

**AGREEMENT FOR PROFESSIONAL
CONSTRUCTION MANAGEMENT CONSULTANT SERVICES WITH
FALCON ENGINEERING, INC. SERVICES FOR THE
STATE ROUTE 60/MORENO BEACH INTERCHANGE PHASE 2 IMPROVEMENTS
PROJECT NO. 801 0021**

This Agreement is by and between the City of Moreno Valley, California, a municipal corporation, hereinafter described as "City," and FALCON Engineering Services, Inc., a California corporation, hereinafter described as "Consultant." This Agreement is made and entered into effective on the date the City signs this Agreement.

RECITALS

WHEREAS, the City has determined it is in the public interest to proceed with the professional work hereinafter described as "Project"; and

WHEREAS, the City has determined the Project involves the performance of professional and technical services of a temporary nature as more specifically described in Exhibit "A" (City's Request for Proposal) and Exhibit "B" (Consultant's Proposal) hereto; and

WHEREAS, the City does not have available employees to perform the services for the Project; and

WHEREAS, the City has requested the Consultant to perform such services for the Project; and

WHEREAS, the Consultant is professionally qualified in California to perform the professional and technical services required for the Project, and hereby represents that it desires to and is professionally and legally capable of performing the services called for by this Agreement;

THEREFORE, the City and the Consultant, for the consideration hereinafter described, mutually agree as follows:

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DESCRIPTION OF PROJECT

1. The Project is described as State Route 60/Moreno Beach Interchange Phase 2 Improvements, Project No. 801 0021.

SCOPE OF SERVICES

2. The Consultant's scope of service is described on Exhibit "B" attached hereto and incorporated herein by this reference. In the event of a conflict, the City's Request for Proposal shall take precedence over the Consultant's Proposal.

3. The City's responsibility is described on Exhibit "C" attached hereto and incorporated herein by this reference.

PAYMENT TERMS

4. The City agrees to pay the Consultant and the Consultant agrees to receive a "Not-to-Exceed" fee of \$2,137,413.00 in accordance with the payment terms provided on Exhibit "D" attached hereto and incorporated herein by this reference.

TIME FOR PERFORMANCE

5. The Consultant shall commence services upon receipt of written direction to proceed from the City.

6. The Consultant shall perform the work described on Exhibit "A" in accordance with the schedule set forth in Exhibit "B" attached hereto and incorporated by this reference.

7. This Agreement shall be effective from effective date and shall continue in full force and effect date through December 31, 2024, subject to any earlier termination in accordance with this Agreement. The services of Consultant shall be completed in a sequence assuring expeditious completion, but in any event, all such services shall be completed prior to expiration of this Agreement.

8. (a) The Consultant agrees that the personnel, including the principal Project

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manager, and all subconsultants assigned to the Project by the Consultant, shall be subject to the prior approval of the City.

(b) No change in subconsultants or key personnel shall be made by the Consultant without written prior approval of the City.

SPECIAL PROVISIONS

9. It is understood and agreed that the Consultant is, and at all times shall be, an independent CONSULTANT and nothing contained herein shall be construed as making the Consultant or any individual whose compensation for services is paid by the Consultant, an agent or employee of the City, or authorizing the Consultant to create or assume any obligation or liability for or on behalf of the City.

10. The Consultant may also retain or subcontract for the services of other necessary consultants with the prior written approval of the City. Payment for such services shall be the responsibility of the Consultant. Any and all subconsultants employed by the Consultant shall be subject to the terms and conditions of this Agreement, except that the City shall have no obligation to pay any subconsultant for services rendered on the Project.

11. The Consultant and the City agree to use reasonable care and diligence to perform their respective services under this Agreement.

12. The Consultant shall comply with applicable federal, state, and local laws in the performance of work under this Agreement.

13. To the extent required by controlling federal, state and local law, Consultant shall not employ discriminatory practices in the provision of services, employment of personnel, or in any other respect on the basis of race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, marital status, sex, age, sexual orientation, ethnicity, status as a disabled veteran or veteran of the Vietnam era. Subject to the foregoing

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and during the performance of this Agreement, Consultant agrees as follows:

(a) Consultant will comply with all applicable laws and regulations providing that no person shall, on the grounds of race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, marital status, sex, age, sexual orientation, ethnicity, status as a disabled veteran or veteran of the Vietnam era be excluded from participation in, be denied the benefits of, or be subject to discrimination under any program or activity made possible by or resulting from this Agreement.

