-99-99-93002-500600	\$320,512	\$0
3003-99-99-93003-483010		
801 0021 70 77-3003-98 SR-60/ Moreno Beach IC Phase 2	\$2,500,000	\$5,000,000
3003-99-99-93003-483010	\$2,500,000	\$5,000,000
Estimated Revenue Total	\$21,674,470	\$12,393,000

Note: Establishing estimated revenues at this time. Staff will return to Council if final approval of awards/agreements are needed by the granting agency.

RESOLUTION NO. CSD 2019-_____

A RESOLUTION OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, ADOPTING THE CAPITAL IMPROVEMENT PLAN FOR FYs 2019/20 & 2020/21

WHEREAS, the City Manager has heretofore submitted to the President and Board of Directors of the Moreno Valley Community Services District a Proposed Capital Improvement Plan (CIP) for the District for FYs 2019/20 & 2020/21, a copy of which is on file in the Office of the City Clerk and is available for public inspection; and

WHEREAS, the said Proposed CIP contains the list of projects comprising the budget, and contains expenditure requirements, and the resources available to the Community Services District; and

WHEREAS, the said Proposed CIP proposes certain budget expenditures necessary to meet the expenditure requirements and to provide available resources to the City; and

WHEREAS, the Proposed CIP, as herein approved, will provide the Community Services District the necessary financial plans and enable critical projects to move forward to a timely and fiscally responsible conclusion; and

WHEREAS, certain capital projects commitments have been previously approved by the District's Board of Directors for appropriation in fiscal year 2018/2019 and current adoption of fiscal year 2019/20, and the Chief Financial Officer shall be authorized to carry over such appropriation budgets for these items as approved by the City Manager; and

WHEREAS, following the adoption of the Capital Improvement Plan (CIP), the Public Works Director is authorized to make any minor adjustments in order to finalize the adopted CIP for public distribution.

NOW, THEREFORE, THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

1. The Proposed CIP is hereby approved and adopted as the capital budget of the Community Services District for the FYs 2019/20 & 2020/21.
2. The proposed budget expenditures and estimated revenues as set forth in the Proposed Capital Improvement Plan and detailed as Exhibit A and Exhibit B to this resolution, are approved, hereby appropriated for the various budget programs and will be consolidated with the approved and adopted City Operating Budget for FYs 2019/20 & 2020/21.

- 3. Pursuant to Section 53901 of the California Government Code, by no later than August 30, 2019, the City Clerk shall file a copy of this Resolution with the Auditor/Controller of the County of Riverside.
- 4. Within fifteen (15) days after the adoption of this Resolution, the City Clerk shall certify to the adoption hereof and, as so certified, cause a copy to be posted in at least three (3) public places within the City.

BE IT FURTHER RESOLVED that this resolution shall take effect immediately upon its adoption.

APPROVED AND ADOPTED this 4th day of June, 2019.

 Mayor of the City of Moreno Valley,
 Acting in the capacity of President of the
 Moreno Valley Community Services District

ATTEST:

 City Clerk, acting in the capacity of
 Secretary of the Moreno Valley
 Community Services District

APPROVED AS TO FORM:

 City Attorney, acting in the capacity
 of General Counsel of the Moreno
 Valley Community Services District

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 Resolution No. CSD 2019-
 Date Adopted: June 4, 2019

RESOLUTION JURAT

STATE OF CALIFORNIA)
COUNTY OF RIVERSIDE) ss.
CITY OF MORENO VALLEY)

I, Pat Jacquez-Nares, Secretary of the Moreno Valley Community Services District, Moreno Valley, California do hereby certify that Resolution No. CSD 2019-____ was duly and regularly adopted by the Board of Directors of the Moreno Valley Community Services District at a regular meeting held on the 4th day of June, 2019, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Board Members, Vice-President and President)

SECRETARY

(SEAL)

Resolution No. CSD 2019-____ ³
Date Adopted: June 4, 2019

Attachment: FY 2019/20 & 2020/21 CIP - CSD Resolution (3552 : PUBLIC HEARING AND ADOPTION OF THE CAPITAL IMPROVEMENT PLAN

EXHIBIT A

Budget Transfers

FY 2019/20 New Request

Transfers In			Transfers Out		
<u>Account</u>		<u>Total</u>	<u>Account</u>		<u>Total</u>
3000-99-99-93000-802910	Transfer from Fund 2910	\$197,000	2910-99-95-92910-903000	Transfer to Fund 3000	\$197,000
3000-99-99-93000-802908	Transfer from Fund 2908	\$750,000	2908-99-95-92908-903000	Transfer to Fund 3000	\$750,000
3016-99-99-93016-802019	Transfer from Fund 2019	\$750,000	2019-99-99-92019-903016	Transfer to Fund 3016	\$750,000
3301-99-99-93301-802901	Transfer from Fund 2901	\$215,000	2901-99-95-92901-903301	Transfer to Fund 3301	\$215,000
3311-99-99-93311-802911	Transfer from Fund 2911	\$175,000	2911-99-95-92911-903311	Transfer to Fund 3311	\$175,000
3000-99-99-93000-807510	Transfer from Fund 7510	\$500,000	7510-99-97-88190-903000	Transfer to Fund 3000	\$500,000
	Total	<u>\$2,587,000</u>		Total	<u>\$2,587,000</u>

FY 2020/21 New Request

Transfers In			Transfers Out		
<u>Account</u>		<u>Total</u>	<u>Account</u>		<u>Total</u>
3015-99-99-93015-802905	Transfer from Fund 2905	\$30,000	2905-99-95-92905-903015	Transfer to Fund 3015	\$30,000
3016-99-99-93016-802019	Transfer from Fund 2019	\$505,000	2019-99-99-92019-903016	Transfer to Fund 3016	\$505,000
3301-99-99-93301-802901	Transfer from Fund 2901	\$200,000	2901-99-95-92901-903301	Transfer to Fund 3301	\$200,000
3311-99-99-93311-802911	Transfer from Fund 2911	\$200,000	2911-99-95-92911-903311	Transfer to Fund 3311	\$200,000
	Total	<u>\$935,000</u>		Total	<u>\$935,000</u>

CIP Project - Expenditure/ Estimated Revenue Budgets

Expenditures			Expenditures	
Project Number	Fund	Project Description	FY 2019/20	FY 2020/21
801 0015 70 76	2000	Residential Traffic Mgmt Prgrm (Speed Humps)	50,000	50,000
		2000-70-76-80001-720199	50,000	50,000
801 0008 70 77	2000	Annual ADA Compliant Access Upgrades	200,000	200,000
801 0084	2000A	Citywide Pavement Rehabilitation Program FY19/20	3,292,736	
TBD	2000A	Citywide Pavement Rehabilitation Program FY20/21		3,292,736
		2000-70-77-80001-720199	3,492,736	3,492,736
802 0002 70 77	2000	Bridge Annual Inspection Program	10,000	10,000
TBD	2000	Bridge Preventative Maintenance Program - Implementation Phase	135,256	
		2000-70-77-80002-720199	145,256	10,000
808 0004 70 76	2005	Traffic Signal Coordination Program	20,000	20,000
		2005-70-76-80008-720199	20,000	20,000
810 0015	2005	Dracaea Avenue Neighborhood Greenway Corridor Study	10,000	10,073
		2005-70-76-80010-720199	10,000	10,073
TBD	2008	Citywide Full Trash Capture Device Installaton	80,000	80,000
		2008-70-29-80004-720199	80,000	80,000
TBD	2301	Juan Bautista de Anza Multi-Use Trail/ Moreno Valley Mall to Iris Avenue - ATP 4	1,010,000	7,393,000
801 0021 70 77	2301	SR-60/ Moreno Beach IC Phase 2	16,800,000	
		2301-70-77-80001-720199	17,810,000	7,393,000
TBD	2301	Bridge Preventative Maintenance Program - Implementation Phase	1,043,958	
		2301-70-77-80002-720199	1,043,958	-
TBD	2512	Pavement Rehabilitation for Various Streets (CDBG FY 19/20)	854,416	
		2512-70-77-80001-720199	854,416	-
804 0014	2512	Sunnymead - Flaming Arrow Drive Storm Drain	250,000	
		2512-70-77-80004-720199	250,000	-
TBD	3000	Satellite Library	750,000	
		3000-30-56-80003-720199	750,000	-
TBD	3000	Corporate Yard Master Plan Improvements	197,000	
		3000-70-29-80003-720199	197,000	-
TBD	3000	Corporate Yard Building/ Fleet Shop Remodel	500,000	
		3000-70-40-80003-720199	500,000	-
804 0016	3002	Moreno - Alessandro Interim Facility (Discovery Church)	235,001	
804 0014	3002	Sunnymead - Flaming Arrow Drive Storm Drain	85,511	
		3002-70-77-80004-720199	320,512	-
801 0021 70 77	3003	SR-60/ Moreno Beach IC Phase 2	2,500,000	5,000,000
		3003-70-77-80001-720199	2,500,000	5,000,000
807 0039	3015	Hidden Springs Park II		30,000
		3015-50-57-80007-720199	-	30,000
TBD	3016	Electronic Marquee Sign	250,000	
803 0027	3016	Lease Space Renovations at Various Park Facilities	100,000	100,000
803 0030	3016	Park Restroom Renovations at Various Sites	30,000	30,000
803 0034	3016	Replace Flooring at Various Community Services Facilities	50,000	
		3016-50-57-80003-720199	430,000	130,000

Attachment: FY 2019/20 & 2020/21 CIP - CSD Resolution (3552 : PUBLIC HEARING AND ADOPTION OF THE CAPITAL IMPROVEMENT PLAN

807 0005 50 57 3016	Annual ADA Park Improvements	100,000	200,000
807 0045 3016	Cottonwood Golf Center Irrigation Improvements	150,000	100,000
807 0043 3016	Cottonwood Recreation Center Exterior Landscaping	45,000	
807 0004 50 57 3016	Replacement Playground Equipment	25,000	75,000
3016-50-57-80007-720199		320,000	375,000
802 0004 3301	Indian Street/ Cardinal Avenue Bridge (Over Lateral A)	215,000	200,000
3301-70-77-80002-720199		215,000	200,000
801 0021 70 77 3311	SR-60/ Moreno Beach IC Phase 2	100,000	200,000
801 0052 70 77 3311	SR-60 / World Logistics Center Parkway Interchange	75,000	
3311-70-77-80001-720199		175,000	200,000
TBD 5013	Landscape Maintenance Districts Capital Improvement Renovation	34,500	
5013-70-79-80006 -720199		34,500	-
TBD 5014	Landscape Maintenance Districts Capital Improvement Renovation	288,000	166,000
5014-70-79-80006 -720199		288,000	166,000
TBD 5111	Landscape Maintenance Districts Capital Improvement Renovation	213,000	213,000
5111-70-79-80006 -720199		213,000	213,000
TBD 5112	Landscape Maintenance Districts Capital Improvement Renovation	133,000	133,000
5112-70-79-80006 -720199		133,000	133,000
803 0031 5113	Towngate Community Center Renovation	60,000	
5113-50-57-80003 -720199		60,000	-
TBD 5113	Calsense Irrigation Controller Upgrades	32,000	
TBD 5113	Celebration Park Splash Pad UV Purification System	50,000	
TBD 5113	Drinking Fountain Replacements at Various Parks	30,000	22,000
TBD 5113	LED Lighting Upgrades at Various Parks	50,000	70,000
5113-50-57-80007 -720199		162,000	92,000
805 0044 6011	Alessandro Crosstown Tie	250,000	
TBD 6011	City Hall Annex Solar Carports	1,800,000	
805 0049 6011	Day Street Line Extension	100,000	
TBD 6011	Gentian Avenue Line Extension	565,000	
805 0043 6011	Heacock Crosstown Tie	100,000	
805 0045 6011	Mobile Advanced Metering Infrastructure (AMI) System	800,000	
TBD 6011	Moreno Beach Bridge Conduit Project	500,000	
6011-30-80-80005-720199		4,115,000	-
Expenditure Total		34,169,378	17,594,809

Estimated Revenues	Estimated Revenues	
	FY 2019/20	FY 2020/21
2301-99-99-92301-482020		
Project # TBD Juan Bautista de Anza Multi-Use Trail/ Moreno Valley Mall to Iris Avenue - ATP 4	\$1,010,000	\$7,393,000
801 0021 70 77-2301-98 SR-60/ Moreno Beach IC Phase 2	\$16,800,000	
Project # TBD Bridge Preventative Maintenance Program - Implementation Phase	\$1,043,958	
2301-99-99-92301-482020	\$18,853,958	\$7,393,000
3002-99-99-93002-500600		
804 0016-3002-98 Moreno - Alessandro Interim Facility (Discovery Church)	\$235,001	
804 0014-3002-98 Sunnymead - Flaming Arrow Drive Storm Drain	\$85,511	
3002-99-99-93002-500600	\$320,512	\$0
3003-99-99-93003-483010		
801 0021 70 77-3003-98 SR-60/ Moreno Beach IC Phase 2	\$2,500,000	\$5,000,000
3003-99-99-93003-483010	\$2,500,000	\$5,000,000
Estimated Revenue Total	\$21,674,470	\$12,393,000

Note: Establishing estimated revenues at this time. Staff will return to Council if final approval of awards/agreements are needed by the granting agency.

RESOLUTION NO. HA 2019-_____

A RESOLUTION OF THE MORENO VALLEY HOUSING AUTHORITY OF THE CITY OF MORENO VALLEY, CALIFORNIA, ADOPTING THE CAPITAL IMPROVEMENT PLAN FOR FYs 2019/20 & 2020/21

WHEREAS, the City Manager has heretofore submitted to the Chairperson and the Board of Directors of the Moreno Valley Housing Authority a Proposed Capital Improvement Plan (CIP) for the Housing Authority for FYs 2019/20 & 2020/21, a copy of which is on file in the Office of the City Clerk and is available for public inspection; and

WHEREAS, the said Proposed CIP contains the list of projects comprising the budget, and contains expenditure requirements, and the resources available to the Moreno Valley Housing Authority; and

WHEREAS, the said Proposed CIP proposes certain budget expenditures necessary to meet the expenditure requirements and to provide available resources to the City; and

WHEREAS, the Proposed CIP, as herein approved, will provide the Moreno Valley Housing Authority the necessary financial plans and will enable critical projects to move forward to a timely and fiscally responsible conclusion; and

WHEREAS, certain capital projects commitments have been previously approved by the Housing Authority for appropriation in fiscal year 2018/2019 and current adoption of fiscal year 2019/20, and the Chief Financial Officer shall be authorized to carry over such appropriation budgets for these items as approved by the City Manager; and

WHEREAS, following the adoption of the Capital Improvement Plan (CIP), the Public Works Director is authorized to make any minor adjustments in order to finalize the adopted CIP for public distribution.

NOW, THEREFORE, THE MORENO VALLEY HOUSING AUTHORITY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

1. The Proposed CIP is hereby approved and adopted as the capital budget of the Moreno Valley Housing Authority for the FYs 2019/20 & 2020/21.
2. The proposed budget expenditures and estimated revenues as set forth in the Proposed Capital Improvement Plan and detailed as Exhibit A and Exhibit B to this resolution, are approved, hereby appropriated for the various budget programs and will be consolidated with the approved and adopted City Operating Budget for FYs 2019/20 & 2020/21.
3. Pursuant to Section 53901 of the California Government Code, by no later

1

Resolution No. HA 2019-_____
Date Adopted: June 4, 2019

than August 30, 2019, the City Clerk shall file a copy of this Resolution with the Auditor/Controller of the County of Riverside.

- 4. Within fifteen (15) days after the adoption of this Resolution, the City Clerk shall certify to the adoption hereof and, as so certified, cause a copy to be posted in at least three (3) public places within the City.

BE IT FURTHER RESOLVED that this resolution shall take effect immediately upon its adoption.

APPROVED AND ADOPTED this 4th day of June, 2019.

Mayor of the City of Moreno Valley,
Acting in the capacity of Chairman of the
Moreno Valley Housing Authority

ATTEST:

City Clerk, acting in the capacity of
Secretary of the Moreno Valley
Housing Authority

APPROVED AS TO FORM:

City Attorney, acting in the capacity
of General Counsel of the Moreno
Valley Housing Authority

2
Resolution No. HA 2019-
Date Adopted: June 4, 2019

Attachment: FY 2019/20 & 2020/21 CIP - HA Resolution (3552 : PUBLIC HEARING AND ADOPTION OF THE CAPITAL IMPROVEMENT PLAN FOR

RESOLUTION JURAT

STATE OF CALIFORNIA)
COUNTY OF RIVERSIDE) ss.
CITY OF MORENO VALLEY)

I, Pat Jacquez-Nares, Secretary of the Moreno Valley Housing Authority of the City of Moreno Valley, California, do hereby certify that Resolution No. HA 2019-_____ was duly and regularly adopted by the Commissioners of the Moreno Valley Housing Authority at a regular meeting thereof held on the 4th day of June, 2019 by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Commissioners, Vice Chairperson and Chairperson)

SECRETARY

(SEAL)

Resolution No. HA 2019-_____ 3
Date Adopted: June 4, 2019

Attachment: FY 2019/20 & 2020/21 CIP - HA Resolution (3552 : PUBLIC HEARING AND ADOPTION OF THE CAPITAL IMPROVEMENT PLAN FOR

EXHIBIT A

Budget Transfers

FY 2019/20 New Request

Transfers In			Transfers Out		
<u>Account</u>		<u>Total</u>	<u>Account</u>		<u>Total</u>
3000-99-99-93000-802910	Transfer from Fund 2910	\$197,000	2910-99-95-92910-903000	Transfer to Fund 3000	\$197,000
3000-99-99-93000-802908	Transfer from Fund 2908	\$750,000	2908-99-95-92908-903000	Transfer to Fund 3000	\$750,000
3016-99-99-93016-802019	Transfer from Fund 2019	\$750,000	2019-99-99-92019-903016	Transfer to Fund 3016	\$750,000
3301-99-99-93301-802901	Transfer from Fund 2901	\$215,000	2901-99-95-92901-903301	Transfer to Fund 3301	\$215,000
3311-99-99-93311-802911	Transfer from Fund 2911	\$175,000	2911-99-95-92911-903311	Transfer to Fund 3311	\$175,000
3000-99-99-93000-807510	Transfer from Fund 7510	\$500,000	7510-99-97-88190-903000	Transfer to Fund 3000	\$500,000
	Total	<u>\$2,587,000</u>		Total	<u>\$2,587,000</u>

FY 2020/21 New Request

Transfers In			Transfers Out		
<u>Account</u>		<u>Total</u>	<u>Account</u>		<u>Total</u>
3015-99-99-93015-802905	Transfer from Fund 2905	\$30,000	2905-99-95-92905-903015	Transfer to Fund 3015	\$30,000
3016-99-99-93016-802019	Transfer from Fund 2019	\$505,000	2019-99-99-92019-903016	Transfer to Fund 3016	\$505,000
3301-99-99-93301-802901	Transfer from Fund 2901	\$200,000	2901-99-95-92901-903301	Transfer to Fund 3301	\$200,000
3311-99-99-93311-802911	Transfer from Fund 2911	\$200,000	2911-99-95-92911-903311	Transfer to Fund 3311	\$200,000
	Total	<u>\$935,000</u>		Total	<u>\$935,000</u>

CIP Project - Expenditure/ Estimated Revenue Budgets

Expenditures			Expenditures	
Project Number	Fund	Project Description	FY 2019/20	FY 2020/21
801 0015 70 76	2000	Residential Traffic Mgmt Prgrm (Speed Humps)	50,000	50,000
		2000-70-76-80001-720199	50,000	50,000
801 0008 70 77	2000	Annual ADA Compliant Access Upgrades	200,000	200,000
801 0084	2000A	Citywide Pavement Rehabilitation Program FY19/20	3,292,736	
TBD	2000A	Citywide Pavement Rehabilitation Program FY20/21		3,292,736
		2000-70-77-80001-720199	3,492,736	3,492,736
802 0002 70 77	2000	Bridge Annual Inspection Program	10,000	10,000
TBD	2000	Bridge Preventative Maintenance Program - Implementation Phase	135,256	
		2000-70-77-80002-720199	145,256	10,000
808 0004 70 76	2005	Traffic Signal Coordination Program	20,000	20,000
		2005-70-76-80008-720199	20,000	20,000
810 0015	2005	Dracaea Avenue Neighborhood Greenway Corridor Study	10,000	10,073
		2005-70-76-80010-720199	10,000	10,073
TBD	2008	Citywide Full Trash Capture Device Installaton	80,000	80,000
		2008-70-29-80004-720199	80,000	80,000
TBD	2301	Juan Bautista de Anza Multi-Use Trail/ Moreno Valley Mall to Iris Avenue - ATP 4	1,010,000	7,393,000
801 0021 70 77	2301	SR-60/ Moreno Beach IC Phase 2	16,800,000	
		2301-70-77-80001-720199	17,810,000	7,393,000
TBD	2301	Bridge Preventative Maintenance Program - Implementation Phase	1,043,958	
		2301-70-77-80002-720199	1,043,958	-
TBD	2512	Pavement Rehabilitation for Various Streets (CDBG FY 19/20)	854,416	
		2512-70-77-80001-720199	854,416	-
804 0014	2512	Sunnymead - Flaming Arrow Drive Storm Drain	250,000	
		2512-70-77-80004-720199	250,000	-
TBD	3000	Satellite Library	750,000	
		3000-30-56-80003-720199	750,000	-
TBD	3000	Corporate Yard Master Plan Improvements	197,000	
		3000-70-29-80003-720199	197,000	-
TBD	3000	Corporate Yard Building/ Fleet Shop Remodel	500,000	
		3000-70-40-80003-720199	500,000	-
804 0016	3002	Moreno - Alessandro Interim Facility (Discovery Church)	235,001	
804 0014	3002	Sunnymead - Flaming Arrow Drive Storm Drain	85,511	
		3002-70-77-80004-720199	320,512	-
801 0021 70 77	3003	SR-60/ Moreno Beach IC Phase 2	2,500,000	5,000,000
		3003-70-77-80001-720199	2,500,000	5,000,000
807 0039	3015	Hidden Springs Park II		30,000
		3015-50-57-80007-720199	-	30,000
TBD	3016	Electronic Marquee Sign	250,000	
803 0027	3016	Lease Space Renovations at Various Park Facilities	100,000	100,000
803 0030	3016	Park Restroom Renovations at Various Sites	30,000	30,000
803 0034	3016	Replace Flooring at Various Community Services Facilities	50,000	
		3016-50-57-80003-720199	430,000	130,000

Attachment: FY 2019/20 & 2020/21 CIP - HA Resolution (3552) : PUBLIC HEARING AND ADOPTION OF THE CAPITAL IMPROVEMENT PLAN FOR

807 0005 50 57 3016	Annual ADA Park Improvements	100,000	200,000
807 0045 3016	Cottonwood Golf Center Irrigation Improvements	150,000	100,000
807 0043 3016	Cottonwood Recreation Center Exterior Landscaping	45,000	
807 0004 50 57 3016	Replacement Playground Equipment	25,000	75,000
3016-50-57-80007-720199		320,000	375,000
802 0004 3301	Indian Street/ Cardinal Avenue Bridge (Over Lateral A)	215,000	200,000
3301-70-77-80002-720199		215,000	200,000
801 0021 70 77 3311	SR-60/ Moreno Beach IC Phase 2	100,000	200,000
801 0052 70 77 3311	SR-60 / World Logistics Center Parkway Interchange	75,000	
3311-70-77-80001-720199		175,000	200,000
TBD 5013	Landscape Maintenance Districts Capital Improvement Renovation	34,500	
5013-70-79-80006 -720199		34,500	-
TBD 5014	Landscape Maintenance Districts Capital Improvement Renovation	288,000	166,000
5014-70-79-80006 -720199		288,000	166,000
TBD 5111	Landscape Maintenance Districts Capital Improvement Renovation	213,000	213,000
5111-70-79-80006 -720199		213,000	213,000
TBD 5112	Landscape Maintenance Districts Capital Improvement Renovation	133,000	133,000
5112-70-79-80006 -720199		133,000	133,000
803 0031 5113	Towngate Community Center Renovation	60,000	
5113-50-57-80003 -720199		60,000	-
TBD 5113	Calsense Irrigation Controller Upgrades	32,000	
TBD 5113	Celebration Park Splash Pad UV Purification System	50,000	
TBD 5113	Drinking Fountain Replacements at Various Parks	30,000	22,000
TBD 5113	LED Lighting Upgrades at Various Parks	50,000	70,000
5113-50-57-80007 -720199		162,000	92,000
805 0044 6011	Alessandro Crosstown Tie	250,000	
TBD 6011	City Hall Annex Solar Carports	1,800,000	
805 0049 6011	Day Street Line Extension	100,000	
TBD 6011	Gentian Avenue Line Extension	565,000	
805 0043 6011	Heacock Crosstown Tie	100,000	
805 0045 6011	Mobile Advanced Metering Infrastructure (AMI) System	800,000	
TBD 6011	Moreno Beach Bridge Conduit Project	500,000	
6011-30-80-80005-720199		4,115,000	-
Expenditure Total		34,169,378	17,594,809

Estimated Revenues	Estimated Revenues	
	FY 2019/20	FY 2020/21
2301-99-99-92301-482020		
Project # TBD Juan Bautista de Anza Multi-Use Trail/ Moreno Valley Mall to Iris Avenue - ATP 4	\$1,010,000	\$7,393,000
801 0021 70 77-2301-98 SR-60/ Moreno Beach IC Phase 2	\$16,800,000	
Project # TBD Bridge Preventative Maintenance Program - Implementation Phase	\$1,043,958	
2301-99-99-92301-482020	\$18,853,958	\$7,393,000
3002-99-99-93002-500600		
804 0016-3002-98 Moreno - Alessandro Interim Facility (Discovery Church)	\$235,001	
804 0014-3002-98 Sunnymead - Flaming Arrow Drive Storm Drain	\$85,511	
3002-99-99-93002-500600	\$320,512	\$0
3003-99-99-93003-483010		
801 0021 70 77-3003-98 SR-60/ Moreno Beach IC Phase 2	\$2,500,000	\$5,000,000
3003-99-99-93003-483010	\$2,500,000	\$5,000,000
Estimated Revenue Total	\$21,674,470	\$12,393,000

Note: Establishing estimated revenues at this time. Staff will return to Council if final approval of awards/agreements are needed by the granting agency.

**CITY OF MORENO VALLEY
Capital Improvement Plan - Project Details
FYs 2019-2024 and Beyond**

<p>Project Title: Citywide Pavement Rehabilitation Program FY 19/20</p> <p>Department / Division: Public Works Department / Capital Projects Division</p>	<p>Project Status:</p> <p><input checked="" type="checkbox"/> New <input type="checkbox"/> Deleted</p> <p><input type="checkbox"/> In Progress <input type="checkbox"/> On Hold</p> <p><input type="checkbox"/> Completed</p>	<p>Project Priority in CIP Category:</p> <p><input checked="" type="checkbox"/> Essential (Start within 1 yr)</p> <p><input type="checkbox"/> Necessary (Start within 1 to 3 yrs)</p> <p><input type="checkbox"/> Desirable (Start within 3 to 5 yrs)</p> <p><input type="checkbox"/> Deferrable (Start within 5 to 10 yrs)</p>
<p>Project Description: This project is to provide pavement rehabilitation for approximately 22 street segments citywide. The project is funded with Gas Tax Revenues (SB1).</p> <p>Design: July 2019 to March 2020 Advertise / Award: April 2020 to June 2020 Construction: July 2020 to October 2020</p> <p>Justification or Significance of Improvement: The project utilizes different cost effective treatments available to rehab the existing street pavement. The project helps to extend the services life of the roadway.</p> <p>Estimated Maintenance Costs: Street maintenance is typically funded by Gas Tax and Measure A funds, and costs on average are approximately \$1.40 / square foot for grind and overlay and \$0.30 / square foot for slurry seal. Street maintenance costs over a 20 year period are estimated to average almost \$12,000 per 13 foot wide lane mile per year. Street maintenance funding will be part of the deferred maintenance for the whole network.</p>	<p>Project Location Map:</p> <p align="center">CITYWIDE</p>	
<p>Council District(s):</p> <p align="center"> <input checked="" type="checkbox"/> District 1 <input checked="" type="checkbox"/> District 2 <input checked="" type="checkbox"/> District 3 <input checked="" type="checkbox"/> District 4 </p>		

S-4

Life-to-Date Expenditures Through FY 2017/2018: 0			FY 19/20 - FY 20/21 Budget					
PROJECT PHASE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
Prelim. Eng. / Environ. Design			100,000					100,000
Right of Way Construction			3,192,736					3,192,736
Other								
PROJECT TOTAL	0		3,292,736	0	0	0	0	3,292,736
FUNDING SOURCE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
Gas Tax (2000A) 801 0084-2000A			3,292,736					3,292,736
REVENUE TOTAL	0		3,292,736	0	0	0	0	3,292,736

Attachment: FY 2019/20 & 2020/21 CIP - New Funding Requests (3552 : PUBLIC HEARING AND

**CITY OF MORENO VALLEY
Capital Improvement Plan - Project Details
FYs 2019-2024 and Beyond**

<p>Project Title: Citywide Pavement Rehabilitation Program FY 20/21</p> <p>Department / Division: Public Works Department / Capital Projects Division</p>	<p>Project Status:</p> <input checked="" type="checkbox"/> New <input type="checkbox"/> In Progress <input type="checkbox"/> Completed <input type="checkbox"/> Deleted <input type="checkbox"/> On Hold	<p>Project Priority in CIP Category:</p> <input checked="" type="checkbox"/> Essential (Start within 1 yr) <input type="checkbox"/> Necessary (Start within 1 to 3 yrs) <input type="checkbox"/> Desirable (Start within 3 to 5 yrs) <input type="checkbox"/> Deferrable (Start within 5 to 10 yrs)
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Project Description:
 This project is to provide pavement rehabilitation for a number of street segments citywide. The project is funded with Gas Tax Revenues (SB1).

Design: July 2020 to March 2021
 Advertise / Award: April 2021 to June 2021
 Construction: July 2021 to October 2021

Justification or Significance of Improvement:
 The project utilizes different cost effective treatments available to rehab the existing street pavement. The project helps to extend the services life of the roadway.

Estimated Maintenance Costs:
 Street maintenance is typically funded by Gas Tax and Measure A funds, and costs on average are approximately \$1.40 / square foot for grind and overlay and \$0.30 / square foot for slurry seal. Street maintenance costs over a 20 year period are estimated to average almost \$12,000 per 13 foot wide lane mile per year. Street maintenance funding will be part of the deferred maintenance for the whole network.

Project Location Map:

CITYWIDE

Council District(s):

District 1
 District 2
 District 3
 District 4

2-2


Life-to-Date Expenditures Through FY 2017/2018: 0			FY 19/20 - FY 20/21 Budget					
PROJECT PHASE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
Prelim. Eng. / Environ. Design				100,000				100,000
Right of Way Construction				3,192,736				3,192,736
Other								
PROJECT TOTAL	0		0	3,292,736	0	0	0	3,292,736
FUNDING SOURCE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
Gas Tax (2000A) 2000A				3,292,736				3,292,736
REVENUE TOTAL	0		0	3,292,736	0	0	0	3,292,736

Attachment: FY 2019/20 & 2020/21 CIP - New Funding Requests (3552 : PUBLIC HEARING AND

CITY OF MORENO VALLEY
Capital Improvement Plan - Project Details
FYs 2019-2024 and Beyond

Project Title: Juan Bautista de Anza Multi-Use Trail / Moreno Valley Mall to Iris Avenue - ATP 4

Department / Division: Public Works Department / Capital Projects Division



Project Status:

New
 In Progress
 Completed

Deleted
 On Hold

Project Priority in CIP Category:

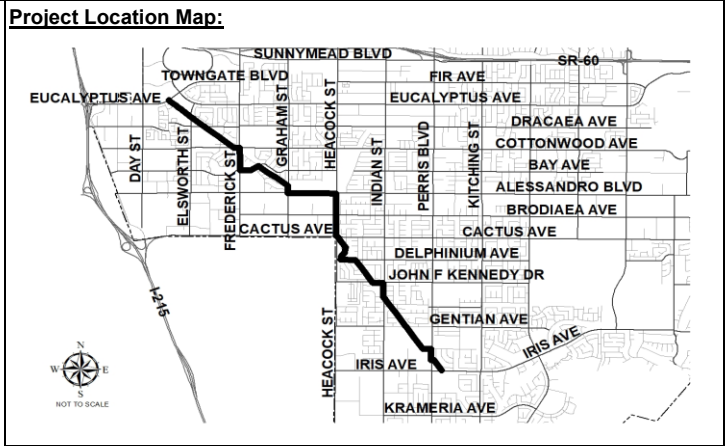
Essential (Start within 1 yr)
 Necessary (Start within 1 to 3 yrs)
 Desirable (Start within 3 to 5 yrs)
 Deferrable (Start within 5 to 10 yrs)

Project Description:
 This project will design and construct more than four mile long bicycle and pedestrian path segments of the Juan Bautista de Anza Multi-Use Trail from Moreno Valley Mall to Iris Avenue. The project is funded by the state's Active Transportation Program (ATP) Fund, Cycle 4.

Preliminary Engineering / Environmental: Completed in November 2018
 Design and Right of Way: September 2019 to February 2021
 Construction: May 2021 to April 2022

Justification or Significance of Improvement:
 The project will expand recreational opportunities for Moreno Valley's residents.

Estimated Maintenance Costs:
 Trail maintenance costs average approximately \$4,000 per acre per year based on budget information provided by the Parks Maintenance Division. Actual maintenance costs may vary depending on the size and amenities of the site.



Council District(s):

District 1 District 2 District 3 District 4

01-S

Life-to-Date Expenditures Through FY 2017/2018: 0			FY 19/20 - FY 20/21 Budget					
PROJECT PHASE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
Prelim. Eng. / Environ. Design			60,000					60,000
Right of Way			350,000					350,000
Construction			600,000					600,000
Other				7,393,000				7,393,000
PROJECT TOTAL	0		1,010,000	7,393,000	0	0	0	8,403,000
FUNDING SOURCE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
Cap Proj Grants (2301) 2301			1,010,000	7,393,000				8,403,000
REVENUE TOTAL	0		1,010,000	7,393,000	0	0	0	8,403,000

Attachment: FY 2019/20 & 2020/21 CIP - New Funding Requests (3552 : PUBLIC HEARING AND

**CITY OF MORENO VALLEY
Capital Improvement Plan - Project Details
FYs 2019-2024 and Beyond**

<p>Project Title: Pavement Rehabilitation for Various Streets (CDBG FY 19/20)</p> <p>Department / Division: Public Works Department / Capital Projects Division</p>	<p>Project Status:</p> <input checked="" type="checkbox"/> New <input type="checkbox"/> In Progress <input type="checkbox"/> Completed <input type="checkbox"/> Deleted <input type="checkbox"/> On Hold	<p>Project Priority in CIP Category:</p> <input checked="" type="checkbox"/> Essential (Start within 1 yr) <input type="checkbox"/> Necessary (Start within 1 to 3 yrs) <input type="checkbox"/> Desirable (Start within 3 to 5 yrs) <input type="checkbox"/> Deferrable (Start within 5 to 10 yrs)
<p>Project Description: This project is to provide pavement rehabilitation for various streets in the CDBG target areas. Rehabilitation includes the removal and replacement of pavement surface as well as crack sealing and applications of slurry seal to extend the service life of the street pavement.</p> <p>Design: May to July 2019 Advertise/Award: August to September 2019 Construction: October to December 2019</p> <p>Justification or Significance of Improvement: The project within CDBG target areas and eligible to receive CDBG funding. Streets are prioritized and selected for rehabilitation based on their pavement conditions.</p> <p>Estimated Maintenance Costs: Street maintenance is typically funded by Gas Tax and Measure A funds, and costs on average are approximately \$1.40 / square foot for grind and overlay and \$0.30 / square foot for slurry seal. Street maintenance costs over a 20 year period are estimated to average almost \$12,000 per 13 foot wide lane mile per year. Street maintenance funding will be part of the deferred maintenance for the whole network.</p>	<p>Project Location Map:</p> <p align="center">CITYWIDE</p>	
<p align="center">Council District(s):</p> <input checked="" type="checkbox"/> District 1 <input checked="" type="checkbox"/> District 2 <input checked="" type="checkbox"/> District 3 <input checked="" type="checkbox"/> District 4		

S-13

Life-to-Date Expenditures Through FY 2017/2018:			FY 19/20 - FY 20/21 Budget					
PROJECT PHASE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
Prelim. Eng. / Environ. Design			90,000					90,000
Right of Way Construction			764,416					764,416
Other								
PROJECT TOTAL	0		854,416	0	0	0	0	854,416

FUNDING SOURCE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
CDBG (2512)			854,416					854,416
2512								
REVENUE TOTAL	0		854,416	0	0	0	0	854,416

Attachment: FY 2019/20 & 2020/21 CIP - New Funding Requests (3552 : PUBLIC HEARING AND

**CITY OF MORENO VALLEY
Capital Improvement Plan - Project Details
FYs 2019-2024 and Beyond**

<p>Project Title: SR-60 / Moreno Beach Drive Interchange (Phase 2)</p> <p>Department / Division: Public Works Department / Capital Projects Division</p>	<p>Project Status:</p> <p><input type="checkbox"/> New <input checked="" type="checkbox"/> In Progress <input type="checkbox"/> Completed</p> <p><input type="checkbox"/> Deleted <input type="checkbox"/> On Hold</p>	<p>Project Priority in CIP Category:</p> <p><input checked="" type="checkbox"/> Essential (Start within 1 yr) <input type="checkbox"/> Necessary (Start within 1 to 3 yrs) <input type="checkbox"/> Desirable (Start within 3 to 5 yrs) <input type="checkbox"/> Deferrable (Start within 5 to 10 yrs)</p>
<p>Project Description: This project replaces the SR-60 / Moreno Beach two-lane bridge with a seven lane bridge, reconfigures the north side of the interchange, and adds a west bound auxiliary lane. The interchange will have a cloverleaf in the northeast quadrant and a dedicated southbound Moreno Beach to westbound SR-60 on-ramp. The eastbound ramp terminals constructed in 2013 will be raised to meet the new grade of the bridge. Caltrans also requires a portion of Storm Drain Line K-1 upstream in Ironwood Avenue to be completed. The City received an SB1 TCEP grant for interchange construction.</p> <p>Right of Way: Completed Design: December 2018 to December 2019 Advertise/Award: January 2020 to May 2020 Construction: June 2020 to December 2021</p> <p>Justification or Significance of Improvement: Expansion of the current facilities will be needed due to the traffic demand resulting from development in the area. Moreno Beach Drive is on the TUMF network.</p> <p>Estimated Maintenance Costs: Street and bridge surface maintenance costs over a 20 year period are estimated to average approximately \$12,000 per 13 foot wide lane mile per year. Caltrans will fund maintenance of the ramps, freeway, and structures.</p>	<p>Project Location Map:</p> <p>Council District(s):</p> <p><input type="checkbox"/> District 1 <input checked="" type="checkbox"/> District 2 <input checked="" type="checkbox"/> District 3 <input type="checkbox"/> District 4</p>	

S-15

Life-to-Date Expenditures Through FY 2017/2018: 9,331,626			FY 19/20 - FY 20/21 Budget					
PROJECT PHASE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
Prelim. Eng. / Environ. Design	1,210,072							
Right of Way								
Construction			19,400,000	5,200,000				24,600,000
Other								
PROJECT TOTAL	1,210,072		19,400,000	5,200,000	0	0	0	24,600,000
FUNDING SOURCE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
TUMF (3003)								
801 0021-3003	1,161,200		2,500,000	5,000,000				7,500,000
DIF Interchange (2911)								
801 0021-3311	48,872		100,000	200,000				300,000
TCEP (2301)								
801 0021-2301			16,800,000					16,800,000
REVENUE TOTAL	1,210,072		19,400,000	5,200,000	0	0	0	24,600,000

Attachment: FY 2019/20 & 2020/21 CIP - New Funding Requests (3552 : PUBLIC HEARING AND

**CITY OF MORENO VALLEY
Capital Improvement Plan - Project Details
FYs 2019-2024 and Beyond**

<p>Project Title: Annual ADA Compliant Access Upgrades</p> <p>Department / Division: Public Works Department / Capital Projects Division</p>	<p>Project Status:</p> <input type="checkbox"/> New <input checked="" type="checkbox"/> In Progress <input type="checkbox"/> Completed <input type="checkbox"/> Deleted <input type="checkbox"/> On Hold	<p>Project Priority in CIP Category:</p> <input checked="" type="checkbox"/> Essential (Start within 1 yr) <input type="checkbox"/> Necessary (Start within 1 to 3 yrs) <input type="checkbox"/> Desirable (Start within 3 to 5 yrs) <input type="checkbox"/> Deferrable (Start within 5 to 10 yrs)
<p>Project Description: The City's Americans with Disabilities Act (ADA) Transition Plan includes evaluating and upgrading non-compliant curb ramps and sidewalks, missing curb ramps and sidewalks, and other non-compliant issues within the public right of way (PROW) throughout the City. The ADA administrator provides annual recommendations for curb ramp and sidewalk improvements including an ADA Transition Plan inspection.</p> <p>Project Schedule: Ongoing</p> <p>Justification or Significance of Improvement: The City's ADA Transition Plan identifies construction of non-compliant ramps and sidewalks to ADA specifications, based on the City's tier priorities and ADA coordinator's directions for compliance.</p> <p>Estimated Maintenance Costs: Ramp maintenance costs over a 20 year period is estimated to average approximately \$750 per location per year.</p>	<p>Project Location Map:</p> <p align="center">CITYWIDE</p>	
<p>Council District(s):</p> <input checked="" type="checkbox"/> District 1 <input checked="" type="checkbox"/> District 2 <input checked="" type="checkbox"/> District 3 <input checked="" type="checkbox"/> District 4		

S-17

Life-to-Date Expenditures Through FY 2017/2018: 1,005,666		FY 19/20 - FY 20/21 Budget					
PROJECT PHASE	Budget FY 2018/2019	New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
Prelim. Eng. / Environ. Design	75,000	25,000	25,000	25,000	25,000	25,000	125,000
Right of Way Construction	454,878	150,000	150,000	150,000	150,000	150,000	750,000
Other	100,000	25,000	25,000	25,000	25,000	25,000	125,000
PROJECT TOTAL	629,878	200,000	200,000	200,000	200,000	200,000	1,000,000
FUNDING SOURCE	Budget FY 2018/2019	New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
Measure A (2001) 801 0008 70 77-2001	229,878						
Gas Tax (2000) 801 0008 70 77-2000	400,000	200,000	200,000	200,000	200,000	200,000	1,000,000
REVENUE TOTAL	629,878	200,000	200,000	200,000	200,000	200,000	1,000,000

Attachment: FY 2019/20 & 2020/21 CIP - New Funding Requests (3552 : PUBLIC HEARING AND ADOPTION

**CITY OF MORENO VALLEY
Capital Improvement Plan - Project Details
FYs 2019-2024 and Beyond**

<p>Project Title: Residential Traffic Management Program (Speed Hump Program)</p> <p>Department / Division: Public Works Department / Transportation Engineering Division</p>	<p>Project Status:</p> <input type="checkbox"/> New <input checked="" type="checkbox"/> In Progress <input type="checkbox"/> Completed <input type="checkbox"/> Deleted <input type="checkbox"/> On Hold	<p>Project Priority in CIP Category:</p> <input checked="" type="checkbox"/> Essential (Start within 1 yr) <input type="checkbox"/> Necessary (Start within 1 to 3 yrs) <input type="checkbox"/> Desirable (Start within 3 to 5 yrs) <input type="checkbox"/> Deferrable (Start within 5 to 10 yrs)
<p>Project Description: Citywide traffic management strategies, including signing, striping, radar speed feedback signs, and installation of speed humps to be implemented based on vehicular speeds and traffic volumes to supplement existing public education and enforcement efforts to reduce vehicle speeds within residential neighborhoods.</p> <p>Project Schedule: Ongoing</p> <p>Justification or Significance of Improvement: The Transportation Engineering Division has established the Residential Traffic Management Program under City Council's direction to address residential speeding issues.</p> <p>Estimated Maintenance Costs: Annual average cost associated with maintaining speed hump performance is \$500 per hump.</p>	<p>Project Location Map:</p> <p align="center">CITYWIDE</p>	
<p>Council District(s):</p> <input checked="" type="checkbox"/> District 1 <input checked="" type="checkbox"/> District 2 <input checked="" type="checkbox"/> District 3 <input checked="" type="checkbox"/> District 4		

Life-to-Date Expenditures Through FY 2017/2018: 223,920			FY 19/20 - FY 20/21 Budget					
PROJECT PHASE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
Prelim. Eng. / Environ. Design Right of Way Construction Other	111,090		50,000	50,000	50,000	50,000	50,000	250,000
PROJECT TOTAL	111,090		50,000	50,000	50,000	50,000	50,000	250,000
FUNDING SOURCE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
Gas Tax (2000) 801 0015 70 76-2000 Measure A (2001) 801 0015 70 76-2001	100,000 11,090		50,000	50,000	50,000	50,000	50,000	250,000
REVENUE TOTAL	111,090		50,000	50,000	50,000	50,000	50,000	250,000

S-24

Attachment: FY 2019/20 & 2020/21 CIP - New Funding Requests (3552 : PUBLIC HEARING AND ADOPTION

**CITY OF MORENO VALLEY
Capital Improvement Plan - Project Details
FYs 2019-2024 and Beyond**

<p>Project Title: SR-60 / World Logistics Center Parkway Interchange</p> <p>Department / Division: Public Works Department / Capital Projects Division</p>	<p>Project Status:</p> <p><input type="checkbox"/> New <input checked="" type="checkbox"/> In Progress <input type="checkbox"/> Completed</p> <p><input type="checkbox"/> Deleted <input type="checkbox"/> On Hold</p>	<p>Project Priority in CIP Category:</p> <p><input checked="" type="checkbox"/> Essential (Start within 1 yr) <input type="checkbox"/> Necessary (Start within 1 to 3 yrs) <input type="checkbox"/> Desirable (Start within 3 to 5 yrs) <input type="checkbox"/> Deferrable (Start within 5 to 10 yrs)</p>
<p>Project Description: This project consists of replacement of the interchange, including bridge and ramp replacement to improve traffic operations, bring vertical clearance over the freeway to correct standards, and support forecast travel demands. The project includes improvements generally from Eucalyptus Ave to Ironwood Ave, including eastbound and westbound ramps to and from SR-60, and auxiliary lanes on SR-60.</p> <p>Preliminary Engineering / Environmental: July 2013 to March 2020 Design: Subject to available funding</p> <p>Justification or Significance of Improvement: The existing interchange requires modification to meet future traffic demands and update geometric deficiencies.</p> <p>Estimated Maintenance Costs: Street and bridge surface maintenance costs over a 20 year period are estimated to average approximately \$12,000 per 13 foot wide lane mile per year. Caltrans will fund maintenance of the ramps, freeway, and structures.</p>	<p>Project Location Map:</p> <p>Council District(s):</p> <p><input type="checkbox"/> District 1 <input checked="" type="checkbox"/> District 2 <input checked="" type="checkbox"/> District 3 <input type="checkbox"/> District 4</p>	

S-25

Life-to-Date Expenditures Through FY 2017/2018: 1,506,238			FY 19/20 - FY 20/21 Budget					
PROJECT PHASE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
Prelim. Eng. / Environ.	2,269,441		75,000					75,000
Design					5,000,000			5,000,000
Right of Way					18,000,000			18,000,000
Construction							76,000,000	76,000,000
Other								
PROJECT TOTAL	2,269,441		75,000	0	23,000,000	0	76,000,000	99,075,000
FUNDING SOURCE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
Measure A (2001)								
801 0052 70 77-2001	465,332							
Cap Proj Grants (2301)								
801 0052 70 77-2301	586,222							
DIF Interchange (2911)								
801 0052 70 77-3311	1,217,887		75,000					75,000
Unfunded (UNF)								
UNF					23,000,000		76,000,000	99,000,000
REVENUE TOTAL	2,269,441		75,000	0	23,000,000	0	76,000,000	99,075,000

Attachment: FY 2019/20 & 2020/21 CIP - New Funding Requests (3552 : PUBLIC HEARING AND ADOPTION

**CITY OF MORENO VALLEY
Capital Improvement Plan - Project Details
FYs 2019-2024 and Beyond**

<p>Project Title: Bridge Annual Inspection Program</p> <p>Department / Division: Public Works Department / Capital Projects Division</p>	<p>Project Status:</p> <input type="checkbox"/> New <input checked="" type="checkbox"/> In Progress <input type="checkbox"/> Completed <input type="checkbox"/> Deleted <input type="checkbox"/> On Hold	<p>Project Priority in CIP Category:</p> <input checked="" type="checkbox"/> Essential (Start within 1 yr) <input type="checkbox"/> Necessary (Start within 1 to 3 yrs) <input type="checkbox"/> Desirable (Start within 3 to 5 yrs) <input type="checkbox"/> Deferrable (Start within 5 to 10 yrs)
<p>Project Description: The Bridge Annual Inspection Program assesses the need for bridge spot repair and deck treatment for bridges located within the City limits. Twenty-two (22) bridges within the City have been identified for priority maintenance inspection. Bridges that need repair and/or treatment are recommended and funded as a separate project.</p> <p>Construction is performed under separate City CIP project: Bridge Preventative Maintenance Program - Implementation Phase</p> <p>Inspection: Ongoing</p> <p>Justification or Significance of Improvement: This program assesses the need for minor repairs of existing bridges within City limits.</p> <p>Estimated Maintenance Costs: Bridge improvement and routine maintenance costs are estimated to average almost \$1.20 per square foot per year. Bridge surface and street maintenance costs over a 20 year period are estimated to average almost \$12,000 per 13 foot wide lane mile per year.</p>	<p>Project Location Map:</p> <p align="center">CITYWIDE</p> <p>Council District(s):</p> <input checked="" type="checkbox"/> District 1 <input checked="" type="checkbox"/> District 2 <input checked="" type="checkbox"/> District 3 <input checked="" type="checkbox"/> District 4	

BR-3

Life-to-Date Expenditures Through FY 2017/2018: 84,897			FY 19/20 - FY 20/21 Budget					
PROJECT PHASE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
Prelim. Eng. / Environ. Design Right of Way Construction Other	20,000		10,000	10,000	10,000	10,000	10,000	50,000
PROJECT TOTAL	20,000		10,000	10,000	10,000	10,000	10,000	50,000
FUNDING SOURCE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
Gas Tax (2000) 802 0002 70 77-2000	20,000		10,000	10,000	10,000	10,000	10,000	50,000
REVENUE TOTAL	20,000		10,000	10,000	10,000	10,000	10,000	50,000

Attachment: FY 2019/20 & 2020/21 CIP - New Funding Requests (3552 : PUBLIC HEARING AND ADOPTION

CITY OF MORENO VALLEY
Capital Improvement Plan - Project Details
FYs 2019-2024 and Beyond



Project Title: Indian Street / Cardinal Avenue Bridge (Over Lateral A)
Department / Division: Public Works Department / Capital Projects Division

Project Status:

New
 In Progress
 Completed

Deleted
 On Hold

Project Priority in CIP Category:

Essential (Start within 1 yr)
 Necessary (Start within 1 to 3 yrs)
 Desirable (Start within 3 to 5 yrs)
 Deferrable (Start within 5 to 10 yrs)

Project Description:
 This project will provide an approximately 150 foot long, two to four-lane bridge on Indian Street over Flood Control Channel Lateral A (at Cardinal Avenue) and approximately 600 feet of associated roadway improvements on Indian Street. The bridge and roadway improvements will complete the connection of Indian Street north of the channel to south of the channel.

Planning and Pre-Engineering: June 2018 to June 2019
 Environmental and Design: July 2019 to January 2021
 Right of Way Acquisition: February 2021 to October 2021
 Construction: January 2022 to October 2022 (Subject to available funding)

Justification or Significance of Improvement:
 This project will close a gap, provide continuity in traffic, and benefit emergency responders. A future fire station is being planned for the City's southside industrial area. This bridge will enhance response time for emergencies.

Estimated Maintenance Costs:
 Bridge improvement and routine maintenance costs are estimated to average almost \$1.20 per square foot per year. Bridge surface and street maintenance costs over a 20 year period are estimated to average almost \$12,000 per 13 foot wide lane mile per year.



Council District(s):

District 1 District 2 District 3 District 4

BR-5

Life-to-Date Expenditures Through FY 2017/2018:		FY 19/20 - FY 20/21 Budget					
PROJECT PHASE	Budget FY 2018/2019	New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
Prelim. Eng. / Environ.	215,000	215,000					215,000
Design	274,888		200,000				200,000
Right of Way				4,000,000			4,000,000
Construction							
Other							
PROJECT TOTAL	489,888	215,000	200,000	4,000,000	0	0	4,415,000
FUNDING SOURCE	Budget FY 2018/2019	New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
DIF Arterial Street (2901) 802 0004-3301	489,888	215,000	200,000	4,000,000			4,415,000
REVENUE TOTAL	489,888	215,000	200,000	4,000,000	0	0	4,415,000

Attachment: FY 2019/20 & 2020/21 CIP - New Funding Requests (3552 : PUBLIC HEARING AND ADOPTION

**CITY OF MORENO VALLEY
Capital Improvement Plan - Project Details
FYs 2019-2024 and Beyond**

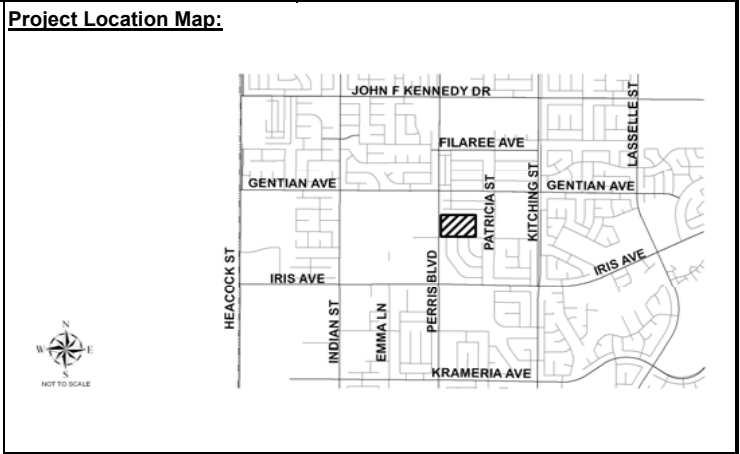
<p>Project Title: Corporate Yard Building / Fleet Shop Remodel</p> <p>Department / Division: Public Works Department / Maintenance & Operations Division</p>	<p>Project Status:</p> <input checked="" type="checkbox"/> New <input type="checkbox"/> In Progress <input type="checkbox"/> Completed <input type="checkbox"/> Deleted <input type="checkbox"/> On Hold	<p>Project Priority in CIP Category:</p> <input checked="" type="checkbox"/> Essential (Start within 1 yr) <input type="checkbox"/> Necessary (Start within 1 to 3 yrs) <input type="checkbox"/> Desirable (Start within 3 to 5 yrs) <input type="checkbox"/> Deferrable (Start within 5 to 10 yrs)
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Project Description:
Remodel of existing Perris Boulevard Corporate Yard Administration Building and Fleet Shop

Justification or Significance of Improvement:
Replace the existing Transportation field staff trailer to centralize the meeting/training/break/locker room facility for all Public Works maintenance staff and Parks Maintenance staff; repurpose existing Perris Boulevard Corporate Yard Administration Building to provide office space for Public Works field staff; and expand the Fleet Shop work area.

Schedule:
Construction to be completed by end of FY 2019/20

Estimated Maintenance Costs:
Annual average building maintenance costs are estimated at approximately \$9/SF. Currently no new funding source has been identified to fund these maintenance costs.



Council District(s):

 District 1
 District 2
 District 3
 District 4

Life-to-Date Expenditures Through FY 2017/2018: 0		FY 19/20 - FY 20/21 Budget						
PROJECT PHASE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
Prelim. Eng. / Environ. Design Right of Way Construction Other			500,000					500,000
PROJECT TOTAL	0		500,000	0	0	0	0	500,000
FUNDING SOURCE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
Facility Constr (2910) 3000			500,000					500,000
REVENUE TOTAL	0		500,000	0	0	0	0	500,000

B-5

Attachment: FY 2019/20 & 2020/21 CIP - New Funding Requests (3552 : PUBLIC HEARING AND ADOPTION

**CITY OF MORENO VALLEY
Capital Improvement Plan - Project Details
FYs 2019-2024 and Beyond**

<p>Project Title: Corporate Yard Master Plan Improvements</p> <p>Department / Division: Public Works Department / Capital Projects Division</p>	<p>Project Status:</p> <p><input checked="" type="checkbox"/> New <input type="checkbox"/> Deleted</p> <p><input type="checkbox"/> In Progress <input type="checkbox"/> On Hold</p> <p><input type="checkbox"/> Completed</p>	<p>Project Priority in CIP Category:</p> <p><input checked="" type="checkbox"/> Essential (Start within 1 yr)</p> <p><input type="checkbox"/> Necessary (Start within 1 to 3 yrs)</p> <p><input type="checkbox"/> Desirable (Start within 3 to 5 yrs)</p> <p><input type="checkbox"/> Deferrable (Start within 5 to 10 yrs)</p>
<p>Project Description: This project consists of the construction of a drainage channel along the eastern edge of the property, some minor grading, conversion of existing infiltration basin to a detention basin, and the installation of a storm water quality system. Infiltration testing will also be conducted prior to the installation of the storm water quality system. Project components may be installed in phases.</p> <p>Justification or Significance of Improvement: In order to allow future phased expansion of the Corporate Yard per the Master Plan, this project will install a storm water quality system in compliance with current State standards. The grading and drainage features involved in this project are necessary for State compliance. The conversion of the existing infiltration basin to a detention basin allows for historical site flow to remain until future phases are implemented. All components of the project will ensure the City of Moreno Valley's Corporate Yard is in compliance with current State regulations as the build-out of the Corporate Yard continues.</p> <p>Design/Construction: July 2019 to August 2020</p> <p>Estimated Maintenance Costs: Annual average maintenance costs are estimated at approximately \$1000 for detention basin maintenance, \$300 for catch basin filter insert maintenance, and \$3000 bi-annually for storm water quality features.</p>	<p>Project Location Map:</p> <p align="center">Council District(s):</p> <p><input type="checkbox"/> District 1 <input type="checkbox"/> District 2 <input type="checkbox"/> District 3 <input checked="" type="checkbox"/> District 4</p>	

B-6

Life-to-Date Expenditures Through FY 2017/2018:			FY 19/20 - FY 20/21 Budget					
PROJECT PHASE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
Prelim. Eng. / Environ. Design			29,550					29,550
Right of Way Construction			167,450					167,450
Other								
PROJECT TOTAL	0		197,000	0	0	0	0	197,000
FUNDING SOURCE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
Facility Constr (2910) 3000			197,000					197,000
REVENUE TOTAL	0		197,000	0	0	0	0	197,000

Attachment: FY 2019/20 & 2020/21 CIP - New Funding Requests (3552 : PUBLIC HEARING AND ADOPTION

**CITY OF MORENO VALLEY
Capital Improvement Plan - Project Details
FYs 2019-2024 and Beyond**

<p>Project Title: Electronic Marquee Sign</p> <p>Department / Division: Parks & Community Services Department / Parks Division</p>	<p>Project Status:</p> <p><input checked="" type="checkbox"/> New <input type="checkbox"/> Deleted</p> <p><input type="checkbox"/> In Progress <input type="checkbox"/> On Hold</p> <p><input type="checkbox"/> Completed</p>	<p>Project Priority in CIP Category:</p> <p><input checked="" type="checkbox"/> Essential (Start within 1 yr)</p> <p><input type="checkbox"/> Necessary (Start within 1 to 3 yrs)</p> <p><input type="checkbox"/> Desirable (Start within 3 to 5 yrs)</p> <p><input type="checkbox"/> Deferrable (Start within 5 to 10 yrs)</p>
<p>Project Description: Installation of a large, double-sided LED marquee on City vacant lot adjacent to the new amphitheater.</p> <p>Materials: May 2020 Construction: June 2020</p> <p>Justification or Significance of Improvement: With construction of the amphitheater, a large LED sign will publicize events and encourage attendance to the venue.</p> <p>Estimated Maintenance Costs: Annual average building maintenance costs are estimated at approximately \$10.00 / square foot. Although actual maintenance costs may vary, this estimated cost is based on an industry accepted standard maintenance cost. Funding sources also vary, depending on the type of building, but the primary source of funding is Zone A.</p>	<p>Project Location Map:</p> <p>Council District(s):</p> <p><input checked="" type="checkbox"/> District 1 <input type="checkbox"/> District 2 <input type="checkbox"/> District 3 <input type="checkbox"/> District 4</p>	

B-7

Life-to-Date Expenditures Through FY 2017/2018: 0			FY 19/20 - FY 20/21 Budget					
PROJECT PHASE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
Prelim. Eng. / Environ. Design Right of Way Construction Other			250,000					250,000
PROJECT TOTAL	0		250,000	0	0	0	0	250,000
FUNDING SOURCE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
PCS Cap Proj (2019) 3016			250,000					250,000
REVENUE TOTAL	0		250,000	0	0	0	0	250,000

Attachment: FY 2019/20 & 2020/21 CIP - New Funding Requests (3552 : PUBLIC HEARING AND ADOPTION

CITY OF MORENO VALLEY
Capital Improvement Plan - Project Details
FYs 2019-2024 and Beyond



Project Title: Satellite Library	Project Status: <input checked="" type="checkbox"/> New <input type="checkbox"/> In Progress <input type="checkbox"/> Completed <input type="checkbox"/> Deleted <input type="checkbox"/> On Hold	Project Priority in CIP Category: <input checked="" type="checkbox"/> Essential (Start within 1 yr) <input type="checkbox"/> Necessary (Start within 1 to 3 yrs) <input type="checkbox"/> Desirable (Start within 3 to 5 yrs) <input type="checkbox"/> Deferrable (Start within 5 to 10 yrs)
Department / Division: Financial & Management Services Department/ Library Services Division		

Project Description:
 In furthering the City Council's Momentum MoVal strategic vision, the city is embarking on constructing a new Satellite Library on the east side of town. The location site is unknown, but building may be a storefront location requiring remodeling for use as a Library.

Schedule:
 Summer 2019: Locate space; Negotiate lease
 Autumn 2019: Design Library space; Order equipment & furniture
 Winter 2020: Obtain permits; Bid for tenant improvements
 Spring 2020: Library build-out; Negotiate contract; Hire staff; Install technology & books
 July 2020: Grand Opening

Justification or Significance of Improvement:
 The purpose of this project is to meet the community demands of an essential facility to serve the Moreno Valley community.

Estimated Maintenance Costs:
 Annual average building maintenance costs are estimated at approximately \$10/SF. Although actual maintenance costs may vary, this estimated cost is based on an industry accepted standard maintenance cost. The source of funding for maintenance and operations of the Library branch is the Library Services Fund (5010) which is a dedicated fund with revenues from property taxes and the General Fund.

Project Location Map:

TBD

Council District(s):
 District 1 District 2 District 3 District 4

B-9

Life-to-Date Expenditures Through FY 2017/2018:			FY 19/20 - FY 20/21 Budget					
PROJECT PHASE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
Prelim. Eng. / Environ. Design Right of Way Construction Other			750,000					750,000
PROJECT TOTAL	0		750,000	0	0	0	0	750,000

FUNDING SOURCE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
Facility Constr (2908) 3000			750,000					750,000
REVENUE TOTAL	0		750,000	0	0	0	0	750,000

Attachment: FY 2019/20 & 2020/21 CIP - New Funding Requests (3552 : PUBLIC HEARING AND ADOPTION

**CITY OF MORENO VALLEY
Capital Improvement Plan - Project Details
FYs 2019-2024 and Beyond**

<p>Project Title: Towngate Community Center Renovation</p> <p>Department / Division: Parks & Community Services Department / Parks Division</p>	<p>Project Status:</p> <p><input type="checkbox"/> New</p> <p><input checked="" type="checkbox"/> In Progress</p> <p><input type="checkbox"/> Completed</p> <p><input type="checkbox"/> Deleted</p> <p><input type="checkbox"/> On Hold</p>	<p>Project Priority in CIP Category:</p> <p><input checked="" type="checkbox"/> Essential (Start within 1 yr)</p> <p><input type="checkbox"/> Necessary (Start within 1 to 3 yrs)</p> <p><input type="checkbox"/> Desirable (Start within 3 to 5 yrs)</p> <p><input type="checkbox"/> Deferrable (Start within 5 to 10 yrs)</p>
<p>Project Description: This project will replace the existing wood patio cover at Towngate Community Center with an alumawood cover.</p> <p>Construction: July 2015 to June 2018 - Completed flooring, windows, and lighting Construction: July 2019 to February 2020 - Patio cover</p> <p>Justification or Significance of Improvement: The center is approximately 15 years old and is frequently rented. The patio cover has extensive damage from natural dry rot.</p> <p>Estimated Maintenance Costs: Annual park maintenance costs average approximately \$12,000 / acre based on budget information provided by the Parks Maintenance Division. Actual maintenance costs may vary depending on the size and amenities of the site. Parks maintenance is typically funded by Zone A (CDF No. 1 for newer parks).</p>	<p>Project Location Map:</p> <p>Council District(s):</p> <p><input checked="" type="checkbox"/> District 1 <input type="checkbox"/> District 2 <input type="checkbox"/> District 3 <input type="checkbox"/> District 4</p>	

B-11

Life-to-Date Expenditures Through FY 2017/2018: 53,332		FY 19/20 - FY 20/21 Budget					
PROJECT PHASE	Budget FY 2018/2019	New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
Prelim. Eng. / Environ. Design Right of Way Construction Other	16,668	60,000					60,000
PROJECT TOTAL	16,668	60,000	0	0	0	0	60,000
FUNDING SOURCE	Budget FY 2018/2019	New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
PCS Cap Proj (2019) 803 0031-3016 CFD #1 (5113) 5113	16,668	60,000					60,000
REVENUE TOTAL	16,668	60,000	0	0	0	0	60,000

Attachment: FY 2019/20 & 2020/21 CIP - New Funding Requests (3552 : PUBLIC HEARING AND ADOPTION

**CITY OF MORENO VALLEY
Capital Improvement Plan - Project Details
FYs 2019-2024 and Beyond**

<p>Project Title: Lease Space Renovations at Various Park Facilities</p> <p>Department / Division: Parks & Community Services Department / Parks Division</p>	<p>Project Status:</p> <p><input type="checkbox"/> New</p> <p><input checked="" type="checkbox"/> In Progress</p> <p><input type="checkbox"/> Completed</p> <p><input type="checkbox"/> Deleted</p> <p><input type="checkbox"/> On Hold</p>	<p>Project Priority in CIP Category:</p> <p><input checked="" type="checkbox"/> Essential (Start within 1 yr)</p> <p><input type="checkbox"/> Necessary (Start within 1 to 3 yrs)</p> <p><input type="checkbox"/> Desirable (Start within 3 to 5 yrs)</p> <p><input type="checkbox"/> Deferrable (Start within 5 to 10 yrs)</p>
<p>Project Description: Renovate the March Community Center for public and civic uses. Project includes abatement of hazardous material and replacement with new materials.</p> <p>Construction: July 2019 to June 2021</p> <p>Justification or Significance of Improvement: Building is over 50 years, and requires renovation.</p> <p>Estimated Maintenance Costs: Annual average building maintenance costs are estimated at approximately \$10.00 / square foot. Although actual maintenance costs may vary, this estimated cost is based on an industry accepted standard maintenance cost. Funding sources also vary, depending on the type of building, but the primary source is Zone A (CFD No. 1 for newer parks).</p>	<p>Project Location Map:</p> <p>Council District(s):</p> <p><input type="checkbox"/> District 1 <input type="checkbox"/> District 2 <input type="checkbox"/> District 3 <input type="checkbox"/> District 4</p>	

B-13

Life-to-Date Expenditures Through FY 2017/2018: 46,648		FY 19/20 - FY 20/21 Budget						
PROJECT PHASE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
Prelim. Eng. / Environ. Design Right of Way Construction Other	28,352		100,000	100,000	50,000			250,000
PROJECT TOTAL	28,352		100,000	100,000	50,000	0	0	250,000
FUNDING SOURCE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
PCS Cap Proj (2019) 803 0027-3016	28,352		100,000	100,000	50,000			250,000
REVENUE TOTAL	28,352		100,000	100,000	50,000	0	0	250,000

Attachment: FY 2019/20 & 2020/21 CIP - New Funding Requests (3552 : PUBLIC HEARING AND ADOPTION

**CITY OF MORENO VALLEY
Capital Improvement Plan - Project Details
FYs 2019-2024 and Beyond**

<p>Project Title: Park Restroom Renovations at Various Sites</p> <p>Department / Division: Parks & Community Services Department / Parks Division</p>	<p>Project Status:</p> <p><input type="checkbox"/> New</p> <p><input checked="" type="checkbox"/> In Progress</p> <p><input type="checkbox"/> Completed</p> <p><input type="checkbox"/> Deleted</p> <p><input type="checkbox"/> On Hold</p>	<p>Project Priority in CIP Category:</p> <p><input checked="" type="checkbox"/> Essential (Start within 1 yr)</p> <p><input type="checkbox"/> Necessary (Start within 1 to 3 yrs)</p> <p><input type="checkbox"/> Desirable (Start within 3 to 5 yrs)</p> <p><input type="checkbox"/> Deferrable (Start within 5 to 10 yrs)</p>
<p>Project Description: Renovation of citywide park restrooms will include roofing, interior walls, and fixtures. Renovations are required due to deferred maintenance and changes to Title 24 building codes.</p> <p>Construction: FY 15/16 Completed Sites: El Potrero Park and Ridgecrest Park FY 16/17 Completed Sites: Weston Park and Woodland Park FY 19/20 Projected Sites: Westbluff Park and Gateway Park FY 20/21 Projected Sites: Moreno Valley Community Park</p> <p>Justification or Significance of Improvement: Renovation of park restrooms will be necessary due to deferred maintenance and aging structures. This will include roofing, interior walls, and fixtures.</p> <p>Estimated Maintenance Costs: Annual average building maintenance costs are estimated at approximately \$10.00 / square foot. Although actual maintenance costs may vary, this estimated cost is based on an industry accepted standard maintenance cost. Funding sources also vary, depending on the type of building, but the primary source is Zone A.</p>	<p>Project Location Map:</p> <p>Council District(s):</p> <p><input checked="" type="checkbox"/> District 1 <input checked="" type="checkbox"/> District 2 <input type="checkbox"/> District 3 <input type="checkbox"/> District 4</p>	

B-14

Life-to-Date Expenditures Through FY 2017/2018:		117,074		FY 19/20 - FY 20/21 Budget				
PROJECT PHASE	Budget FY 2018/2019	New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total	
Prelim. Eng. / Environ. Design Right of Way Construction Other	80,925	30,000	30,000	30,000	30,000	30,000	150,000	
PROJECT TOTAL	80,925	30,000	30,000	30,000	30,000	30,000	150,000	
FUNDING SOURCE	Budget FY 2018/2019	New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total	
PCS Cap Proj (2019) 803 0030-3016	80,925	30,000	30,000	30,000	30,000	30,000	150,000	
REVENUE TOTAL	80,925	30,000	30,000	30,000	30,000	30,000	150,000	

Attachment: FY 2019/20 & 2020/21 CIP - New Funding Requests (3552 : PUBLIC HEARING AND ADOPTION

**CITY OF MORENO VALLEY
Capital Improvement Plan - Project Details
FYs 2019-2024 and Beyond**

B-15

<p>Project Title: Replace Flooring at Various Community Services Facilities</p> <p>Department / Division: Parks & Community Services Department / Parks Division</p>	<p>Project Status:</p> <p><input type="checkbox"/> New <input type="checkbox"/> Deleted</p> <p><input checked="" type="checkbox"/> In Progress <input type="checkbox"/> On Hold</p> <p><input type="checkbox"/> Completed</p>	<p>Project Priority in CIP Category:</p> <p><input checked="" type="checkbox"/> Essential (Start within 1 yr)</p> <p><input type="checkbox"/> Necessary (Start within 1 to 3 yrs)</p> <p><input type="checkbox"/> Desirable (Start within 3 to 5 yrs)</p> <p><input type="checkbox"/> Deferrable (Start within 5 to 10 yrs)</p>
<p>Project Description: Replace flooring at various community services facilities.</p> <p>Justification or Significance of Improvement: Flooring at March Community Center is worn and stained, and like replacement cannot be found.</p> <p>Estimated Maintenance Costs: Annual average building maintenance costs are estimated at approximately \$10.00 / square foot. Although actual maintenance costs may vary, this estimated cost is based on an industry accepted standard maintenance cost. Funding sources also vary, depending on the type of building, but the primary source is Zone A (CFD No. 1 for newer parks).</p>	<p>Project Location Map:</p> <p>Council District(s):</p> <p><input type="checkbox"/> District 1 <input type="checkbox"/> District 2 <input type="checkbox"/> District 3 <input type="checkbox"/> District 4</p>	

Life-to-Date Expenditures Through FY 2017/2018: 6,629			FY 19/20 - FY 20/21 Budget					
PROJECT PHASE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
Prelim. Eng. / Environ. Design Right of Way Construction Other	38,371		50,000		50,000			100,000
PROJECT TOTAL	38,371		50,000	0	50,000	0	0	100,000
FUNDING SOURCE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
PCS Cap Proj (2019) 803 0034-3016	38,371		50,000		50,000			100,000
REVENUE TOTAL	38,371		50,000	0	50,000	0	0	100,000

Attachment: FY 2019/20 & 2020/21 CIP - New Funding Requests (3552 : PUBLIC HEARING AND ADOPTION

**CITY OF MORENO VALLEY
Capital Improvement Plan - Project Details
FYs 2019-2024 and Beyond**

<p>Project Title: Moreno - Alessandro Interim Facility (Discovery Church)</p> <p>Department / Division: Public Works Department / Capital Projects Division</p>	<p>Project Status:</p> <p><input type="checkbox"/> New</p> <p><input checked="" type="checkbox"/> In Progress</p> <p><input type="checkbox"/> Completed</p> <p><input type="checkbox"/> Deleted</p> <p><input type="checkbox"/> On Hold</p>	<p>Project Priority in CIP Category:</p> <p><input checked="" type="checkbox"/> Essential (Start within 1 yr)</p> <p><input type="checkbox"/> Necessary (Start within 1 to 3 yrs)</p> <p><input type="checkbox"/> Desirable (Start within 3 to 5 yrs)</p> <p><input type="checkbox"/> Deferrable (Start within 5 to 10 yrs)</p>
<p>Project Description: This project consists of an interim facility to handle existing high flows that channel through an existing church parking lot. Design and construction are reimbursable with Riverside County Flood Control and Water Conservation District (RCFC&WCD) funds.</p> <p>Design and Permitting: July 2018 to July 2019 Construction: August 2019 to December 2019</p> <p>Justification or Significance of Improvement: The project falls within the Moreno Master Drainage Plan area. Area developments are not yet in place, therefore, interim improvements are needed to slow or divert high flows. RCFC&WCD has designed the project and City has secured right of way. City has requested full funding from RCFC&WCD through their FY 19/20 budget process.</p> <p>Estimated Maintenance Costs: Annual average costs associated with storm drain maintenance are estimated at approximately \$121 per catch basin. This does not include actual catch basin and/or pipeline replacement, which typically have lifespans of 70 to 100 years. Although actual maintenance costs may vary, these estimated maintenance costs are based on historical maintenance costs for the City of Moreno Valley's storm drain infrastructure. Drainage maintenance funding will be part of the deferred maintenance for the whole network.</p>	<p>Project Location Map:</p> <p>Council District(s):</p> <p><input type="checkbox"/> District 1 <input type="checkbox"/> District 2 <input checked="" type="checkbox"/> District 3 <input type="checkbox"/> District 4</p>	

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Life-to-Date Expenditures Through FY 2017/2018: 47,446			FY 19/20 - FY 20/21 Budget					
PROJECT PHASE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
Prelim. Eng. / Environ.	110,000							
Design	20,000							
Right of Way	27,553							
Construction			235,001					235,001
Other								
PROJECT TOTAL	157,553		235,001	0	0	0	0	235,001
FUNDING SOURCE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
PW Gen Cap Proj (3002) 804 0016-3002	157,553		235,001					235,001
REVENUE TOTAL	157,553		235,001	0	0	0	0	235,001

Attachment: FY 2019/20 & 2020/21 CIP - New Funding Requests (3552 : PUBLIC HEARING AND ADOPTION

**CITY OF MORENO VALLEY
Capital Improvement Plan - Project Details
FYs 2019-2024 and Beyond**

<p>Project Title: Sunnymead - Flaming Arrow Drive Storm Drain</p> <p>Department / Division: Public Works Department / Capital Projects Division</p>	<p>Project Status:</p> <p><input type="checkbox"/> New</p> <p><input checked="" type="checkbox"/> In Progress</p> <p><input type="checkbox"/> Completed</p> <p><input type="checkbox"/> Deleted</p> <p><input type="checkbox"/> On Hold</p>	<p>Project Priority in CIP Category:</p> <p><input checked="" type="checkbox"/> Essential (Start within 1 yr)</p> <p><input type="checkbox"/> Necessary (Start within 1 to 3 yrs)</p> <p><input type="checkbox"/> Desirable (Start within 3 to 5 yrs)</p> <p><input type="checkbox"/> Deferrable (Start within 5 to 10 yrs)</p>
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Project Description:
This project will extend Sunnymead Master Drainage (MDP) Storm Drain Line M-11. The storm drain alignment will be in Flaming Arrow Drive and Sweet Grass Drive, between Saint Christopher Lane and Bay Avenue. Approximately 1200 LF of 24" diameter pipe will be installed. Riverside County Flood Control and Water Conservation District (RCFC&WCD) is performing design. The City is securing the necessary easements. City has requested funding from RCFC&WCD.

Preliminary Engineering / Environmental: Completed
Design and Right of Way: January 2018 to July 2019
Utility Relocation: August 2019 to November 2019
Construction: December 2019 to June 2020

Justification or Significance of Improvement:
This project will provide necessary drainage improvements for the area.

Estimated Maintenance Costs:
Annual average costs associated with storm drain maintenance are estimated at approximately \$121 per catch basin. This does not include actual catch basin and/or pipeline replacement, which typically have lifespans of 70 to 100 years. Although actual maintenance costs may vary, these estimated maintenance costs are based on historical maintenance costs for the City of Moreno Valley's storm drain infrastructure. Drainage maintenance funding will be part of the deferred maintenance for the whole network.

Project Location Map:

Council District(s):

District 1 District 2 District 3 District 4

Life-to-Date Expenditures Through FY 2017/2018: 33,354		FY 19/20 - FY 20/21 Budget						
PROJECT PHASE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
Prelim. Eng. / Environ.	50,000							
Design	30,000							
Right of Way	35,000							
Construction	246,135		335,511					335,511
Other								
PROJECT TOTAL	361,135		335,511	0	0	0	0	335,511
FUNDING SOURCE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
PW Gen Cap Proj (3002)								
804 0014-3002	236,645		85,511					85,511
Measure A (2001)								
804 0014-2001	124,490							
CDBG (2512)								
2512			250,000					250,000
REVENUE TOTAL	361,135		335,511	0	0	0	0	335,511

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Attachment: FY 2019/20 & 2020/21 CIP - New Funding Requests (3552 : PUBLIC HEARING AND ADOPTION

**CITY OF MORENO VALLEY
Capital Improvement Plan - Project Details
FYs 2019-2024 and Beyond**

<p>Project Title: Citywide Full Trash Capture Device Installation</p> <p>Department / Division: Public Works Department / Capital Projects Division</p>	<p>Project Status:</p> <input checked="" type="checkbox"/> New <input type="checkbox"/> In Progress <input type="checkbox"/> Completed <input type="checkbox"/> Deleted <input type="checkbox"/> On Hold	<p>Project Priority in CIP Category:</p> <input checked="" type="checkbox"/> Essential (Start within 1 yr) <input type="checkbox"/> Necessary (Start within 1 to 3 yrs) <input type="checkbox"/> Desirable (Start within 3 to 5 yrs) <input type="checkbox"/> Deferrable (Start within 5 to 10 yrs)
<p>Project Description: This project consists of the purchase and installation of connector pipe screen (CPS) units (which are designed to filter out certain size debris/trash from storm drain discharge to receiving water bodies) in approximately 968 catch basins in the City. Approximately 100 CPS units will be installed annually over the period of ten years.</p> <p>Justification or Significance of Improvement: To ensure compliance with the State mandated Trash Provisions, the City must install full trash capture devices on all priority use land area catch basins by 2030. There is a ten percent annual compliance requirement within the Trash Provisions, therefore initiation must begin in 2020.</p> <p>Installation: On-going</p> <p>Estimated Maintenance Costs: Annual average costs associated with each Trash Capture Device is approximately \$400 (\$200/ twice a year).</p>	<p>Project Location Map:</p> <p align="center">CITYWIDE</p> <p>Council District(s):</p> <input checked="" type="checkbox"/> District 1 <input checked="" type="checkbox"/> District 2 <input checked="" type="checkbox"/> District 3 <input checked="" type="checkbox"/> District 4	

D-7

Life-to-Date Expenditures Through FY 2017/2018:			FY 19/20 - FY 20/21 Budget					
PROJECT PHASE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
Prelim. Eng. / Environ. Design Right of Way Installation Other			80,000	80,000	80,000	80,000	456,000	776,000
PROJECT TOTAL	0		80,000	80,000	80,000	80,000	456,000	776,000
FUNDING SOURCE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
Storm Water Mgmt (2008) 2008			80,000	80,000	80,000	80,000	456,000	776,000
REVENUE TOTAL	0		80,000	80,000	80,000	80,000	456,000	776,000

Attachment: FY 2019/20 & 2020/21 CIP - New Funding Requests (3552 : PUBLIC HEARING AND ADOPTION

**CITY OF MORENO VALLEY
Capital Improvement Plan - Project Details
FYs 2019-2024 and Beyond**

<p>Project Title: Alessandro Crosstown Tie</p> <p>Department / Division: Financial and Management Services Department / Electric Utility Division</p>	<p>Project Status:</p> <p><input type="checkbox"/> New</p> <p><input checked="" type="checkbox"/> In Progress</p> <p><input type="checkbox"/> Completed</p> <p><input type="checkbox"/> Deleted</p> <p><input type="checkbox"/> On Hold</p>	<p>Project Priority in CIP Category:</p> <p><input checked="" type="checkbox"/> Essential (Start within 1 yr)</p> <p><input type="checkbox"/> Necessary (Start within 1 to 3 yrs)</p> <p><input type="checkbox"/> Desirable (Start within 3 to 5 yrs)</p> <p><input type="checkbox"/> Deferrable (Start within 5 to 10 yrs)</p>
<p>Project Description: This project will install a new electrical backbone between the Moreno Valley Substation and the Centerpointe Planning Area. The new electrical backbone will be installed on Alessandro Boulevard from Morrison Street to Heacock Street, on Heacock Street from Alessandro Boulevard to Brodiaea Avenue, and on Brodiaea Avenue from Heacock Street to approximately 800' west of Heacock Street.</p> <p>Environmental: November 2017 to December 2017 Design: January 2018 to July 2018 Bid / Award: August 2018 to October 2018 Pre-Construction: November 2018 to March 2019 Construction: April 2019 to October 2019</p> <p>Justification or Significance of Improvement: The purpose of this project is to provide greater reliability for MVU customers, and provide greater flexibility for MVU in the management of the electrical distribution system.</p> <p>Estimated Maintenance Costs: Ongoing maintenance costs are built into Moreno Valley Utility's rate structure as part of the cost to serve.</p>	<p>Project Location Map:</p> <p>Council District(s):</p> <p><input checked="" type="checkbox"/> District 1 <input type="checkbox"/> District 2 <input checked="" type="checkbox"/> District 3 <input type="checkbox"/> District 4</p>	

Life-to-Date Expenditures Through FY 2017/2018: 61,199		FY 19/20 - FY 20/21 Budget						
PROJECT PHASE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
Prelim. Eng. / Environ.	7,300							
Design	8,700							
Right of Way								
Construction	3,207,801		250,000					250,000
Other								
PROJECT TOTAL	3,223,801		250,000	0	0	0	0	250,000
FUNDING SOURCE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
Electric-Restricted (6011) 805 0044-6011	3,223,801		250,000					250,000
REVENUE TOTAL	3,223,801		250,000	0	0	0	0	250,000

E-3

Attachment: FY 2019/20 & 2020/21 CIP - New Funding Requests (3552 : PUBLIC HEARING AND ADOPTION