(b) Consultant will not discriminate against any employee or applicant for employment because of race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, marital status, sex, age, sexual orientation, ethnicity, status as a disabled veteran or veteran of the Vietnam era. Consultant shall ensure that applicants are employed, and the employees are treated during employment, without regard to their race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, marital status, sex, age, sexual orientation, ethnicity, status as a disabled veteran or veteran of the Vietnam era. Such requirement shall apply to Consultant's employment practices including, but not be limited to, the following: employment, upgrading, demotion or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. Consultant agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provision of this nondiscrimination clause.

(c) Consultant will, in all solicitations or advertisements for employees placed by or on behalf of Consultant in pursuit hereof, state that all qualified applicants will receive consideration for employment without regard to race, religious creed, color, national origin,

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ancestry, physical disability, mental disability, medical condition, marital status, sex, age, sexual orientation, ethnicity, status as a disabled veteran or veteran of the Vietnam era.

(d) If Consultant should subcontract all or any portion of the services to be performed under this Agreement, Consultant shall cause each subCONSULTANT to also comply with the requirements of this Section 13.

14. To the furthest extent allowed by law (including California Civil Code section 2782.8 if applicable), Consultant shall indemnify, hold harmless and defend the City, the Moreno Valley Community Services District (“CSD”), the Moreno Valley Housing Authority (“Housing Authority”) and each of their officers, officials, employees, agents and volunteers from any and all loss, liability, fines, penalties, forfeitures, costs and damages (whether in contract, tort or strict liability, including but not limited to personal injury, death at any time and property damage), and from any and all claims, demands and actions in law or equity (including reasonable attorney’s fees and litigation expenses) that arise out of, pertain to, or relate to the negligence, recklessness or willful misconduct of Consultant, its principals, officers, employees, agents or volunteers in the performance of this Agreement.

If Consultant should subcontract all or any portion of the services to be performed under this Agreement, Consultant shall require each subCONSULTANT to indemnify, hold harmless and defend City, CSD, Housing Authority and each of their officers, officials, employees, agents and volunteers in accordance with the terms of the preceding paragraph.

This section shall survive termination or expiration of this Agreement.

15. Insurance.

(a) Throughout the life of this Agreement, Consultant shall pay for and maintain in full force and effect all insurance as required in **Exhibit E** or as may be authorized in writing by the City Manager or his/her designee at any time and in his/her sole discretion.

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(b) If at any time during the life of the Agreement or any extension, Consultant or any of its subCONSULTANTS fail to maintain any required insurance in full force and effect, all services and work under this Agreement shall be discontinued immediately, and all payments due or that become due to Consultant shall be withheld until notice is received by City that the required insurance has been restored to full force and effect and that the premiums therefore have been paid for a period satisfactory to City. Any failure to maintain the required insurance shall be sufficient cause for City to terminate this Agreement. No action taken by City pursuant to this section shall in any way relieve Consultant of its responsibilities under this Agreement. The phrase "fail to maintain any required insurance" shall include, without limitation, notification received by City that an insurer has commenced proceedings, or has had proceedings commenced against it, indicating that the insurer is insolvent.

(c) The fact that insurance is obtained by Consultant shall not be deemed to release or diminish the liability of Consultant, including, without limitation, liability under the indemnity provisions of this Agreement. The duty to indemnify City shall apply to all claims and liability regardless of whether any insurance policies are applicable. The policy limits do not act as a limitation upon the amount of indemnification to be provided by Consultant. Approval or purchase of any insurance contracts or policies shall in no way relieve from liability nor limit the liability of Consultant, its principals, officers, agents, employees, persons under the supervision of Consultant, vendors, suppliers, invitees, consultants, sub-consultants, subCONSULTANTS, or anyone employed directly or indirectly by any of them.

(d) Upon request of City, Consultant shall immediately furnish City with a complete copy of any insurance policy required under this Agreement, including all endorsements, with said copy certified by the underwriter to be a true and correct copy of the original policy. This requirement shall survive expiration or termination of this Agreement.

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(e) If Consultant should subcontract all or any portion of the services to be performed under this Agreement, Consultant shall require each subCONSULTANT to provide insurance protection in favor of City and each of its officers, officials, employees, agents and volunteers in accordance with the terms of this section, except that any required certificates and applicable endorsements shall be on file with Consultant and City prior to the commencement of any services by the subCONSULTANT.

16. The waiver by either party of a breach by the other of any provision of this Agreement shall not constitute a continuing waiver or a waiver of any subsequent breach of either the same or a different provision of this Agreement. No provisions of this Agreement may be waived unless in writing and signed by all parties to this Agreement. Waiver of any one provision herein shall not be deemed to be a waiver of any other provision herein.