**CITY OF MORENO VALLEY
Capital Improvement Plan - Project Details
FYs 2019-2024 and Beyond**

<p>Project Title: City Hall Annex Solar Carports</p> <p>Department / Division: Financial and Management Services Department / Electric Utility Division</p>	<p>Project Status:</p> <input checked="" type="checkbox"/> New <input type="checkbox"/> In Progress <input type="checkbox"/> Completed <input type="checkbox"/> Deleted <input type="checkbox"/> On Hold	<p>Project Priority in CIP Category:</p> <input checked="" type="checkbox"/> Essential (Start within 1 yr) <input type="checkbox"/> Necessary (Start within 1 to 3 yrs) <input type="checkbox"/> Desirable (Start within 3 to 5 yrs) <input type="checkbox"/> Deferrable (Start within 5 to 10 yrs)
<p>Project Description: This project will construct solar canopy structures and electric vehicle charging stations.</p> <p>Design: July 2019 to December 2019 Construction: January 2020 to December 2020</p> <p>Justification or Significance of Improvement: This project will promote renewable energy and facilitate electric vehicle charging in alignment with state goals.</p> <p>Estimated Maintenance Costs: Ongoing maintenance costs are built into Moreno Valley Utility's rate structure as part of the cost to serve.</p>	<p>Project Location Map:</p> <p>Council District(s): <input checked="" type="checkbox"/> District 1 <input type="checkbox"/> District 2 <input type="checkbox"/> District 3 <input type="checkbox"/> District 4</p>	

E-5

Life-to-Date Expenditures Through FY 2017/2018: 0			FY 19/20 - FY 20/21 Budget					
PROJECT PHASE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
Prelim. Eng. / Environ. Design Right of Way Construction Other			1,000 199,000 1,600,000					1,000 199,000 1,600,000
PROJECT TOTAL	0		1,800,000	0	0	0	0	1,800,000
FUNDING SOURCE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
Electric-Restricted (6011) 6011			1,800,000					1,800,000
REVENUE TOTAL	0		1,800,000	0	0	0	0	1,800,000

Attachment: FY 2019/20 & 2020/21 CIP - New Funding Requests (3552 : PUBLIC HEARING AND ADOPTION

**CITY OF MORENO VALLEY
Capital Improvement Plan - Project Details
FYs 2019-2024 and Beyond**

<p>Project Title: Day Street Line Extension</p> <p>Department / Division: Financial and Management Services Department / Electric Utility Division</p>	<p>Project Status:</p> <p><input checked="" type="checkbox"/> New <input type="checkbox"/> Deleted</p> <p><input checked="" type="checkbox"/> In Progress <input type="checkbox"/> On Hold</p> <p><input type="checkbox"/> Completed</p>	<p>Project Priority in CIP Category:</p> <p><input checked="" type="checkbox"/> Essential (Start within 1 yr)</p> <p><input type="checkbox"/> Necessary (Start within 1 to 3 yrs)</p> <p><input type="checkbox"/> Desirable (Start within 3 to 5 yrs)</p> <p><input type="checkbox"/> Deferrable (Start within 5 to 10 yrs)</p>
<p>Project Description: This project will install new electrical backbone facilities including conduit, cable, underground structures, pad mounted equipment switchgear, and splicing components.</p> <p>Environmental: Completed Design: Completed Bid / Award: Completed Pre-Construction: Completed Construction: July 2019 to September 2019</p> <p>Justification or Significance of Improvement: The installation will extend distribution cable on Day Street from just south of Alessandro Boulevard to Eucalyptus Avenue and on Alessandro Boulevard from Veterans Way to Day Street. It will add an available circuit to provide service to commercial properties along Day Street and also extend north to the Edgemont area.</p> <p>Estimated Maintenance Costs: Ongoing maintenance costs are built into Moreno Valley Utility's rate structure as part of the cost to serve.</p>	<p>Project Location Map:</p> <p>Council District(s):</p> <p><input checked="" type="checkbox"/> District 1 <input type="checkbox"/> District 2 <input type="checkbox"/> District 3 <input type="checkbox"/> District 4</p>	

F-6

Life-to-Date Expenditures Through FY 2017/2018: 1,891		FY 19/20 - FY 20/21 Budget						
PROJECT PHASE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
Prelim. Eng. / Environ.	2,109							
Design	46,000							
Right of Way								
Construction	3,301,891		100,000					100,000
Other								
PROJECT TOTAL	3,350,000		100,000	0	0	0	0	100,000
FUNDING SOURCE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
Electric-Restricted (6011) 805 0049-6011	3,350,000		100,000					100,000
REVENUE TOTAL	3,350,000		100,000	0	0	0	0	100,000

Attachment: FY 2019/20 & 2020/21 CIP - New Funding Requests (3552 : PUBLIC HEARING AND ADOPTION

**CITY OF MORENO VALLEY
Capital Improvement Plan - Project Details
FYs 2019-2024 and Beyond**

<p>Project Title: Gentian Avenue Line Extension</p> <p>Department / Division: Financial and Management Services Department / Electric Utility Division</p>	<p>Project Status:</p> <p><input checked="" type="checkbox"/> New <input type="checkbox"/> Deleted</p> <p><input type="checkbox"/> In Progress <input type="checkbox"/> On Hold</p> <p><input type="checkbox"/> Completed</p>	<p>Project Priority in CIP Category:</p> <p><input checked="" type="checkbox"/> Essential (Start within 1 yr)</p> <p><input type="checkbox"/> Necessary (Start within 1 to 3 yrs)</p> <p><input type="checkbox"/> Desirable (Start within 3 to 5 yrs)</p> <p><input type="checkbox"/> Deferrable (Start within 5 to 10 yrs)</p>
<p>Project Description: This project will install new electrical backbone facilities including conduit and underground structures within Gentian Avenue between Heacock Street and Indian Street.</p> <p>Environmental: July 2019 to September 2019 Design: July 2019 to December 2019 Construction: January 2020 to June 2020</p> <p>Justification or Significance of Improvement: The installation will accommodate future load growth in the South Industrial Area and will connect the Edwin 12kV and March 12kV Circuits, thus improving system reliability.</p> <p>Estimated Maintenance Costs: Ongoing maintenance costs are built into Moreno Valley Utility's rate structure as part of the cost to serve.</p>	<p>Project Location Map:</p> <p>Council District(s):</p> <p><input type="checkbox"/> District 1 <input type="checkbox"/> District 2 <input type="checkbox"/> District 3 <input checked="" type="checkbox"/> District 4</p>	

8-3

Life-to-Date Expenditures Through FY 2017/2018: 0			FY 19/20 - FY 20/21 Budget					
PROJECT PHASE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
Prelim. Eng. / Environ.			1,000					1,000
Design			10,000					10,000
Right of Way								
Construction			554,000					554,000
Other								
PROJECT TOTAL	0		565,000	0	0	0	0	565,000
FUNDING SOURCE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
Electric-Restricted (6011) 6011			565,000					565,000
REVENUE TOTAL	0		565,000	0	0	0	0	565,000

Attachment: FY 2019/20 & 2020/21 CIP - New Funding Requests (3552 : PUBLIC HEARING AND ADOPTION

**CITY OF MORENO VALLEY
Capital Improvement Plan - Project Details
FYs 2019-2024 and Beyond**

<p>Project Title: Heacock Crosstown Tie</p> <p>Department / Division: Financial and Management Services Department / Electric Utility Division</p>	<p>Project Status:</p> <p><input type="checkbox"/> New <input type="checkbox"/> Deleted</p> <p><input checked="" type="checkbox"/> In Progress <input type="checkbox"/> On Hold</p> <p><input type="checkbox"/> Completed</p>	<p>Project Priority in CIP Category:</p> <p><input checked="" type="checkbox"/> Essential (Start within 1 yr)</p> <p><input type="checkbox"/> Necessary (Start within 1 to 3 yrs)</p> <p><input type="checkbox"/> Desirable (Start within 3 to 5 yrs)</p> <p><input type="checkbox"/> Deferrable (Start within 5 to 10 yrs)</p>
<p>Project Description: This project will install underground electrical backbone facilities including conduit, cable, underground structures on Heacock Street from Cactus Avenue to south of Gentian Avenue.</p> <p>Environmental: Completed Design: Completed Bid / Award: Completed Pre-Construction: Completed Construction: May 2019 to August 2019</p> <p>Justification or Significance of Improvement: The purpose of this project is to provide greater reliability for MVU customers, and provide greater flexibility for MVU in the management of the electrical distribution system.</p> <p>Estimated Maintenance Costs: Ongoing maintenance costs are built into Moreno Valley Utility's rate structure as part of the cost to serve.</p>	<p>Project Location Map:</p>	
<p>Council District(s):</p> <p><input checked="" type="checkbox"/> District 1 <input type="checkbox"/> District 2 <input checked="" type="checkbox"/> District 3 <input checked="" type="checkbox"/> District 4</p>		

E-3

Life-to-Date Expenditures Through FY 2017/2018: 459,606		FY 19/20 - FY 20/21 Budget						
PROJECT PHASE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
Prelim. Eng. / Environ.	1,500							
Design	32,000							
Right of Way								
Construction	2,044,194		100,000					100,000
Other								
PROJECT TOTAL	2,077,694		100,000	0	0	0	0	100,000
FUNDING SOURCE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
Electric-Restricted (6011) 805 0043-6011	2,077,694		100,000					100,000
REVENUE TOTAL	2,077,694		100,000	0	0	0	0	100,000

Attachment: FY 2019/20 & 2020/21 CIP - New Funding Requests (3552 : PUBLIC HEARING AND ADOPTION

**CITY OF MORENO VALLEY
Capital Improvement Plan - Project Details
FYs 2019-2024 and Beyond**

<p>Project Title: Mobile Advanced Metering Infrastructure (AMI) System</p> <p>Department / Division: Financial and Management Services Department / Electric Utility Division</p>	<p>Project Status:</p> <p><input type="checkbox"/> New <input type="checkbox"/> Deleted</p> <p><input checked="" type="checkbox"/> In Progress <input type="checkbox"/> On Hold</p> <p><input type="checkbox"/> Completed</p>	<p>Project Priority in CIP Category:</p> <p><input checked="" type="checkbox"/> Essential (Start within 1 yr)</p> <p><input type="checkbox"/> Necessary (Start within 1 to 3 yrs)</p> <p><input type="checkbox"/> Desirable (Start within 3 to 5 yrs)</p> <p><input type="checkbox"/> Deferrable (Start within 5 to 10 yrs)</p>
<p>Project Description: This project involves the installation of electric meters with Mobile Advanced Metering Infrastructure (AMI) for all Moreno Valley Utility (MVU) customers over a 30 month period.</p> <p>Bid / Award: Completed Construction: July 2017 to December 2019</p> <p>Justification or Significance of Improvement: AMI will expedite the collection of data for billing as well as incentivise customers to better manage their electricity usage.</p> <p>Estimated Maintenance Costs: Ongoing maintenance costs are built into Moreno Valley Utility's rate structure as part of the cost to serve.</p>	<p>Project Location Map:</p> <p align="center">Council District(s):</p> <p><input checked="" type="checkbox"/> District 1 <input type="checkbox"/> District 2 <input checked="" type="checkbox"/> District 3 <input checked="" type="checkbox"/> District 4</p>	

I1-3

Life-to-Date Expenditures Through FY 2017/2018: 569,954		FY 19/20 - FY 20/21 Budget						
PROJECT PHASE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
Prelim. Eng. / Environ. Design								
Equipment Procurement	500,230		500,000					500,000
Construction	50,000		50,000					50,000
Other	250,000		250,000					250,000
PROJECT TOTAL	800,230		800,000	0	0	0	0	800,000
FUNDING SOURCE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
Electric-Restricted (6011) 805 0045-6011	800,230		800,000					800,000
REVENUE TOTAL	800,230		800,000	0	0	0	0	800,000

Attachment: FY 2019/20 & 2020/21 CIP - New Funding Requests (3552 : PUBLIC HEARING AND ADOPTION

**CITY OF MORENO VALLEY
Capital Improvement Plan - Project Details
FYs 2019-2024 and Beyond**

<p>Project Title: Moreno Beach Bridge Conduit Project</p> <p>Department / Division: Financial and Management Services Department / Electric Utility Division</p>	<p>Project Status:</p> <p><input checked="" type="checkbox"/> New <input type="checkbox"/> Deleted</p> <p><input type="checkbox"/> In Progress <input type="checkbox"/> On Hold</p> <p><input type="checkbox"/> Completed</p>	<p>Project Priority in CIP Category:</p> <p><input checked="" type="checkbox"/> Essential (Start within 1 yr)</p> <p><input type="checkbox"/> Necessary (Start within 1 to 3 yrs)</p> <p><input type="checkbox"/> Desirable (Start within 3 to 5 yrs)</p> <p><input type="checkbox"/> Deferrable (Start within 5 to 10 yrs)</p>
<p>Project Description: This project is part of the SR-60 / Moreno Beach Drive Interchange (Phase 2) Project. The scope of this project includes installing conduits, street lights, and meter within the bridge crossing at Moreno Beach Bridge to serve future electrical load and increase system reliability.</p> <p>Design: Completed Bidding / Advertisement: Subject to SR-60 / Moreno Beach Drive Interchange (Phase 2) funding Construction: Subject to SR-60 / Moreno Beach Drive Interchange (Phase 2) funding</p> <p>Justification or Significance of Improvement: This project improves the capacity of the MVU service territory and increases reliability for new developments.</p> <p>Estimated Maintenance Costs: Ongoing maintenance costs are built into Moreno Valley Utility's rate structure as part of the cost to serve.</p>	<p>Project Location Map:</p> <p>Council District(s):</p> <p><input type="checkbox"/> District 1 <input checked="" type="checkbox"/> District 2 <input checked="" type="checkbox"/> District 3 <input type="checkbox"/> District 4</p>	

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Life-to-Date Expenditures Through FY 2017/2018: 0			FY 19/20 - FY 20/21 Budget					
PROJECT PHASE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
Prelim. Eng. / Environ. Design Right of Way Construction Other			50,000					50,000
			450,000					450,000
PROJECT TOTAL	0		500,000	0	0	0	0	500,000
FUNDING SOURCE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
Electric-Restricted (6011) 6011			500,000					500,000
REVENUE TOTAL	0		500,000	0	0	0	0	500,000

Attachment: FY 2019/20 & 2020/21 CIP - New Funding Requests (3552 : PUBLIC HEARING AND ADOPTION

**CITY OF MORENO VALLEY
Capital Improvement Plan - Project Details
FYs 2019-2024 and Beyond**

<p>Project Title: Landscape Maintenance Districts Capital Improvement Renovation</p> <p>Department / Division: Public Works / Special Districts</p>	<p>Project Status:</p> <input checked="" type="checkbox"/> New <input type="checkbox"/> Deleted <input type="checkbox"/> In Progress <input type="checkbox"/> On Hold <input type="checkbox"/> Completed	<p>Project Priority in CIP Category:</p> <input checked="" type="checkbox"/> Essential (Start within 1 yr) <input type="checkbox"/> Necessary (Start within 1 to 3 yrs) <input type="checkbox"/> Desirable (Start within 3 to 5 yrs) <input type="checkbox"/> Deferrable (Start within 5 to 10 yrs)
<p>Project Description: The project includes the design, construction, and construction management for the following capital improvements in the Zones designated (see attached sheet for specifics): Backflow Cage Upgrades in Zone D, M, E-7 and LMD Zones 01, 03, 05, 06, 07, 08 Irrigation / Smart Controller Installations in Zone D, M, E-7, and LMD Zone 03 Lighting Upgrades in LMD Zone 03 Day St / Centerpointe Median Renovations in LMD Zone 01</p> <p>Justification or Significance of Improvement: Landscape maintenance districts throughout the City require Capital Improvement Projects to reduce the cost of maintaining aging infrastructure and to improve efficiencies.</p> <p>The maximum amount of any annual installment shall be authorized through the collection of the Assessment Rate per EBU, up to the Maximum Rate, as set forth in each Fiscal Year's Engineer's Report.</p> <p>Estimated Maintenance Costs: Maintenance costs are funded through the annual assessments levied on the property tax bills.</p>	<p>Project Location Map:</p> <p align="center">CITYWIDE</p> <p>Council District(s):</p> <input checked="" type="checkbox"/> District 1 <input checked="" type="checkbox"/> District 2 <input checked="" type="checkbox"/> District 3 <input checked="" type="checkbox"/> District 4	

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Life-to-Date Expenditures Through FY 2017/2018: 0			FY 19/20 - FY 20/21 Budget					
PROJECT PHASE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
Prelim. Eng. / Environ. Design			66,850	51,200	61,000	56,000	26,000	261,050
Right of Way Construction			534,800	409,600	488,000	448,000	208,000	2,088,400
Other			66,850	51,200	61,000	56,000	26,000	261,050
PROJECT TOTAL	0		668,500	512,000	610,000	560,000	260,000	2,610,500
FUNDING SOURCE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
Zone D (5111) 5111			213,000	213,000	100,000	100,000	100,000	726,000
Zone M (5112) 5112			133,000	133,000	60,000	60,000	60,000	446,000
Zone E-7 (5013) 5013			34,500					34,500
LMD 2014-02 (5014) 5014			288,000	166,000	450,000	400,000	100,000	1,404,000
REVENUE TOTAL	0		668,500	512,000	610,000	560,000	260,000	2,610,500

Attachment: FY 2019/20 & 2020/21 CIP - New Funding Requests (3552 : PUBLIC HEARING AND

CITY OF MORENO VALLEY
Capital Improvement Plan - Project Details
FYs 2019-2024 and Beyond

Landscape Maintenance Districts Capital Improvement Renovation (Supplemental Information)

	FY 19/20	FY 20/21	FY 21/22	FY 22/23	FY 23/24	FY 19/20	FY 20/21	FY 21/22	FY 22/23	FY 23/24	FY 19/20	FY 20/21	FY 21/22	FY 22/23	FY 23/24	FY 19/20	FY 20/21	FY 21/22	FY 22/23	FY 23	
Projects	LMD 2014-02 Zone 01					LMD 2014-02 Zone 02					LMD 2014-02 Zone 03					LMD 2014-02 Zone 03A					
Backflow Cage Upgrades	X	X									X	X									
Irrigation/Smart Controller Installations											X	X									
Lighting Upgrades											X	X									
Day St/Centerpointe Median Renovations	X	X																			
Median Renovations													X	X							
Parkway Renovations								X	X												X
Stamped concrete on Nason (southern most median)																					

	FY 19/20	FY 20/21	FY 21/22	FY 22/23	FY 23/24	FY 19/20	FY 20/21	FY 21/22	FY 22/23	FY 23/24	FY 19/20	FY 20/21	FY 21/22	FY 22/23	FY 23/24	FY 19/20	FY 20/21	FY 21/22	FY 22/23	FY 23	
Projects	LMD 2014-02 Zone 05					LMD 2014-02 Zone 06					LMD 2014-02 Zone 07					LMD 2014-02 Zone 08					
Backflow Cage Upgrades	X	X				X	X				X	X				X	X				
Irrigation/Smart Controller Installations																					
Lighting Upgrades																					
Day St/Centerpointe Median Renovations																					
Median Renovations																					
Parkway Renovations																					
Stamped concrete on Nason (southern most median)				X																	

	FY 19/20	FY 20/21	FY 21/22	FY 22/23	FY 23/24	FY 19/20	FY 20/21	FY 21/22	FY 22/23	FY 23/24	FY 19/20	FY 20/21	FY 21/22	FY 22/23	FY 23/24
Projects	CSD Zone D					CSD Zone E-7					CSD Zone M				
Backflow Cage Upgrades	X	X				X	X				X	X			
Irrigation/Smart Controller Installations	X	X				X	X				X	X			
Lighting Upgrades															
Day St/Centerpointe Median Renovations															
Median Renovations													X	X	X
Parkway Renovations			X	X	X										
Stamped concrete on Nason (southern most median)															

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**CITY OF MORENO VALLEY
Capital Improvement Plan - Project Details
FYs 2019-2024 and Beyond**

<p>Project Title: Calsense Irrigation Controller Upgrades</p> <p>Department / Division: Parks & Community Services Department / Parks Division</p>	<p>Project Status:</p> <input checked="" type="checkbox"/> New <input type="checkbox"/> Deleted <input type="checkbox"/> In Progress <input type="checkbox"/> On Hold <input type="checkbox"/> Completed	<p>Project Priority in CIP Category:</p> <input checked="" type="checkbox"/> Essential (Start within 1 yr) <input type="checkbox"/> Necessary (Start within 1 to 3 yrs) <input type="checkbox"/> Desirable (Start within 3 to 5 yrs) <input type="checkbox"/> Deferrable (Start within 5 to 10 yrs)
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Project Description:
 Replace older model Calsense Controllers with updated model at Cold Creek Staging Area, Cottonwood Staging Area, Fay Avenue Bikeway, and Rancho Verde Staging Area.

Materials: July 2019 to October 2019
 Construction: November 2019 to February 2020

Justification or Significance of Improvement:
 Upgrading the Calsense Controllers allows more effective communication with the central site and adds mobile phone access to controllers.

Estimated Maintenance Costs:
 Annual park maintenance costs average approximately \$12,000 / acre based on budget information provided by the Parks Maintenance Division. Actual maintenance costs may vary depending on the size and amenities of the site. Parks maintenance is typically funded by Zone A (CDF No. 1 for newer parks).

Project Location Map:

Council District(s):

 District 1 District 2 District 3 District 4

Life-to-Date Expenditures Through FY 2017/2018: 0			FY 19/20 - FY 20/21 Budget					
PROJECT PHASE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
Prelim. Eng. / Environ. Design								
Right of Way Construction			32,000					32,000
Other								
PROJECT TOTAL	0		32,000	0	0	0	0	32,000
FUNDING SOURCE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
CFD #1 (5113) 5113			32,000					32,000
REVENUE TOTAL	0		32,000	0	0	0	0	32,000

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Attachment: FY 2019/20 & 2020/21 CIP - New Funding Requests (3552 : PUBLIC HEARING AND ADOPTION OF THE CAPITAL IMPROVEMENT

**CITY OF MORENO VALLEY
Capital Improvement Plan - Project Details
FYs 2019-2024 and Beyond**

<p>Project Title: Celebration Park Splash Pad UV Purification System</p> <p>Department / Division: Parks & Community Services Department / Parks Division</p>	<p>Project Status:</p> <input checked="" type="checkbox"/> New <input type="checkbox"/> Deleted <input type="checkbox"/> In Progress <input type="checkbox"/> On Hold <input type="checkbox"/> Completed	<p>Project Priority in CIP Category:</p> <input checked="" type="checkbox"/> Essential (Start within 1 yr) <input type="checkbox"/> Necessary (Start within 1 to 3 yrs) <input type="checkbox"/> Desirable (Start within 3 to 5 yrs) <input type="checkbox"/> Deferrable (Start within 5 to 10 yrs)
<p>Project Description: Install an ultraviolet water purification system for the splash pad at Celebration Park.</p> <p>Construction: November 2019 to June 2020</p> <p>Justification or Significance of Improvement: Adding an ultraviolet purification system will enhance the current chlorine/acid purification system and improve water quality by removing bacteria.</p> <p>Estimated Maintenance Costs: Splash pad maintenance costs average approximately \$21,000 per summer season. Maintenance will be funded by CFD No. 1.</p>	<p>Project Location Map:</p> <p>Council District(s):</p> <input type="checkbox"/> District 1 <input type="checkbox"/> District 2 <input type="checkbox"/> District 3 <input checked="" type="checkbox"/> District 4	

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Life-to-Date Expenditures Through FY 2017/2018: 0			FY 19/20 - FY 20/21 Budget					
PROJECT PHASE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
Prelim. Eng. / Environ. Design Right of Way Construction Other			50,000					50,000
PROJECT TOTAL	0		50,000	0	0	0	0	50,000
FUNDING SOURCE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
CFD #1 (5113) 5113			50,000					50,000
REVENUE TOTAL	0		50,000	0	0	0	0	50,000

Attachment: FY 2019/20 & 2020/21 CIP - New Funding Requests (3552 : PUBLIC HEARING AND ADOPTION OF THE CAPITAL IMPROVEMENT

**CITY OF MORENO VALLEY
Capital Improvement Plan - Project Details
FYs 2019-2024 and Beyond**

<p>Project Title: Cottonwood Golf Center Irrigation Improvements</p> <p>Department / Division: Parks & Community Services / Parks Division</p>	<p>Project Status:</p> <p><input type="checkbox"/> New <input type="checkbox"/> Deleted</p> <p><input checked="" type="checkbox"/> In Progress <input type="checkbox"/> On Hold</p> <p><input type="checkbox"/> Completed</p>	<p>Project Priority in CIP Category:</p> <p><input checked="" type="checkbox"/> Essential (Start within 1 yr)</p> <p><input type="checkbox"/> Necessary (Start within 1 to 3 yrs)</p> <p><input type="checkbox"/> Desirable (Start within 3 to 5 yrs)</p> <p><input type="checkbox"/> Deferrable (Start within 5 to 10 yrs)</p>
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Project Description:
Replace the lumber constructed irrigation pump shack, the irrigation controllers, the drain line, and the main line.

Justification or Significance of Improvement:
The pump shack has deteriorated over several decades and needs replacement to safely house the golf center's irrigation pump and electrical. About one-third of the broken drain line was replaced several years ago. The rest of the drain line has degraded to the point of needing replacement. Irrigation controllers are outdated and inefficient. New controllers with modern technology provide significantly better water efficiency. The main line is degrading, requiring constant repair and requires replacement.

Construction Completed: FY 17/18 - Pump shack and drain line
Construction: FY 19/20 to 20/21 - Irrigation controllers and main line

Estimated Maintenance Costs:
Annual park maintenance costs average approximately \$12,000 / acre based on budget information provided by the Parks Maintenance Division. Actual maintenance costs may vary depending on the size and amenities of the site. Maintenance will be funded from Zone A.

Project Location Map:

Council District(s):

District 1 District 2 District 3 District 4

Life-to-Date Expenditures Through FY 2017/2018: 17,150			FY 19/20 - FY 20/21 Budget					
PROJECT PHASE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
Prelim. Eng. / Environ. Design Right of Way Construction Other	12,850		150,000	100,000				250,000
PROJECT TOTAL	12,850		150,000	100,000	0	0	0	250,000
FUNDING SOURCE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
PCS Cap Proj (2019) 807 0045-3016	12,850		150,000	100,000				250,000
REVENUE TOTAL	12,850		150,000	100,000	0	0	0	250,000

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Attachment: FY 2019/20 & 2020/21 CIP - New Funding Requests (3552 : PUBLIC HEARING AND ADOPTION OF THE CAPITAL IMPROVEMENT

**CITY OF MORENO VALLEY
Capital Improvement Plan - Project Details
FYs 2019-2024 and Beyond**

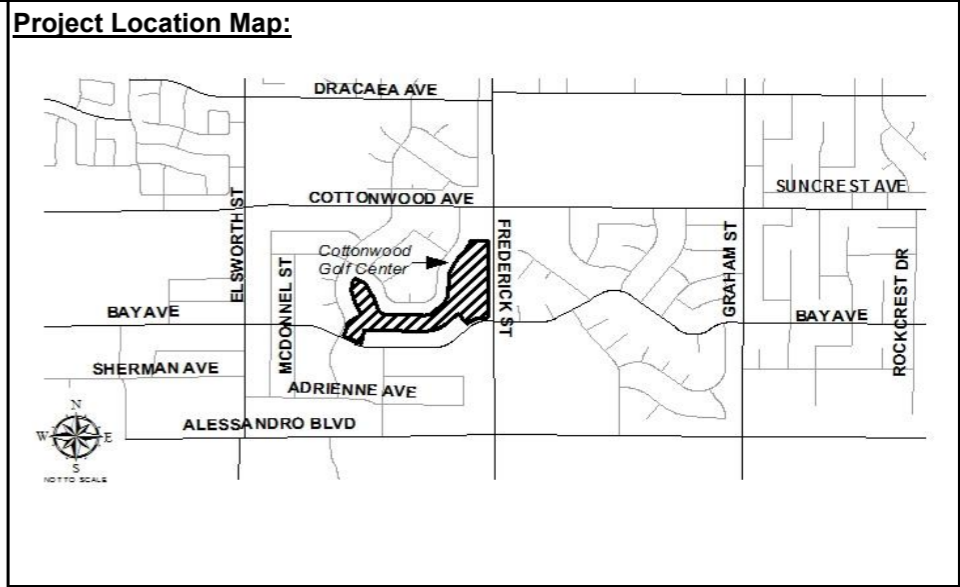
<p>Project Title: Cottonwood Recreation Center Exterior Landscaping</p> <p>Department / Division: Parks & Community Services Department / Parks Division</p>	<p>Project Status:</p> <p><input type="checkbox"/> New <input type="checkbox"/> Deleted</p> <p><input checked="" type="checkbox"/> In Progress <input type="checkbox"/> On Hold</p> <p><input type="checkbox"/> Completed</p>	<p>Project Priority in CIP Category:</p> <p><input checked="" type="checkbox"/> Essential (Start within 1 yr)</p> <p><input type="checkbox"/> Necessary (Start within 1 to 3 yrs)</p> <p><input type="checkbox"/> Desirable (Start within 3 to 5 yrs)</p> <p><input type="checkbox"/> Deferrable (Start within 5 to 10 yrs)</p>
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Project Description:
This project will renovate the Cottonwood Recreation Center Exterior Landscaping to include tubular steel fencing, gates, landscaping, and marquee sign.

Completed 17/18: Fencing and Gates
Construction: July 2019 to June 2020

Justification or Significance of Improvement:
Exterior fencing and landscaping will provide scenic outdoor rental opportunities.

Estimated Maintenance Costs:
Annual average building maintenance costs are estimated at approximately \$10.00 / square foot. Although actual maintenance costs may vary, this estimated cost is based on an industry accepted standard maintenance cost. Funding sources also vary, depending on the type of building, but the primary source is Zone A. Anticipated increase in rental revenue will help to fund these maintenance costs.



Council District(s):

District 1 District 2 District 3 District 4

Life-to-Date Expenditures Through FY 2017/2018: 53,857			FY 19/20 - FY 20/21 Budget					
PROJECT PHASE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
Prelim. Eng. / Environ. Design								
Right of Way								
Construction	66,143		45,000					45,000
Other								
PROJECT TOTAL	66,143		45,000	0	0	0	0	45,000
FUNDING SOURCE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
PCS Cap Proj (2905) 807 0043-3015	24,745							
PCS Cap Proj (2019) 807 0043-3016	41,398		45,000					45,000
REVENUE TOTAL	66,143		45,000	0	0	0	0	45,000

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Attachment: FY 2019/20 & 2020/21 CIP - New Funding Requests (3552 : PUBLIC HEARING AND ADOPTION OF THE CAPITAL IMPROVEMENT

**CITY OF MORENO VALLEY
Capital Improvement Plan - Project Details
FYs 2019-2024 and Beyond**

<p>Project Title: Drinking Fountain Replacements at Various Parks</p> <p>Department / Division: Parks & Community Services Department / Parks Division</p>	<p>Project Status:</p> <input checked="" type="checkbox"/> New <input type="checkbox"/> Deleted <input type="checkbox"/> In Progress <input type="checkbox"/> On Hold <input type="checkbox"/> Completed	<p>Project Priority in CIP Category:</p> <input checked="" type="checkbox"/> Essential (Start within 1 yr) <input type="checkbox"/> Necessary (Start within 1 to 3 yrs) <input type="checkbox"/> Desirable (Start within 3 to 5 yrs) <input type="checkbox"/> Deferrable (Start within 5 to 10 yrs)
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Project Description:
Replace drinking fountains at Celebration Park and Vista Lomas.

Construction: FY 19/20 - Celebration Park
Construction: FY 20/21 - Vista Lomas

Justification or Significance of Improvement:
The existing drinking fountains at these parks have been damaged by vandalism over the years and replacement parts are difficult to find for these outdated units. The newer model is vandal-resistant.

Estimated Maintenance Costs:
Annual park maintenance costs average approximately \$12,000 / acre based on budget information provided by the Parks Maintenance Division. Actual maintenance costs may vary depending on the size and amenities of the site. Parks maintenance is typically funded by Zone A (CDF No. 1 for newer parks).

Project Location Map:

Council District(s):

 District 1 District 2 District 3 District 4

Life-to-Date Expenditures Through FY 2017/2018: 0			FY 19/20 - FY 20/21 Budget					
PROJECT PHASE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
Prelim. Eng. / Environ. Design Right of Way Construction Other			30,000	22,000				52,000
PROJECT TOTAL	0		30,000	22,000	0	0	0	52,000
FUNDING SOURCE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
CFD #1 (5113) 5113			30,000	22,000				52,000
REVENUE TOTAL	0		30,000	22,000	0	0	0	52,000

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Attachment: FY 2019/20 & 2020/21 CIP - New Funding Requests (3552 : PUBLIC HEARING AND ADOPTION OF THE CAPITAL IMPROVEMENT

**CITY OF MORENO VALLEY
Capital Improvement Plan - Project Details
FYs 2019-2024 and Beyond**

<p>Project Title: Hidden Springs Park II</p> <p>Department / Division: Parks & Community Services Department / Parks Division</p>	<p>Project Status:</p> <p><input type="checkbox"/> New <input type="checkbox"/> Deleted</p> <p><input checked="" type="checkbox"/> In Progress <input type="checkbox"/> On Hold</p> <p><input type="checkbox"/> Completed</p>	<p>Project Priority in CIP Category:</p> <p><input checked="" type="checkbox"/> Essential (Start within 1 yr)</p> <p><input type="checkbox"/> Necessary (Start within 1 to 3 yrs)</p> <p><input type="checkbox"/> Desirable (Start within 3 to 5 yrs)</p> <p><input type="checkbox"/> Deferrable (Start within 5 to 10 yrs)</p>
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Project Description:
This project will install a dog park will play/training apparatus and fencing.

Construction Completed: FY 17/18 - Picnic tables, benches, staging area
Construction: FY 20/21 - Dog park

Justification or Significance of Improvement:
This park is extensively used by walkers and joggers and dog owners. The addition of amenities to the park will be an enhancement to the area.

Estimated Maintenance Costs:
Annual park maintenance costs average approximately \$12,000 / acre based on budget information provided by the Parks Maintenance Division. Actual maintenance costs may vary depending on the size and amenities of the site. Parks maintenance is typically funded by Zone A (CDF No. 1 for newer parks).

Project Location Map:

Council District(s):

District 1 District 2 District 3 District 4

Life-to-Date Expenditures Through FY 2017/2018: 76,283			FY 19/20 - FY 20/21 Budget					
PROJECT PHASE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
Prelim. Eng. / Environ. Design								
Right of Way Construction	46,717			30,000				30,000
Other								
PROJECT TOTAL	46,717		0	30,000	0	0	0	30,000
FUNDING SOURCE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
PCS Cap Proj (2905) 807 0039-3015	46,717			30,000				30,000
REVENUE TOTAL	46,717		0	30,000	0	0	0	30,000

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Attachment: FY 2019/20 & 2020/21 CIP - New Funding Requests (3552 : PUBLIC HEARING AND ADOPTION OF THE CAPITAL IMPROVEMENT

**CITY OF MORENO VALLEY
Capital Improvement Plan - Project Details
FYs 2019-2024 and Beyond**

Project Title: LED Lighting Upgrades at Various Parks Department / Division: Parks & Community Services Department / Parks Division	Project Status: <input checked="" type="checkbox"/> New <input type="checkbox"/> Deleted <input type="checkbox"/> In Progress <input type="checkbox"/> On Hold <input type="checkbox"/> Completed	Project Priority in CIP Category: <input checked="" type="checkbox"/> Essential (Start within 1 yr) <input type="checkbox"/> Necessary (Start within 1 to 3 yrs) <input type="checkbox"/> Desirable (Start within 3 to 5 yrs) <input type="checkbox"/> Deferrable (Start within 5 to 10 yrs)
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Project Description:
 Upgrade current light fixtures at Celebration Park, Vista Lomas, Towngate II, and Hound Town Dog Park with LED lighting.
 Construction: FY19/20 - Vista Lomas and Celebration Park
 Construction: FY 20/21 - Towngate II and Hound Town Dog Park

Justification or Significance of Improvement:
 Existing light fixtures are inefficient and require costly repairs. New fixtures are more efficient and have a longer lifespan. Hound Town Dog Park currently has no lighting. Adding lighting there would allow expanded hours of operation, beyond dusk.

Estimated Maintenance Costs:
 Annual park maintenance costs average approximately \$12,000 / acre based on budget information provided by the Parks Maintenance Division. Actual maintenance costs may vary depending on the size and amenities of the site. Parks maintenance is typically funded by Zone A (CDF No. 1 for newer parks).

Project Location Map:

Council District(s):
 District 1 District 2 District 3 District 4

Life-to-Date Expenditures Through FY 2017/2018: 0			FY 19/20 - FY 20/21 Budget					
PROJECT PHASE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
Prelim. Eng. / Environ. Design Right of Way Construction Other			50,000	70,000				120,000
PROJECT TOTAL	0		50,000	70,000	0	0	0	120,000
FUNDING SOURCE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
CFD #1 (5113) 5113			50,000	70,000				120,000
REVENUE TOTAL	0		50,000	70,000	0	0	0	120,000

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Attachment: FY 2019/20 & 2020/21 CIP - New Funding Requests (3552 : PUBLIC HEARING AND ADOPTION OF THE CAPITAL IMPROVEMENT

**CITY OF MORENO VALLEY
Capital Improvement Plan - Project Details
FYs 2019-2024 and Beyond**

<p>Project Title: Annual ADA Park Improvements</p> <p>Department / Division: Parks & Community Services Department / Parks Division</p>	<p>Project Status:</p> <input type="checkbox"/> New <input type="checkbox"/> Deleted <input checked="" type="checkbox"/> In Progress <input type="checkbox"/> On Hold <input type="checkbox"/> Completed	<p>Project Priority in CIP Category:</p> <input checked="" type="checkbox"/> Essential (Start within 1 yr) <input type="checkbox"/> Necessary (Start within 1 to 3 yrs) <input type="checkbox"/> Desirable (Start within 3 to 5 yrs) <input type="checkbox"/> Deferrable (Start within 5 to 10 yrs)
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Project Description:
 The City is required to have an annual program in place to upgrade non-compliant Americans with Disabilities Act (ADA) facilities. This project upgrades existing non-ADA compliant facilities (restrooms), park and parking lot ramps, and sidewalks throughout City parks. The work will be consistent with the City's ADA Transition Plan (required by law).

Project Schedule: Ongoing

Justification or Significance of Improvement:
 Cities are required by Federal and State Law to have an ADA Transition Plan, consisting of plans and schedules to upgrade facilities (restrooms), park/parking lot ramps, and sidewalks to ADA specifications. Upgrading these items will enhance usage for people with physical disabilities and other pedestrians.

Estimated Maintenance Costs:
 Annual park maintenance costs average approximately \$12,000 / acre based on budget information provided by the Parks Maintenance Division. Actual maintenance costs may vary depending on the size and amenities of the site. Parks maintenance is typically funded by Zone A (CDF No. 1 for newer parks).

Project Location Map:

CITYWIDE

Council District(s):

District 1
 District 2
 District 3
 District 4

Life-to-Date Expenditures Through FY 2017/2018: 735,432			FY 19/20 - FY 20/21 Budget					
PROJECT PHASE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
Prelim. Eng. / Environ. Design								
Right of Way Construction	286,120		100,000	200,000	100,000	100,000	100,000	600,000
Other								
PROJECT TOTAL	286,120		100,000	200,000	100,000	100,000	100,000	600,000
FUNDING SOURCE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
PCS Cap Proj (2019) 807 0005 50 57-3016	286,120		100,000	200,000	100,000	100,000	100,000	600,000
REVENUE TOTAL	286,120		100,000	200,000	100,000	100,000	100,000	600,000

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Attachment: FY 2019/20 & 2020/21 CIP - New Funding Requests (3552 : PUBLIC HEARING AND ADOPTION OF THE CAPITAL IMPROVEMENT

**CITY OF MORENO VALLEY
Capital Improvement Plan - Project Details
FYs 2019-2024 and Beyond**

<p>Project Title: Replacement Playground Equipment</p> <p>Department / Division: Parks & Community Services Department / Parks Division</p>	<p>Project Status:</p> <p><input type="checkbox"/> New <input type="checkbox"/> Deleted</p> <p><input checked="" type="checkbox"/> In Progress <input type="checkbox"/> On Hold</p> <p><input type="checkbox"/> Completed</p>	<p>Project Priority in CIP Category:</p> <p><input checked="" type="checkbox"/> Essential (Start within 1 yr)</p> <p><input type="checkbox"/> Necessary (Start within 1 to 3 yrs)</p> <p><input type="checkbox"/> Desirable (Start within 3 to 5 yrs)</p> <p><input type="checkbox"/> Deferrable (Start within 5 to 10 yrs)</p>
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Project Description:
The purpose of this ongoing project is to replace deteriorating playground equipment at parks throughout the City to comply with Consumer Product Safety Commission (CPSC) regulations. Additionally, adjacent accessibility repairs will be done to comply with current codes.

Construction completed: FY18/19 - Westbluff
Construction: FY 20/21 - Hidden Springs

Justification or Significance of Improvement:
The playground equipment at some park sites is deteriorating and needs to be replaced.

Estimated Maintenance Costs:
Annual park maintenance costs average approximately \$12,000 / acre based on budget information provided by the Parks Maintenance Division. Actual maintenance costs may vary depending on the size and amenities of the site. Parks maintenance is typically funded by Zone A (CDF No. 1 for newer parks).

Project Location Map:

Council District(s):

District 1 District 2 District 3 District 4

Life-to-Date Expenditures Through FY 2017/2018: 895,905			FY 19/20 - FY 20/21 Budget					
PROJECT PHASE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
Prelim. Eng. / Environ. Design								
Right of Way								
Construction	172,397		25,000	75,000	75,000			175,000
Other								
PROJECT TOTAL	172,397		25,000	75,000	75,000	0	0	175,000
FUNDING SOURCE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
PCS Cap Proj (2019) 807 0004 50 57-3016	172,397		25,000	75,000	75,000			175,000
REVENUE TOTAL	172,397		25,000	75,000	75,000	0	0	175,000

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Attachment: FY 2019/20 & 2020/21 CIP - New Funding Requests (3552 : PUBLIC HEARING AND ADOPTION OF THE CAPITAL IMPROVEMENT

**CITY OF MORENO VALLEY
Capital Improvement Plan - Project Details
FYs 2019-2024 and Beyond**

<p>Project Title: Traffic Signal Coordination Program</p> <p>Department / Division: Public Works Department / Transportation Engineering Division</p>	<p>Project Status:</p> <input type="checkbox"/> New <input checked="" type="checkbox"/> In Progress <input type="checkbox"/> Completed <input type="checkbox"/> Deleted <input type="checkbox"/> On Hold	<p>Project Priority in CIP Category:</p> <input checked="" type="checkbox"/> Essential (Start within 1 yr) <input type="checkbox"/> Necessary (Start within 1 to 3 yrs) <input type="checkbox"/> Desirable (Start within 3 to 5 yrs) <input type="checkbox"/> Deferrable (Start within 5 to 10 yrs)
<p>Project Description: City staff will update existing traffic signal coordination plans to support deployment of new traffic signal control equipment. Eight arterials are currently synchronized and would be updated as necessary: Frederick Street, Heacock Street, Perris Boulevard, Lasselle Street, Box Springs Road / Ironwood Avenue, Sunnymead Boulevard, Alessandro Boulevard, and Cactus Avenue. Currently, 58 signals are operating in coordination.</p> <p>Schedule: Ongoing as dictated by traffic pattern changes.</p> <p>Justification or Significance of Improvement: This project will optimize the performance of Moreno Valley's most heavily traveled arterials. This project pays for staff time, therefore, no additional maintenance cost.</p> <p>Estimated Maintenance Costs: Traffic signal maintenance is funded by the operating budget.</p>	<p>Project Location Map:</p> <p align="center">CITYWIDE</p>	
<p>Council District(s):</p> <input checked="" type="checkbox"/> District 1 <input checked="" type="checkbox"/> District 2 <input checked="" type="checkbox"/> District 3 <input checked="" type="checkbox"/> District 4		

Life-to-Date Expenditures Through FY 2017/2018: 303,693			FY 19/20 - FY 20/21 Budget					
PROJECT PHASE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
Prelim. Eng. / Environ. Design Right of Way Construction Other	107,649		20,000	20,000	30,000	30,000	30,000	130,000
PROJECT TOTAL	107,649		20,000	20,000	30,000	30,000	30,000	130,000
FUNDING SOURCE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
Air Quality Mgmt (2005) 808 0004 70 76-2005	107,649		20,000	20,000	30,000	30,000	30,000	130,000
REVENUE TOTAL	107,649		20,000	20,000	30,000	30,000	30,000	130,000

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Attachment: FY 2019/20 & 2020/21 CIP - New Funding Requests (3552 : PUBLIC HEARING AND ADOPTION

**CITY OF MORENO VALLEY
Capital Improvement Plan - Project Details
FYs 2019-2024 and Beyond**

<p>Project Title: Dracaea Avenue Neighborhood Greenway Corridor Study</p> <p>Department / Division: Public Work Department / Transportation Engineering Division</p>	<p>Project Status:</p> <input checked="" type="checkbox"/> New <input checked="" type="checkbox"/> In Progress <input type="checkbox"/> Completed <input type="checkbox"/> Deleted <input type="checkbox"/> On Hold	<p>Project Priority in CIP Category:</p> <input checked="" type="checkbox"/> Essential (Start within 1 yr) <input type="checkbox"/> Necessary (Start within 1 to 3 yrs) <input type="checkbox"/> Desirable (Start within 3 to 5 yrs) <input type="checkbox"/> Deferrable (Start within 5 to 10 yrs)
<p>Project Description: This project will study Dracaea Avenue from Arbor Park to Nason Street for a potential Neighborhood Greenway. The corridor study is intended to provide traffic calming strategies to enhance the City's Safe Routes to School Program and augment the City's bicycle network.</p> <p>Justification or Significance of Improvement: The project will provide a study that could be used for future grant projects relating to Active Transportation. Project is identified in the City's Bicycle Master Plan.</p> <p>Schedule: Develop RFP/ Select Consultant: March 2019 to July 2019 Complete Corridor Study: July 2019 to February 2021</p> <p>Estimated Maintenance Costs: This project is a corridor study only, so no additional maintenance costs will be realized.</p>	<p>Project Location Map:</p> <p>Council District(s):</p> <input checked="" type="checkbox"/> District 1 <input type="checkbox"/> District 2 <input checked="" type="checkbox"/> District 3 <input type="checkbox"/> District 4	

0-4

Life-to-Date Expenditures Through FY 2017/2018: 0			FY 19/20 - FY 20/21 Budget					
PROJECT PHASE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
Prelim. Eng. / Environ. Design Right of Way Construction Other	154,927		10,000	10,073				20,073
PROJECT TOTAL	154,927		10,000	10,073	0	0	0	20,073
FUNDING SOURCE	Budget FY 2018/2019		New Request FY 2019/2020	New Request FY 2020/2021	FY 2021/2022	FY 2022/2023	FY 2023/2024 and Beyond	Total
Cap Proj Grants (2301) 810 0015-2301 Air Quality Mgmt (2005) 810 0015-2005	154,927		10,000	10,073				20,073
REVENUE TOTAL	154,927		10,000	10,073	0	0	0	20,073

Attachment: FY 2019/20 & 2020/21 CIP - New Funding Requests (3552 : PUBLIC HEARING AND ADOPTION



Report to City Council

TO: Mayor and City Council

FROM: Abdul Ahmad, Fire Chief

AGENDA DATE: June 4, 2019

TITLE: PUBLIC HEARING FOR DELINQUENT NUISANCE ABATEMENT

RECOMMENDED ACTION

Recommendations:

1. Conduct a public hearing and accept public testimony on delinquent nuisance abatement account.
2. Adopt Resolution No. 2019-XX. A Resolution of the City Council of the City of Moreno Valley, California, Confirming Statements of Costs against Real Property located in the City of Moreno Valley, for Abatements of Public Nuisances and Direction that Said Statement of Costs Constitute a Lien upon Said Properties.
3. Approve placing the submitted Property Assessment List of delinquent nuisance abatement accounts on the Fiscal Year (FY) 2019/2020 Riverside County property tax roll for collection.
4. Direct the City Clerk to file with the Riverside County Tax Assessor's office a certified copy of Resolution No. 2019-XX and the Property Assessment List as required by Section 6.04.120 of the City of Moreno Valley Municipal Code.

SUMMARY

In 2018, the Fire Prevention Division performed public nuisance abatements to remove hazardous and other nuisance conditions from vacant parcels in the City. After having been served with a "Notice to Abate" and given a reasonable time for compliance, the property owners failed to voluntarily abate the conditions.

This report recommends that the City Council convene a public hearing to consider staff recommendations to adopt the proposed resolution of the City of Moreno Valley,

confirming assessments on certain real properties and approve placing the submitted Property Assessment List of delinquent nuisance abatement accounts on the Fiscal Year 2019/2020 Riverside County property tax roll for collection.

DISCUSSION

In February of each year, the Fire Prevention Division sends each vacant parcel owner as identified by the last equalized assessment roll, a Notice to Abate. This letter states that all weeds, dry vegetation, rubble, junk, trash, debris, objects, discarded auto bodies, parts and other waste matter upon the premises is a public nuisance and must be abated per Moreno Valley Municipal Code 6.04 by April 1.

All vacant parcels in Moreno Valley are inspected on or after April 1 to determine if the property owner voluntarily complied with the Notice to Abate mailed in February. Shortly after inspection, non-compliant property owners receive a Notice of Violation and up to 10 days to comply with the necessary abatement. After the second reinspection, should the vacant parcel still require the removal of weeds, dry vegetation, rubble, junk, trash, debris, objects, discarded auto bodies, parts and other waste matter, a Final Notice of Violation is mailed to the property owner allowing a final seven days to become compliant before the Fire Prevention Division proceeds with the abatement process.

Once the period of time has passed as identified in the final notice, per Municipal Code 6.04, the property is scheduled for abatement by City contractor. This section of the municipal code also allows for recovery of all costs associated with said abatements.

The Property Assessment List for general nuisance and weed abatements is hereby submitted for review and consideration by the City Council. A statement of costs was mailed to the legal owner of record for each property requiring abatement action. The source of property owner information was obtained through the Riverside County Tax Assessors Office as of February 2019. A summary of each abatement is included in the statement of costs, along with the owner's name(s), property description, and the cost for the abatement action. A copy of the statement of costs shall remain on file in the Fire Prevention Bureau.

The Property Assessment List is a current listing of unpaid abatement costs incurred during 2018. Costs approved by the attached City Council Resolution will result in a special assessment levied on the FY 2019/2020 tax bill if not paid directly to the City by July 1, 2019. The Notices of Special Assessment will be recorded at the Riverside County Recorder's Office following approval by the City Council.

ALTERNATIVES

1. Approve and authorize the recommended action as presented in this staff report. *Staff recommends this alternative as it will facilitate cost recovery for those costs incurred by the City for the abatement of public nuisance and hazard reduction work performed as outlined in the attached Property Assessment List.*

- 2. Do not approve and authorize the recommended actions as presented in this staff report. *Staff does not recommend this alternative as it will result in the cost for contract abatement work to be absorbed by the General Fund for all costs that remain unpaid by the property owners.*

FISCAL IMPACT

Adoption of the resolution would facilitate cost recovery for those costs incurred by the City for public nuisance and hazard reduction work performed as outlined in the Property Assessment List included as Exhibit A to the attached resolution.

As detailed in the Property Assessment List, the costs incurred by the City for contractual abatements, inspection, administration, and levy of the assessment on the property tax bill, are outlined below. The fee to levy the assessment is \$16.00 per parcel, payable to the Special Districts Division (SD) consistent with the City’s adopted Fee Schedule.

Fire Prevention Bureau

Contractual Fee	<u>\$37,421.50</u>
Inspection Fee	<u>\$12,750.00</u>
Administrative Fee	<u>\$20,400.00</u>
Fixed Charge Levy Fee: (85 @ \$16.00 each)	<u>1,360.00</u>
Total:	<u>\$71,931.50</u>

The Property Assessment List, as approved by City Council, is subject to amendment as necessary to reflect any payments subsequently received from property owners. Costs not paid in full by July 1, 2019, will be processed as special assessments and cost recovery will occur through the payment of taxes. The Statement of Costs and Notices of Special Assessment for each property shall remain on file in the Fire Prevention Bureau. If payment, or partial payment, is received from property owners, Exhibit A will be revised as appropriate.

NOTIFICATION

Moreno Valley Municipal Code Section 6.04.060 – Notification of Nuisance provides that written notice of nuisance conditions **may** be given to property owners in the following manner:

By regular mail addressed to the owner or person in charge and control of the property; at the address shown on the last available equalized assessment roll of the County of Riverside; or as otherwise known, by posting a “Notice to Abate” on the property where the nuisance condition(s) exists thereby allowing ten days to comply.

Notification of weed abatement conditions was specifically met by:

1. Mailing a "Notice to Abate" to property owners by regular mail.

2. Mailing a "Notice of Violation" to property owners by regular mail.

Furthermore, the Fire Prevention Division mailed a Statement of Cost to each property owner in March 2019 indicating the amount owed for the nuisance abatement services performed by the City as well as the date of the City Council meeting at which this Public Hearing would occur. If approved, an official list of the delinquent accounts will be submitted to Special Districts, which indicates the total amount that can be placed on the property tax roll for FY 2019/2020.

PREPARATION OF STAFF REPORT

Prepared By:
Doug Bloom
Assistant Fire Marshal

Department Head Approval:
Abdul R. Ahmad
Fire Chief

Concurred by:
Candace Cassel
Special Districts Division Manager

CITY COUNCIL GOALS

None

CITY COUNCIL STRATEGIC PRIORITIES

1. Economic Development
2. Public Safety
3. Library
4. Infrastructure
5. Beautification, Community Engagement, and Quality of Life
6. Youth Programs

ATTACHMENTS

1. Public Hearing Notice for Nuisance Abatement Accts_Press-Enterprise
2. PAL Log_2018
3. Resolution - Nuisance Abatement

APPROVALS

Budget Officer Approval	<u>✓ Approved</u>	5/21/19 1:08 PM
City Attorney Approval	<u>✓ Approved</u>	5/21/19 4:47 PM
City Manager Approval	<u>✓ Approved</u>	5/30/19 12:02 PM

NOTICE OF PUBLIC HEARING
CITY COUNCIL OF THE CITY OF MORENO VALLEY

NOTICE IS HEREBY GIVEN that a Public Hearing will be held before the City Council of the City of Moreno Valley on Tuesday, May 21, 2019 at 6:00 P.M. at the City Hall Council Chambers, 14177 Frederick Street, Moreno Valley, California, to consider the following item:

PUBLIC HEARING FOR DELINQUENT NUISANCE ABATEMENT ACCOUNTS

A copy of the proposed Property Assessment Log will be available for public inspection in the Office of the City Clerk, 14177 Frederick Street, Moreno Valley, California.

Dated: 3/11/19

s/Doug Bloom
Assistant Fire Marshal, MVFD



**Property Abatement List (PAL)
FY 19/20 Tax Year
Between 04/01/2018 and 12/31/2018**

Parcel Record #	Owner	Address	Summary of Work	Abatement Date	Contractor Fees	Inspection Fees	Special Districts Fees	Admin Fees	Total Due
256150001 FHA18-0043	SHIZAO ZHENG	NINGBO CITY ZHEJIANG PROVINCE	256150001 Hazard Abatement	07/23/2018	2,485.00	150.00	16.00	240.00	2,891.00
256150025 FHA18-0033	ROY EASLEY	3223 RIVER DR EDEN, UT 84310	256150025 Hazard Abatement	07/23/2018	179.00	150.00	16.00	240.00	585.00
256150026 FHA18-0029	DANIEL MENDOZA	3223 RIVER DR EDEN, UT 84310	256150026 Hazard Abatement	07/23/2018	179.00	150.00	16.00	240.00	585.00
256150035 FHA18-0028	ROY EASLEY	3223 RIVER DR EDEN, UT 84310	256150035 Hazard Abatement	07/23/2018	179.00	150.00	16.00	240.00	585.00
256182048 FHA18-0035	WILDFLOWER RIVERSIDE HOMEOWNER ASSN	2232 SE BRISTOL STE 203	256182048 Hazard Abatement	07/23/2018	183.00	150.00	16.00	240.00	589.00
259240062 FHA18-0009	JW CAPITAL PP	1801 AVE OF STARS NO 1240	259240062 Hazard Abatement	07/16/2018	1,133.00	150.00	16.00	240.00	1,539.00
259240090 FHA18-0014	JW CAPITAL PP	1801 AVE OF STARS NO 1240	259240090 Hazard Abatement	07/16/2018	2,123.00	150.00	16.00	240.00	2,529.00
263113005 FHA18-0080	PAMELA FLESNER	30576 MIRANDELA LN LAGUNA NIGUEL, CA	263113005 Hazard Abatement	07/10/2018	231.00	150.00	16.00	240.00	637.00
263113006 FHA18-0092	SAUNDRA SWANSON	3340 DEL SOL BLVD SPC 155	263113006 Hazard Abatement	07/10/2018	177.00	150.00	16.00	240.00	583.00

Attachment: PAL Log_2018 (3477 : PUBLIC HEARING FOR DELINQUENT NUISANCE ABATEMENT)



**Property Abatement List (PAL)
FY 19/20 Tax Year
Between 04/01/2018 and 12/31/2018**

Parcel Record #	Owner	Address	Summary of Work	Abatement Date	Contractor Fees	Inspection Fees	Special Districts Fees	Admin Fees	Total Due
263132022 FHA18-0132	MARCO ANTONIO CEDILLO	PO BOX 2715 PERRIS, CA 92572	263132022 Hazard Abatement	07/10/2018	177.00	150.00	16.00	240.00	583.00
263190031 FHA18-0214	SOCRATES URENA	20620 AVENIDA HACIENDA	263190031 Hazard Abatement	07/10/2018	179.00	150.00	16.00	240.00	585.00
263210055 FHA18-0188	OSCAR SANDOVAL	P O BOX 10180 MORENO VALLEY, CA	263210055 Hazard Abatement	07/10/2018	368.00	150.00	16.00	240.00	774.00
263220011 FHA18-0224	MONTHER ALQUZAH	10241 INDIANA AVE RIVERSIDE, CA 92503	263220011 Hazard Abatement	07/10/2018	177.00	150.00	16.00	240.00	583.00
263220018 FHA18-0194	MONTHER ALQUZAH	10241 INDIANA AVE RIVERSIDE, CA 92503	263220018 Hazard Abatement	07/10/2018	454.00	150.00	16.00	240.00	860.00
291130002 FHA18-0247	ROBERTO ACEVEDO	24138 HEMLOCK AVE #A- 5	291130002 Hazard Abatement	07/10/2018	179.00	150.00	16.00	240.00	585.00
291130016 FHA18-0242	SUWIGHT FAMILY LTD PARTNERSHIP	4020 TYLER ST NO 525 RIVERSIDE, CA 92503	291130016 Hazard Abatement	07/06/2018	615.50	150.00	16.00	240.00	1,021.50
291140001 FHA18-0240	SADIE KACHOEFF	5159 HARTWICK ST LOS ANGELES, CA	291140001 Hazard Abatement	07/18/2018	298.50	150.00	16.00	240.00	704.50

Attachment: PAL Log_2018 (3477 : PUBLIC HEARING FOR DELINQUENT NUISANCE ABATEMENT)



**Property Abatement List (PAL)
FY 19/20 Tax Year
Between 04/01/2018 and 12/31/2018**

Parcel Record #	Owner	Address	Summary of Work	Abatement Date	Contractor Fees	Inspection Fees	Special Districts Fees	Admin Fees	Total Due
291140002 FHA18-0250	KACHOEFF ARTHUR ESTATE OF	5159 HARTWICK ST LOS ANGELES, CA	291140002 Hazard Abatement	07/18/2018	231.00	150.00	16.00	240.00	637.00
292032011 FHA18-0353	JURUPA LAND & INV INC	6865 AIRPORT DR RIVERSIDE, CA 92504	292032011 Hazard Abatement	07/20/2018	678.00	150.00	16.00	240.00	1,084.00
292191021 FHA18-0333	LUIS ONTIVEROS	4415 CAMINITO TECERA DEL MAR, CA 92014	292191021 Hazard Abatement	07/17/2018	179.00	150.00	16.00	240.00	585.00
292191022 FHA18-0332	LUIS ONTIVEROS	4415 CAMINITO TECERA DEL MAR, CA 92014	292191022 Hazard Abatement	07/17/2018	179.00	150.00	16.00	240.00	585.00
292191023 FHA18-0376	LUIS ONTIVEROS	4415 CAMINITO TECERA DEL MAR, CA 92014	292191023 Hazard Abatement	07/17/2018	179.00	150.00	16.00	240.00	585.00
292241011 FHA18-0373	KUNZ & CO	10400 OVERLAND RD NO 391	292241011 Hazard Abatement	07/23/2018	178.00	150.00	16.00	240.00	584.00
297150031 FHA18-0366	R&H HOTEL DEV	16278 MENAHKA RD APPLE VALLEY, CA	297150031 Hazard Abatement	07/10/2018	501.00	150.00	16.00	240.00	907.00
297220001 FHA18-0388	MORENO VALLEY GATEWAY	30448 RANCHO VIEJO RD 110	297220001 Hazard Abatement	07/10/2018	296.50	150.00	16.00	240.00	702.50
312260017 FHA18-0478	TDP MOTORSPORTS	25881 VIA FARO MISSION VIEJO, CA	312260017 Hazard Abatement	07/19/2018	364.00	150.00	16.00	240.00	770.00
316030014 FHA18-0471	UNITED FAMILY LTD PARTNERSHIP	46 PENINSULA CENTER NO 366	316030014 Hazard Abatement	06/07/2018	1,231.50	150.00	16.00	240.00	1,637.50
316100021	ZECHARIA HOVAV	1633 GLENWOOD AVE	316100021 Hazard Abatement	07/06/2018	546.00	150.00	16.00	240.00	

Attachment: PAL Log_2018 (3477 : PUBLIC HEARING FOR DELINQUENT NUISANCE ABATEMENT)



**Property Abatement List (PAL)
FY 19/20 Tax Year
Between 04/01/2018 and 12/31/2018**

Parcel Record #	Owner	Address	Summary of Work	Abatement Date	Contractor Fees	Inspection Fees	Special Districts Fees	Admin Fees	Total Due
FHA18-0516		UPLAND, CA 91784							
316100022 FHA18-0517	ZECHARIA HOVAV	1633 GLENWOOD AVE UPLAND, CA 91784	316100022 Hazard Abatement	07/06/2018	546.00	150.00	16.00	240.00	952.00
316100024 FHA18-0515	ZECHARIA HOVAV	1633 GLENWOOD AVE UPLAND, CA 91784	316100024 Hazard Abatement	07/06/2018	951.00	150.00	16.00	240.00	1,357.00
316100026 FHA18-0518	ZECHARIA HOVAV	1633 GLENWOOD AVE UPLAND, CA 91784	316100026 Hazard Abatement	07/06/2018	411.00	150.00	16.00	240.00	817.00
316110030 FHA18-0544	SUDHIR PATEL	12321 MAGNOLIA AVE STE C	316110030 Hazard Abatement	07/19/2018	499.00	150.00	16.00	240.00	905.00
422070034 FHA18-0567	LOURDES ALMADA	1213 BLACKSMITH WAY NORCO, CA 92860	422070034 Hazard Abatement	07/16/2018	456.00	150.00	16.00	240.00	862.00
423250001 FHA18-0569	ALTA DENA DAIRY	4299 MACARTHUR NO 211	423250001 Hazard Abatement	07/16/2018	179.00	150.00	16.00	240.00	585.00
473150052 FHA18-0653	SHIZAO ZHENG	NINGBO ZHEJIANG CHINA 315016, 0	473150052 Hazard Abatement	07/10/2018	1,900.00	150.00	16.00	240.00	2,306.00
473210005 FHA18-0740	ALMA SANCHEZ	4504 WOODMAR DR WHITTIER, CA 90601	473210005 Hazard Abatement	07/16/2018	638.00	150.00	16.00	240.00	1,044.00

Attachment: PAL Log_2018 (3477 : PUBLIC HEARING FOR DELINQUENT NUISANCE ABATEMENT)



**Property Abatement List (PAL)
FY 19/20 Tax Year
Between 04/01/2018 and 12/31/2018**

Parcel Record #	Owner	Address	Summary of Work	Abatement Date	Contractor Fees	Inspection Fees	Special Districts Fees	Admin Fees	Total Due
474120046 FHA18-0771	GKC TRADING	537 COUNTRY HILLS CT NW	474120046 Hazard Abatement	07/16/2018	179.00	150.00	16.00	240.00	585.00
474161035 FHA18-0853	SAM OSTAYAN	15021 VENTURA BLVD NO 493	474161035 Hazard Abatement	07/16/2018	319.00	150.00	16.00	240.00	725.00
474180030 FHA18-0874	STEVEN COLEMAN	25580 OVERLOOK CIR MORENO VALLEY, CA	474180030 Hazard Abatement	07/16/2018	179.00	150.00	16.00	240.00	585.00
474180032 FHA18-0876	STEVEN COLEMAN	25580 OVERLOOK CIR MORENO VALLEY, CA	474180032 Hazard Abatement	07/17/2018	413.00	150.00	16.00	240.00	819.00
474490024 FHA18-0963	KB HOME CALIF	36310 INLAND VALLEY DR	474490024 Hazard Abatement	07/20/2018	273.50	150.00	16.00	240.00	679.50
475160056 FHA18-0909	CAMPUS REALTY	28391 AVD LA MANCHA SAN JUAN CAPO, CA	475160056 Hazard Abatement	07/16/2018	179.00	150.00	16.00	240.00	585.00
475160065 FHA18-0932	CAMPUS REALTY	28391 AVD LA MANCHA SAN JUAN CAPO, CA	475160065 Hazard Abatement	07/16/2018	364.00	150.00	16.00	240.00	770.00
478110001 FHA18-0993	SP CCI	1421 SEACREST CORONA DEL MAR, CA	478110001 Hazard Abatement	07/06/2018	681.00	150.00	16.00	240.00	1,087.00
478110004 FHA18-1129	SP CCI	1421 SEACREST CORONA DEL MAR, CA	478110004 Hazard Abatement	07/06/2018	366.00	150.00	16.00	240.00	772.00

Attachment: PAL Log_2018 (3477 : PUBLIC HEARING FOR DELINQUENT NUISANCE ABATEMENT)



**Property Abatement List (PAL)
FY 19/20 Tax Year
Between 04/01/2018 and 12/31/2018**

Parcel Record #	Owner	Address	Summary of Work	Abatement Date	Contractor Fees	Inspection Fees	Special Districts Fees	Admin Fees	Total Due
478110005 FHA18-1132	SP CCI	1421 SEACREST CORONA DEL MAR, CA	478110005 Hazard Abatement	07/06/2018	179.00	150.00	16.00	240.00	585.00
478110006 FHA18-1131	SP CCI	1421 SEACREST CORONA DEL MAR, CA	478110006 Hazard Abatement	07/06/2018	496.00	150.00	16.00	240.00	902.00
478166030 FHA18-1094	DAVID AND MARIA DEL SOCORRO MARTINEZ	16869 CALLE PINATA MORENO VALLEY, CA	478166030 Hazard Abatement	07/16/2018	181.00	150.00	16.00	240.00	587.00
478230017 FHA18-1214	W2 LAND INV	P O BOX 2015 DEL MAR, CA 92014	478230017 Hazard Abatement	07/16/2018	179.00	150.00	16.00	240.00	585.00
478240008 FHA18-1166	HL PROP PARTNERS	17780 COLLINS AVE 2ND FL	478240008 Hazard Abatement	07/19/2018	685.00	150.00	16.00	240.00	1,091.00
478240012 FHA18-1146	SANDEEP GUPTA	1331 N LINCOLN AVE FULLERTON, CA 92831	478240012 Hazard Abatement	07/06/2018	683.00	150.00	16.00	240.00	1,089.00
478240022 FHA18-1164	GRANITE CAPITAL	11370 MORENO BEACH DR	478240022 Hazard Abatement	07/06/2018	681.00	150.00	16.00	240.00	1,087.00
478280043 FHA18-1186	SOMERGATE COMMUNITY ASSN	5161 CALIF AVE NO 200 IRVINE, CA 92617	478280043 Hazard Abatement	07/20/2018	341.00	150.00	16.00	240.00	747.00
479090003 FHA18-1174	MOVAL PROP	2240 ENCINITAS STE D2032	479090003 Hazard Abatement	07/18/2018	231.00	150.00	16.00	240.00	637.00
479090019 FHA18-1176	LAVERNE PAYTON	13075 BIRCHWOOD DR MORENO VALLEY, CA	479090019 Hazard Abatement	07/18/2018	179.00	150.00	16.00	240.00	585.00
479150062	PAUL SMITH	13234 TWINFLOWER CT	479150062 Hazard Abatement	07/18/2018	231.00	150.00	16.00	240.00	

Attachment: PAL Log_2018 (3477 : PUBLIC HEARING FOR DELINQUENT NUISANCE ABATEMENT)



**Property Abatement List (PAL)
FY 19/20 Tax Year
Between 04/01/2018 and 12/31/2018**

Parcel Record #	Owner	Address	Summary of Work	Abatement Date	Contractor Fees	Inspection Fees	Special Districts Fees	Admin Fees	Total Due
FHA18-1300		MORENO VALLEY, CA							
481171046 FHA18-1369	BYLES & MAS DEV	P O BOX 77372 CORONA, CA 92877	481171046 Hazard Abatement	07/10/2018	179.00	150.00	16.00	240.00	585.00
481171047 FHA18-1366	JOSE/CARLOS GARICA	1128 RONAN AVE WILMINGTON, CA 90744	481171047 Hazard Abatement	07/10/2018	179.00	150.00	16.00	240.00	585.00
482080024 FHA18-1410	MARCELO CO	25164 ATWOOD AVE MORENO VALLEY, CA	482080024 Hazard Abatement	07/10/2018	179.00	150.00	16.00	240.00	585.00
484030013 FHA18-1426	AMERICAN CHINESE DING CHEN DEV INC	20855 GOLDEN SPRINGS 200	484030013 Hazard Abatement	07/10/2018	321.00	150.00	16.00	240.00	727.00

Attachment: PAL Log_2018 (3477 : PUBLIC HEARING FOR DELINQUENT NUISANCE ABATEMENT)



**Property Abatement List (PAL)
FY 19/20 Tax Year
Between 04/01/2018 and 12/31/2018**

Parcel Record #	Owner	Address	Summary of Work	Abatement Date	Contractor Fees	Inspection Fees	Special Districts Fees	Admin Fees	Total Due
484030026 FHA18-1450	AMERICAN CHINESE DING CHEN DEV INC	20855 GOLDEN SPRINGS 200	484030026 Hazard Abatement	07/10/2018	456.00	150.00	16.00	240.00	862.00
486091002 FHA18-1499	AMERICA QUINTANILLA	5534 AGRA ST BELL GARDENS, CA	486091002 Hazard Abatement	07/19/2018	251.00	150.00	16.00	240.00	657.00
486280013 FHA18-1526	NG THIONG	270 KNOLL RD VISTA, CA 92083	486280013 Hazard Abatement	07/10/2018	411.00	150.00	16.00	240.00	817.00
486290029 FHA18-1622	AKMAKJIAN CHRISTINA HEIDER LIVING TRUST	2225 DA VINCI DR RIVERSIDE, CA 92506	486290029 Hazard Abatement	07/10/2018	640.00	150.00	16.00	240.00	1,046.00
487260002 FHA18-1584	OLYMPIC MEDICAL SUPPLY	18653 VENTURA BL NO 227	487260002 Hazard Abatement	07/19/2018	501.00	150.00	16.00	240.00	907.00
487260004 FHA18-1573	OLYMPIC MEDICAL SUPPLY	18653 VENTURA BL NO 227	487260004 Hazard Abatement	07/19/2018	456.00	150.00	16.00	240.00	862.00
487260005 FHA18-1574	OLYMPIC MEDICAL SUPPLY	18653 VENTURA BL NO 227	487260005 Hazard Abatement	07/19/2018	370.00	150.00	16.00	240.00	776.00
488080011 FHA18-1646	LCTH INV	1000 DOVE ST NO 100 NEWPORT BEACH, CA	488080011 Hazard Abatement	07/18/2018	276.00	150.00	16.00	240.00	682.00
488200012 FHA18-1739	COBRA 28 NO 5 LTD PARTNERSHIP	4900 SANTA ANITA NO 2C	488200012 Hazard Abatement	07/10/2018	323.00	150.00	16.00	240.00	729.00
488200022 FHA18-1783	AVTAR DHANJAL	20830 MISSIONARY RIDGE ST	488200022 Hazard Abatement	07/10/2018	274.00	150.00	16.00	240.00	680.00

Attachment: PAL Log_2018 (3477 : PUBLIC HEARING FOR DELINQUENT NUISANCE ABATEMENT)



**Property Abatement List (PAL)
FY 19/20 Tax Year
Between 04/01/2018 and 12/31/2018**

Parcel Record #	Owner	Address	Summary of Work	Abatement Date	Contractor Fees	Inspection Fees	Special Districts Fees	Admin Fees	Total Due
488200023 FHA18-1731	JUAN HERNANDEZ	25575 BRODIAEA AVE MORENO VALLEY, CA	488200023 Hazard Abatement	07/10/2018	274.00	150.00	16.00	240.00	680.00
488330035 FHA18-1840	NALA PROP	710 N REXFORD DR BEVERLY HILLS, CA	488330035 Hazard Abatement	07/19/2018	206.00	150.00	16.00	240.00	612.00
488330037 FHA18-1827	NALA PROP	710 N REXFORD DR BEVERLY HILLS, CA	488330037 Hazard Abatement	07/19/2018	208.00	150.00	16.00	240.00	614.00
488330038 FHA18-1828	NALA PROP	10250 CONSTELLATION 2900	488330038 Hazard Abatement	07/19/2018	208.00	150.00	16.00	240.00	614.00
					\$ 32,191.50	\$ 11,100.00	\$ 1,184.00	\$ 17,760.00	\$ 62,235.50
					Contractual Fee TOTAL \$	32,191.50			
					Inspection Fee TOTAL \$	11,100.00			
					Administrative Fee TOTAL \$	17,760.00			
					SD Fee TOTAL \$	1,184.00			
					Grand TOTAL \$	62,235.50			

Attachment: PAL Log_2018 (3477 : PUBLIC HEARING FOR DELINQUENT NUISANCE ABATEMENT)

RESOLUTION NO. 2019 -__

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, CONFIRMING STATEMENTS OF COSTS AGAINST REAL PROPERTY LOCATED IN THE CITY OF MORENO VALLEY, FOR ABATEMENTS OF PUBLIC NUISANCES AND DIRECTION THAT SAID STATEMENTS OF COSTS CONSTITUTE A LIEN UPON SAID PROPERTIES

WHEREAS, pursuant to the provisions of the City of Moreno Valley Municipal Code Chapter 6.04, the City of Moreno Valley, State of California, in order to protect and preserve the public health, safety and general welfare, has conducted and completed the abatement of certain public nuisances on real properties located within the City of Moreno Valley, State of California, which were not abated by the property owners upon reasonable notice by the City; and

WHEREAS, all of the procedural steps have been complied with by the City in accordance with the requirements of City of Moreno Valley Municipal Code Chapter 6.04; and

WHEREAS, in compliance with the provisions of the City of Moreno Valley Municipal Code Section 6.04.120, Statements of Costs and notices of this hearing have been served on the property owners and/or other responsible parties; and

WHEREAS, having received and considered said Statements of Costs and having conducted the required hearing for protests and objections by those property owners.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

1. That the Statements of Costs, Notice of City Council Meeting, and Notices of Special Assessments, copies of which are on file with the Fire Prevention Division, and incorporated herein by this reference, are confirmed.
2. That the Property Assessment List and respective amounts of costs contained therein, attached hereto as Exhibit A and incorporated by this reference, is also confirmed.
3. That the Notices of Special Assessments shall be recorded with the Riverside County Recorder's Office and copies transmitted to the Assessor and Tax Collector of the County of Riverside and after recordation shall constitute special assessments against the property to which they relate, and shall constitute liens on the property in the amount of the assessment to be added

1

Resolution No. 2019 -__
Date Adopted: June 4, 2019

to the tax bill next levied against the property.

APPROVED AND ADOPTED this 4th day of June, 2019.

Mayor of the City of Moreno Valley

ATTEST:

City Clerk

APPROVED AS TO FORM:

City Attorney

Attachment: Resolution - Nuisance Abatement (3477 : PUBLIC HEARING FOR DELINQUENT NUISANCE ABATEMENT)

Resolution No. 2019 - 2
Date Adopted: June 4, 2019

RESOLUTION JURAT

STATE OF CALIFORNIA)
COUNTY OF RIVERSIDE) ss.
CITY OF MORENO VALLEY)

I, _____, City Clerk of the City of Moreno Valley, California, do hereby certify that Resolution No. 2019-__ was duly and regularly adopted by the City Council of the City of Moreno Valley at a regular meeting thereof held on the 4th day of June, 2019 by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Council Members, Mayor Pro Tem and Mayor)

CITY CLERK

(SEAL)

Attachment: Resolution - Nuisance Abatement (3477 : PUBLIC HEARING FOR DELINQUENT NUISANCE ABATEMENT)

Resolution No. 2019 - ³__
Date Adopted: June 4, 2019



Report to City Council

TO: Mayor and City Council Acting in its Capacity as President and Members of the Board of Directors of the Moreno Valley Community Services District (CSD)

FROM: Michael L. Wolfe, P.E., Public Works Director/City Engineer

AGENDA DATE: June 4, 2019

TITLE: PUBLIC HEARING TO CONFIRM DIAGRAMMS AND ASSESSMENTS FOR LANDSCAPE MAINTENANCE DISTRICT NO. 2014-02 FOR FISCAL YEAR 2019/20 (RESO NO. CSD 2019-__)

RECOMMENDED ACTION

Recommendations: That the CSD:

1. Conduct the Public Hearing on the proposed levy of real property assessments for Moreno Valley Community Services District Landscape Maintenance District No. 2014-02.
2. Adopt Resolution No. CSD 2019-___, a Resolution of the Board for the Moreno Valley Community Services District of the City of Moreno Valley, California, Ordering that Costs for Certain Improvements Shall Be Raised Through Installments Over a Period of Years and Confirming Diagramms and Assessments for Fiscal Year 2019/20 in Connection with Moreno Valley Community Services District Landscape Maintenance District No. 2014-02.
3. Authorize the Chief Financial Officer to adjust the proposed assessments in the event there are any parcel changes, clerical errors, or other adjustments as may be necessary between the date the assessments were calculated and the date the fixed charges are submitted to the County of Riverside, provided the applied assessments do not exceed the maximum assessments and are in compliance with the formation documents for the district.

SUMMARY

This report recommends the Board for the Moreno Valley Community Services District (“CSD Board”) conduct a Public Hearing and consider adoption of the proposed resolution, which orders the collection of revenue for future capital improvement projects, confirms the diagrams (i.e. maps), and authorizes the levy of assessments on the fiscal year (FY) 2019/20 property tax roll for Moreno Valley Community Services District Landscape Maintenance District No. 2014-02 (“LMD No. 2014-02” or “District”).

The proposed FY 2019/20 assessments are a continuation of the real property assessments currently levied on the property tax bills. There are no increases proposed to the assessments other than an annual inflationary adjustment, provided the property owners previously approved such adjustment. Revenue received from the assessment partially funds the ongoing maintenance of the public landscaping within the District and in some cases is collected for future capital improvements. The Finance Subcommittee was scheduled to review the proposed FY 2019/20 maximum and applied assessments at its March 26, 2019 meeting.

DISCUSSION

On May 27, 2014, the CSD Board adopted its Resolution No. CSD 2014-09, establishing LMD No. 2014-02 (certain former CSD landscape zones). On May 12, 2015, Zone 09 annexed into the District. There are eleven benefit zones included in LMD No. 2014-02. Each zone provides a specific set of public landscape maintenance services within a defined geographical area of the City.

Property owners of parcels within the District pay a special assessment as part of their annual property tax bill to fund the cost of maintaining the public landscaping within the District. Revenue from the assessments funds the cost to provide the Special Benefit, as defined in the Assessment Engineer’s Report (“Report”), for the public landscaping located within the District. Funds collected for each zone are restricted and can only be used within the zone and for the purposes for which they were collected.

The level of landscape maintenance provided is based on each zone’s financial resources. At the time the City accepts an area’s public landscaping for maintenance, the assessment is set at a rate sufficient to fund the City’s standard frequency of service, Level 1 (4-week rotation). For those zones where costs to maintain the landscaping have increased and the property owners have not approved a mail ballot proceeding to increase the assessment to fund those increases, the services provided have been reduced to a level consistent with available funding. A brief summary of each zone and its current service level is in the table below. Maps of each zone are included in the Report.

Zones	Name	Service Level ¹	Sq. Ft. of Landscaping
Zone 01	TownGate	Level 2 ²	323,609 sq. ft.
Zone 01A	Renaissance Park	Level 3	72,335 sq. ft.
Zone 02	Hidden Springs	Level 1	193,743 sq. ft. 3,674,297 sq. ft. (open space)
Zone 03	Moreno Valley Ranch West	Level 1	866,943 sq. ft.
Zone 03A	Lasselle Powerline Parkway	Level 1	53,774 sq. ft.
Zone 04	Moreno Valley Ranch East	Level 5	980,404 sq. ft.
Zone 05	Stoneridge Ranch	Level 1	98,392 sq. ft.
Zone 06	Mahogany Fields	Level 1	178,564 sq. ft.
Zone 07 ³	Celebration	Level 1	44,591 sq. ft. 180,563 sq. ft. (buffer)
Zone 08	Shadow Mountain	Level 1	76,771 sq. ft.
Zone 09	Savannah	Level 1	64,456 sq. ft.
¹ Service rotations: Level 1=4-week; Level 2=8-week; Level 3=12-week; Level 4=16-week; Level 5=20-week. ² Proposed to increase from Level 2 to Level 1 during FY 2019/20 provided the assessment can supported contract costs. ³ Some areas are under construction or in the warranty period and have not yet been assumed for maintenance.			

The Landscaping and Lighting Act of 1972 (“1972 Act”) requires the CSD Board conduct proceedings each year prior to levying assessments on the property tax roll, which includes conducting a Public Hearing and adopting the proposed resolution (Attachment 1). On April 16, 2019, the CSD Board adopted resolutions, which initiated the annual proceeding for the FY 2019/20 levy and approved the Report (Attachment 2).

The Report includes a description of the improvements within the District, the estimated annual expenses for each zone, funding to be collected for future capital improvement projects within a zone, the method of assessment apportionment for each lot or parcel within the District boundaries, and diagrams showing the parcels within the zones that make up the District.

The Report also provides an analysis of the District’s annual financial status. It separates and apportions the cost of General Benefit, other costs funded by the General Fund, and the cost of Special Benefit of the landscape maintenance services to the benefitting properties.

General Fund Costs

The Report identifies a \$196,326.20 total contribution from the General Fund, which is included in the City’s FY 2019/20 adopted Operating Budget.

- General Benefit Cost (\$154,052.00) – as defined in the Report, represents costs which are not allowed to be assessed to properties and therefore, are apportioned to the General Fund. The General Benefit is the benefit the general public receives from the public landscape improvements in the

District and is the minimum amount the community would fund (e.g. costs for weed abatement and erosion control) had the improvements not been installed by the development.

- General Fund Maintained Area Costs (\$14,652.20) - funds the ongoing maintenance of improvements that provide no Special Benefit to the parcels in the zone and therefore, cannot be funded by the assessments; these improvements were included within a zone at the time of development (e.g. drainage area in Zone 04).
- Contribution for Non-Assessed Parcels (\$27,622.00) - funds the annual contribution for parcels that benefit from the improvements but have not been assessed because the property owner has not approved the rate through a mail ballot proceeding; these are, or were, typically government owned properties (e.g. Fire Station).

Special Benefit Costs

A parcel's Special Benefit cost is calculated by determining the assessment rate per equivalent benefit unit (EBU). Generally speaking, the EBU is the equivalent to one single-family residential parcel. In some zones, the EBU is further defined by densities greater or less than a single-family residential parcel (e.g. acre, condo). The Special Benefit a parcel receives from the improvements is apportioned based on its assigned EBU.

If the property owners previously approved an annual inflationary adjustment, the Report recommends increasing the FY 2018/19 maximum rates by an annual inflationary adjustment (Consumer Price Index or other factor approved by the property owners). Zone 04 is the only zone where the property owners have not approved an annual inflationary adjustment.

The applied rate is the amount needed to fund the services of each zone, up to the maximum rate. An individual analysis of each zone's current level of service, anticipated expenditures, fund balance, assigned reserve levels, and proposed capital improvement projects was completed. For certain zones with available capacity, installment funding for future capital improvement projects has been included. The installment funding does not result in an increase to the applied rates beyond the maximum rates authorized by the property owners. The Report recommends setting the applied rates as those set forth in the Fiscal Impact section of this report.

This action meets the Strategic Plan Priorities by managing and maximizing Moreno Valley's public infrastructure to ensure an excellent quality of life, develop and implement innovative, cost effective infrastructure maintenance programs, public facilities management strategies, and capital improvement programming and project delivery.