17. Consultant and subconsultants shall pay prevailing wage rates when required by the Labor Laws of the State of California.

18. (a) The Consultant shall deliver to the Public Works Director/City Engineer of the City or his designated representative, fully completed and detailed project-related documents which shall become the property of the City. The Consultant may retain, for its files, copies of any and all material, including drawings, documents, and specifications, produced by the Consultant in performance of this Agreement.

(b) The Consultant shall be entitled to copies of all furnished materials for his files and his subconsultants, if any.

(c) The City agrees to hold the Consultant free and harmless from any claim arising from any unauthorized use of computations, maps, and other documents prepared or provided by the Consultant under this Agreement, if used by the City on other work without the permission of the Consultant. Consultant acknowledges that Consultant work product produced

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under this agreement may be public record under State law.

19. (a) This Agreement shall terminate without any liability of City to Consultant upon the earlier of: (i) Consultant's filing for protection under the federal bankruptcy laws, or any bankruptcy petition or petition for receiver commenced by a third party against Consultant; (ii) 10 calendar days prior written notice with or without cause by City to Consultant; (iii) City's non-appropriation of funds sufficient to meet its obligations hereunder during any City fiscal year of this Agreement, or insufficient funding for the Project; or (iv) expiration of this Agreement. The written notice shall specify the date of termination. Upon receipt of such notice, the Consultant may continue services on the project through the date of termination, provided that no 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 Consultant within thirty (30) days after the date of termination for all non-objected to services performed by the Consultant in accordance herewith through the date of termination. Consultant shall not be paid for any work or services performed or costs incurred which reasonably could have been avoided.

(b) In the event of termination due to failure of Consultant to satisfactorily perform in accordance with the terms of this Agreement, City may withhold an amount that would otherwise be payable as an offset to, but not in excess of, City's damages caused by such failure. In no event shall any payment by City pursuant to this Agreement constitute a waiver by City of any breach of this Agreement which may then exist on the part of Consultant, nor shall such payment impair or prejudice any remedy available to City with respect to the breach.

(c) Upon any breach of this Agreement by Consultant, City may (i) exercise any right, remedy (in contract, law or equity), or privilege which may be available to it under applicable laws of the State of California or any other applicable law; (ii) proceed by appropriate court action to enforce the terms of the Agreement; and/or (iii) recover all direct, indirect, consequential,

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economic and incidental damages for the breach of the Agreement. If it is determined that City improperly terminated this Agreement for default, such termination shall be deemed a termination for convenience.

(d) Consultant shall be liable for default unless nonperformance is caused by an occurrence beyond the reasonable control of Consultant and without its fault or negligence such as, acts of God or the public enemy, acts of City in its contractual capacity, fires, floods, epidemics, quarantine restrictions, strikes, unusually severe weather, and delays of common carriers. Consultant shall notify City in writing as soon as it is reasonably possible after the commencement of any excusable delay, setting forth the full particulars in connection therewith, and shall remedy such occurrence with all reasonable dispatch, and shall promptly give written notice to Administrator of the cessation of such occurrence.

20. This Agreement is binding upon the City and the Consultant and their successors and assigns. Except as otherwise provided herein, neither the City nor the Consultant shall assign, sublet, or transfer its interest in this Agreement or any part thereof without the prior written consent of the other.

21. A City representative shall be designated by the City and a Consultant representative shall be designated by the Consultant. The City representative and the Consultant representative shall be the primary contact person for each party regarding performance of this Agreement. The City representative shall cooperate with the Consultant, and the Consultant's representative shall cooperate with the City in all matters regarding this Agreement and in such a manner as will result in the performance of the services in a timely and expeditious fashion.

22. This Agreement represents the entire and integrated Agreement between the City and the Consultant, and supersedes all prior negotiations, representations or Agreements, either

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written or oral. This Agreement may be modified or amended only by a subsequent written Agreement signed by both parties.

23. Where the payment terms provide for compensation on a time and materials basis, the Consultant shall maintain adequate records to permit inspection and audit of the Consultant's time and materials charges under this Agreement. The Consultant shall make such records available to the City at the Consultant's office during normal business hours upon reasonable notice. Nothing herein shall convert such records into public records. Except as may be otherwise required by law, such records will be available only to the City. Such records shall be maintained by the Consultant for three (3) years following completion of the services under this Agreement.