ALTERNATIVES

1. Conduct the Public Hearing and approve the recommended actions as presented. *Staff recommends this alternative, as it will allow for collection of revenue necessary to support the services the District was created to provide.*
2. Conduct the Public Hearing and do not approve the recommended actions. *Staff does not recommend this alternative as it may prevent the City from levying the FY 2019/20 assessments and collecting the funding to support the services of the District.*
3. Open the Public Hearing but continue consideration of the remaining recommendations to a future City Council meeting. *Staff does not recommend this alternative as it may prevent the City from meeting the County's deadline to include the assessment on the FY 2019/20 property tax roll.*

FISCAL IMPACT

For FY 2019/20, the total projected expenditures for the District is \$2,698,879.83. The property assessments are projected to generate \$2,026,205.94 in revenue. Other revenue sources to the District (e.g. interest income), the use of available unassigned reserves for applicable zones, and the General Fund are programmed to fund the difference. The City's FY 2019/20 adopted Operating Budget includes a General Fund contribution of \$196,326.20. This includes the required General Benefit Cost (\$154,052.00), General Fund Maintained Area Cost (\$14,652.20), and the General Fund Contribution for Non-Assessed Parcels (\$27,622.00).

Third party costs associated with the annual levy approval process and preparation of the Report for LMD No. 2014-02 are projected not to exceed \$5,500. Third party services include a consultant assessment engineer, special legal counsel, and publication of a legal notice. These costs are included in the City's FY 2018/19 Adopted Budget for LMD No. 2014-02 (fund 5014).

Property owners pay the LMD No. 2014-02 assessment as a part of their annual property tax bill. The assessment, including inflationary adjustments where applicable and as defined in the Report, has been approved by the affected property owners through prior proceedings. Funds received for the benefit of each zone are restricted and can only be used to fund the services of that zone. The Report's recommended rates for FY 2019/20 are listed in the table below.

Zone	Charge Category	FY 2018/19		Proposed FY 2019/20				Total Assessment Revenue
		Max Rate	Applied Rate	Max Rate ¹	Applied Rate ²	Annual Adjustment to Max Rate ¹	Change in Applied Rate	
Zone 01	per EBU per condo Tract 34299	\$ 146.39 66.06	\$ 134.20 60.54	\$ 151.13 68.20	\$ 151.12 68.18	3.24%	\$ 16.92 7.64	\$ 329,398.54
Zone 01A	per EBU	89.64	89.64	92.54	92.54	3.24%	2.90	51,544.78
Zone 02	per EBU	461.77	431.34	476.73	476.72	3.24%	45.38	561,576.16
Zone 03	per EBU	146.39	133.06	151.13	151.12		18.06	
	per condo Tr 32142	64.85	58.96	66.95	66.94		7.98	
	per condo Tr 32143/4	62.49	56.81	64.51	64.50	3.24%	7.69	
	per condo Tr 32145	36.55	33.23	37.73	37.72		4.49	
	per condo Tr 32146	35.36	32.16	36.50	36.50		4.34	662,755.24
Zone 03A	per EBU	77.85	74.08	80.37	80.36	3.24%	6.28	37,528.12
Zone 04 ³	per EBU	110.00	110.00	110.00	110.00	0.00%	-	244,266.00
Zone 05 ⁴	per EBU	460.06	150.00	474.96	25.00	3.24%	(125.00)	8,350.00
Zone 06 ⁴	per EBU	322.14	306.50	332.57	139.14	3.24%	(167.36)	58,995.36
Zone 07 ⁴	per EBU	385.91	170.10	398.41	38.16	3.24%	(131.94)	9,997.92
Zone 08 ⁴	per EBU	339.83	314.32	350.84	79.02	3.24%	(235.30)	22,994.82
Zone 09 ^{4,5}	per EBU	696.96	374.48	719.54	258.66	3.24%	(115.82)	38,799.00
Total Projected Assessment Revenue								\$ 2,026,205.94
¹ Maximum Rate increased by property owner authorized annual inflationary adjustment (0% for Zone 04; the greater of 3.24% CPI or 3% for Zone 09; 3.24% CPI for all other zones). Based on percentage change calculated for the prior year in the Los Angeles-Long Beach-Anaheim Regional Consumer Price Index (index approved by the property owners)(CPI), as published by the Department of Labor's Bureau of Labor Statistics. ² Riverside County requires fixed charges (i.e. assessments) to be even numbers. ³ Does not have a property owner approved annual adjustment. ⁴ Applied rate less than maximum rate based on projected expenses and/or available funding which offsets the required assessment. ⁵ Property owners authorized an annual inflationary adjustment of the greater of CPI or 3%. EBU = Equivalent Benefit Unit								

NOTIFICATION

The Public Hearing notice was published in The Press-Enterprise on Thursday, May 23, 2019 in compliance with Streets & Highways Code Section 22626.

PREPARATION OF STAFF REPORT

Prepared By:
Candace E. Cassel
Special Districts Division Manager

Department Head Approval:
Michael L. Wolfe, P.E.
Public Works Director/City Engineer

CITY COUNCIL GOALS

Public Facilities and Capital Projects. Ensure that needed public facilities, roadway improvements, and other infrastructure improvements are constructed and maintained.

Positive Environment. Create a positive environment for the development of Moreno Valley's future.

Community Image, Neighborhood Pride and Cleanliness. Promote a sense of community pride and foster an excellent image about our City by developing and executing programs which will result in quality development, enhanced neighborhood preservation efforts, including home rehabilitation and neighborhood restoration.

CITY COUNCIL STRATEGIC PRIORITIES

- 1. Economic Development
- 2. Public Safety
- 3. Library
- 4. Infrastructure
- 5. Beautification, Community Engagement, and Quality of Life
- 6. Youth Programs

See the Discussion section above for details of how this action supports the City Council's Strategic Priorities.

ATTACHMENTS

- 1. Resolution Confirming Assessments
- 2. LMD 2014-02 Assessment Engineer's Report

APPROVALS

Budget Officer Approval	<u>✓ Approved</u>	5/21/19 1:07 PM
City Attorney Approval	<u>✓ Approved</u>	5/21/19 4:50 PM
City Manager Approval	<u>✓ Approved</u>	5/30/19 12:00 PM

RESOLUTION NO. CSD 2019-__

A RESOLUTION OF THE BOARD FOR THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, ORDERING THAT COSTS FOR CERTAIN IMPROVEMENTS SHALL BE RAISED THROUGH INSTALLMENTS OVER A PERIOD OF YEARS AND CONFIRMING DIAGRAMS AND ASSESSMENTS FOR FISCAL YEAR 2019/20 IN CONNECTION WITH MORENO VALLEY COMMUNITY SERVICES DISTRICT LANDSCAPE MAINTENANCE DISTRICT NO. 2014-02

WHEREAS, pursuant to Government Code Section 61122(e), the Moreno Valley Community Services District (the "CSD") is authorized to levy benefit assessments for operations and maintenance pursuant to the Landscaping and Lighting Assessment Act of 1972 (Streets & Highways Code Section 22500 et seq.) (the "Act"); and

WHEREAS, by its Resolution No. CSD 2014-09, adopted on May 27, 2014, the CSD Board of Directors, pursuant to the Act, established the Moreno Valley Community Services District Landscape Maintenance District No. 2014-02 (the "Assessment District") to fund landscape maintenance services through the levy of an annual assessment against real property; and

WHEREAS, by its Resolution No. CSD 2019-06, adopted on April 16, 2019, the CSD Board of Directors initiated proceedings to levy the fiscal year (FY) 2019/20 assessment against real property in the Assessment District and directed the City Engineer to prepare and file, or cause to be prepared and filed, a report pursuant to Section 22565 et seq. of the Act with respect to said levy; and

WHEREAS, the City Engineer has designated Webb Municipal Finance, LLC as assessment engineer (the "Assessment Engineer"); and

WHEREAS, the Assessment Engineer has prepared and filed a report entitled "Annual Engineer's Report Fiscal Year 2019/20, Moreno Valley Community Services District Landscape Maintenance District No. 2014-02" (the "Report"), which is on file in the Office of the Secretary of the CSD (the Office of the City Clerk of the City of Moreno Valley), is available for public inspection, and is incorporated herein by reference; and

WHEREAS, by its Resolution No. CSD 2019-07, adopted on April 16, 2019, the Board of Directors approved the Report as filed; and

WHEREAS, by its Resolution No. CSD 2019-08, adopted on April 16, 2019, the Board of Directors declared its intention to levy an assessment against real property in the Assessment District for FY 2019/20 and scheduled a public hearing (the "Public Hearing") regarding that levy for June 4, 2019 at 6:00 p.m. or as soon thereafter as

1
Resolution No. CSD 2019-__
Date Adopted: June 4, 2019

practical, in the City Council Chamber located at 14177 Frederick Street, Moreno Valley, California 92553; and

WHEREAS, notice of the Public Hearing was published in the manner set forth in Section 22626(a) of the Act; and

WHEREAS, at the appointed time and place, the Board of Directors held the Public Hearing; and

WHEREAS, at the Public Hearing, all interested persons were afforded the opportunity to hear and be heard and there was no majority protest; and

WHEREAS, having considered all oral statements and all written protests made or filed at the Public Hearing, the Board of Directors desires to levy the proposed assessment for FY 2019/20.

NOW, THEREFORE, THE BOARD FOR THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

1. Recitals. The foregoing recitals are true and correct and incorporated herein by this reference.
2. Assessment. The diagrams and assessments incorporated into the Report are hereby confirmed. This action constitutes the levy of the assessments for FY 2019/20. Staff is directed to transmit the assessments to the Riverside County Auditor and to cause the assessments to be collected at the same time and in the same manner as county taxes are collected.
3. Capital Improvement Project. In accordance with Streets and Highways Code Section 22660(a), the City Council has determined that the estimated cost of certain proposed improvements, described in Section 22525, subdivisions (a) through (d), are greater than can conveniently be raised from a single assessment and, as a result, shall be collected in installments over a period not to exceed five fiscal years and held in a reserve account, as noted in the Engineer's Report. General descriptions of these improvements, as well as the estimated costs thereof, the number of annual installments and years during which they are to be collected, and the maximum amount of each annual installment, are included in the FY 2019/20 & 2020/21 Capital Improvement Plan and described in the attached Capital Improvement Projects, included herein as Exhibit A and incorporated into this Resolution by this reference.
4. Modifications. The Chief Financial Officer is authorized to adjust the assessments levied on the property tax roll in the event there are any parcel changes, clerical errors, or other adjustments as may be necessary between the

date the assessments were calculated and the date the fixed charges are submitted to the County of Riverside, provided the applied assessments do not exceed the maximum assessments, and are in compliance with the formation documents for each zone within the Assessment District.

5. Provision of Services. Nothing in the description of services or any Resolution of the Board of Directors shall be construed as committing the CSD to provide all of the proposed services. The provision of services shall be subject to the availability of sufficient funding from revenue within each zone of the Assessment District.
6. Severability. If any provision of this Resolution or the application of any such provision is held invalid, such invalidity shall not affect other provisions or applications of this Resolution that can be given effect without the invalid provision or application, and to this end the provisions of this Resolution are severable and that the Board of Directors declares that it would have adopted this Resolution irrespective of the invalidity of any particular portion of this Resolution.
7. Effective Date. This Resolution shall be effective immediately upon adoption.
8. Certification. The Secretary of the Board/City Clerk shall certify to the adoption of this Resolution, and shall maintain on file as a public record this Resolution.

APPROVED AND ADOPTED this 4th day of June, 2019.

By:

Moreno Valley Community Services District

ATTEST:

City Clerk, acting in the capacity of
Secretary of the Moreno Valley
Community Services District

3
Resolution No. CSD 2019-____
Date Adopted: June 4, 2019

APPROVED AS TO FORM:

City Attorney, acting in the capacity
of General Counsel of the Moreno
Valley Community Services District

Resolution No. CSD 2019-4
Date Adopted: June 4, 2019

Exhibit A

Long-Term Capital Improvement Projects & Rehabilitations Included in the FY 2019/20 Budget

Projects	Zone 01				Zone 02				Zone 03				Zone 03A				Zone 05				Zone 06				Zone 07				Zone 08			
	FY 19/20	FY 20/21	FY 21/22	FY 22/23	FY 23/24	FY 19/20	FY 20/21	FY 21/22	FY 22/23	FY 23/24	FY 19/20	FY 20/21	FY 21/22	FY 22/23	FY 23/24	FY 19/20	FY 20/21	FY 21/22	FY 22/23	FY 23/24	FY 19/20	FY 20/21	FY 21/22	FY 22/23	FY 23/24	FY 19/20	FY 20/21	FY 21/22	FY 22/23	FY 23/24		
Backflow Cage Upgrades	X	X																														
Irrigation/Smart Controller Installations						X	X														X	X										
Lighting Upgrades						X	X																									
Day St/Centerpointe																																
Median Renovations	X	X																														
Median Renovations																																
Parkway Renovations																																
Stamped concrete on Nason (southern most median)																																

Resolution No. CSD 2019-5
 Date Adopted: June 4, 2019

RESOLUTION JURAT

STATE OF CALIFORNIA)
COUNTY OF RIVERSIDE) ss.
CITY OF MORENO VALLEY)

I, Pat Jacquez-Nares, Secretary of the Moreno Valley Community Services District, Moreno Valley, California do hereby certify that Resolution No. CSD 2019-___ was duly and regularly adopted by the Board of Directors of the Moreno Valley Community Services District at a regular meeting held on the 4th day of June, 2019, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Boardmembers, Vice-President and President)

SECRETARY

(SEAL)

Resolution No. CSD 2019-___⁶
Date Adopted: June 4, 2019

Attachment: Resolution Confirming Assessments (3421 : PUBLIC HEARING TO CONFIRM DIAGRAMS AND ASSESSMENTS FOR LANDSCAPE

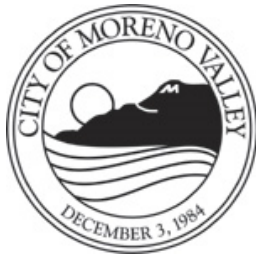


Annual Engineer's Report

Fiscal Year 2019/20

Moreno Valley Community Services District Landscape Maintenance District No. 2014-02

Prepared For



May 2019



Attachment: LMD 2014-02 Assessment Engineer's Report (3421 : PUBLIC HEARING TO CONFIRM DIAGRAM AND ASSESSMENTS FOR

ENGINEER’S REPORT
FOR THE ANNUAL LEVY
FOR FY 2019/20

MORENO VALLEY COMMUNITY SERVICES DISTRICT

COUNTY OF RIVERSIDE

STATE OF CALIFORNIA

LANDSCAPE MAINTENANCE DISTRICT NO. 2014-02

Approved by the Board of Directors of the Moreno Valley Community Services District
on the _____ day of _____, 2019.

Secretary of the Board of Directors

Attachment: LMD 2014-02 Assessment Engineer's Report (3421 : PUBLIC HEARING TO CONFIRM DIAGRAM AND ASSESSMENTS FOR

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Appendix

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AGENCY: MORENO VALLEY COMMUNITY SERVICES DISTRICT,
RIVERSIDE COUNTY, CALIFORNIA

PROJECT: ANNUAL ENGINEER'S REPORT

DISTRICT: LANDSCAPE MAINTENANCE DISTRICT NO. 2014-02

TO: THE MORENO VALLEY COMMUNITY SERVICES DISTRICT BOARD OF DIRECTORS

I, Matthew E. Webb, a Professional Civil Engineer (employed by Albert A. Webb Associates and retained through an agreement between Webb Municipal Finance, LLC and my employer), acting on behalf of the Moreno Valley Community Services District (CSD), pursuant to the Landscaping and Lighting Act of 1972 (California Streets and Highways Code Section 22500 et seq.) (the "1972 Act"), do hereby submit the following:

Each fiscal year, an Engineer's Report ("Report") is prepared and presented to the CSD Board of Directors (the "Board") describing the CSD Landscape Maintenance District No. 2014-02 (the "District"), any changes to the District or improvements, an estimate of the costs of the maintenance, operations, and servicing of the improvements, and the proposed budget and assessments for that fiscal year.

This is the detailed Report for Fiscal Year (FY) 2019/20 regarding the District and the proposed assessments to be levied on the properties therein to provide ongoing funding for the costs and expenses required to service and maintain landscaping improvements associated with and resulting from development of properties within the District, in accordance with the proportional special benefits the properties receive from the improvements. The CSD requested Webb Municipal Finance, LLC to prepare and file the Report for the referenced fiscal year.

A public hearing is held each year before the Board to allow the public an opportunity to hear and be heard regarding the District. Following consideration of all public comments and written protests at the noticed public hearing, and review of the Report, the Board may order amendments to the Report or confirm the Report as submitted. Following final approval of the Report, and confirmation of the assessments, the Board shall order the levy and collection of assessments for FY 2019/20. In such case, the levy information will be submitted to the Riverside County Auditor/Controller and included as assessments on the property tax roll for the various services provided in FY 2019/20.

In November 1996, the voters of California adopted Proposition 218 (the "Right to Vote on Taxes Act"), which has been codified as Articles XIII C and XIII D of the California Constitution. If, in any year, the proposed annual assessments for the District exceed the maximum assessments previously approved in a Proposition 218 proceeding (or grandfathered under Proposition 218), such an assessment would be considered a new or increased assessment and be confirmed through a mailed property owner protest ballot proceeding before that new or increased assessment could be imposed.

This Report and the information contained herein reflect the proposed budget for each of the various services provided by the District and the rates and assessments applicable to those services as they existed at the time of the passage of the Resolution of Intention. Reference is hereby made to the Riverside County Assessor's maps for a detailed description of the lines and dimensions of APNs within the District. The undersigned respectfully submits the enclosed Report as directed by the Board of Directors of the Moreno Valley Community Services District. Please note that Albert A. Webb Associates provides engineering advice and related consulting services. Albert A. Webb Associates is not a registered municipal advisor and does not participate in municipal advisory activities, and nothing in this Engineer's Report is, or should be interpreted to be, municipal advisory services or advice.

Executed this 19th day of April 2019.

ALBERT A. WEBB ASSOCIATES



Matthew E. Webb

MATTHEW E. WEBB
PROFESSIONAL CIVIL ENGINEER NO. 37385
ENGINEER OF WORK
ON BEHALF OF THE CITY OF MORENO VALLEY AND
THE MORENO VALLEY COMMUNITY SERVICES DISTRICT
STATE OF CALIFORNIA

Final approval, confirmation and levy of the annual assessments and all matters in the Engineer's Report were made on the _____ day of _____ 2019, by adoption of Resolution No. _____ by the Board of Directors.

CITY CLERK
CITY OF MORENO VALLEY
STATE OF CALIFORNIA

A copy of the Preliminary Assessment Roll and Engineer's Annual Levy Report were filed in the office of the City Clerk on the _____ day of _____ 2019.

CITY CLERK
CITY OF MORENO VALLEY
STATE OF CALIFORNIA

Attachment: LMD 2014-02 Assessment Engineer's Report (3421 : PUBLIC HEARING TO CONFIRM DIAGRAMS AND ASSESSMENTS FOR

INTRODUCTION

The CSD was established pursuant to the Community Services District Law (California Government Code Section 61000 et seq.) ("CSD Law") in 1984 at the time of the incorporation of the City of Moreno Valley (the "City"). The CSD is a dependent special district of the City, and the Moreno Valley City Council serves as the Board of Directors of the CSD. The boundaries of the CSD are the same as those of the City.

Prior to the City's incorporation, the territory that would become the City of Moreno Valley was an unincorporated territory of Riverside County. The County had created County Service Areas (CSAs) to fund and provide certain enhanced services in this territory. The CSD was created so that responsibility for these funding mechanisms (and services) within the territory of the City could be transitioned from CSAs governed by the Riverside County Board of Supervisors to a CSD governed by the Moreno Valley City Council.

The CSD is comprised of a number of Zones, each of which provides a specific set of services within a defined portion of the City. Zone E of the CSD was established in 1987 to fund landscape maintenance services in certain geographical and development areas of the City. Zone E was comprised of a number of subzones (i.e. Zone E-1, Zone E-3A, etc.), each of which funded specific landscape improvements associated with the subdivision (or parts of subdivisions) that comprised the zones.

With the passage of Proposition 218, a number of substantive and procedural requirements were placed on taxes, assessments, and property-related fees imposed by local governments in California. Although referred by the CSD as "charges", the charges imposed by Zone E of the CSD were categorized under Proposition 218 as real-property assessments.

Subsequent to the adoption of Proposition 218, the CSD conducted mail ballot protest proceedings pursuant to Article XIII D, Section 4(e) of the Constitution with respect to the CSD charges. These proceedings included base rates and an automatic annual inflation adjustment. Proceedings were successfully completed, without majority protest, for each of the Zones with the exception of former CSD Zone E-4 (now designated as Benefit Zone 04). The assessments identified in this Report reflect the charges and the automatic annual inflation adjustments approved in connection with those mail ballot protest proceedings.

The assessment established for Zone 04 exclusively funds street landscaping and predates Proposition 218. Therefore, pursuant to Article XIII D, Section 5 of the Constitution the existing Zone 04 assessment is not required to be approved at a mail ballot proceeding so long as the rate of the assessment/charge is not increased.¹

In May 2014, the Moreno Valley Community Services District, formed Landscape Maintenance District No. 2014-02 ("District"), pursuant to the Landscaping and Lighting Act of 1972 (California Streets and Highways Code Section 22500 et seq.) (the "1972 Act"), replacing the previous CSD Zones E-1, E-1A, E-2, E-3, E-3A, E-4, E-4A, E-12, E-14, E-15, and E-16. Parcels that had been charged an annual CSD Zone E charge for landscape maintenance services are now instead assessed an annual real property assessment for those services as part of Landscape Maintenance District No. 2014-02. This transition did not increase the amount paid annually by any property owner and did not change the nature or extent of the landscape maintenance services provided. The assessments levied in connection with this assessment district in every way serve as a continuation of the charges levied in connection with CSD Zone E for the ongoing maintenance, servicing, and operation of local landscaping improvements previously established and maintained in CSD Zones E-1, E-1A, E-2, E-3, E-3A, E-4, E-4A, E-12, E-14, E-15, and E-16.

¹ CSD Zone E-4 was annexed to the CSD in FY 1988/89 prior to Proposition 218 and the charge per single family residential property was originally established at \$182.00, with non-residential properties being charged four times that amount per acre. Subsequently, that \$182.00 rate was reduced over the next several years to \$110.00. The \$110.00 rate was in effect at the time Proposition 218 was enacted. Pursuant to the exemption provisions of Proposition 218, the \$110.00 rate was grandfathered as the Zone charge in FY 1997/98. In June 2016, the CSD proposed a rate increase for the Zone. The increase was protested by property owners and did not become effective.

Landscape Maintenance District No. 2014-02 was initially comprised of ten (10) benefit zones, corresponding to eleven subzones of Zone E of the CSD, but with CSD Zones E-4 and E-4A merged into a single benefit Zone 04.

On May 12, 2015 a new benefit Zone 09 was annexed to Landscape Maintenance District No. 2014-02, bringing the total number of benefit zones to eleven (11).

The improvements, the method of apportionment, and special benefit assessments described in this Report are based on the improvements and development of properties within the District and represent an estimate of the direct expenditures and incidental expenses that will be necessary to maintain, service, and operate such improvements for FY 2019/20. The improvements installed in connection with the development of properties within the District and to be maintained as described herein, are based on the development plans and specifications for the properties and developments within the District and by reference these plans and specifications are made part of this Report.

The word “parcel,” for the purposes of this Report, refers to an individual property assigned its own Assessor’s Parcel Number (APN) by the Riverside County Assessor’s Office. The Riverside County Auditor/Controller uses APNs and a dedicated fund number established for the District to identify properties to be assessed on the tax roll and the allocation of the funds collected.

This Report consists of five (5) Sections:

- SECTION 1 PLANS AND SPECIFICATIONS:** Provides a description of the District boundaries and the improvements associated with the District. The District has eleven zones of benefit (“Zones”), which are described in more detail in this Section as well as in Section II (Method of Apportionment). A diagram showing the exterior boundaries of the CSD, of the District, and the Zones established within the District, is attached and incorporated herein in Section IV (District Diagrams). The plans for the landscape improvements (if available), including the City’s standard specifications are on file with the Public Works Department. The location of the improvements for each zone can be found by using the Moreno Valley Map Viewer located on the City’s website.
- SECTION 2 METHOD OF APPORTIONMENT:** Provides a discussion of the general and special benefits associated with the overall local landscaping improvements provided within the District (Proposition 218 Benefit Analysis). This Section also includes a determination of the proportional costs of the special benefits and a separation of costs considered to be of general benefit (and therefore not assessed). This Section also outlines the method of calculating each property’s proportional special benefit and annual assessment utilizing a weighted benefit apportionment.
- SECTION 3 ESTIMATE OF IMPROVEMENT COSTS:** Provides an estimate of the annual funding required for the maintenance, servicing, and operation of landscape improvements within the District and specifically the costs associated with the improvements determined to be of special benefit to parcels within the District. The budget identifies an estimate of anticipated annual expenses to service, maintain, and operate existing landscape improvements within the District for FY 2019/20 including, but not limited to, servicing of those improvements and related facilities, utility costs, and related incidental expenses authorized by the 1972 Act. The budget also identifies the maximum and proposed assessment rates for each Zone of the District and the associated assessment range formula (inflationary adjust) as applicable.
- SECTION 4 DISTRICT DIAGRAMS:** Diagrams showing the boundaries of the Zones, which collectively represent the boundaries of the District, are provided in this Report and these diagrams identify all parcels that receive special benefits from the improvements. Reference is hereby made to the Riverside County Assessor’s maps for a detailed description of the lines and dimensions of each lot and parcel of land within the District.
- SECTION 5 ASSESSMENT ROLL:** A listing of the proposed assessment amount for each parcel within the District. The proposed assessment amount for each parcel is based on the parcel’s calculated proportional special benefit as outlined in the method of apportionment and proposed assessment rates established in the District Budget. These assessment amounts represent the assessments proposed to be levied and collected on the County Tax Rolls for FY 2019/20.

1. Plans and Specifications

DESCRIPTION OF THE DISTRICT

The territory within this District consists of all lots and APNs of land that receive special benefits from the landscape improvements maintained and funded by the District assessments. The boundaries of the District consist of Benefit Zones, each of which is associated with a set of landscape improvements. Each APN within the District is assigned to each Zone that funds landscape maintenance services that specially benefit the APN. Two Zones (Zone 01A and 03A) are comprised solely of a subset of the APNs in a larger Zone (Zones 01 and 03, respectively). Thus, all APNs in Zone 01A are also a part of Zone 01 and all APNs in Zone 03A are also a part of Zone 03. These overlapping zones exist because, for example, the landscaping improvements associated with Zone 01 provides special benefit to each APN in Zone 01 (including Zone 01A APNs) but the landscaping improvements associated with Zone 01A provides special benefit to only the Zone 01A APNs.

These eleven (11) Zones within the District and the benefits associated with the properties therein are described in more detail in Section 2 (Method of Apportionment) of this Report. In addition, the District Diagrams found in Section 4 of this Report provide visual representations of the District showing the boundaries of the Zones and the improvement areas being maintained.

DISTRICT FACILITIES AND IMPROVEMENTS

The landscape improvements maintained for each Zone are local landscaping improvements that were installed in connection with the development of the APNs comprising each respective Zone. These landscape improvements are an integral part of the subdivisions and development for which they were installed, creating a green amenity and aesthetically pleasing enhancement to the APNs served by the landscaping. In most cases, the landscaping improvements were a condition of development of the APNs in the Zone, and the properties within the Zone could not have been developed if the landscaping were not included. Improvements for each Zone are either located within the subdivision or along the entry path to the residential subdivisions or non-residential developments.

Collectively within the eleven (11) Zones, there is approximately 2,953,582 square feet of parkway and median landscaped area, 3,854,860 square feet of open space, and 9,582 trees to be maintained and funded in part by the District assessments. The District Diagrams found in Section 4 of this Report provide visual representations of the District, showing the boundaries of the Zones and the general location of the improvement areas being maintained. Detailed plans identifying the location and extent of the District's landscape improvements and maps of those Zones and improvement areas are on file in the Public Works Department, Special Districts Division, and by reference these plans and maps are made part of this Report.

The maintenance, operation, and servicing of the District's landscape improvements include the furnishing of labor, materials, equipment, and utilities for the ordinary and usual maintenance, operation, and servicing of the landscape areas within the public right-of-ways, easements dedicated to the City, or on city-owned property.

The various landscape improvements associated with each Zone include combinations of landscape amenities such as turf ground cover, plants, shrubs, trees, and associated appurtenant facilities including, but not limited to, irrigation and drainage systems, various types of groundcover, stamped concrete, electrical and lighting, and entry monuments that may be maintained in whole or in part as part of the landscape improvements depending on available funding.

The following is a brief description and summary of the landscaped areas associated with each Zone included in the District. A visual depiction of the location and extent of the landscape improvement areas and Zone boundaries are provided on the District Diagrams provided in Section 4 of this Report.

1. Plans and Specifications

ZONES

Local Landscaping Zone 01 (TownGate)

The properties within Zone 01 receive special benefits from landscaped parkways and medians within the TownGate area, which is bordered by Day Street on the west, Cottonwood Avenue, Dracaea Avenue, and Eucalyptus Avenue on the south, Elsworth Street and Frederick Street on the east, and State Highway 60 on the north. The Zone improvements are currently maintained at Level 2 service (8-week rotation); the City anticipates increasing the service to Level 1 (4-week rotation), provided funding supports contract costs. The overall improvements include approximately 323,609 square feet of landscaped area and 1,045 trees.

Local Landscaping Zone 01A (Renaissance Park)

The properties within Zone 01A receive special benefits from landscaped parkways and medians within the TownGate area along with other APNs in Zone 01, but in addition, receive special benefits from parkway landscaping and entry medians on the internal neighborhood streets (Dracaea Avenue and Arbor Park Lane) that connect the various residential developments in this area. The Renaissance Park area is bordered by Day Street on the west, Cottonwood Avenue on the south, Elsworth Street on the east, and Eucalyptus Avenue on the north. The Zone improvements are currently maintained at Level 3 service (12-week rotation) due to funding. The overall improvements include approximately 72,335 square feet of landscaped area and 201 trees.

Local Landscaping Zone 02 (Hidden Springs)

The properties within Zone 02 receive special benefits from parkway landscaping along Hidden Springs Drive, an entry median on Hidden Springs Drive at Pigeon Pass Road, and the west side of Pigeon Pass Road bordering the Hidden Springs community, as well as maintenance of open space areas throughout the community. The Zone parkway improvements are currently maintained at Level 1 service (4-week rotation). The open space improvements are maintained on a monthly rotation. The overall improvements include approximately 193,743 square feet of landscaped area, 3,674,297 square feet of open space area, and 3,179 trees.

Local Landscaping Zone 03 (Moreno Valley Ranch - West)

The properties within Zone 03 receive special benefits from parkway and median landscaping generally surrounding the Moreno Valley Ranch area, bordered by Kitching Street on the west, Gentian Avenue and Casa Encantador Road on the north, and generally the City boundary to the east and south. The Zone improvements are currently maintained at Level 1 service (4-week rotation). The overall improvements include approximately 866,943 square feet of landscaped area and 2,382 trees.

Local Landscaping Zone 03A (Lasselle Powerline Parkway)

The properties within Zone 03A receive special benefits from landscaped parkways and medians within the Moreno Valley Ranch - West area along with other APNs in Zone 03, but in addition, receive special benefits from parkway landscaping on the internal neighborhood streets along portions of Withers Way, Via Xavier, Cremello Way, Cavalcade Drive, and Kentucky Derby Drive. The Zone improvements are currently maintained at Level 1 service (4-week rotation) due to funding. The overall improvements include approximately 53,774 square feet of landscaped area and 89 trees.

Local Landscaping Zone 04 (Moreno Valley Ranch - East)

The properties within Zone 04 receive special benefits from parkway and median landscaping generally surrounding the developments bordered by Hammett Court, Oliver Street, and Moreno Beach Drive to the west,

1. Plans and Specifications

Iris Avenue, John F. Kennedy Drive, and Cactus Avenue to the north, and generally the City boundary to the southeast. The improvements include approximately 980,404 square feet of landscaped area and 1,710 trees.

Because assessments in the Zone have been capped at the FY 1996/97 rate, the CSD has not been able to provide the level of service in this Zone that is provided in other Zones. The Zone improvements are currently maintained at Level 5 service (20-week rotation) due to funding.

Local Landscaping Zone 05 (Stoneridge Ranch)

The properties within Zone 05 receive special benefits from parkway and median landscaping generally surrounding the Stoneridge Ranch residential neighborhood, bordered by Nason Street on the west, Dracaea Avenue on the south, Eucalyptus Avenue on the east and Fir Avenue on the north. The Zone improvements are currently maintained at Level 1 service (4-week rotation). The overall improvements include approximately 98,392 square feet of landscaped area and 202 trees.

Local Landscaping Zone 06 (Mahogany Fields)

The properties within Zone 06 receive special benefits from parkway and median landscaping generally located within the Mahogany Fields community, bordered on the south by Alessandro Boulevard, by Cottonwood Avenue on the north, and Darwin Drive on the west. The Zone improvements are currently maintained at Level 1 service (4-week rotation). The overall improvements include approximately 178,564 square feet of landscaped area and 345 trees.

Local Landscaping Zone 07 (Celebration)

The properties within Zone 07 receive special benefits from parkway and median landscaping generally located within the Celebration community along Nason Street, Cactus Avenue, and Oliver Street. The Zone improvements are currently maintained at Level 1 service (4-week rotation). For FY 2019/20, the CSD anticipates incurring expenses to maintain buffer landscaping located on the slopes of a flood control at the southeast corner of Zone 07. These improvements were included in the budget for Zone 07 at the time it last went to property owner assessment balloting. The CSD anticipates accepting the improvements for ongoing maintenance in FY 2019/20. The overall improvements include approximately 44,591 square feet of landscaped area, 180,563 square feet of open space area (flood control channel slopes), and 119 trees.

Local Landscaping Zone 08 (Shadow Mountain)

The properties within Zone 08 receive special benefits from parkway and median landscaping generally surrounding the Shadow Mountain residential neighborhood, bordered by Pigeon Pass Road on the west, Sunnymead Ranch Parkway on the south, Presidio Hills on the east, and Lawless Road on the north. The Zone improvements are currently maintained at Level 1 service (4-week rotation). The overall improvements include approximately 76,771 square feet of landscaped area and 172 trees.

Local Landscaping Zone 09 (Savannah)

The properties within Zone 09 receive special benefits from parkway landscaping generally surrounding the Savannah residential neighborhood, bordered by Morrison Street on the west, Eucalyptus Avenue on the south, Fir Avenue on the north, and the tract boundary to the east. The landscape improvements associated with Zone 09 were accepted for ongoing maintenance by the CSD in late FY 2017/18. The Zone improvements are currently maintained at Level 1 service (4-week rotation). The overall improvements include approximately 64,456 square feet of landscaped area and 138 trees.

2. Method of Apportionment

The 1972 Act permits the establishment of assessment districts by agencies for the purpose of providing certain public improvements, including the acquisition, construction, installation, and servicing of street Landscaping improvements and related facilities. The 1972 Act requires that the cost of these improvements be levied according to benefit.

Section 22573 defines the net amount to be assessed as follows:

"The net amount to be assessed upon lands within an assessment district may be apportioned by any formula or method which fairly distributes the net amount among all assessable lots or parcels in proportion to the estimated benefits to be received by each such lot or parcel from the improvements."

Section 22574 provides for zones as follows:

"The diagram and assessment may classify various areas within an assessment district into different zones where, by reason of variations in the nature, location, and extent of the improvements, the various areas will receive differing degrees of benefit from the improvements. A zone shall consist of all territory which will receive substantially the same degree of benefit from the improvements."

The formulas used for calculating assessments and the designation of zones herein reflect the composition of APNs within the District and the improvements and activities to be provided and have been designed to fairly apportion the cost of providing those improvements based on a determination of the proportional special benefits to each APN, consistent with the requirements of the 1972 Act and the provisions of Proposition 218 and Article XIII D of the California Constitution.

PROPOSITION 218 BENEFIT ANALYSIS

The costs of the proposed improvements for FY 2019/20 have been identified and allocated to properties within the District based on special benefit. The improvements provided by this District and for which properties are assessed are local public landscape improvements and related amenities that were installed in connection with the development of the properties or would otherwise be required for the development of properties within each respective Zone of the District. The assessments and method of apportionment is based on the premise that these improvements would otherwise not have been required without the development of those APNs within the District.

Article XIII D Section 2(d) defines District as follows:

"District" means an area determined by an agency to contain all parcels which will receive a special benefit from a proposed public improvement or property-related service.

Article XIII D Section 2(i) defines Special Benefit as follows:

"Special benefit" means a particular and distinct benefit over and above general benefits conferred on real property located in the district or to the public at large. General enhancement of property value does not constitute "special benefit."

Article XIII D Section 4(a) defines proportional special benefit assessments as follows:

An agency which proposes to levy an assessment shall identify all parcels which will have a special benefit conferred upon them and upon which an assessment will be imposed. The proportionate special benefit derived by each identified parcel shall be determined in relationship to the entirety of the capital cost of a public improvement, the maintenance and operation expenses of a public improvement, or the cost of the property related service being provided. No assessment shall be imposed on any parcel which exceeds the reasonable cost of the proportional special benefit conferred on that parcel.

2. Method of Apportionment

BENEFIT ANALYSIS

Special Benefit

The ongoing maintenance of local public landscaped areas within the District provides aesthetic benefits to the properties within each respective Zone and provides a more pleasant environment to walk, drive, live, and work. The primary function of these landscape improvements and related amenities is to serve as an aesthetically pleasing enhancement and green space for the benefit of the immediately surrounding developments for which the improvements were constructed and installed. These improvements are an integral part of the physical environment of parcels in associated Zones, and if the improvements were not properly maintained, it is these parcels that would be aesthetically burdened. In addition, the street landscaping in these Zones serve as both a physical buffer as well as a sound reduction or buffer between the roadways and the properties in the District and the open spaces, where applicable, provide a physical buffer and openness between properties. Furthermore, open spaces serve as an extension of the recreational features of parcels, such as their front or rear yards, and entry landscaping serves as a pleasant aesthetic amenity that improves the approach to the parcels. As a result, the maintenance of these landscaped improvements is a particular and distinct benefit to the properties and developments within each Zone.

General Benefit

In reviewing the location and extent of the specific landscaped areas and improvements to be funded by District assessments and the proximity and relationship to properties to be assessed, it is evident these improvements are local improvements that were installed in connection with the development of properties in each respective Zone or are improvements that would otherwise be shared by and required for the future development of properties in those Zones. It is also evident that the aesthetic maintenance of these improvements and the enhanced level of maintenance provided only has a direct and particular impact on those properties (special benefit) and such maintenance beyond that which is required to ensure the safety and protection of the general public and property in general, has no identifiable benefit to the public at large or properties outside each respective Zone.

In the absence of a special funding Zone, the City would typically provide only weed abatement and erosion control services for landscaped areas. These services would typically be provided twice annually. This level of service provides for public safety and avoids negative impacts on adjacent roadways and vehicles traveling on those roadways but results in a far less visually pleasing environment than is created with the enhanced levels of services associated with the District. The cost to provide the baseline level of service is approximately \$0.0224202 per square foot per servicing for streetscape areas and \$0.0112101 per square foot per servicing for open space areas that require maintenance. Utilizing these per square foot costs, the square footages of the improvement areas, and the number of servicing in each Zone, the following table summarizes the current estimated general benefit costs calculated for each District Zone:

2. Method of Apportionment

Table 2-1
FY 2019/20 Estimated General Benefit Costs

Zone	General Benefit Costs ¹
Zone 01	\$14,511
Zone 01A	\$3,244
Zone 02	\$29,283
Zone 03	\$38,875
Zone 03A	\$2,412
Zone 04	\$43,962
Zone 05	\$4,412
Zone 06	\$8,007
Zone 07	\$3,012
Zone 08	\$3,443
Zone 09	\$2,891
Total Estimated General Benefit Costs	\$154,052

General Fund Maintained Areas

The following improvements are excluded from assessment funding and instead funded from other sources. Areas which require a General Fund Maintained Area contribution are re-evaluated annually to reflect estimated cost. These particular improvement areas are identified on the District Diagrams provided in Section 4 of this Report as "General Fund Maintained" improvements and include the improvements in the following Zones:

Zone 04

The 31,000 square feet of planter area and eight trees in the drainage area south of Iris Avenue and west of Turnberry Street previously included in CSD Zone E-4A (Daybreak) is maintained and funded by other general fund revenues and not included in the assessments for Zone 04. (See "General Fund Maintained Greenbelt Drainage Area" in Diagram 4-6 on page 23.) These improvements constitute all the landscaped areas previously in CSD Zone E-4A.

Zone 07

The 2,230 square feet of parkway planter area on the east side of Nason Street north of Damascus Road that was previously included in CSD Zone E-15 (Celebration), is maintained and funded by other general fund revenues and not included in the assessments for Zone 07. (See "General Fund Maintained Parkway" in Diagram 4-9 on page 26.)

¹ The General Benefit Costs presented in the table above are reflected in the budgets for each Zone. As with most landscape maintenance costs, these General Benefit Costs are subject to an annual CPI increase and as such the General Benefit Cost contributions are adjusted annually for inflation.

2. Method of Apportionment

ASSESSMENT METHODOLOGY

The method of apportionment for this District calculates the receipt of special benefit from the respective improvements based on the land use of the APNs.

Equivalent Benefit Unit Application

To proportionally allocate special benefit to each APN, it is necessary to correlate each property's proportional benefit to other properties that benefit from the improvements and services being funded. In order to do this, the assessment methodology assigns each APN a number of Equivalent Benefit Units (EBUs) based on its land use as of March 1, preceding the fiscal year addressed herein. One EBU is defined as the special benefit allocable to a single-family home (basic EBU). In each case, an APN is only allocated EBUs if the landscaping serving the Zone has been accepted by the City or will be accepted by the City during the upcoming fiscal year.

Single-Family Residential: This land use is defined as a fully subdivided single-family residential home site with or without a structure. As previously noted, the single-family residential APN has been selected as the basic EBU for calculation of assessments and each single-family residential home site is assigned 1.0 Equivalent Benefit Unit (1.0 EBU per lot or APN).

Condominium Residential: This land use is defined as a fully subdivided condominium residential unit assigned its own APN by the County. EBUs are assigned to these APNs by multiplying the overall acreage of the condominium development by 4 (the typical number of single-family homes in an acre of typical development), and then dividing the result by the number of condominium units/APNs in the development.

Multi-Family Residential and Mobile Home Park: This land use classification identifies properties that are used for residential purposes and contain more than one residential unit. The proportional special benefit and EBU for these APNs is based on acreage, at 4.0 EBUs per acre.

Developed Non-Residential: This classification includes developed properties including parking lots that are identified or zoned for commercial, industrial, or other non-residential use including offices, hotels, recreational facilities (excluding parks), and institutional facilities including, hospitals, churches or facilities utilized by other non-profit organizations, whether those facilities are publicly owned (non-taxable) or privately owned. Like Multi-Family Residential and Mobile Home Park properties, the proportional special benefit and EBU for these APNs is based on acreage, at 4.0 EBUs per acre.

Planned Residential Development: This land use is defined as a property that is currently considered vacant or undeveloped land, but for which the number of residential lots to be developed on the property is known or has been approved. These properties benefit from the existing Zone improvements but may as part of their development install additional landscape improvements to be maintained either solely by the development or as part of the District improvements depending on the location and extent of those improvements. The proportional special benefit and EBU for these APNs is based on the planned residential units for the APN, at 0.50 EBU per planned unit (50% of the basic EBU unit for a single-family residential APN).

Undeveloped/Vacant Property: This land use is defined as an APN that is currently considered vacant or undeveloped land that can be developed, but for which the use and/or development of the property has not been fully determined. These APNs are assigned a proportional EBU that is based on 50% of the proportional benefit established for a developed property in the District. The proportional special benefit and EBU for these APNs is based on acreage, at 2.0 EBUs per acre.

2. Method of Apportionment

Special Case Property: In some Zones there may be one or more properties that the standard land use classifications identified above do not accurately identify the use and special benefit received from the improvements and/or it has been determined that the property receives special benefit but has not been previously assessed for various reasons. Properties that are typically classified as Special Case properties usually involve some type of development or land restrictions whether those restrictions are temporary or permanent and affect the properties proportional special benefit. Examples of such restrictions may include situations where only a small percentage of the APN's total acreage can actually be developed. In such a case, the net usable acreage of the APN rather than the gross acreage of the APN may be applied to calculate the APN's proportional special benefit. In addition, in certain Zones there are a few APNs that have been identified as properties that receive special benefit from the Zone improvements, but likely because of their ownership or tax status (government or non-profit owned properties) these APNs were not previously levied the annual assessment. The proportional special benefit and proposed assessment for each of these APNs is calculated along with all other properties in the Zone, but rather than ballot these properties for a new or increased assessment at this time, the agency will make an off-setting contribution to the Zone that is equal to the assessment amount these Non-Assessed APNs would otherwise have been assessed.

Exempt: This classification means any lot or parcel that is considered to not specially benefit directly from improvements. This classification includes, but is not limited to, areas of public streets, private streets, and other roadways; and public easements or right-of-ways including landscaped parkways or easements; and utility right-of-ways or easements such as irrigation or drainage ditches, channels or basins, and flood plains. These types of parcels (similar to the improvements) are typically the result of property development rather than the direct cause of development and have little or no need for the improvements. These types of properties may or may not be assigned an APN by the County.

Also, exempt from assessment are parcels that are identified as common areas (properties for which the surrounding residential parcels have a shared interest); bifurcated lots; small parcels vacated by the County or similar sliver parcels that cannot be developed independent of an adjacent parcel. These types of parcels are generally not separately assessed because they are functionally a part of another parcel that is assessed for its own benefit and the benefit of the associated parcel. Based on the improvements maintained in this District it has been determined that public schools, public parks, golf courses, and open space areas provide landscape amenities that are available to the public or are similar in nature to the improvements of a Zone and any benefit these properties may derive from the Zone improvements are more than off-set by the public benefit they provide to properties in the Zone.

3. Estimate of Costs

CALCULATION OF ASSESSMENTS

An assessment amount per EBU is calculated by:

Taking the "Total Annual Expenses" (total budgeted costs) and subtracting the proportional "General Benefit Costs" which establishes the "Total Special Benefit Costs";

Total Amount Budgeted - General Benefit Costs¹ = Total Special Benefit Costs

To the resulting "Total Special Benefit Costs", various "Other Available Funding" adjustments are applied. For further information please reference line items in the budget on the following page under "Other Available Funding."

These adjustments to the Total Special Benefit Costs result in the "Net Special Benefit Assessment";

Total Special Benefit Costs +/- Other Available Funding = Net Special Benefit Assessment

The amount identified as the "Net Special Benefit Assessment" is divided by the Total EBUs of APNs to be Assessed² to establish the "Assessment Rate" or "Assessment per EBU" for the fiscal year. The Assessment Rate is then applied to each APN's individual EBU to calculate the APN's proportionate special benefit and assessment obligation for the improvements.

Net Special Benefit Assessment / Total EBUs (to be Assessed) = Assessment per EBU

¹ Plus, where applicable, General Fund-maintained Area Costs.

² "Total EBUs of APNs to be Assessed" is the total EBUs in the District less the total EBUs of non-assessed parcels.

3. Estimate of Costs

DISTRICT BUDGET

The following budgets outline the estimated costs to maintain the improvements and the anticipated expenditures for each Zone for FY 2019/20.

Attachment: LMD 2014-02 Assessment Engineer's Report (3421 : PUBLIC HEARING TO CONFIRM DIAGRAMS AND ASSESSMENTS FOR

3. Estimate of Costs

Table 3-1
FY 2019/20 Budget

	Zone 01	Zone 01A	Zone 02	Zone 03
Annual Operating Expenses				
Operations & Maintenance ("O&M")	\$226,255.00	\$33,965.00	\$465,015.00	\$463,155.00
Utilities	\$87,200.00	\$29,670.00	\$132,230.00	\$121,720.00
Total O&M Expenses	\$313,455.00	\$63,635.00	\$597,245.00	\$584,875.00
Capital Improvement Project (CIP) and Rehabilitation ¹				
Planned CIP & Rehabilitation Expenditures	\$100,000.00	\$0.00	\$0.00	\$165,000.00
CIP & Rehabilitation Fund Collections	\$24,035.06	\$0.00	\$41,583.40	\$39,248.15
Incidental/Administrative Expenses				
District Administration	\$19,563.00	\$4,662.00	\$40,477.00	\$46,706.00
County Fees	\$580.00	\$400.00	\$560.00	\$2,180.00
Miscellaneous Administrative Expenses	\$1,100.00	\$266.00	\$2,254.00	\$2,610.00
Total Incidental/Administrative Expenses	\$21,243.00	\$5,328.00	\$43,291.00	\$51,496.00
Contribution to Reserves	\$0.00	\$0.00	\$0.00	\$49,418.29
Total Annual Expenses	\$358,733.06	\$68,963.00	\$682,119.40	\$725,037.44
Special Benefit Costs				
General Benefit Costs	(\$14,511.00)	(\$3,244.00)	(\$29,283.00)	(\$38,875.00)
General Fund Maintained Area Costs	\$0.00	\$0.00	\$0.00	\$0.00
Total Special Benefit Costs	\$344,222.06	\$65,719.00	\$652,836.40	\$686,162.44
Other Available Funding				
Use of Reserves ²	(\$5,667.92)	(\$13,574.22)	(\$86,660.24)	\$0.00
Interest Income & Unrealized Gains/Losses	(\$2,400.00)	(\$600.00)	(\$4,600.00)	(\$5,200.00)
Reimbursement Agreements	(\$6,000.00)	\$0.00	\$0.00	\$0.00
Total Contributions/Adjustments	(\$14,067.92)	(\$14,174.22)	(\$91,260.24)	(\$5,200.00)
Net Special Benefit Assessment	\$330,154.14	\$51,544.78	\$561,576.16	\$680,962.44
District Statistics				
Total Parcels	1,186	557	1,151	4,513
Total Assessed Parcels ³	1,185	557	1,151	4,509
Total EBUs	2,184.72575	557.00000	1,178.00000	4,506.17291
Proposed Assessment per EBU	\$151.12	\$92.54	\$476.72	\$151.12
Maximum Assessment per EBU	\$151.13	\$92.54	\$476.73	\$151.13
EBU of Non-Assessed Parcels	5.00000	n/a	n/a	120.48200
Contribution for Non-Assessed Parcels ⁴	(\$755.60)	n/a	n/a	(\$18,207.20)
Net Balance to Levy	\$329,398.54	\$51,544.78	\$561,576.16	\$662,755.24
Reserve Fund/Fund Balance				
Estimated Beginning Fund Balance as of July 1, 2019	\$496,152.26	\$103,898.66	\$966,727.30	\$976,110.24
Levy and Other Funding Sources	\$338,554.14	\$52,144.78	\$566,176.16	\$686,162.44
Expenditures less General Benefit Costs	(\$344,222.06)	(\$65,719.00)	(\$652,836.40)	(\$686,162.44)
2019/20 Planned CIP & Rehabilitation Expenditures	(\$100,000.00)	\$0.00	\$0.00	(\$165,000.00)
Estimated Ending Fund Balance as of June 30, 2020	\$390,484.34	\$90,324.44	\$880,067.06	\$811,110.24

¹ See Appendix A for planned long-term Capital Improvement Projects and Rehabilitations included in the FY 2019/20 Budget.

² Use of Reserves to fund services beyond levy amount.

³ "Total Assessed Parcels" is the total number of APNs in the District less the total number of non-assessed parcels.

⁴ Agency contribution for parcels that benefit but have not historically been assessed (typically government-owned properties).

3. Estimate of Costs

Table 3-2
FY 2019/20 Budget

	Zone 03A	Zone 04	Zone 05	Zone 06
Annual Operating Expenses				
Operations & Maintenance	\$26,860.00	\$224,866.00	\$64,544.00	\$99,086.00
Utilities	\$6,960.00	\$48,340.00	\$32,270.00	\$39,720.00
Total O&M Expenses	\$33,820.00	\$273,206.00	\$96,814.00	\$138,806.00
Capital Improvement Project (CIP) and Rehabilitation ¹				
Planned CIP & Rehabilitation Expenditures	\$0.00	\$0.00	\$3,000.00	\$9,000.00
CIP & Rehabilitation Fund Collections	\$26,534.93	\$0.00	\$0.00	\$0.00
Incidental/Administrative Expenses				
District Administration	\$3,698.00	\$42,024.00	\$4,553.00	\$7,499.00
County Fees	\$350.00	\$1,000.00	\$170.00	\$210.00
Miscellaneous Administrative Expenses	\$209.00	\$3,265.00	\$255.00	\$406.00
Total Incidental/Administrative Expenses	\$4,257.00	\$46,289.00	\$4,978.00	\$8,115.00
Contribution to Reserves	\$0.00	\$0.00	\$0.00	\$0.00
Total Annual Expenses	\$64,611.93	\$319,495.00	\$101,792.00	\$146,921.00
Special Benefit Costs				
General Benefit Costs	(\$2,412.00)	(\$43,962.00)	(\$4,412.00)	(\$8,007.00)
General Fund Maintained Area Costs	\$0.00	(\$14,125.52)	\$0.00	\$0.00
Total Special Benefit Costs	\$62,199.93	\$261,407.48	\$97,380.00	\$138,914.00
Other Available Funding				
Use of Reserves ²	(\$24,271.81)	(\$6,682.28)	(\$86,830.00)	(\$78,118.64)
Interest Income & Unrealized Gains/Losses	(\$400.00)	(\$1,800.00)	(\$2,200.00)	(\$1,800.00)
Reimbursement Agreements	\$0.00	\$0.00	\$0.00	\$0.00
Total Contributions/Adjustments	(\$24,671.81)	(\$8,482.28)	(\$89,030.00)	(\$79,918.64)
Net Special Benefit Assessment	\$37,528.12	\$252,925.20	\$8,350.00	\$58,995.36
District Statistics				
Total Parcels	467	2,087	334	424
Total Assessed Parcels ³	467	2,074	334	424
Total EBUs	467.00000	2,299.32000	334.00000	424.00000
Proposed Assessment per EBU	\$80.36	\$110.00	\$25.00	\$139.14
Maximum Assessment per EBU	\$80.37	\$110.00	\$474.96	\$332.57
EBU of Non-Assessed Parcels	n/a	78.72000	n/a	n/a
Contribution for Non-Assessed Parcels ⁴	n/a	(\$8,659.20)	n/a	n/a
Net Balance to Levy	\$37,528.12	\$244,266.00	\$8,350.00	\$58,995.36
Reserve Fund/Fund Balance				
Estimated Beginning Fund Balance as of July 1, 2019	\$91,123.50	\$530,863.39	\$343,395.85	\$349,281.86
Levy and Other Funding Sources	\$37,928.12	\$254,725.20	\$10,550.00	\$60,795.36
Expenditures less General Benefit Costs	(\$62,199.93)	(\$261,407.48)	(\$97,380.00)	(\$138,914.00)
2019/20 Planned CIP & Rehabilitation Expenditures	\$0.00	\$0.00	(\$3,000.00)	(\$9,000.00)
Estimated Ending Fund Balance as of June 30, 2020	\$66,851.69	\$524,181.11	\$253,565.85	\$262,163.22

¹ See Appendix A for planned long-term Capital Improvement Projects and Rehabilitations included in the FY 2019/20 Budget.

² Use of Reserves to fund services beyond levy amount.

³ "Total Assessed Parcels" is the total number of APNs in the District less the total number of non-assessed parcels.

⁴ Agency contribution for parcels that benefit but have not historically been assessed (typically government-owned properties).

3. Estimate of Costs

Table 3-3
FY 2019/20 Budget

	Zone 07	Zone 08	Zone 09	Total
Annual Operating Expenses				
Operations & Maintenance	\$68,824.00	\$70,140.00	\$28,094.00	\$1,770,804.00
Utilities	\$7,160.00	\$20,560.00	\$25,140.00	\$550,970.00
Total O&M Expenses	\$75,984.00	\$90,700.00	\$53,234.00	\$2,321,774.00
Capital Improvement Project (CIP) and Rehabilitation ¹				
Planned CIP & Rehabilitation Expenditures	\$3,000.00	\$8,000.00	\$0.00	\$288,000.00
CIP & Rehabilitation Fund Collections	\$0.00	\$0.00	\$0.00	\$131,401.54
Incidental/Administrative Expenses				
District Administration	\$3,982.00	\$3,679.00	\$2,696.00	\$179,539.00
County Fees	\$130.00	\$150.00	\$80.00	\$5,810.00
Miscellaneous Administrative Expenses	\$221.00	\$209.00	\$142.00	\$10,937.00
Total Incidental/Administrative Expenses	\$4,333.00	\$4,038.00	\$2,918.00	\$196,286.00
Contribution to Reserves	\$0.00	\$0.00	\$0.00	\$49,418.29
Total Annual Expenses	\$80,317.00	\$94,738.00	\$56,152.00	\$2,698,879.83
General Benefit Costs	(\$3,012.00)	(\$3,443.00)	(\$2,891.00)	(\$154,052.00)
General Fund Maintained Area Costs	(\$526.68)	\$0.00	\$0.00	(\$14,652.20)
Total Special Benefit Costs	\$76,778.32	\$91,295.00	\$53,261.00	\$2,530,175.63
Other Available Funding				
Use of Reserves ²	(\$63,480.40)	(\$67,000.18)	(\$14,062.00)	(\$446,347.69)
Interest Income & Unrealized Gains/Losses	(\$3,300.00)	(\$1,300.00)	(\$400.00)	(\$24,000.00)
Reimbursement Agreements	\$0.00	\$0.00	\$0.00	(\$6,000.00)
Total Contributions/Adjustments	(\$66,780.40)	(\$68,300.18)	(\$14,462.00)	(\$476,347.69)
Net Special Benefit Assessment	\$9,997.92	\$22,994.82	\$38,799.00	\$2,053,827.94
District Statistics				
Total Parcels	262	291	150	11,422
Total Assessed Parcels ³	262	291	150	11,404
Total EBUs	262.00000	291.00000	150.00000	12,653.21866
Proposed Assessment per EBU	\$38.16	\$79.02	\$258.66	
Maximum Assessment per EBU	\$398.41	\$350.84	\$719.54	
EBU of Non-Assessed Parcels	n/a	n/a	n/a	204.2020
Contribution for Non-Assessed Parcels ⁴	n/a	n/a	n/a	(\$27,622.00)
Net Balance to Levy	\$9,997.92	\$22,994.82	\$38,799.00	\$2,026,205.94
Reserve Fund/Fund Balance				
Estimated Beginning Fund Balance as of July 1, 2019	\$581,388.10	\$253,044.16	\$94,594.16	\$4,786,579.48
Levy and Other Funding Sources	\$13,297.92	\$24,294.82	\$39,199.00	\$2,083,827.94
Expenditures less General Benefit Costs	(\$76,778.32)	(\$91,295.00)	(\$53,261.00)	(\$2,530,175.63)
2019/20 Planned CIP & Rehabilitation Expenditures	(\$3,000.00)	(\$8,000.00)	\$0.00	(\$288,000.00)
Estimated Ending Fund Balance as of June 30, 2020	\$514,907.70	\$178,043.98	\$80,532.16	\$4,052,231.79

¹ See Appendix A for planned long-term Capital Improvement Projects and Rehabilitations included in the FY 2019/20 Budget.

² Use of Reserves to fund services beyond levy amount.

³ "Total Assessed Parcels" is the total number of APNs in the District less the total number of non-assessed parcels.

⁴ Agency contribution for parcels that benefit but have not historically been assessed (typically government-owned properties).

3. Estimate of Costs

ASSESSMENT RATES

The following shows the assessment rates applicable to each Zone for FY 2019/20 based on the budget and the method of apportionment presented above.

Table 3-4
FY 2019/20 Proposed Assessment Rates

Zone	Maximum Assessment Rate per EBU ¹	Applied Rate per EBU
Zone 01	\$151.13	\$151.12
Zone 01 Condo	\$68.20	\$68.18
Zone 01A	\$92.54	\$92.54
Zone 02	\$476.73	\$476.72
Zone 03	\$151.13	\$151.12
Zone 03 Condo 32142	\$66.95	\$66.94
Zone 03 Condo 32143 & 32144	\$64.51	\$64.50
Zone 03 Condo 32145	\$37.73	\$37.72
Zone 03 Condo 32146	\$36.50	\$36.50
Zone 03A	\$80.37	\$80.36
Zone 04	\$110.00	\$110.00
Zone 05	\$474.96	\$25.00
Zone 06	\$332.57	\$139.14
Zone 07	\$398.41	\$38.16
Zone 08	\$350.84	\$79.02
Zone 09	\$719.54	\$258.66

ANNUAL INFLATIONARY ADJUSTMENT (ASSESSMENT RANGE FORMULA)

Zone 01 through Zone 03A and Zone 05 through Zone 08

The Maximum Assessment per EBU (Assessment Rate) established for the improvements in the previous fiscal year may be adjusted by the percentage change calculated for the previous calendar year in the Los Angeles-Long Beach-Anaheim Consumer Price Index (CPI) ², as published by the Department of Labor's Bureau of Labor Statistics.

The "All Urban Consumers" Index for Los Angeles-Long Beach-Anaheim Region is used to calculate the annual inflation adjustment. The inflation adjustment from December 2017 to December 2018 is 3.24%.

Zone 04

The Maximum Assessment Rate per EBU does not include an annual inflation adjustment.

¹ The Maximum Assessment Rate per EBU for all Zones (except Zone 04) includes an inflationary adjustment that was approved by the property owners as part of the balloted assessment proceeding.

² In January 2018, the Bureau of Labor Statistics introduced a new geographic area sample for the Consumer Price Index (CPI). Riverside, CA, which was previously included in the Los Angeles-Riverside-Orange County, CA MSA (Metropolitan Statistical Area), will now be included in a separate CBSA (Core Based Statistical Area) and will be considered a new index named Riverside-San Bernardino-Ontario, starting at 100.000. The Los Angeles-Riverside-Orange County, CA index was renamed "Los Angeles-Long Beach-Anaheim". Because the CPI approved by the property owners was the Los Angeles-Riverside-Orange County index, and it was renamed and not eliminated, CSD General Counsel determined the District would continue to use the Los Angeles-Long Beach-Anaheim index.

3. Estimate of Costs

Zone 09

Each fiscal year the Maximum Assessment Rate per EBU will be automatically adjusted by the percentage change in the CPI for All Urban Consumers for the Los Angeles-Long Beach-Anaheim Region as published by the Department of Labor's Bureau of Labor Statistics or three percent (3%), whichever is greater.

Each year, the Board of Directors will consider whether the assessment needs to be levied at the adjusted maximum rate; and the Board may levy it at some lower rate or choose not to implement an automatic rate adjustment.

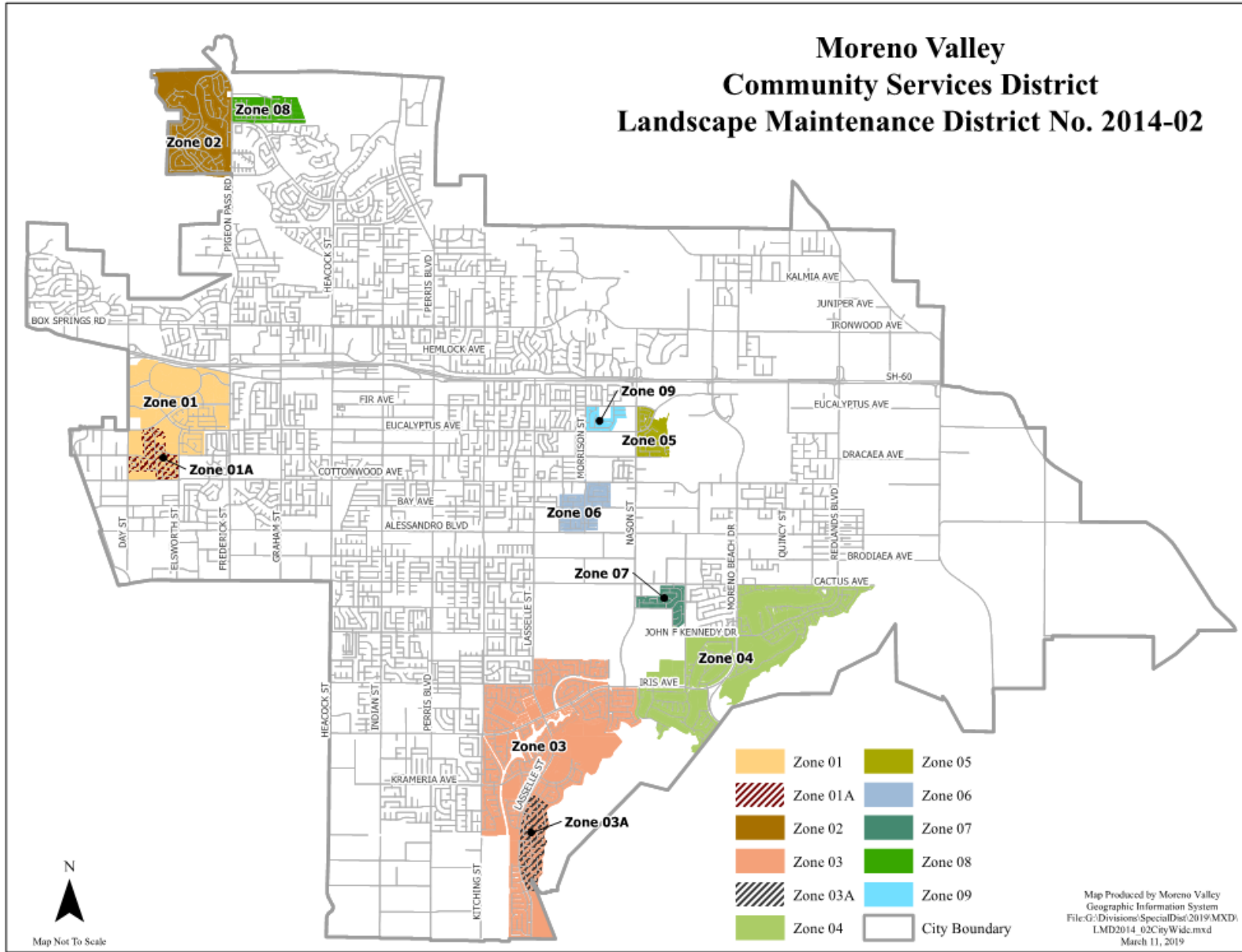
4. District Diagrams

DISTRICT DIAGRAMS

The following pages provide boundary diagrams for each Zone within the District, as well as a general depiction of the location of the improvements as identified at the time this Report was prepared. Detailed maps of the full extent and location of the improvement areas are on file with the Public Works Department, Special Districts Division. The combination of these map and the Assessment Roll referenced by this Report constitute the Assessment Diagrams for the District.

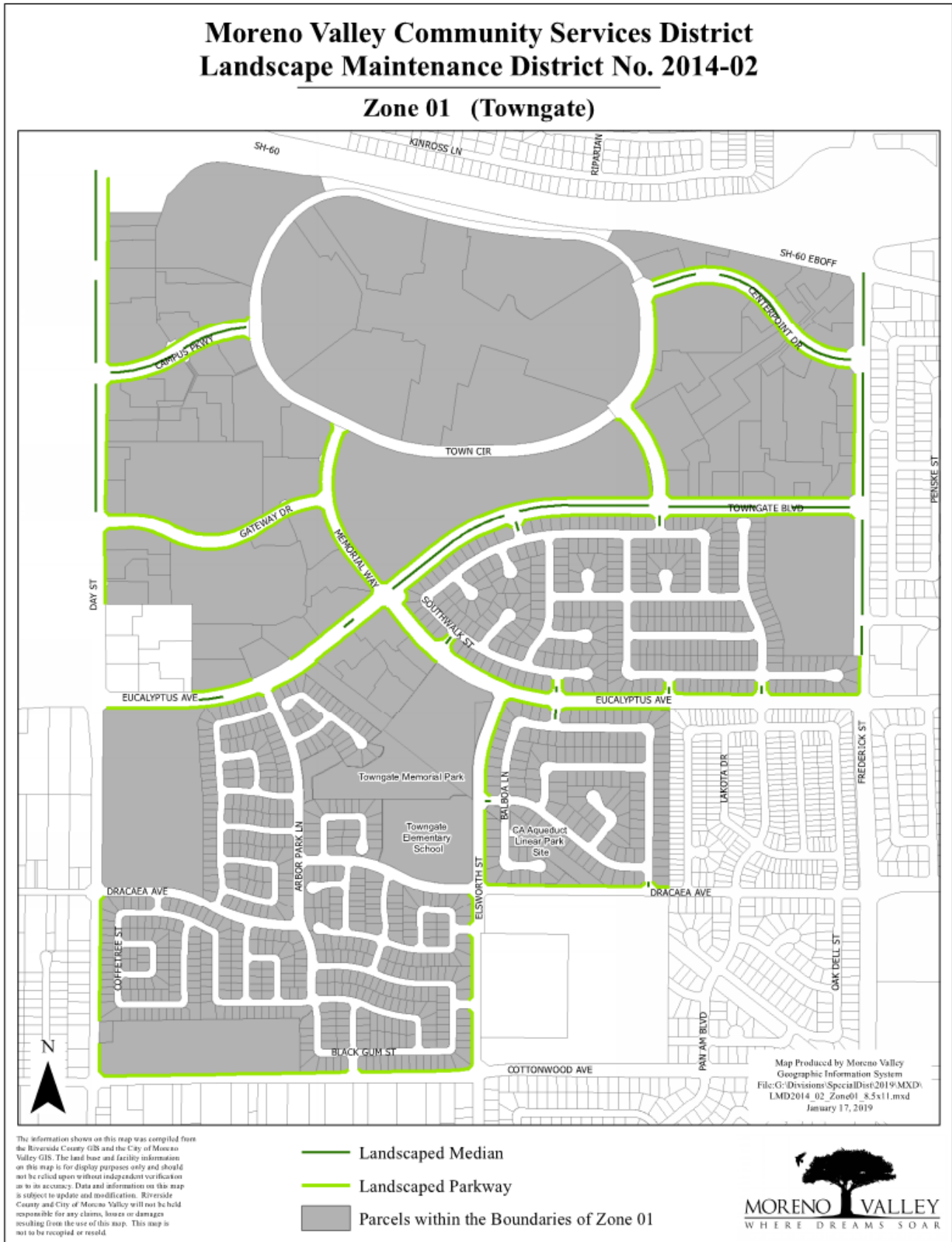
4. District Diagrams

Diagram 4-1



4. District Diagrams

Diagram 4-2



Attachment: LMD 2014-02 Assessment Engineer's Report (3421 : PUBLIC HEARING TO CONFIRM DIAGRAMS AND ASSESSMENTS FOR

4. District Diagrams

Diagram 4-3



Attachment: LMD 2014-02 Assessment Engineer's Report (3421 : PUBLIC HEARING TO CONFIRM DIAGRAMS AND ASSESSMENTS FOR

4. District Diagrams

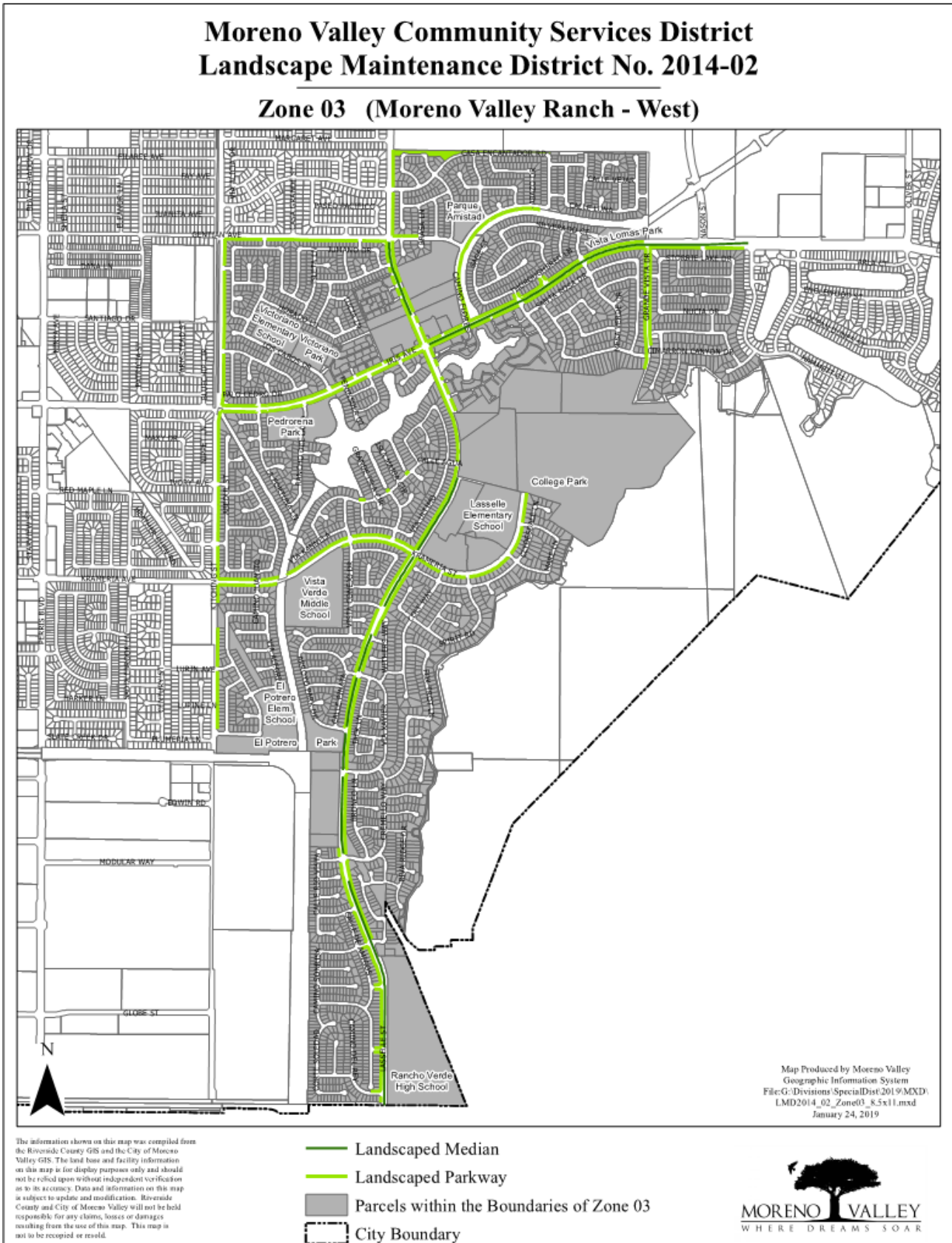
Diagram 4-4



Attachment: LMD 2014-02 Assessment Engineer's Report (3421 : PUBLIC HEARING TO CONFIRM DIAGRAMS AND ASSESSMENTS FOR

4. District Diagrams

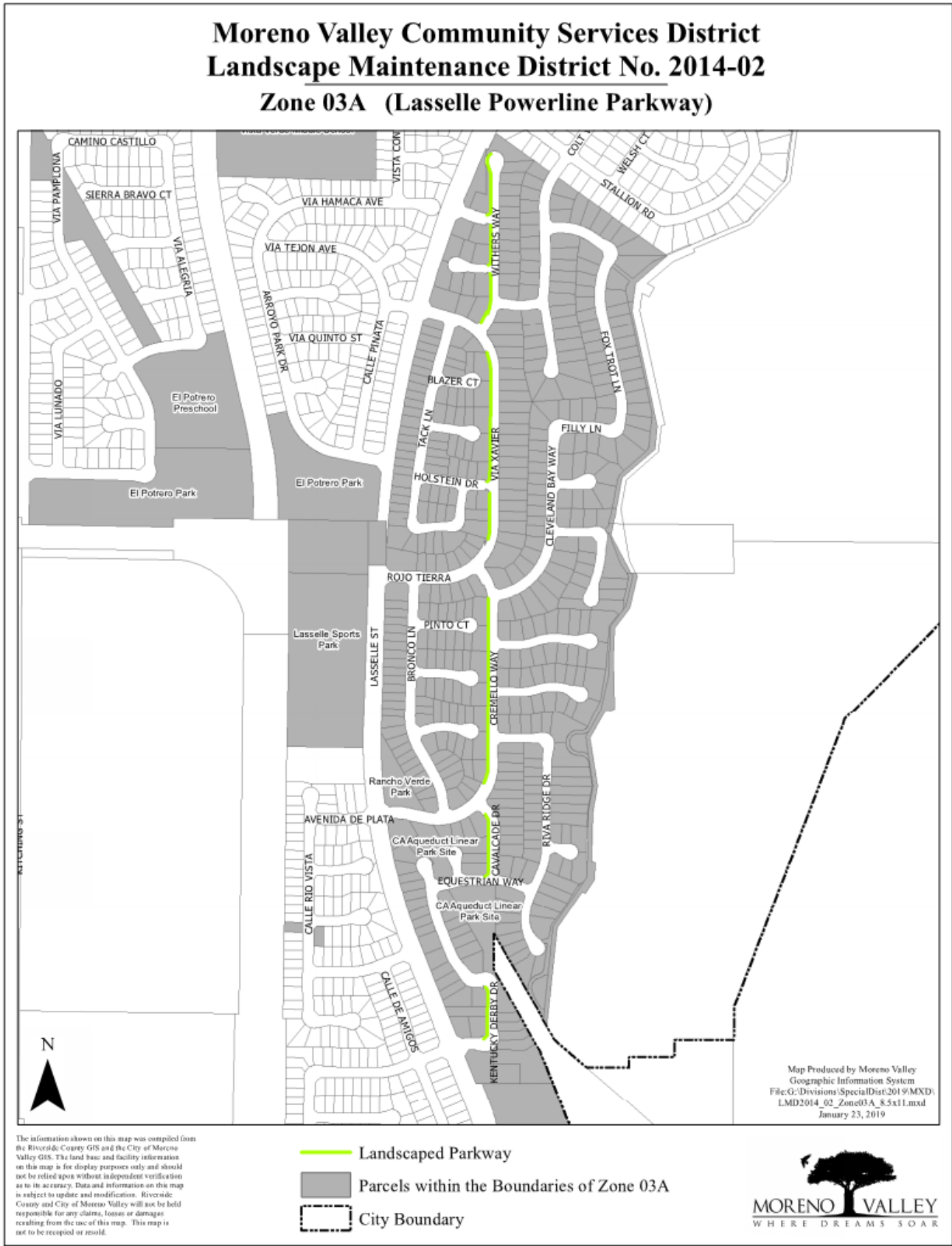
Diagram 4-5



Attachment: LMD 2014-02 Assessment Engineer's Report (3421 : PUBLIC HEARING TO CONFIRM DIAGRAMS AND ASSESSMENTS FOR

4. District Diagrams

Diagram 4-6



Attachment: LMD 2014-02 Assessment Engineer's Report (3421 : PUBLIC HEARING TO CONFIRM DIAGRAMS AND ASSESSMENTS FOR

4. District Diagrams

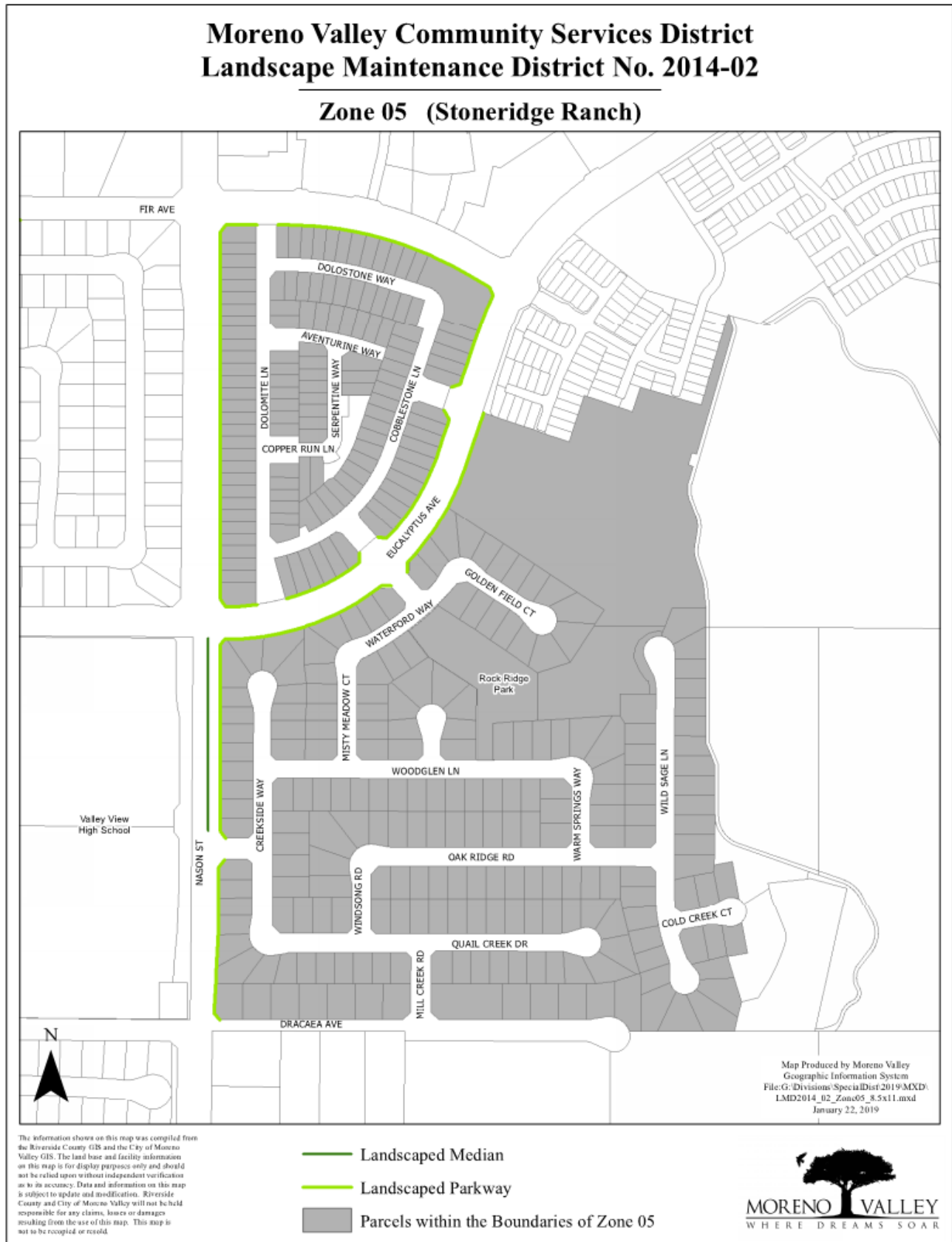
Diagram 4-7



Attachment: LMD 2014-02 Assessment Engineer's Report (3421 : PUBLIC HEARING TO CONFIRM DIAGRAMS AND ASSESSMENTS FOR

4. District Diagrams

Diagram 4-8



Attachment: LMD 2014-02 Assessment Engineer's Report (3421 : PUBLIC HEARING TO CONFIRM DIAGRAMS AND ASSESSMENTS FOR

4. District Diagrams

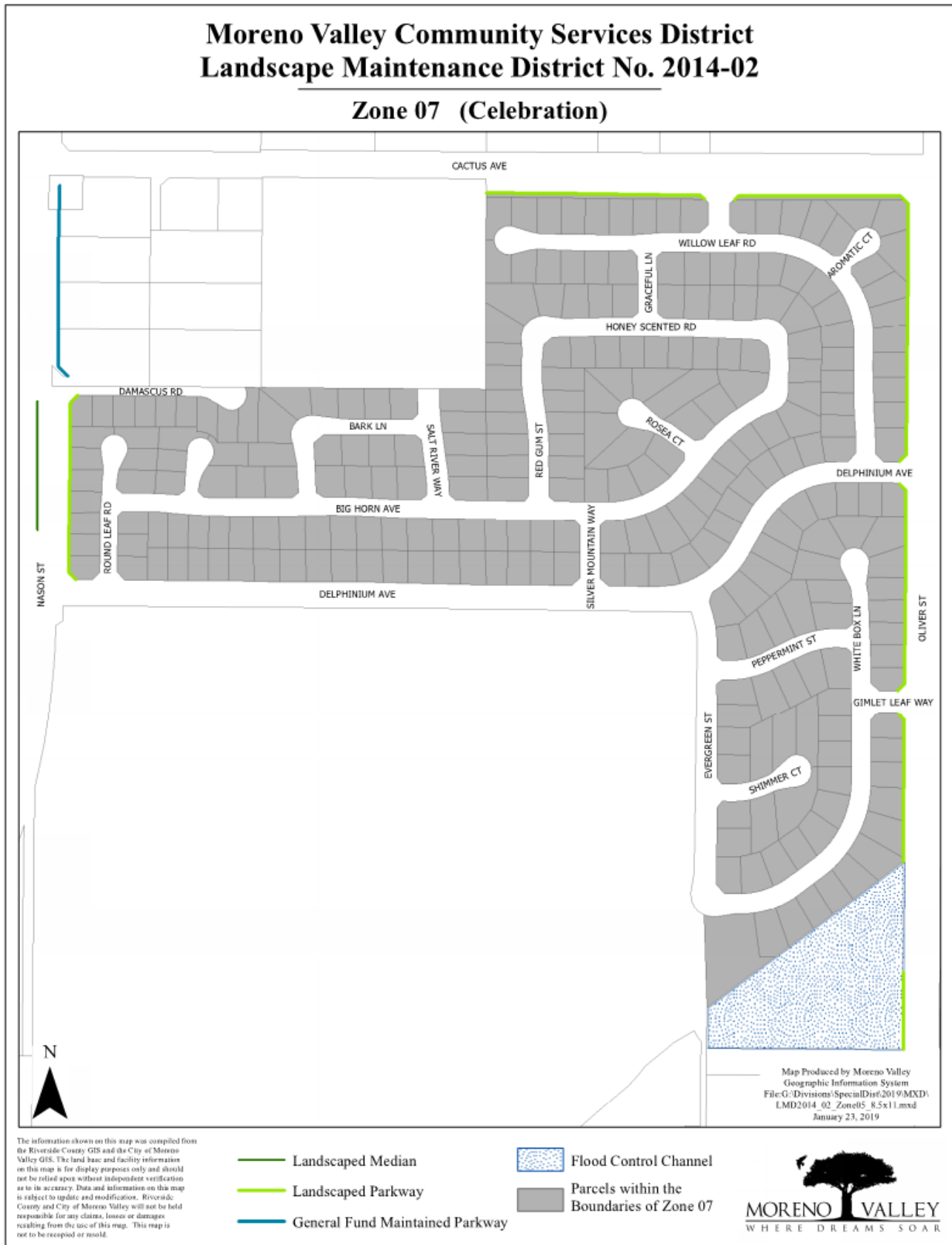
Diagram 4-9



Attachment: LMD 2014-02 Assessment Engineer's Report (3421 : PUBLIC HEARING TO CONFIRM DIAGRAMS AND ASSESSMENTS FOR