24. The City and the Consultant 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.

25. (a) Consultant shall comply, and require its subCONSULTANTS to comply, with all applicable (i) professional canons and requirements governing avoidance of impermissible client conflicts; and (ii) federal, state and local conflict of interest laws and regulations including, without limitation, California Government Code Section 1090 et. seq., the California Political Reform Act (California Government Code Section 87100 et. seq.) and the regulations of the Fair Political Practices Commission concerning disclosure and disqualification (2 California Code of Regulations Section 18700 et. seq.). At any time, upon written request of City, Consultant shall provide a written opinion of its legal counsel and that of any subCONSULTANT that, after a due diligent inquiry, Consultant and the respective subCONSULTANT(s) are in full compliance with all laws and regulations. Consultant shall take, and require its subCONSULTANTS to take, reasonable steps to avoid any appearance of a conflict of interest. Upon discovery of any facts

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giving rise to the appearance of a conflict of interest, Consultant shall immediately notify City of these facts in writing.

(b) In performing the work or services to be provided hereunder, Consultant shall not employ or retain the services of any person while such person either is employed by City or is a member of any City council, commission, board, committee, or similar City body. This requirement may be waived in writing by the City Manager, if no actual or potential conflict is involved.

(c) Consultant represents and warrants that it has not paid or agreed to pay any compensation, contingent or otherwise, direct or indirect, to solicit or procure this Agreement or any rights/benefits hereunder.

(d) Neither Consultant, nor any of Consultant's subCONSULTANTS performing any services on this Project, shall bid for, assist anyone in the preparation of a bid for, or perform any services pursuant to, any other contract in connection with this Project unless fully disclosed to and approved by the City Manager, in advance and in writing. Consultant and any of its subCONSULTANTS shall have no interest, direct or indirect, in any other contract with a third party in connection with this Project unless such interest is in accordance with all applicable law and fully disclosed to and approved by the City Manager, in advance and in writing. Notwithstanding any approval given by the City Manager under this provision, Consultant shall remain responsible for complying with Section 25(a), above.

(e) If Consultant should subcontract all or any portion of the work to be performed or services to be provided under this Agreement, Consultant shall include the provisions of this Section 25 in each subcontract and require its subCONSULTANTS to comply therewith.

(f) This Section 25 shall survive expiration or termination of this Agreement.

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26. All Plans, drawings, Specifications, reports, logs, and other documents prepared by the Consultant in its performance under this Agreement shall, upon completion of the project, be delivered to and be the property of the City, provided that the Consultant shall be entitled, at its own expense, to make copies thereof for its own use.

27. The laws of the State of California shall govern the rights, obligations, duties, and liabilities of the parties to this Agreement, and shall also govern the interpretation of this Agreement. Venue shall be vested in the Superior Court of the State of California, County of Riverside.

28. Supplementary General Provisions. (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 CONSULTANT 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.

- a) CONSULTANT shall be subject to the administrative, contractual, and legal remedies provided in the General Conditions in the event CONSULTANT violates or breaches terms of the Agreement.

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- b) CITY may terminate the Agreement for cause or for convenience, and CONSULTANT may terminate the Agreement, as provided the General Conditions.
- c) CONSULTANT 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 CONSULTANT.)
- d) CONSULTANT 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.)
- e) CONSULTANT 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).
- f) CONSULTANT 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).
- g) CONSULTANT shall observe CITY requirements and regulations pertaining to reporting included in the General Conditions.
- h) 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.
- i) 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

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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.

- j) CONSULTANT 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 CONSULTANT which are directly pertinent to that specific contract for the purpose of making audit, examination, excerpts, and transcriptions.
- k) CONSULTANT shall retain all required records for three years after CITY makes final payments and all other pending matters relating to the Agreement are closed.
- l) CONSULTANT 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.)
- m) CONSULTANT 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 FOLLOWS

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

City of Moreno Valley

FALCON Engineering Services, Inc.

BY: _____
Mike Lee, City Manager

Date

BY: _____
Name: _____
TITLE: _____
(President or Vice President)

Date

BY: _____
Name: _____
TITLE: _____
(Corporate Secretary)

Date

<p style="text-align: center;"><u>INTERNAL USE ONLY</u></p> <p>APPROVED AS TO LEGAL FORM:</p> <p>_____ City Attorney _____ Date</p> <p>RECOMMENDED FOR APPROVAL:</p> <p>_____ Public Works Director/City Engineer _____ Date</p>

- Enclosures: Exhibit "A" – City Scope of Services
Exhibit "B" – Consultant Proposal
Exhibit "C" – City Services
Exhibit "D" – Terms of Payment
Exhibit "E" – Insurance Requirements