4. District Diagrams

Diagram 4-10



Attachment: LMD 2014-02 Assessment Engineer's Report (3421 : PUBLIC HEARING TO CONFIRM DIAGRAMS AND ASSESSMENTS FOR

4. District Diagrams

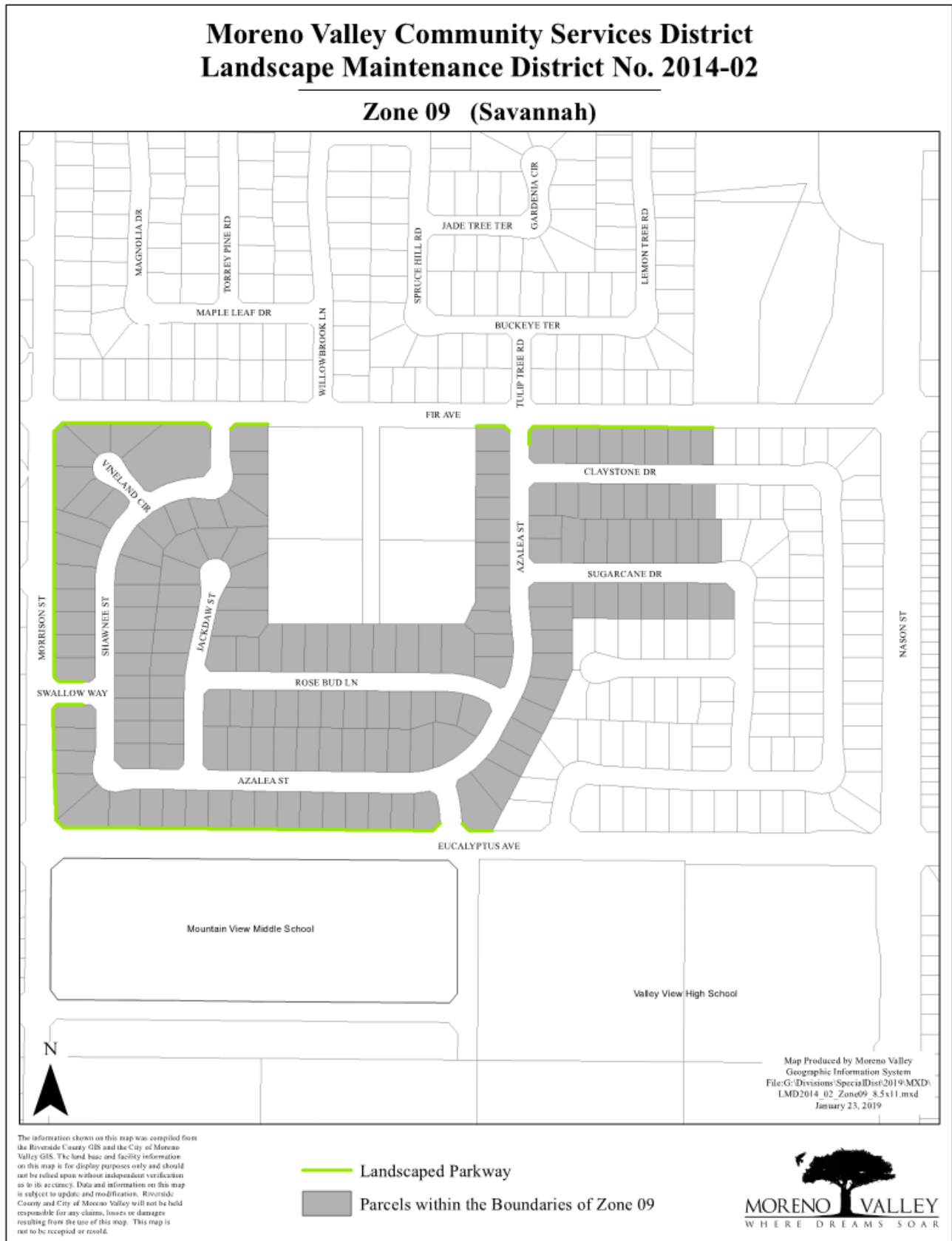
Diagram 4-11



Attachment: LMD 2014-02 Assessment Engineer's Report (3421 : PUBLIC HEARING TO CONFIRM DIAGRAMS AND ASSESSMENTS FOR

4. District Diagrams

Diagram 4-12



Attachment: LMD 2014-02 Assessment Engineer's Report (3421 : PUBLIC HEARING TO CONFIRM DIAGRAMS AND ASSESSMENTS FOR

5. Assessment Roll

ASSESSMENT ROLL

APN identification for each lot or APN within the District is based on available parcel maps and property data from the Riverside County Assessor's Office. A listing of the APNs to be assessed within this District, along with the corresponding assessment amounts to be levied for FY 2019/20 has been provided electronically to the Secretary of the CSD Board (City Clerk). The listing is incorporated herein by reference. The Report can also be found online at the City's website at www.moval.org/sd. If any APN identified therein is submitted for collection and identified by the County Auditor/Controller of the County of Riverside to be an invalid parcel number for any fiscal year, a corrected APN and/or new APN(s) will be identified and resubmitted to the County Auditor/Controller. The assessment amount to be levied and collected for the resubmitted parcel or parcels shall be based on the method of apportionment, as described in this Report and approved by the CSD Board.

APPENDIX A

Capital Improvement Projects



Appendix A Capital Improvement Projects

Long-term Capital Improvement Projects and Rehabilitations included in the FY 2019/20 Budget.

Projects	Zone 01		Zone 02				Zone 03				Zone 03A				Zone 05				Zone 06				Zone 07				Zone 08						
	FY 19/20	FY 20/21	FY 21/22	FY 22/23	FY 23/24	FY 19/20	FY 20/21	FY 21/22	FY 22/23	FY 23/24	FY 19/20	FY 20/21	FY 21/22	FY 22/23	FY 23/24	FY 19/20	FY 20/21	FY 21/22	FY 22/23	FY 23/24	FY 19/20	FY 20/21	FY 21/22	FY 22/23	FY 23/24	FY 19/20	FY 20/21	FY 21/22	FY 22/23	FY 23/24			
Backflow Cage Upgrades	X	X								X	X								X	X				X	X				X	X			
Irrigation/Smart Controller Installations										X	X																						
Lighting Upgrades										X	X																						
Day St/Centerpointe Median Renovations	X	X																															
Median Renovations												X	X																				
Parkway Renovations						X	X							X																			
Stamped concrete on Nason (southern-most median)																		X															

Attachment: LMD 2014-02 Assessment Engineer's Report (3421 : PUBLIC HEARING TO CONFIRM



3750 McCray Street
Riverside, CA 92506
951.200.8600



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Report to City Council

TO: Mayor and City Council Acting in its Capacity as President and Members of the Board of Directors of the Moreno Valley Community Services District (CSD)

FROM: Marshall Eyerman, Chief Financial Officer
Thomas M. DeSantis, City Manager

AGENDA DATE: June 4, 2019

TITLE: FISCAL YEAR 2018/19 THIRD QUARTER BUDGET REVIEW AND APPROVAL OF THE FISCAL YEAR 2018/19 THIRD QUARTER BUDGET AMENDMENTS

RECOMMENDED ACTION

Recommendations: That the City Council:

1. Receive and file the Fiscal Year 2018/19 Third Quarter Budget Review. (Attachment 1)
2. Adopt Resolution No. 2019-XX. A resolution of the City Council of the City of Moreno Valley, California, adopting the revised operating and capital budgets for Fiscal Year (FY) 2018/19.

Recommendation: That the CSD:

1. Adopt Resolution No. CSD 2019-XX. A resolution of the Moreno Valley Community Services District of the City of Moreno Valley, California, adopting the revised operating and capital budget for FY 2018/19.

SUMMARY

This report provides the Third Quarter Budget Report which updates the Mayor and City Council regarding current year financial trends and provides the Fiscal Year (FY) 2018/19 Third Quarter Budget Review through March 31, 2018. This report also requests the approval of recommended amendments to FY 2018/19 revenues and expenditures.

DISCUSSION

On May 2, 2017, the City Council adopted the two-year Budget for Fiscal Years 2017/18 and 2018/19. The budget included all component units of the City, including the General Fund, Community Services District, Housing Authority and Successor Agency. During the two-year budget period, the City Council will be updated of the City's financial condition through the process of Quarterly Budget Reviews. This ongoing process ensures a forum to review expenditure and revenue changes from the estimates made in the budget document. Additionally, any significant changes in projected revenue or unanticipated expenditures that may occur will be presented to the City Council.

This report provides the FY 2018/19 Third Quarter Review for the first 9 months, July thru March. The Third Quarter Budget Review will focus primarily on the City's General Fund. This review will also present nine months operational results from other key funds.

The City Council's direction of "Maintain a Balanced General Fund Budget" serves as a foundation for the fiscal status of City operations. Ongoing funding is directed to sustain ongoing operational expenses; one-time funding is directed toward one-time expenditures. This report identifies the budget adjustments as recommended by the City Manager.

FISCAL YEAR 2018/19 THIRD QUARTER REVIEW:

This Third Quarter Report updates the Mayor and City Council regarding current year financial trends and provides the opportunity for the City Council to review the recommended actions as they relate to revenues and expenditures.

General Fund Revenue Update

Revenue receipts do not follow an even schedule. Although 75% of the fiscal year has elapsed, based on historic trends revenues are estimated to be at approximately 57% of the budgeted amount. Actual revenues received are currently 65% of budget. As the FY 2018/19 revenue estimates were developed prior to the adoption of the budget on May 2, 2017, the revenue estimates may require adjustments based on the current projected actuals. Although there will be variances in some of the amounts budgeted, the total is expected to remain within 1% of the amended budget for the year. It should be noted that the lag in timing of revenue receipts helps illustrate the need for an operating cash reserve throughout the fiscal year.

General Fund Expenditure Update

Although not all expenditures follow a straight-line spending pattern, operating expenditures should track close to within 75% of budget for the year at the end of the first nine months. As of March 31, 2018, total General Fund expenditures were at 63%. This pace is within expectations for most activities in the General Fund.

FISCAL YEAR 2018/19 BUDGET ADJUSTMENTS

The FY 2018/19 General Fund revenue budget, as amended, totals approximately \$111.1 million. Based on economic activity and revenue collections through March 2019, staff is recommending Third Quarter budget increase of \$546,630 to approximately \$111.7 million. The recommended increase includes an alignment with expected revenue projections.

The FY 2018/19 General Fund expenditures budget as currently amended, including one-time expenditures from prior year surplus fund balance, totals approximately \$112.1 million. The recommended Third Quarter budget changes decrease expenditures by \$442,490 to \$111.7 million. The recommended decrease includes a lower than expected contract rate with the Riverside County Sherriff, which were partially offset by an additional \$1.5 million in street improvement appropriations. *The fund continues to be structurally balanced, without the use of fund balance for ongoing operations.* The specific budget adjustments for the General Fund are summarized in Exhibit A attached to the City Council Resolutions recommended for approval.

Fund	Type (Rev/Exp)	FY 2018/19 Amended Budget	Proposed Adjustments (\$)	Proposed Adjustments (%)	FY 2018/19 Amended Budget
General Fund	Rev	\$111,134,727	\$546,630	<1%	\$111,681,357
General Fund	Exp	\$112,096,781	(\$442,490)	<1%	\$111,654,291
Net Total		(\$962,054)	989,120		\$27,066

Summaries of Major Fund Changes for FY 2018/19

The following provides a summary of some of the proposed budget adjustments to other major funds. A complete list of all changes are identified in Exhibit A to the Resolutions.

Special Districts Administration, CFD No. 2014-01, Zone E, LMD 2014-01, Zone D, Zone M, Zone S (Funds 2006, 2050, 5013, 5014, 5111, 5112, 5114)

Increasing revenue by \$128,510 due to higher than projected reimbursements, fees and interest income and adjusting expenditure budget by \$210,740 for projected maintenance and repair, water usage and dues and subscriptions.

Electric – Restricted Assets (Fund 6011)

Increasing budget by \$104,100 for expected electric utility facility installation expenditures and \$100,000 for renewable energy based on trend.

ALTERNATIVES

1. Approve Recommended Actions as set forth in this staff report, including the approval of the budget adjustments for FY 2018/19, as presented in Exhibit A. The approval of these items will allow for ongoing activities to be carried out in the current fiscal year and the City is able to modify budgets and operations as necessary through this quarterly review, while retaining a structurally balanced General Fund budget. *Staff recommends this alternative.*
2. Do not approve proposed Recommended Actions as set forth in this staff report, including the resolutions adopting the budget adjustments to the FY 2018/19 budget, as presented in Exhibit A. *Staff does not recommend this alternative.*

FISCAL IMPACT

The City's Operating and Capital Budgets provide the funding and expenditure plan for all funds. As such, they serve as the City's financial plan for the fiscal year. The fiscal impacts for the proposed budget amendments and carryovers are identified in Exhibit A to the City Resolution.

NOTIFICATION

Publication of the agenda.

PREPARATION OF STAFF REPORT

Prepared By:
Stephanie Cuff
Management Analyst

Department Head Approval:
Marshall Eyerman
Chief Financial Officer/City Treasurer

Concurred By:
Brian Mohan
Financial Resources Division Manager

Approved by:
Thomas M. DeSantis
City Manager

CITY COUNCIL GOALS

Revenue Diversification and Preservation. Develop a variety of City revenue sources and policies to create a stable revenue base and fiscal policies to support essential City services, regardless of economic climate.

Public Safety. Provide a safe and secure environment for people and property in the community, control the number and severity of fire and hazardous material incidents, and provide protection for citizens who live, work and visit the City of Moreno Valley.

Public Facilities and Capital Projects. Ensure that needed public facilities, roadway improvements, and other infrastructure improvements are constructed and maintained.

CITY COUNCIL STRATEGIC PRIORITIES

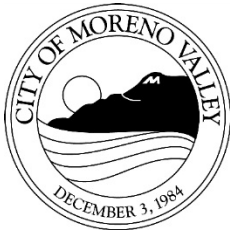
- 1. Economic Development
- 2. Public Safety
- 3. Library
- 4. Infrastructure
- 5. Beautification, Community Engagement, and Quality of Life
- 6. Youth Programs

ATTACHMENTS

- 1. Third Quarter Financial Summary Report FY1819
- 2. City Resolution 2019-XX
- 3. CSD Resolution 2019-XX
- 4. Exhibit A - Proposed Amendments

APPROVALS

Budget Officer Approval	<u>✓ Approved</u>	5/24/19 7:11 AM
City Attorney Approval	<u>✓ Approved</u>	5/29/19 9:26 AM
City Manager Approval	<u>✓ Approved</u>	5/30/19 1:38 PM



City of Moreno Valley

Fiscal Year 2018/19

Third Quarter Financial Summary

TO: Mayor and City Council

FROM: Marshall Eyerman, Chief Financial Officer/City Treasurer

DATE: June 4, 2019

INTRODUCTION

On May 2, 2017, the City Council adopted the Two-Year Operating Budget for Fiscal Years (FY) 2017/18 – 2018/19. During the two-year budget period, the City Council will be kept apprised of the City's financial condition through the process of First Quarter, Mid-Year Budget and Third Quarter Reviews. This ongoing process ensures a forum to look at expenditure and revenue deviations from the estimates made in the budget document. Additionally, any significant changes in projected revenue or unanticipated expenditures that may occur will be shared with the City Council.

This report provides a review of the unaudited financial results at Third Quarter of FY 2018/19 (July 2018 – March 2019, 75% of the fiscal year).

CITYWIDE OPERATING REVENUE FY2016/17

The City ended FY 2016/17 with a budget surplus due to annual savings and reduction of expenses. The surplus reflects that the Operating Budget is being effectively managed and allows for the use of the funds for one-time expenditure. City Council appropriated the remaining \$1,100,000 surplus for street improvements in FY 2018/19.

CITYWIDE OPERATING EXPENDITURE SUMMARY

The following table contains a summary of the adopted budget, amended budget and the Third Quarter expenditures. The totals represent each major fund type and component unit of the City.

Table 1. Citywide Operating Expenditures

	FY 2018/19 Adopted Budget	FY 2018/19 Amended Budget	Actuals as of 3/31/19 (unaudited)	% of Amended Budget
Fund/Component Unit				
General Fund	\$ 104,746,641	\$ 112,096,781	\$ 70,875,736	63.2%
Community Services District (CSD)	20,009,590	21,146,121	13,102,917	62.0%
Successor Agency	4,773,517	4,286,389	2,834,553	66.1%
Housing Fund	250,000	250,000	177,667	71.1%
Special Revenue Funds	34,495,673	66,942,370	28,205,720	42.1%
Capital Projects Funds	3,316,702	19,511,416	4,680,618	24.0%
Electric Utility Funds	27,409,823	67,574,939	31,818,640	47.1%
Internal Service Funds	13,368,800	15,969,644	8,465,746	53.0%
Debt Service Funds	6,538,420	4,327,000	2,645,697	61.1%
Total	\$ 214,909,166	\$ 312,104,660	\$ 162,807,294	52.2%

Actions taken by the City Council subsequent to the May 2, 2017 adoption of the two-year budget and included in the Amended Budget are:

- Throughout the fiscal year, there are also budget amendments to reflect the acceptance of grants and adjustments to contractual services and material/supplies. The individual amendments are reviewed as part of separate City Council agenda items.
 - Remaining \$1.1M of the FY 16/17 General Fund surplus was appropriated for street improvements.
- On June 19, 2018, Council approved lease/purchase agreement and the financing associated with the streetlight purchase from Southern California Edison.

The majority of this Third Quarter update will focus on the General Fund, as it supports all basic services provided to City residents. Highlights for other key component funds will be discussed at a summary level as well.

GENERAL FUND OPERATING

Table 2. General Fund Operations

	FY 2018/19 Adopted Budget	FY 2018/19 Amended Budget	Actuals as of 3/31/2019 (unaudited)	% of Amended Budget
Revenues:				
Taxes:				
Property Tax	\$ 14,422,000	\$ 14,760,000	\$ 8,567,346	58.0%
Property Tax in-lieu	19,000,000	19,920,000	9,788,818	49.1%
Utility Users Tax	16,400,000	16,000,000	11,087,279	69.3%
Sales Tax	18,746,000	19,918,810	12,720,989	63.9%
Other Taxes	12,526,500	12,339,000	7,636,696	61.9%
Licenses & Permits	2,799,824	4,402,072	3,849,812	87.5%
Intergovernmental	463,000	1,009,001	355,332	35.2%
Charges for Services	12,079,871	13,239,463	10,297,382	77.8%
Use of Money & Property	4,220,862	3,497,858	4,719,264	134.9%
Fines & Forfeitures	662,050	662,050	482,295	72.8%
Miscellaneous	69,647	69,647	146,479	210.3%
Total Revenues	\$ 101,389,754	\$ 105,817,901	\$ 69,651,692	65.8%
Expenditures:				
Personnel Services	\$ 17,623,387	\$ 21,226,497	\$ 16,507,135	77.8%
Contractual Services	73,725,763	74,536,650	44,210,978	59.3%
Material & Supplies	3,705,509	5,421,077	2,338,203	43.1%
Fixed Charges	5,739,869	5,824,611	4,269,547	73.3%
Fixed Assets	120,000	74,680	3,157	4.2%
Total Expenditures	\$ 100,914,528	\$ 107,083,515	\$ 67,329,019	62.9%
<i>Excess (Deficiency) of Revenues Over (Under) Expenditures</i>	\$ 475,226	\$ (1,265,614)	\$ 2,322,673	
Transfers:				
Transfers In	\$ 3,426,691	\$ 5,316,826	\$ 2,815,184	52.9%
Transfers Out	3,832,113	5,013,266	3,546,717	70.7%
Net Transfers	\$ (405,422)	\$ 303,560	\$ (731,532)	
Total Revenues & Transfers In	\$ 104,816,445	\$ 111,134,727	\$ 72,466,876	65.2%
Total Expenditures & Transfers Out	104,746,641	112,096,781	70,875,736	63.2%
Net Change of Fund Balance	\$ 69,804	\$ (962,054)	\$ 1,591,141	

General Fund Operating Revenues

The General Fund is comprised of several revenue types. However, the main sources include property tax, utility users tax, and sales tax. Different economic activity cycles and pressures affect each of these.

Table 3. General Fund Operating Revenues

	FY 2018/19 Adopted Budget	FY 2018/19 Amended Budget	Actuals as of 3/31/2019 (unaudited)	% of Amended Budget
Revenues:				
Taxes:				
Property Tax	\$ 14,422,000	\$ 14,760,000	\$ 8,567,346	58.0%
Property Tax in-lieu	19,000,000	19,920,000	9,788,818	49.1%
Utility Users Tax	16,400,000	16,000,000	11,087,279	69.3%
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Use of Money & Property	4,220,862	3,497,858	4,719,264	134.9%
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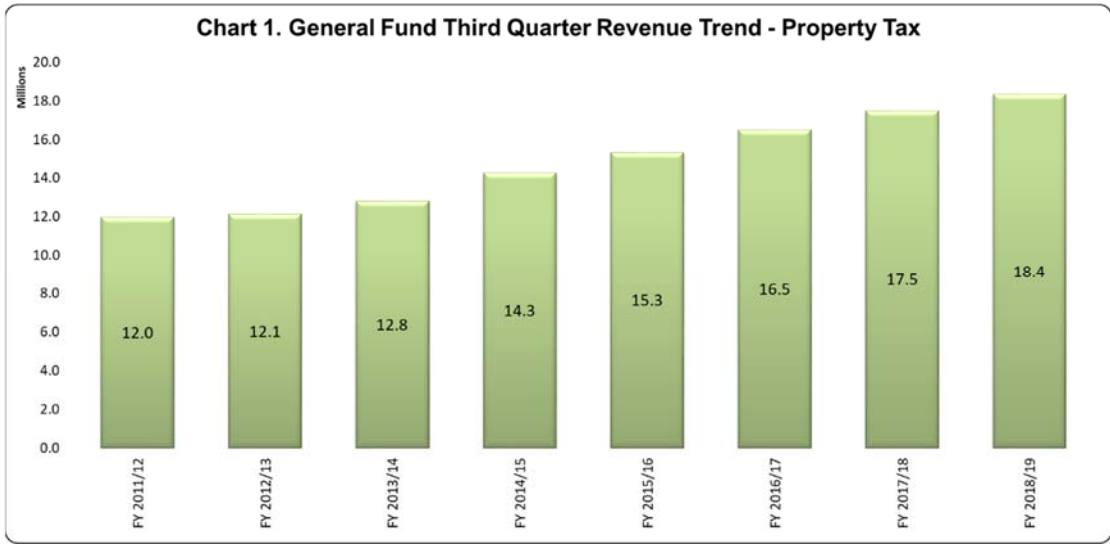
Property Taxes/Property Taxes In-Lieu

Property taxes were budgeted to increase by 4% from the FY 2017/18 Amended Budget. The annual schedule of property tax payments from the County of Riverside will provide payments to the City based on the following estimated schedule:

Secured Property Tax Payment Dates

Settlement 1	January
Settlement 2	May
Settlement 3	August
Teeter Settlement	October

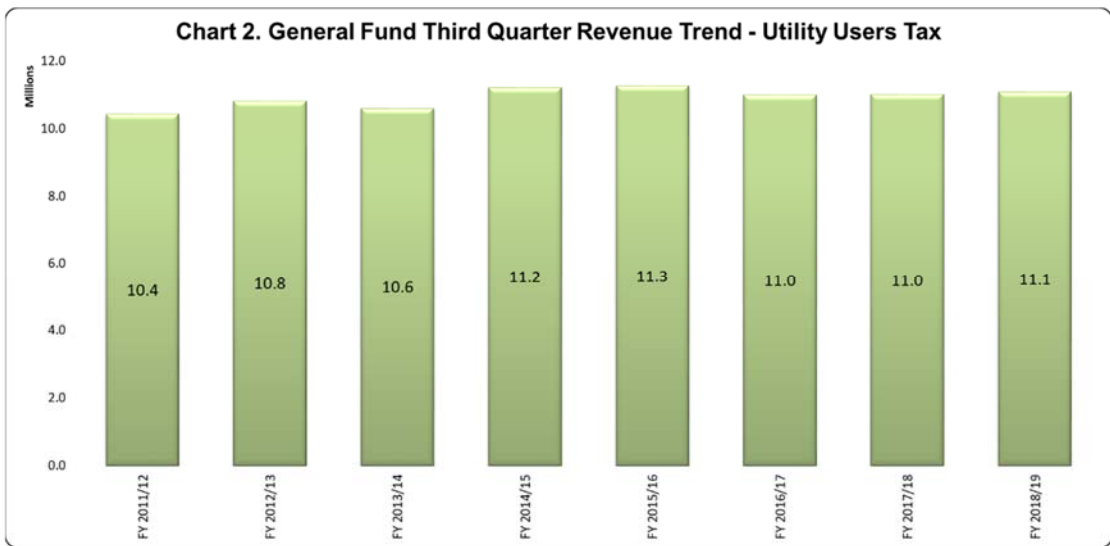
Based on historical averages of actual receipts, the City is estimated to receive 54% of the budgeted property tax revenue through Third Quarter. The City has currently received 53% through Third Quarter. Property taxes will continue to be monitored as property valuations may adjust through the year based on property sales and assessment appeals filed with the County.



Utility Users Tax

Utility Users taxes were budgeted to increase by 1% from the FY 2017/18 Amended Budget. This projection is primarily due to competitive forces within the communications markets. Both the wireless and wired markets experienced downturns year over year. Based on our discussions with utility tax experts, there are a couple of causes for this trend. First is competition and bundling practices within the market as more small players continue to join the market. Second is the migration of customers from contract plans to prepaid plans.

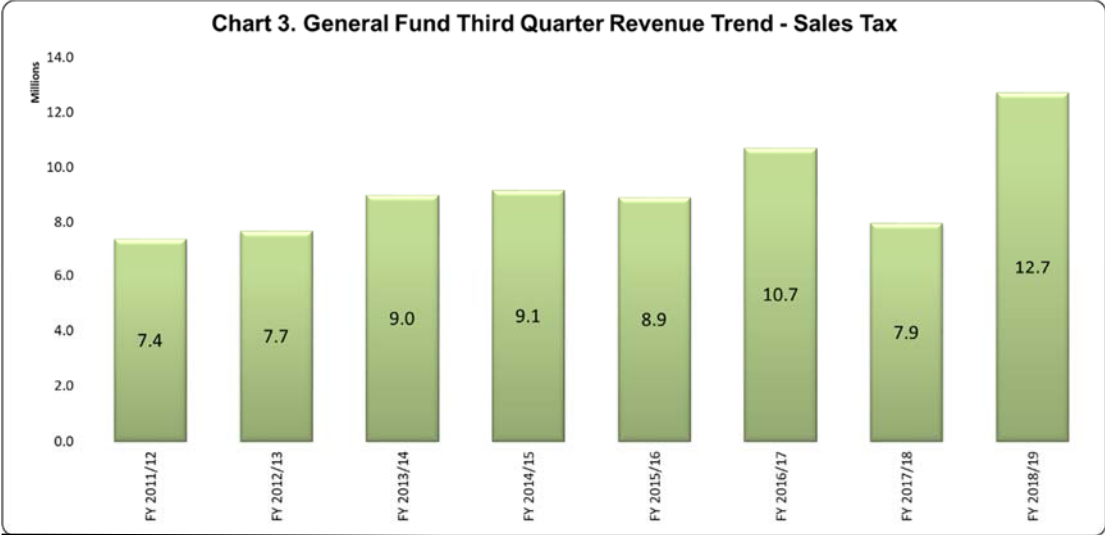
Based on historical averages of actual receipts, the City is estimated to receive 68% of the budgeted utility users tax revenue through Third Quarter. The City has currently received 69% through Third Quarter.



Sales Taxes

Sales taxes were budgeted to increase by 3% from the FY 2017/18 Amended Budget Sales tax receipts will need to be continually monitored through the year to determine if current trends begin to plateau or begin to decrease.

Based on historical averages of actual receipts, the City is estimated to receive 53% of the budgeted sales tax revenue through Third Quarter. The City has currently received 64% through Third Quarter.

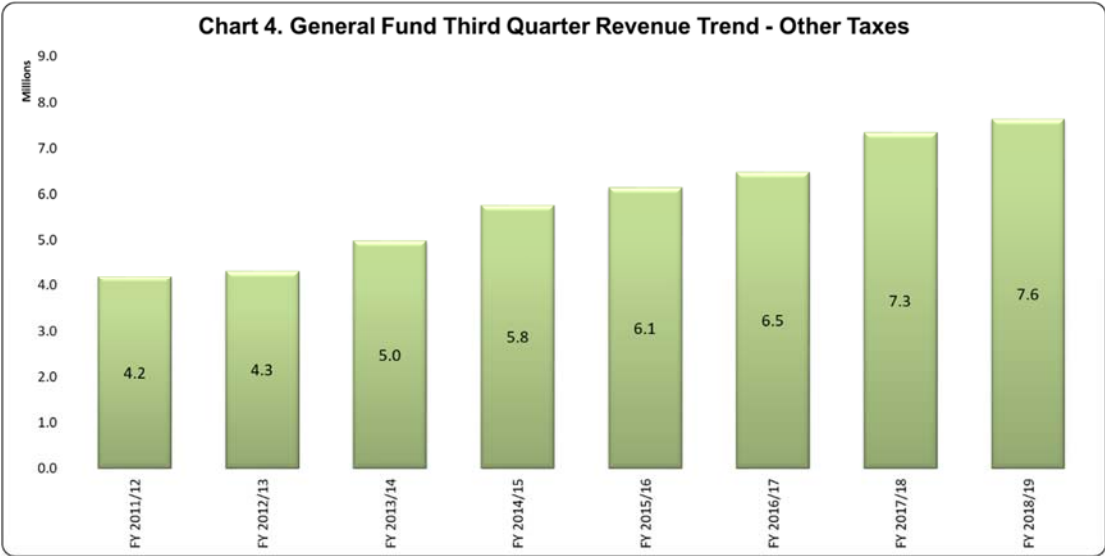


Other Taxes

Other taxes are primarily composed of Business Gross Receipts, Documentary Transfer Tax, Transient Occupancy Tax and Franchise Fees. Collectively, other taxes were budgeted to increase 3% from the FY 2017/18 Amended Budget.

Based on historical averages of actual receipts, the City is estimated to receive 62% of the budgeted Other Taxes revenue through Third Quarter. The City has currently received 62% through Third Quarter.

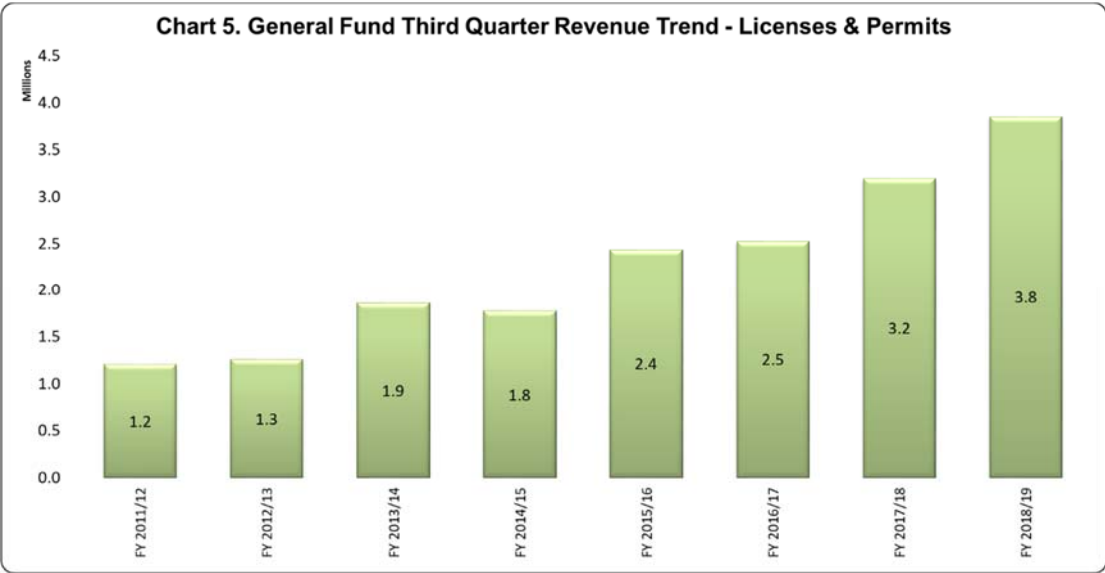
Attachment: Third Quarter Financial Summary Report FY1819 (3603 : FY 18/19 THIRD QTR BUDGET REVIEW & APPROVAL OF THE FISCAL



Licenses & Permits

Licenses & Permits are primarily composed of Business and Animal Licenses, along with Building, Electrical, Mechanical, Plumbing and other permits. Collectively, Licenses & Permits were budgeted to increase by 5% from the FY 2017/18 Amended Budget. This increase reflects increases due to Commercial Cannabis Business Permits. This budget will be monitored for a possible future increase.

Based on historical averages of actual receipts, the City is estimated to receive 93% of the budgeted Licenses & Permits revenue through Third Quarter. The City has currently received 87% through Third Quarter. The higher growth rate is related primarily to the recent building and business license permit activities.

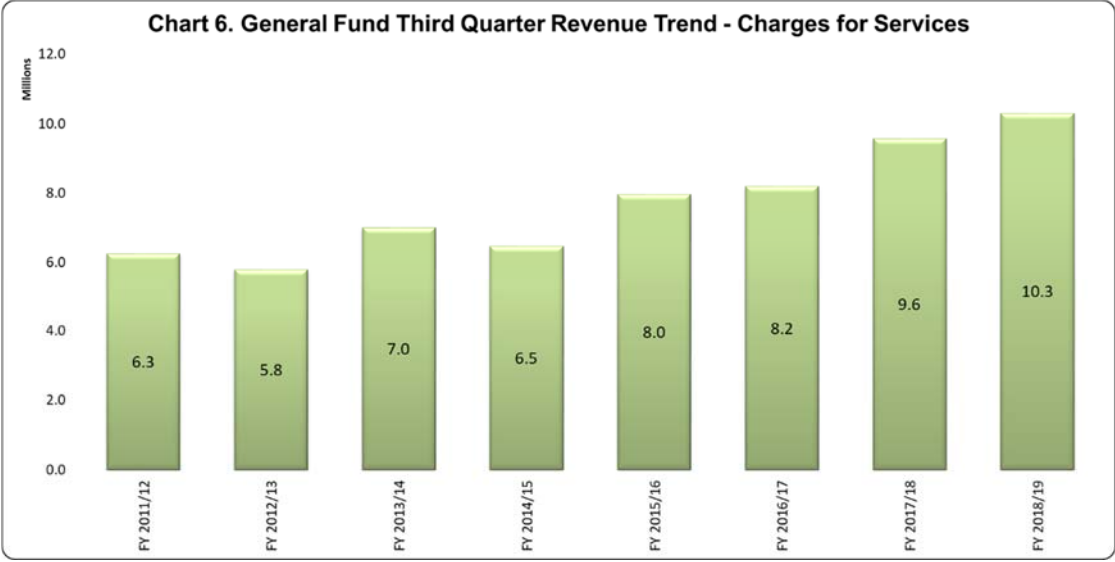


Charges for Services

Charges for Services are primarily composed of Plan Check Fees, Inspection Fees, Administrative Charges to other funds, and Parking Control Fines. Collectively, Charges for

Services were conservatively budgeted to increase by 3% from the FY 2017/18 Amended Budget. This budget will be monitored for a possible future increase.

Based on historical averages of actual receipts, the City is estimated to receive 76% of the budgeted Charges for Services revenue through Third Quarter. The City has currently received 78% through Third Quarter.



Use of Money and Property

Investment income continues to remain low due to extremely low rates of return for fixed income investments, but has increased over the last year due to actions taken by the Federal Open Market Committee. The investments managed by Chandler Asset Management achieved a Yield to Maturity (YTM) for March 2019 of 2.21%. This compares to a YTM in March 2018 of 1.82%. The investments managed by Insight Investments achieved a Yield to Maturity (YTM) for March 2019 of 2.11%. This compares to a YTM in March 2018 of 1.57%. In addition, the City maintained funds in the State Local Agency Investment Fund Pool (LAIF) with a YTM of 2.44%. This is a very low rate of return compared to historical experience, but is indicative of how investment income is performing everywhere, which is the reason the City utilizes the active management approach.

General Fund Expenditures

Expenditures are being spent in-line with prior year expenditures. Each Department's activities will be monitored throughout the year as they may be impacted by different operational activities and project timelines.

Table 4. General Fund Expenditures

Department	FY 2018/19 Adopted Budget	FY 2018/19 Amended Budget	Actuals as of 3/31/2019 (unaudited)	% of Amended Budget
City Council	\$ 1,019,127	\$ 1,252,156	\$ 643,832	51.4%
City Clerk	958,242	968,805	412,882	42.6%
City Manager	6,038,211	6,079,382	4,453,580	73.3%
City Attorney	899,961	893,528	587,853	65.8%
Community Development	9,170,762	10,000,029	6,592,123	65.9%
Economic Development	1,933,827	1,928,168	1,312,967	68.1%
Financial & Management Services	4,370,601	6,378,999	2,999,114	47.0%
Human Resources	1,080,522	1,211,758	940,005	77.6%
Public Works	7,293,505	9,350,294	5,941,276	63.5%
Non-Departmental	4,019,955	5,201,108	5,178,736	99.6%
Non-Public Safety Subtotal	\$ 36,784,713	\$ 43,264,227	\$ 29,062,369	67.2%
Public Safety				
Police	\$ 44,523,283	\$ 45,063,385	\$ 25,517,073	56.6%
Fire	23,438,645	23,769,169	16,296,293	68.6%
Public Safety Subtotal	\$ 67,961,928	\$ 68,832,554	\$ 41,813,367	60.7%
Total	\$ 104,746,641	\$ 112,096,781	\$ 70,875,736	

OTHER KEY FUNDS

The following summaries describe other major funds in the City.

Moreno Valley Community Services District

The Moreno Valley Community Services District (CSD) was formed by the voters in 1984 to collect fees and certain taxes to provide an array of services including parks, recreation and community services, streetlights, landscaping and ongoing maintenance. The CSD provides these services through separate "zones" that define the services that are provided.

For certain zones, the primary revenue source used to provide services to properties is parcel fees or taxes levied on properties via their annual tax bill. Proposition 218, passed by California voters in November 1996, and has posed a serious challenge to managing the future operation of the CSD zones. Prop. 218 requires any revenue increase to be addressed through a voting process by affected property owners. For a period following the initial implementation of Prop. 218, the CSD was successful in receiving approval for some new or increased revenues. There were also revenue increases due to the growth of developed parcels within the zones. However, due to cost increases that exceed any offsetting increases in the revenues over the past years,

and the recent economic downturn slowing new parcel growth, property owners have been resistant to efforts to fully fund service levels.

Table 5. CSD Operations

Community Services District

	FY 2018/19 Adopted Budget	FY 2018/19 Amended Budget	Actuals as of 3/31/2019 (unaudited)	% of Amended Budget
Revenues:				
Taxes:				
Property Tax	\$ 4,610,427	\$ 4,610,427	\$ 2,910,103	63.1%
Other Taxes	6,649,406	6,654,039	3,482,714	52.3%
Charges for Services	6,046,400	5,489,733	3,034,242	55.3%
Use of Money & Property	822,701	893,369	1,013,044	113.4%
Fines & Forfeitures	50,000	50,000	20,992	42.0%
Miscellaneous	13,500	32,700	48,497	148.3%
Transfers In	2,153,113	1,934,475	1,056,647	54.6%
Total Revenues	\$ 20,345,547	\$ 19,664,743	\$ 11,566,239	58.8%
Expenditures:				
Library Services Fund (5010)	\$ 2,433,229	\$ 2,494,590	\$ 1,699,674	68.1%
Zone A Parks Fund (5011)	9,563,447	9,893,481	6,563,380	66.3%
LMD 2014-01 Residential Street Lighting Fund (5012)	1,589,879	1,601,729	957,582	59.8%
Zone C Arterial Street Lighting Fund (5110)	901,354	913,854	542,524	59.4%
Zone D Standard Landscaping Fund (5111)	1,137,750	1,356,695	592,338	43.7%
Zone E Extensive Landscaping Fund (5013)	320,547	335,826	214,212	63.8%
5014 LMD 2014-02	2,389,330	2,723,254	1,480,080	54.3%
Zone M Median Fund (5112)	242,528	330,778	156,717	47.4%
CFD No. 1 (5113)	1,364,358	1,361,821	843,611	61.9%
Zone S (5114)	67,168	68,093	39,444	57.9%
5211 Zone A Parks - Restricted Assets	0	66,000	13,356	20%
Total Expenditures	\$ 20,009,590	\$ 21,146,121	\$ 13,102,917	62.0%
Net Change or Adopted Use of Fund Balance	\$ 335,957	\$ (1,481,378)	\$ (1,536,678)	

Community Services District Zone A – Parks & Community Services

The largest Zone within the CSD is Zone A. It accounts for the administration and maintenance of the Parks & Community Services facilities and programs. Funding sources for these services come from a combination of property taxes, fees for service and smaller amounts from other City funds.