EXHIBIT "A"

**REQUEST FOR PROPOSAL
FOR CONSTRUCTION MANAGEMENT CONSULTANT SERVICES
FOR STATE ROUTE 60/MORENO BEACH INTERCHANGE PHASE 2 IMPROVEMENTS
FOR
THE CITY OF MORENO VALLEY'S CAPITAL PROJECTS DIVISION
PROJECT NUMBER: 801 0021/ PROJECT ID: CT0812000059/ EA 32303**

I. INVITATION

The City of Moreno Valley is requesting for proposals (RFP) to obtain Construction Management Consultant Services associated with interchange improvements at State Route 60 (SR-60)/Moreno Beach Drive Interchange Phase 2, as shown on the enclosed project aerial.

Interested parties may register and download copies of the RFP package and submit proposals electronically (in PDF format) via the City's online bidding system located at <http://www.planetbids.com/portal/portal.cfm?CompanyID=24660>.

To download submittal packages and submit proposals, vendors will be required to pay an online usage download fee of \$10.00. All documents associated with this RFP will be downloadable after the fee has been paid. Once the prospective Offeror downloads any documents relative to a solicitation, that Offeror's name will appear on the Prospective Bidders List.

Proposals will be accepted until **5:00 p.m. on January 22, 2021.**

Proposers are solely responsible for "on time" submission of their proposals online. The City will only consider proposals that have been transmitted successfully and have been issued an ebid confirmation number with a time stamp. Transmission of proposals by any other means will not be accepted. Proposers shall be solely responsible for familiarizing themselves with the online bidding system in order to properly utilize the proposal management system, for ensuring the capability of their computer system to upload the required documents, and for the stability of their internet service to successfully submit their proposals. Failure of the proposers to successfully submit electronic proposals shall be at the proposers' sole risk and no relief will be given for late and/or improperly submitted proposals. Proposers experiencing any technical difficulties with the proposal submission process may contact PlanetBids at (818) 992-1771. Neither the City nor PlanetBids makes any guarantee as to the timely availability of assistance or any assurance that any given problem will be resolved by the proposal submission deadline.

All Requests for Information (RFI) regarding this RFP must be submitted through the online bidding system noted above no later than **5:00 p.m. on January 11, 2021.**

Proposers shall provide a separate electronic file for their technical proposal and cost proposal.

II. GENERAL PROJECT DESCRIPTION

The Consultant shall complete construction management and inspection services in order to build interchange improvements for SR-60/Moreno Beach Drive Interchange Phase 2 project, Caltrans EA 32303. The project includes bridge, pavement, sidewalks, drainage facilities, traffic signals, landscaping, irrigation, lighting, and related improvements within the existing and acquired right-of-way.

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III. PROJECT FUNDING AND SCHEDULE

The SR-60/Moreno Beach Phase 2 project is funded with \$16.8 million Trade Corridor Enhancement Program (TCEP) funds, \$7.2 million Transportation Uniform Mitigation Fees (TUMF) funds, and \$2.5 million Riverside County Flood Control and Water Conservation District (RCFC&WCD) funds. City is also on schedule to receive \$1.8 million Federal Emergency Management Agency (FEMA) funds with local match. The City does not intend to use Federal Department of Transportation funds.

The Consultant shall be required to meet or exceed the following timeline for this contract:

Public Bid of SR-60/Moreno Beach Construction Contract: January/February 2021
Anticipated Award of CM Contract: March 2021/April 2021
Award of Construction Contract: March - May 2021
Construction Duration (Approximate): 18 months
Plant Establishment: 2 years

IV. SCOPE OF SERVICES

The City intends to award a contract to provide Construction Management Consultant Services for SR-60/Moreno Beach Drive Interchange Phase 2. The City intends to separately procure Materials Testing and Construction Surveying Services for the project. The Construction Management Consultant will coordinate the day-to-day activities of the Materials Testing and Construction Surveying consultants.

DETAILED PROJECT DESCRIPTION:

The purpose of the project is to alleviate congestion, enhance freeway access, and increase vertical clearance for the SR-60/Moreno Beach Drive Interchange. The purpose of the project will be achieved by realigning the SR-60/Moreno Beach Drive ramps, adding auxiliary lanes, and replacing the overcrossing structure at SR-60/Moreno Beach Drive.

The SR-60/Moreno Beach Drive Interchange Phase 2 improvements consist of the following:

1) reconstruction and realignment of the SR-60/Moreno Beach Drive westbound freeway ramps including addition of a westbound loop on-ramp; 2) construction of a westbound auxiliary lane, 3) installation of signalization at the intersection of the westbound ramp and Moreno Beach Drive, 4) provision for California Highway Patrol (CHP) enforcement areas, 5) addition of ramp metering, 6) replacement of the SR-60/Moreno Beach Drive overcrossing structure including raising the roadway profile and adjusting the eastbound ramps, traffic signals, and Moreno Beach Drive to grade, 7) utility relocations, 8) provision for highway planting and irrigation, and/or hardscape for the entire interchange, 9) accommodation of off-site drainage including Line K-1 along Ironwood Avenue (non-TUMF funded), 10) addition of bike lanes and sidewalks on Moreno Beach Drive, and 11) related work as required. Utility coordination with Moreno Valley Utility (MVU), Frontier, Southern California Edison (SCE), and Eastern Municipal Water District (EMWD) is included.

The project's Phase 1 was completed in 2013, constituting the eastbound ramps, eastbound auxiliary lane, Eucalyptus extension, and related utility relocations. Phase 2 constitutes all remaining work. All work will be performed in accordance with the requirements of the California Department of Transportation (Caltrans), City of Moreno Valley, RCFC&WCD, and other agencies as required.

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The Environmental Revalidation, approved plans, and right-of-way acquisition are complete. The City is currently under contract with a design engineering firm who will provide design support during construction.

The City has received approval from Caltrans to advertise, award, and administer (AAA) the project, based on the attached Caltrans/City Cooperative Agreement and the attached Caltrans letter to the City (exhibits incorporated by reference). The general scope includes compliance with Caltrans' requirements to AAA the project. The construction cost is estimated at \$21 million.

The Moreno Valley City Council approved a Community Workforce Agreement (CWA), which is applicable to Public Works construction contracts entered into by the City with a value of at least \$1 million in construction cost. The approved CWA is an agreement between the City and San Bernardino/Riverside Counties Building and Construction Trades Council, AFL-CIO, and the Signatory Craft Councils and Unions. A CWA Administrator will be hired separately for this project.

CONSTRUCTION MANAGEMENT CONSULTANT SERVICES

The Construction Management Services shall include assisting the City Program Manager with general project management activities and full-service construction management during the construction phase of the project.

The Construction Management Services will include Inspection Services. If more than one inspector is required to oversee the work, it is the responsibility of the Construction Manager to anticipate the need and to provide for the additional services required. The City Program Manager will make the final decision with regard to selecting the included Inspection Services, or to select an Inspector through the City's on-call selection process or other accepted means.

General Services

General Construction Management Services duties shall include, but not be limited to:

1. Provide Resident Engineer, Bridge/Structural Engineer, and Landscape Architect as required by Caltrans.
2. Prepare and maintain a project schedule identifying the critical path for expeditious project completion.
3. Schedule and conduct the pre-construction meeting with all stakeholders, including preparations of agendas and minutes; and distribute to all applicable entities (not just attendees) within three (3) working days.
4. Schedule, facilitate, and attend public meetings as necessary.
5. Attend and present the project to City Council as required.
6. Check all contract documents to ensure compliance with the Caltrans LAPM and funding requirements.
7. Prepare Quality Control Plan for the project.
8. Prepare a Source Inspection Quality Management Plan required by Caltrans (see Attachments).

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9. Prepare all submittals to Caltrans Local Assistance in accordance with the LAPM and other Caltrans requirements, as required.
10. Track and prepare regular reports on DBE compliance by the contractor, if applicable. Advise of corrective actions if DBE utilization is not being met.
11. Prepare reimbursement requests and invoices for Caltrans and other funding agencies, including FEMA grant, if received.
12. Prepare agreements and Purchase Orders.
13. Issue all necessary Notices to Proceed (NTP).
14. Review and process all invoices (City staff will approve).
15. Compose RFP's, NIP's, and Scopes of Services to retain other related design services, services of specialty Consultants/Contractors needed during construction, such as Source Inspection; coordinate and schedule services including Surveying, Inspection, Geotechnical, Material Testing, and Source Inspection; review and approve invoices; and review proposals as necessary.
16. Maintain all project files in accordance with the Caltrans format or as otherwise directed by the City Program Manager.
17. Maintain consistent communication (daily or weekly, depending on project activity/complexity) with the City Program Manager.
18. Facilitate, coordinate, and oversee the ongoing daily actions required to completely provide the full level of intended services and ensure that the project meets all applicable Federal, State, and local requirements.
19. Oversee and ensure that all measures of the specific project's scope of services are completed in a timely and professional manner with an emphasis on providing the City with a high quality project.
20. Report directly to the City Program Manager and act as a liaison between the City and all project stakeholders in order to accomplish the full project services intended by the City.
21. Have necessary staff housed in a project office near the project during construction. The engineer's estimate requires that the construction contractor provide a Resident Engineers Office per the Caltrans specifications.
22. Coordinate with the City's Electrical Utility Inspector for the installation of the electrical facilities and the new services for the project.
23. Coordinate with the City's Community Workforce Program Administrator. Provide copies of documents as requested. Attend Pre-Job Conference as requested.