Table 6. CSD Zone A Operations

	FY 2018/19 Adopted Budget	FY 2018/19 Amended Budget	Actuals as of 3/31/2019 (unaudited)	% of Amended Budget
Revenues:				
Taxes:				
Property Tax	\$ 2,403,800	\$ 2,403,800	\$ 1,488,815	61.9%
Other Taxes	4,930,000	4,930,000	2,621,514	53.2%
Charges for Services	1,182,900	1,215,500	777,486	64.0%
Use of Money & Property	761,601	832,269	711,398	85.5%
Miscellaneous	11,500	30,700	43,410	141.4%
Transfers In	524,084	714,222	582,165	81.5%
Total Revenues	\$ 9,813,885	\$ 10,126,491	\$ 6,224,788	61.5%
Expenditures:				
35010 Parks & Comm Svcs - Admin	\$ 472,792	\$ 472,792	\$ 359,473	76.0%
35210 Park Maintenance - General	3,500,190	3,717,353	2,373,418	63.8%
35211 Contract Park Maintenance	508,471	508,471	253,097	49.8%
35212 Park Ranger Program	375,038	375,038	252,542	67.3%
35213 Golf Course Program	389,707	389,707	273,243	70.1%
35214 Parks Projects	211,309	211,309	153,021	72.4%
35310 Senior Program	571,579	575,779	402,533	69.9%
35311 Community Services	199,496	215,957	149,313	69.1%
35312 Community Events	98,937	151,533	106,976	70.6%
35313 Conf & Rec Cntr	557,610	593,095	398,265	67.2%
35314 Conf & Rec Cntr - Banquet	361,414	365,567	257,016	70.3%
35315 Recreation Programs	1,466,791	1,419,193	945,467	66.6%
35317 July 4th Celebration	132,183	132,183	64,443	48.8%
35318 Sports Programs	645,805	693,379	484,151	69.8%
35319 Towngate Community Center	72,125	72,125	48,919	67.8%
95011 Non-Dept Zone A Parks	-	-	41,502	0.0%
Total Expenditures	\$ 9,563,447	\$ 9,893,481	\$ 6,563,380	66.3%
Net Change or				
Adopted Use of Fund Balance	\$ 250,438	\$ 233,010	\$ (338,592)	

Electric Utility

The Moreno Valley Utility (MVU) manages the operation, maintenance and business planning of the City's electric utility. MVU's basic purpose is to purchase and distribute electricity to customers in newly developed areas of the City. The City began serving new customers in February 2004, and now serves more than 6,674 customers. As it reaches fiscal and operational maturity, MVU will continue to be a key component of the City's economic development strategy. The City Council has established special tiered rates for electric utility customers based upon factors such as the number of jobs created.

The main revenue source for this fund is derived from charges for services. The customer base includes residential, commercial and industrial customers. The growth in customer base will continue to provide for the ability to create rate stabilization and replacement reserve funding.

Table 7. MVU Operations

	FY 2018/19 Adopted Budget	FY 2018/19 Amended Budget	Actuals as of 3/31/2019 (unaudited)	% of Amended Budget
Revenues:				
Taxes:				
Charges for Services	\$ 31,641,643	\$ 31,641,643	\$ 23,397,952	73.9%
Use of Money & Property	155,500	155,500	335,798	215.9%
Miscellaneous	141,500	141,500	1,163,479	822.2%
Transfers In	-	8,030,892	8,030,892	100.0%
Total Revenues	\$ 31,938,643	\$ 39,969,535	\$ 32,928,121	82.4%
Expenditures:				
45510 Electric Utility - General	\$ 21,963,138	\$ 31,758,853	\$ 16,029,910	50.5%
45511 Public Purpose Program	2,060,185	2,060,185	847,286	41.1%
45512 SCE Served Street Lights	-	-	42,092	0.0%
80005 CIP - Electric Utility	5,000	22,605,155	5,195,924	23.0%
96010 Non-Dept Electric	-	5,354	18,334	342.4%
96030 Non-Dept 2005 Lease Revenue Bonds	1,550,000	1,550,000	478,341	30.9%
96021 Non-Dept 2016 Tax LRB of 07 Tax	867,700	867,700	435,588	50.2%
96031 Non-Dept 2013 Refunding 05 LRB	179,500	37,500	162,291	432.8%
96032 Non-Dept 2014 Refunding 2005 LRB	119,300	119,300	59,886	50.2%
96040 Non-Dept 2015 Taxable LRB	665,000	460,000	438,097	95.2%
96050 Non-Dept 2018 Streetlight Fin	-	8,110,892	8,110,892	100.0%
Total Expenditures	\$ 27,409,823	\$ 67,574,939	\$ 31,818,640	47.1%
Net Change or Adopted Use of Fund Balance	\$ 4,528,820	\$ (27,605,404)	\$ 1,109,481	

MVU's revenues and expenses will fluctuate annually based on energy demands.

- On June 19, 2018, Council approved lease/purchase agreement and the financing associated with the streetlight purchase from Southern California Edison (96050).

SUMMARY

The City of Moreno Valley is experiencing certain levels of growth and continues to maintain a structurally balanced Budget without the use of reserves.

Although the City has experienced positive results in some areas through FY 2017/18 and through the Third Quarter of FY 2018/19, the City should look toward the future with constrained optimism as we proceed through the fiscal year.

As positive fund balances begin to grow, we will bring back to the City Council for discussion options to address the other challenges and unfunded liabilities.

RESOLUTION NO. 2019-XX

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, ADOPTING THE REVISED OPERATING AND CAPITAL BUDGETS FOR FISCAL YEAR 2018/19

WHEREAS, the City Council approved the Operating and Capital Budgets for the City for Fiscal Year 2018/19, a copy of which, as may have been amended by the City Council, is on file in the Office of the City Clerk and is available for public inspection; and

WHEREAS, the City Council approves amendments to the budgets throughout the fiscal year and such prior amendments are reflected within the current amended budget and further ratified as part of the adoption of the quarterly budget amendments; and

WHEREAS, the City Manager has heretofore submitted to the City Council proposed amendments to the Operating and Capital Budgets for the City for Fiscal Year 2018/19, a copy of which, as may have been amended by the City Council, is on file in the Office of the City Clerk and is available for public inspection; and

WHEREAS, the said proposed amendments to the Operating and Capital Budgets contain estimates of the services, activities and projects comprising the budget, and contains expenditure requirements and the resources available to the City; and

WHEREAS, the said proposed amendments to the Operating and Capital Budgets contain the estimates of uses of fund balance as required to stabilize the delivery of City services during periods of operational deficits; and

WHEREAS, the City Council has made such revisions to the proposed amended Operating and Capital Budgets as so desired; and

WHEREAS, the amended Operating and Capital Budgets, as herein approved, will enable the City Council to make adequate financial plans and will ensure that City officers can administer their respective functions in accordance with such plans.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

1. The proposed amendments to the Operating and Capital Budgets, as Exhibit A to this Resolution and as on file in the Office of the City Clerk, and as may have been amended by the City Council, are hereby approved and adopted as the annual Operating and Capital Budgets of the City of Moreno Valley for Fiscal Year 2018/19.

1
Resolution No. 2019-XX
Date Adopted: June 4, 2019

- 2. The amounts of proposed expenditures, which include the uses of fund balance specified in the approved budget, are hereby appropriated for the various budget programs and units for said fiscal year.
- 3. Within fifteen (15) days after the adoption of this Resolution, the City Clerk shall certify to the adoption hereof and, as so certified, cause a copy to be posted in at least three (3) public places within the City.

BE IT FURTHER RESOLVED that this Resolution shall take effect immediately upon its adoption.

APPROVED AND ADOPTED this 4th day of June, 2019.

Mayor of the City of Moreno Valley

ATTEST:

City Clerk

APPROVED AS TO FORM:

City Attorney

2
Resolution No. 2019-XX
Date Adopted: June 4, 2019

RESOLUTION JURAT

STATE OF CALIFORNIA)
COUNTY OF RIVERSIDE) ss.
CITY OF MORENO VALLEY)

I, Pat Jacquez-Nares, City Clerk of the City of Moreno Valley, California, do hereby certify that Resolution No. 2019-XX was duly and regularly adopted by the City Council of the City of Moreno Valley at a regular meeting thereof held on the 4th day of June, 2019 by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Council Members, Mayor Pro Tem and Mayor)

CITY CLERK

(SEAL)

Resolution No. 2019-XX³
Date Adopted: June 4, 2019

Attachment: City Resolution 2019-XX (3603 : FY 18/19 THIRD QTR BUDGET REVIEW & APPROVAL OF THE FISCAL YEAR 2018/19 THIRD

RESOLUTION NO. CSD 2019-XX

A RESOLUTION OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, ADOPTING THE REVISED OPERATING AND CAPITAL BUDGETS FOR FISCAL YEAR 2018/19

WHEREAS, the CSD Board approved the Operating and Capital Budgets for the City for Fiscal Year 2018/19, a copy of which, as may have been amended by the CSD Board, is on file in the Office of the City Clerk and is available for public inspection; and

WHEREAS, the CSD Board approves amendments to the budgets throughout the fiscal year and such prior amendments are reflected within the current amended budget and further ratified as part of the adoption of the quarterly budget amendments; and

WHEREAS, the City Manager has heretofore submitted to the President and Board Members of the Moreno Valley Community Services District proposed amendments to the Operating and Capital Budgets for the District for Fiscal Year 2018/19, a copy of which, as may have been amended by the District's Board of Directors, is on file in the Office of the City Clerk and is available for public inspection; and

WHEREAS, the said proposed amendments to the Operating and Capital Budgets contain estimates of the services, activities and projects comprising the budget, and contain expenditure requirements and the resources available to the Community Services District; and

WHEREAS, the said proposed amendments to the Operating and Capital Budgets contain the estimates of uses of fund balance as required to stabilize the delivery of CSD services during periods of operational deficits; and

WHEREAS, the President and Board of Directors have made such revisions to the proposed amended Operating and Capital Budgets as so desired; and

WHEREAS, the amended Operating and Capital Budgets, as herein approved, will enable the Community Services District to make adequate financial plans and will ensure that District officers can administer their respective functions in accordance with such plans.

NOW, THEREFORE, THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

1. The proposed amendments to the Operating and Capital Budgets, as Exhibit

1
Resolution No. CSD 2019-XX
Date Adopted: June 4, 2019

A to this Resolution and as on file in the Office of the City Clerk, and as may have been amended by the Community Services District's Board of Directors, is hereby approved and adopted as the annual Operating and Capital Budgets of the Moreno Valley Community Services District for the Fiscal Year 2018/19.

- 2. The amounts of proposed expenditures, which include the uses of fund balance specified in the approved budget, are hereby appropriated for the various budget programs and units for said fiscal year.
- 3. Within fifteen (15) days after the adoption of this Resolution, the City Clerk shall certify to the adoption hereof and, as so certified, cause a copy to be posted in at least three (3) public places within the City.

BE IT FURTHER RESOLVED that this Resolution shall take effect immediately upon its adoption.

APPROVED AND ADOPTED this 4th day of June, 2019.

 Mayor of the City of Moreno Valley,
 Acting in the capacity of President of the
 Moreno Valley Community Services District

ATTEST:

 City Clerk, acting in the capacity of
 Secretary of the Moreno Valley
 Community Services District

APPROVED AS TO FORM:

 City Attorney, acting in the capacity
 of General Counsel of the Moreno
 Valley Community Services District

RESOLUTION JURAT

STATE OF CALIFORNIA)

COUNTY OF RIVERSIDE) ss.

2
 Resolution No. CSD 2019-XX
 Date Adopted: June 4, 2019

CITY OF MORENO VALLEY)

I, Pat Jacquez-Nares, Secretary of the Moreno Valley Community Services District, Moreno Valley, California do hereby certify that Resolution No. CSD 2019-XX was duly and regularly adopted by the Board of Directors of the Moreno Valley Community Services District at a regular meeting held on the 4th day of June, 2019 by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Board members, Vice-President and President)

SECRETARY

(SEAL)

**CITY OF MORENO VALLEY
GENERAL FUND
FY 2018/19 Proposed Amendments**

Department	Fund	Account Description	General Ledger Account	Project	Fiscal Year 2018/19 Amended Budget	Proposed Amendment	Revised Budget	Description - Proposed Adjustment
Community Development	1010	Abandoned Vehicle Abatement	1010-20-26-20110-480140		\$ 338,000	\$ (324,940)	\$ 13,060	Adjustment is needed for projected revenues/reimbursements.
Community Development	1010	Special Inspection Fees	1010-20-26-20110-520000		177,430	(82,430)	95,000	Adjustment is needed for projected revenues/reimbursements.
Community Development	1010	Building Permits	1010-20-28-20310-425000		1,885,000	315,000	2,200,000	Adjustment due to expected increase in Building activity.
Financial & Management Services	1010	Transfers in - from DIF - Administration	1010-99-99-91010-802914		10,000	50,000	60,000	Budgeting for expected consulting work, offset with a DIF transfer.
Financial & Management Services	1010	Property Tax - Teeter/Del Tax	1010-99-99-91010-401050		161,000	(56,000)	105,000	Aligning with revenue projections.
Financial & Management Services	1010	Property Tax in Lieu-VLF	1010-99-99-91010-401060		19,920,000	(320,000)	19,600,000	Aligning with revenue projections.
Financial & Management Services	1010	Interest Income - Investments	1010-99-99-91010-460010		2,000,000	900,000	2,900,000	Aligning with revenue projections.
Financial & Management Services	1010	Investment Gains/Losses	1010-99-99-91010-464000		200,000	(200,000)	-	Aligning with revenue projections.
Financial & Management Services	1010	Franchise In Lieu Fees	1010-99-99-91010-500020		310,000	260,000	570,000	Aligning with revenue projections.
Financial & Management Services	1010	False Alarm Fees	1010-30-37-25210-500100		70,000	(20,000)	50,000	Aligning with revenue projections.
Financial & Management Services	1010	Lease Payments - Sub-Agents	1010-99-99-91010-463070		-	25,000	25,000	City Hall parking lot solar lease.
REVENUE TOTAL					\$ 25,071,430	\$ 546,630	\$ 25,618,060	
Financial & Management Services	1010	Transfers to - GENERAL PLAN AMENDMENTS	1010-99-99-91010-902018		-	200,000	200,000	Additional General Plan funding.
Financial & Management Services	1010	Transfers to GENERAL LIABILITY INS FUND	1010-99-99-91010-907010		-	525,000	525,000	Replenishment of fund balance
Financial & Management Services	1010	Transfers to COMM DEV BLK GRANTS (CDBG)	1010-99-99-91010-902512		-	800,000	800,000	Additional street funding.
Human Resources	1010	Professional Svcs - Other	1010-18-21-18020-620299		75,977	25,000	100,977	Allocating budget for consultant services.
Police	1010	Agency Svcs - Cnty	1010-60-66-40110-620320		25,543,581	(1,606,923)	23,936,658	The Riverside County Sheriff's Contract rate came in lower than projected.
Police	1010	Agency Svcs - Cnty	1010-60-67-40210-620320		6,688,598	(395,514)	6,293,084	The Riverside County Sheriff's Contract rate came in lower than projected.
Police	1010	Agency Svcs - Cnty	1010-60-69-40410-620320		6,410,633	(498,956)	5,911,677	The Riverside County Sheriff's Contract rate came in lower than projected.
Public Works	1010	Transfers to LMD 2014-01	1010-99-99-91010-905012		\$ 500,000	\$ (151,816)	\$ 348,184	Adjusting budget to align with needed transfers.
Public Works	1010	Transfers to ZONE "C" ART LGHT FUND	1010-99-99-91010-905110		325,000	(299,150)	25,850	Adjusting budget to align with needed transfers.
Public Works	1010	Reimbursed Indirect Costs	1010-70-77-45210-680410		(85,000)	85,000	-	Aligning budget with expected reimbursements from grants or special revenues
Public Works	1010	Salaries-Reimbursable (In/Out)	1010-70-77-45210-611510		(991,014)	174,869	(816,145)	Aligning budget with expected reimbursements from grants or special revenues
Public Works	1010	Transfers to CAPITAL PROJECTS REIMBURSEM	1010-99-99-91010-903008		1,100,000	700,000	1,800,000	Additional street funding.
EXPENSES TOTAL					\$ 39,567,775	\$ (442,490)	\$ 39,125,285	

Attachment: Exhibit A - Proposed Amendments [Revision 1] (3603 : FY 18/19 THIRD QTR BUDGET

**CITY OF MORENO VALLEY
NON - GENERAL FUND
FY 2018/19 Proposed Amendments**

Department	Fund	Account Description	General Ledger Account	Project	Fiscal Year 2018/19 Amended Budget	Proposed Amendment	Revised Budget	Description - Proposed Adjustment
Financial & Management Services	2018	Transfers in - from GENERAL FUND	2018-99-99-92018-801010		-	200,000	200,000	Additional General Plan funding.
Financial & Management Services	7010	Transfers in - from GENERAL FUND	7010-99-99-97010-801010		-	525,000	525,000	Replenishment of fund balance
Financial & Management Services	2512	Transfers in - from GENERAL FUND	2512-99-99-92512-801010		-	800,000	800,000	Additional street funding.
Parks & Community Services	5011	Transfers in - from EQUIP REPLACEMENT (FURN & EQUIP)	5011-99-99-95011-807510		\$ 185,985	\$ 7,955	\$ 193,940	Replacing volleyball net system in Conference and Recreation Center.
Public Works	5014	Reimbursement Agreement	5014-70-79-25721-500600	SD LMD ZN 01-TG	2,500	1,500	4,000	Increasing budget to align with expected reimbursements.
Public Works	5014	Reimbursement Agreement	5014-70-79-25721-500600	SD LMD ZN 07-CEL	2,500	4,000	6,500	Increasing budget to align with expected reimbursements.
Public Works	2006	Other Fees	2006-70-79-25701-509000		66,900	23,100	90,000	Increasing budget to align with expected plan review fees.
Public Works	5110	Advanced Energy Fees	5110-70-79-25703-501100		10,000	(10,000)	-	Decreasing budget to align with project expenditures.
Public Works	5012	Property Tax - Secured	5012-70-79-25703-401000		80,300	27,400	107,700	Property taxes are higher than projected.
Public Works	5012	Property Tax - Unsecured	5012-70-79-25703-401010		4,100	1,660	5,760	Property taxes are higher than projected.
Public Works	5012	Property Tax - Redevelopment Redistribution	5012-70-79-25703-401065		3,100	6,700	9,800	Property taxes are higher than projected.
Public Works	5110	Property Tax - Unsecured	5110-70-79-25703-401010		5,500	1,100	6,600	Property taxes are higher than projected.
Public Works	5110	Property Tax - Redevelopment Redistribution	5110-70-79-25703-401065		30,000	50,460	80,460	Property taxes are higher than projected.
Public Works	2006	Interest Income - Investments	2006-70-79-25701-460010		6,100	19,400	25,500	Interest income is higher than projected.
Public Works	2050	Interest Income - Investments	2050-70-79-25722-460010		700	3,900	4,600	Interest income is higher than projected.
Public Works	5013	Interest Income - Investments	5013-70-79-25705-460010		25,200	18,800	44,000	Interest income is higher than projected.
Public Works	5014	Interest Income - Investments	5014-70-79-25721-460010	SD LMD ZN 01-TG	44,900	3,637	48,537	Interest income is higher than projected.
Public Works	5014	Interest Income - Investments	5014-70-79-25721-460010	SD LMD ZN 01A-RP	44,900	768	45,668	Interest income is higher than projected.
Public Works	5014	Interest Income - Investments	5014-70-79-25721-460010	SD LMD ZN 02-HS	44,900	6,895	51,795	Interest income is higher than projected.
Public Works	5014	Interest Income - Investments	5014-70-79-25721-460010	SD LMD ZN 03-MVRW	44,900	7,319	52,219	Interest income is higher than projected.
Public Works	5014	Interest Income - Investments	5014-70-79-25721-460010	SD LMD ZN 03A-LPP	44,900	574	45,474	Interest income is higher than projected.
Public Works	5014	Interest Income - Investments	5014-70-79-25721-460010	SD LMD ZN 05-SR	44,900	2,519	47,419	Interest income is higher than projected.
Public Works	5014	Interest Income - Investments	5014-70-79-25721-460010	SD LMD ZN 06-MF	44,900	2,464	47,364	Interest income is higher than projected.
Public Works	5014	Interest Income - Investments	5014-70-79-25721-460010	SD LMD ZN 07-CEL	44,900	4,542	49,442	Interest income is higher than projected.
Public Works	5014	Interest Income - Investments	5014-70-79-25721-460010	SD LMD ZN 08-SM	44,900	1,378	46,278	Interest income is higher than projected.
Public Works	5014	Interest Income - Investments	5014-70-79-25721-460010	SD LMD ZN 09-SV	44,900	624	45,524	Interest income is higher than projected.
Public Works	5111	Interest Income - Investments	5111-70-79-25704-460010		11,900	20,100	32,000	Interest income is higher than projected.
Public Works	5112	Interest Income - Investments	5112-70-79-25719-460010		4,600	6,400	11,000	Interest income is higher than projected.
Public Works	5114	Interest Income - Investments	5114-70-79-25720-460010		1,000	590	1,590	Interest income is higher than projected.
Public Works	5012	Transfers in - from GENERAL FUND	5012-99-99-95012-801010		500,000	(151,816)	348,184	Adjusting budget to align with needed transfers.
Public Works	5110	Transfers in - from GENERAL FUND	5110-99-99-95110-801010		325,000	(299,150)	25,850	Adjusting budget to align with needed transfers.
Public Works	3002	Reimbursement Agreement	3002-99-99-93002-500600	804 0007 70 77-3002-98	5,328,399	(1,081,500)	4,246,899	Updating project budget due to a delay in Riverside County Flood Control funding.
Public Works	3002	Reimbursement Agreement	3002-99-99-93002-500600	804 0015-3002-98	5,328,399	(1,568,000)	3,760,399	Updating project budget due to a delay in Riverside County Flood Control funding.
Public Works	3002	Reimbursement Agreement	3002-99-99-93002-500600	801 0011 70 77-3002-98	5,328,399	(2,203,899)	3,124,500	Updating project budget due to a delay in Riverside County Flood Control funding.
Public Works	3008	Transfers in - from GENERAL FUND	3008-99-99-93008-801010		1,100,000	700,000	1,800,000	Additional street funding.
Public Works	2000	State Gas Tax 2107	2000-99-99-92000-408000		1,526,167	(19,973)	1,506,194	Revised budgets based on projected revenue.
Public Works	2000	State Gas Tax 2106	2000-99-99-92000-408020		722,221	(5,556)	716,665	Revised budgets based on projected revenue.
Public Works	2000	State Gas Tax 2105	2000-99-99-92000-408030		1,162,033	(8,817)	1,153,216	Revised budgets based on projected revenue.
Public Works	2000	State Gas Tax 2103	2000-99-99-92000-408040		736,511	25,051	761,562	Revised budgets based on projected revenue.
Public Works	2000	State Gas Tax - RMRA	2000-99-99-92000-408060		3,292,736	(8,558)	3,284,178	Revised budgets based on projected revenue.
REVENUE TOTAL					\$ 26,239,250	\$ (2,883,433)	\$ 23,355,817	

Attachment: Exhibit A - Proposed Amendments [Revision 1] (3603 : FY 18/19 THIRD QTRTR BUDGET

**CITY OF MORENO VALLEY
NON - GENERAL FUND
FY 2018/19 Proposed Amendments**

Department	Fund	Account Description	General Ledger Account	Project	Fiscal Year 2018/19 Amended Budget	Proposed Amendment	Revised Budget	Description - Proposed Adjustment
Financial & Management Services	7220	Depreciation	7220-99-99-97220-694110		550,000	(150,000)	400,000	Adjusting budget to align with the depreciation trend.
Financial & Management Services	2914	Transfers to GENERAL FUND	2914-99-95-92914-901010		10,000	50,000	60,000	Budgeting for expected consulting work, offset a DIF transfer.
Financial & Management Services	6011	Improvements Other than Bldg	6011-30-80-45510-660610		419,380	104,100	523,480	Allocating budget for the electric facility installation.
Financial & Management Services	6011	Depreciation	6011-99-99-96011-694110		1,550,000	225,000	1,775,000	Adjusting budget to align with the depreciation trend.
Financial & Management Services	6011	Amortization - Utility Distribution System	6011-99-99-96011-694112		0	176,872	176,872	Allocating budget for amortization payment.
Financial & Management Services	6010	Renewable Energy	6010-30-80-45510-710148		1,044,600	100,000	1,144,600	Aligning budget with expected expenditures.
Financial & Management Services	7430	Transfers to GENERAL FUND	7430-99-99-97430-901010		2,466,691	1,407,562	3,874,253	Balancing transfers in and out.
Financial & Management Services	2018	Contractual Svcs - Other	2018-99-99-92018-625099		1,750,000	200,000	1,950,000	Additional General Plan funding.
Financial & Management Services	6012	License fee	6012-30-80-45511-694020		0	25,000	25,000	City Hall parking lot solar lease.
Financial & Management Services	2902	Developer Refunds	2902-99-95-92902-680312		0	325,000	325,000	Adjusting budget to align with projected expenditures.
Parks & Community Services	7510	Transfers to ZONE "A" PARKS FUND	7510-99-97-88190-905011		185,985	7,955	193,940	Replacing volleyball net system in Conference and Recreation Center.
Parks & Community Services	5011	Mach-Equip-Repl - Furn & Equip	5011-50-58-35313-660320		26,485	7,955	34,440	Replacing volleyball net system in Conference and Recreation Center.
Parks & Community Services	5211	Mach-Equip-Repl - Furn & Equip	5211-50-57-35210-660320		33,000	(33,000)	-	Adjusting budget to align with equipment allocation.
Public Works	5013	Maint & Repair - Bldg & Ground	5013-70-79-25713-620910		74,700	3,400	78,100	Budgeting for expected expenses with tree removal.
Public Works	5013	Maint & Repair - Bldg & Ground	5013-70-79-25714-620910		97,100	14,000	111,100	Replanting of the parkway.
Public Works	5014	Maint & Repair - Bldg & Ground	5014-70-79-25721-620910	SD LMD ZN 03A-LPP	1,460,500	1,000	1,461,500	Allocating budget for replants and irrigation repairs.
Public Works	5112	Maint & Repair - Bldg & Ground	5112-70-79-25719-620910		152,800	15,000	167,800	Allocating budget for replants and irrigation repairs.
Public Works	5014	Maint & Repair - Improvements	5014-70-79-25721-620920	SD LMD ZN 02-HS	65,800	2,900	68,700	Allocating budget for median light upgrades.
Public Works	5014	Oper Mtrls - Other	5014-70-79-25721-630399	SD LMD ZN 04-MVRE	400	500	900	Purchase of recycled water signs to comply with EMWD requirements.
Public Works	5014	Oper Mtrls - Other	5014-70-79-25721-630399	SD LMD ZN 07-CEL	400	250	650	Purchase of recycled water signs to comply with EMWD requirements.
Public Works	5013	Utilities - Water	5013-70-79-25714-621030		9,100	4,200	13,300	Budgeting for expected expenditures in water usage.
Public Works	5014	Utilities - Water	5014-70-79-25721-621030	SD LMD ZN 02-HS	427,700	43,600	471,300	Budgeting for expected expenditures in water usage.
Public Works	5014	Utilities - Water	5014-70-79-25721-621030	SD LMD ZN 03-MVRW	427,700	1,400	429,100	Budgeting for expected expenditures in water usage.
Public Works	5014	Utilities - Water	5014-70-79-25721-621030	SD LMD ZN 05-SR	427,700	12,400	440,100	Budgeting for expected expenditures in water usage.
Public Works	5014	Utilities - Water	5014-70-79-25721-621030	SD LMD ZN 06-MF	427,700	3,100	430,800	Budgeting for expected expenditures in water usage.
Public Works	5014	Utilities - Water	5014-70-79-25721-621030	SD LMD ZN 08-SM	427,700	3,200	430,900	Budgeting for expected expenditures in water usage.
Public Works	5111	Utilities - Water	5111-70-79-25704-621030		237,900	78,600	316,500	Budgeting for expected expenditures in water usage.
Public Works	5112	Utilities - Water	5112-70-79-25719-621030		69,800	18,000	87,800	Budgeting for expected expenditures in water usage.
Public Works	2050	Dues & Subscriptions	2050-70-79-25722-625030		10	30	40	Three year subscription to Maxicom Service and expected expenditures in Dig Alert Services.
Public Works	5013	Dues & Subscriptions	5013-70-79-25705-625030		160	1,180	1,340	Three year subscription to Maxicom Service and expected expenditures in Dig Alert Services.
Public Works	5014	Dues & Subscriptions	5014-70-79-25721-625030	SD LMD ZN 01-TG	780	500	1,280	Three year subscription to Maxicom Service and expected expenditures in Dig Alert Services.
Public Works	5014	Dues & Subscriptions	5014-70-79-25721-625030	SD LMD ZN 01A-RP	780	150	930	Three year subscription to Maxicom Service and expected expenditures in Dig Alert Services.
Public Works	5014	Dues & Subscriptions	5014-70-79-25721-625030	SD LMD ZN 02-HS	780	1,280	2,060	Three year subscription to Maxicom Service and expected expenditures in Dig Alert Services.
Public Works	5014	Dues & Subscriptions	5014-70-79-25721-625030	SD LMD ZN 03-MVRW	780	1,540	2,320	Three year subscription to Maxicom Service and expected expenditures in Dig Alert Services.
Public Works	5014	Dues & Subscriptions	5014-70-79-25721-625030	SD LMD ZN 03A-LPP	780	120	900	Three year subscription to Maxicom Service and expected expenditures in Dig Alert Services.
Public Works	5014	Dues & Subscriptions	5014-70-79-25721-625030	SD LMD ZN 04-MVRE	780	1,280	2,060	Three year subscription to Maxicom Service and expected expenditures in Dig Alert Services.
Public Works	5014	Dues & Subscriptions	5014-70-79-25721-625030	SD LMD ZN 05-SR	780	150	930	Three year subscription to Maxicom Service and expected expenditures in Dig Alert Services.
Public Works	5014	Dues & Subscriptions	5014-70-79-25721-625030	SD LMD ZN 06-MF	780	230	1,010	Three year subscription to Maxicom Service and expected expenditures in Dig Alert Services.
Public Works	5014	Dues & Subscriptions	5014-70-79-25721-625030	SD LMD ZN 07-CEL	780	280	1,060	Three year subscription to Maxicom Service and expected expenditures in Dig Alert Services.
Public Works	5014	Dues & Subscriptions	5014-70-79-25721-625030	SD LMD ZN 08-SM	780	120	900	Three year subscription to Maxicom Service and expected expenditures in Dig Alert Services.
Public Works	5014	Dues & Subscriptions	5014-70-79-25721-625030	SD LMD ZN 09-SV	780	80	860	Three year subscription to Maxicom Service and expected expenditures in Dig Alert Services.
Public Works	5111	Dues & Subscriptions	5111-70-79-25704-625030		260	1,880	2,140	Three year subscription to Maxicom Service and expected expenditures in Dig Alert Services.
Public Works	5112	Dues & Subscriptions	5112-70-79-25719-625030		60	370	430	Three year subscription to Maxicom Service and expected expenditures in Dig Alert Services.
Public Works	5114	Dues & Subscriptions	5114-70-79-25720-625030		10	70	80	Three year subscription to Maxicom Service and expected expenditures in Dig Alert Services.
Public Works	5012	Professional Svcs - Legal Svcs	5012-70-79-25703-620230		14,350	(5,500)	8,850	Reducing budget in-line with expected expenditures.
Public Works	5012	Professional Svcs - Other	5012-70-79-25703-620299		8,400	(6,400)	2,000	Reducing budget in-line with expected expenditures.
Public Works	5012	Postage - Mail	5012-70-79-25703-630110		2,250	(2,000)	250	Reducing budget in-line with expected expenditures.
Public Works	5012	Utilities - Electricity	5012-70-79-25703-621010		1,363,450	(13,450)	1,350,000	Reducing budget in-line with expected expenditures.
Public Works	7410	Oper Mtrls - Fuel: Gasoline	7410-70-78-45370-630355		170,000	50,000	220,000	Budgeting for projected fuel usage.
Public Works	3002	CIP Other	3002-70-77-80004-720199	804 0007 70 77-3002-99	3,034,966	(1,078,110)	1,956,856	Updating project budget due to a delay in Riverside County Flood Control funding.
Public Works	3002	CIP Other	3002-70-77-80004-720199	804 0015-3002-99	3,034,966	(1,562,658)	1,472,308	Updating project budget due to a delay in Riverside County Flood Control funding.
Public Works	2000	CIP Other	2000-70-77-80001-720199	801 0081-2000A-99	4,904,199	(166,607)	4,737,592	Decreasing budget to align with expected project expenditures.
Public Works	2000	CIP Other	2000-70-77-80001-720199	801 0081-2000A-99	4,904,199	(8,558)	4,895,641	Revised budgets based on projected revenue.
Public Works	3008	CIP Other	3008-70-77-80001-720199	801 0081-3008-99	2,540,523	641,020	3,181,543	Additional street funding.
Public Works	3008	CIP Other	3008-70-77-80001-720199	801 0084-3008-99	2,540,523	58,980	2,599,503	Additional street funding.
EXPENSES TOTAL					\$ 34,870,047	\$ 563,971	\$ 35,434,018	

Attachment: Exhibit A - Proposed Amendments [Revision 1] (3603 : FY 18/19 THIRD QTR BUDGET



Report to City Council

TO: Mayor and City Council

FROM: Allen Brock, Assistant City Manager

AGENDA DATE: June 4, 2019

TITLE: PARTICIPATION IN A PEER REVIEW STUDY REGARDING POTENTIAL CREATION OF A POLICE SERVICES JOINT POWERS AUTHORITY

RECOMMENDED ACTION

Recommendations: That the City Council:

1. Approve the City's participation in a Peer Review study to verify the feasibility of the Matrix study regarding potential creation of a Police Services Joint Powers Authority to serve several cities that currently contract with the Riverside County Sheriff's Department.
2. Authorize the City Manager to enter into a participation/cost sharing agreement with other participating cities.
3. Authorize a General Fund expenditure not to exceed \$15,000.

SUMMARY

This report recommends that the City Council approve the City's participation in a peer review of the feasibility study conducted by Matrix Consulting Group (Matrix) presented to Council on April 11, 2017. Through a study funded by participating cities, Matrix evaluated the feasibility of creating a Police Services Joint Powers Authority (JPA) to serve several cities that currently contract with the Riverside County Sheriff's Department.

DISCUSSION

Moreno Valley has contracted with the Riverside County Sheriff's Department for law enforcement services since incorporation. While the Sheriff's Department has continued to provide high quality public safety services to our community, continued

annual cost increases over recent years have negatively impacted the City. These costs have increased by more than 37% over the past 7 years; costs are projected to grow in each of the next two fiscal years.

The City remains very encouraged by newly elected Sheriff Bianco's pledge to work in partnership with cities that contract for law enforcement services. We've appreciated the opportunity to engage in meaningful dialogue with the Sheriff, and we're grateful for his leadership in seeking reductions to contract service costs.

In June 2015, discussions began regarding the potential feasibility and cost-efficiency of forming a JPA with other interested cities that currently contract for police services with the Riverside County Sheriff's Department. The Council approved Moreno Valley's participation in a comprehensive feasibility study to determine the potential for a police services JPA to serve these cities; as indicated above, the study was conducted by Matrix Consulting Group.

On April 11, 2017, Matrix presented findings which indicated that a JPA could offer operational and cost efficiencies based upon assumptions included in that study. During this meeting, staff indicated that next logical step would be to conduct a peer review study, whereby another highly qualified consultant would independently validate the assumptions and findings in the initial study. Following Matrix presentations at other participating cities, staff from the cities of Moreno Valley, Lake Elsinore, San Jacinto, Wildomar, Jurupa Valley and Temecula support moving forward with a peer review process.

On September 10, 2018, an RFP was released to solicit proposals to conduct this review. After reviewing proposals, staff members representing all participating cities recommended award of a consulting contract to Citygate Associates, LLC, for a not to exceed amount of \$15,000 per city. In addition to validating findings in the initial study, the report will consider impacts associated with revising the study to address the six cities listed above.

This topic was also presented to the Public Safety Sub-Committee on May 21, 2019.

ALTERNATIVES

- 1) Authorize the City of Moreno Valley to participate in the peer review with Citygate Associates, LLC, for a not to exceed amount of \$15,000. *Staff recommends this alternative as it will provide additional detailed information regarding police service costs.*
- 2) Provide alternate direction to staff.

FISCAL IMPACT

Funds are available in General Fund Account No. 1010-16-15-16010-625099 for FY 18/19 for a not to exceed amount of \$15,000 paid to the City of San Jacinto for the City of Moreno Valley’s equal share of costs to contract with Citygate Associates, LLC.

NOTIFICATION

Publication of Agenda.

PREPARATION OF STAFF REPORT

Prepared By:
Felicia London
Public Safety Contracts Administrator

Department Head Approval:
Allen Brock
Assistant City Manager

Approved By:
Thomas M. DeSantis
City Manager

CITY COUNCIL GOALS

Public Safety. Provide a safe and secure environment for people and property in the community, control the number and severity of fire and hazardous material incidents, and provide protection for citizens who live, work and visit the City of Moreno Valley.

CITY COUNCIL STRATEGIC PRIORITIES

- 1. Economic Development
- 2. Public Safety
- 3. Library
- 4. Infrastructure
- 5. Beautification, Community Engagement, and Quality of Life
- 6. Youth Programs

Objective 2.12: Evaluate results of Feasibility Study regarding the concept of forming a multi- agency Joint Powers Authority for provision of police services.

ATTACHMENTS

- 1. Citygate Proposal - Police JPA Feasibility - Phase 1

APPROVALS

Budget Officer Approval	<u>✓ Approved</u>	5/22/19 1:24 PM
City Attorney Approval	<u>✓ Approved</u>	5/21/19 4:54 PM
City Manager Approval	<u>✓ Approved</u>	5/28/19 5:38 PM



2250 East Bidwell Street, Suite 100 ■ Folsom, CA 95630 ■ PH 916-458-5100 ■ FAX 916-983-2090

January 30, 2019

Robert Johnson
 City Manager
 City of San Jacinto – City Manager’s Department
 595 S. San Jacinto Avenue
 San Jacinto, CA 92583

**RE: REVISED PHASE I PROPOSAL FOR THE POLICE SERVICES JOINT POWERS AUTHORITY
 FEASIBILITY ASSESSMENT**

Dear Robert Johnson:

In response to your written request and follow-up phone calls, Citygate is pleased to submit this summary proposal to begin incremental assessment work on the envisioned multi-city police services Joint Powers Authority (JPA).

PROJECT METHODS

As requested, Citygate’s team will:

- ◆ Review the Matrix report with an emphasis on assessing if the Matrix study methodology and data uses appear feasible and to best practice expectations for field and headquarters operations.
- ◆ Obtain current workload data for the policing areas and compare them to the Matrix study assumptions that would have driven field and headquarters staffing needs.
- ◆ Peer review the Matrix study fiscal assumptions and results.
- ◆ Peer review the Matrix study start-up costs and determine if they include all feasible issues.
- ◆ Conduct a gap analysis of any noted deficiencies in the Matrix study results and recommendations.
- ◆ Prepare an executive-summary-level written report and PowerPoint briefing of the results of Citygate’s assessment and recommended next study and/or implementation steps for the partners to consider.

Robert Johnson
January 30, 2019
Page 2

- ◆ On-site meetings will include:
 - One meeting with the JPA project administrative committee from each of the cities involved.
 - Up to six separate meetings for individual city council briefings.

Project Duration

This task will take approximately three months to complete. The assessment will take one month. The administrative committee briefing will occur in the second month. As and if needed, city council briefings can be completed in the second and third months.

PROJECT FEES

Our charges are based on actual time spent by our consultants at their established billing rates, plus reimbursable expenses incurred in conjunction with travel, printing, clerical, and support services related to the engagement. Our travel, as needed for out-of-area consultants, is budgeted at Southwest Airline's full fares and average local hotel rates. If advanced planning allows, then lower fares will be used. In either event, the partners only pay the actual out-of-pocket expenses.

We will undertake this study for a not-to-exceed total cost based on our proposed project Work Plan and schedule as presented in the following table. Any additional work outside the Work Plan described in this proposal, as mutually agreed to in writing as a change order, will be billed at the hourly rate of the respective consultant(s), including any reimbursable expenses plus a five percent administrative fee.

Project Cost Summary

Consulting Fees of Project Team	Reimbursable Expenses	Administration (5% of Hourly Fees)	Total Citygate Project Amount
\$53,520	\$9,967	\$2,676	\$66,163

This cost proposal reflects our best effort to be responsive to the partner's needs for this project, as we understand them, at a reasonable cost. If our proposed scope of work and/or cost is not in alignment with the partners' needs or expectations, we are open to discussing modifications to our proposed scope of work and associated costs.

The price quoted is effective for 45 days from the date of receipt of this proposal and includes the written product deliverables as identified in our project Work Plan.

Robert Johnson
 January 30, 2019
 Page 3

Standard Hourly Billing Rates

Classification	Rate	Consultant
Citygate President	\$225 per hour	David DeRoos
Public Safety Principal, JPA Feasibility Specialist, and Project Manager	\$250 per hour	Stewart Gary
Police Services Principal	\$210 per hour	Jim Davis
Police Services Senior Associate	\$195 per hour	Gary Elliot
City Management Specialist	\$195 per hour	Jane Chambers
Fiscal Specialist	\$195 per hour	Andy Green
Statistical, GIS, and Operational Analysis Associate	\$175 per hour	Eric Lind
Report Project Administrator	\$125 per hour	Chad Jackson
Administrative Support	\$95 per hour	Various

Billing Schedule

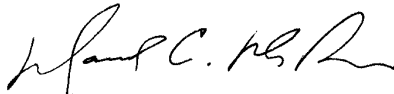
We will bill monthly for time, reimbursable expenses incurred at actual costs (travel), plus a five percent (5%) administration charge in lieu of individual charges for copies, phone, etc. Our invoices are payable within thirty (30) days. Citygate's billing terms are net thirty (30) days plus two percent (2%) for day thirty-one (31) and two percent (2%) per month thereafter. Our practice is to send both our monthly status report and invoice electronically. Once we are selected for this project, we will request the email for the appropriate recipients of the electronic documents. Hard copies of these documents will be provided only upon request. We prefer to receive payment via ACH Transfer, if available.

We request that ten percent (10%) of the project cost be advanced at the execution of the contract, to be used to offset our start-up costs. This advance would be credited to our last invoice.

* * *

Citygate's team of specialists would be honored to be of service to the partners' police services JPA assessment. As President of the firm, I am authorized to execute a binding contract on behalf of Citygate Associates, LLC. Please feel free to contact me at our headquarters office, located in Folsom, California, at (916) 458-5100, extension 101, or via email at dderoos@citygateassociates.com if you wish further information.

Sincerely,



David C. DeRoos, MPA, CMC, President

cc: Project Team