Construction Management Services

Typical Construction Management services shall include, but not be limited to:

1. Provide contract administration for the project and coordinate with other construction, as required.

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2. Coordinate and participate in pre-construction contract award activities, including conducting pre-construction meeting, and issuance of Notice to Proceed in accordance with the City's procedures.
3. Establish and maintain project controls and provide administrative, management, and related services necessary to coordinate the work of the Contractor and all sub-contractors in order to facilitate timely completion of the project in accordance with contract documents and City objectives.
4. Provide, manage, coordinate, and ensure timely completion/approvals in response to all Requests for Information (RFI), shop drawings, product data samples, submittals, Change Notices, Intend to File Change Notices, and Construction Change Orders (CCO), as well as review, negotiations and issuance of the CCO to the Contractor.

Follow the established City procedures in processing CCO. Following is a brief outline of the City's procedures:

- a. Review requests for CCO received from the Contractor.
 - b. Recommend necessary or desirable project changes to the City with Design Consultant's concurrence.
 - c. Assist the City with concurrence of the Design Consultant in CCO negotiations.
 - d. Submit recommendations to the City relative to change order requests.
 - e. Prepare the CCO, obtain project designer's concurrence, and obtain Contractor and Design Consultant's signature on the CCO forms for the City's consideration, review, and approval.
 - f. Prepare staff report(s) for City Council approval of CCO, if necessary.
5. Ensure that contractor's daily work effort is documented.
 6. Prepare agenda, conduct weekly construction progress meetings and distribute minutes within three (3) working days.
 7. Ensure adequate inspection coverage for the project, coordinate and oversee project inspector(s).
 8. Schedule Caltrans, City Building and Safety, and/or MVU inspection of Electrical Service/Cabinets, footings, or as otherwise required.
 9. Coordinate and schedule utility services for the irrigation and electrical controller cabinets.
 10. Coordinate and schedule telephone service with the City's Telecommunications Engineer or Verizon, as required.
 11. Coordinate and schedule needed water service, water meter(s), and re-location of water line etc. with the local water surveyor as necessary for the project.

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12. Provide a 24-hour contact telephone line to address and respond to calls. Log all contacts and responses. Report to the City program manager and the team. Make adjustments in operations as needed.
13. Provide an outreach program appropriate to the project and at City's discretion to keep the public and stakeholders informed of the project.
14. Schedule with the City's Traffic Operations Supervisor and Caltrans to inspect new and modified traffic signals. The Consultant shall be responsible to document all work, including the Traffic Supervisor's inspection in the Consultant's Daily Diary.
15. Provide administrative, management, and related services as required to coordinate work and to complete the project in accordance with the City's objectives for cost, time, and quality. The Consultant shall provide sufficient qualified personnel and management to carry out the requirements of the Project.
16. Schedule and conduct pre-construction and construction progress meetings to discuss such matters as procedures, progress, problems, scheduling, and coordination and other project related items. General construction progress meetings may be required on a weekly basis until the project is completed. Primary attendees will include: Utilities, Caltrans, other agencies including RCFC&WCD, the City of Moreno Valley, and the Contractor. Prepare meeting agendas, and minutes for all meetings. The minutes shall be prepared and distributed to all attendees within three (3) working days after the meeting. The minutes shall include, but not be limited to, list of attendees with phone numbers and e-mail, synopsis of discussion items, any pertinent information, action items, and follow-up to the action items.
17. Obtain building permits and special permits for the improvements. The Consultant shall verify that the applicable fees and assessments have been paid, and shall assist in obtaining approvals from authorities having jurisdiction over the permits. City will pay all fees that are due.
18. Maintain continuous 24-hour telephone accessibility during construction activity for emergency use.
19. Maintain the record copies of the following:
 - a. Plans, specifications, and contract documents with all changes and modifications.
 - b. Permits.
 - c. Storm Water Pollution Prevention Plan (SWPPP)
 - d. Addenda(s), change order(s), shop drawings, product data, submittals, and samples.
 - e. Progress payments, inventories, and applicable codes.
 - f. Contractor's reports, correspondence, certified payrolls, and accident reports.
 - g. Survey and layout data and certifications, photographs of as-built locations and depths.

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- h. List of addresses, telephone and license numbers of General Contractor, all sub-contractors, material suppliers, and utility agencies.
20. Determine whether the work of the Contractor is being performed in accordance with the requirements of the contract documents, and endeavor to guard the City against defects and deficiencies in such work. The Consultant shall make recommendations to the Engineer regarding special inspection or testing of work not in accordance with the provisions of the contract documents whether or not such work is then fabricated, installed or completed. The Consultant shall also inform the City of work that does not conform to the requirements of the contract documents. The Consultant shall review the Contractor's recommendations for corrective action on observed non-conforming work.
21. Perform compliance tasks to ensure contractor's conformance with project's SWPPP. Provide updates in SMARTS at required frequency.
22. Consult with the Design Consultant and City Program Manager if contractor requests interpretations of the meaning and intent of the PS&E, and shall assist in the resolution of questions which may arise.
23. Identify and report potential contractor claims and recommend resolution.
24. Prepare the weekly statement of working days and send to the Contractor on a weekly basis.
25. Conduct interviews with the Contractor's and subcontractor's employees to ensure labor compliance as described in the Caltrans LAPM.
26. Compare Certified Payrolls with Inspection Reports, employee interview forms, and the Prevailing Wage Rates, and verify proper payment in compliance with the project Specifications.
27. The Consultant does not have authority to make changes or deviations from the Plans and Specifications, except as authorized by the Design Consultant and City Program Manager.
28. Incorporate approved changes as they occur.
29. Review, comment and recommend processing of invoices for progress and final payments.
30. Endeavor to achieve satisfactory performance from each of the contractors and recommend courses of action to the Engineer when requirements of a contract are not being fulfilled and the non-performing party will not take satisfactory corrective action from the Consultant or Engineer.
31. Provide regular monitoring of the approved estimates of Total Construction Cost, showing actual costs for activities in progress, and estimates for uncompleted tasks. The Consultant shall identify variances between actual

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- and budgeted or estimated costs, and inform the City Program Manager whenever Project costs exceed budgets or estimates.
32. Maintain cost accounting records on authorized work performed under unit costs, additional work performed on the basis of actual costs of labor and materials, or other work requiring accounting records.
 33. Ensure that safety programs are developed by the Contractor as required by their contract documents, and coordinate the safety programs for the project.
 34. The Consultant shall not be responsible for the construction means, methods, techniques, sequences and procedures employed by the Contractor in performance of their contract with the City. The Consultant shall also not be responsible for the failure of the Contractor to carry out their work in accordance with the contract documents. The Consultant shall be responsible, however, for any reports, advice or information provided to the Design Consultant regarding the Project and the work of the Contractor, including any information regarding the compliance of their work with the contract documents.
 35. The Consultant shall provide documentation (e.g. memorandum, letter, email, etc.) to the Contractor, City Program Manager, etc., regarding all important issues, decisions, and discussions within three (3) working days.
 36. The Consultant shall be required to document and submit weekly written progress reports to the Engineer on multiple construction phases of the project, which shall include information on the Contractor and the Contractor's work, as well as the entire Project. The Consultant shall also keep a daily log containing a record of weather, the Contractor, work on the site, number of workers, craft or trades, equipment, subcontractors, work accomplished, problems encountered, and other similar relevant data as the Design Consultant may require. The Consultant shall make the log available to the City.
 37. Observe the Contractor's check-out of utilities, operational systems and equipment for readiness, and assist in their initial start-up and testing.
 38. Determine when the Contractor's work or a designated portion thereof is complete. The Consultant shall prepare a list of incomplete or unsatisfactory items (punch list) and a schedule for their completion. The Consultant shall coordinate the correction and completion of the Work.
 39. Evaluate the completion of the work of the Contractor and make recommendations to the City Program Manager when work is ready for final inspection. The Consultant shall assist the City Program Manager and Caltrans in conducting final inspections and shall secure and transmit to the City Program Manager required guarantees, affidavits, releases, and waivers. The Consultant shall also deliver keys, manuals, and record drawings to the City.
 40. Perform any necessary management services during the warranty period of the construction contract.

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41. Address any business owner's and property owner's concerns and inquiries.
42. Coordinate close-out of the project and/or project phase, obtain necessary operation manuals, warranties, guarantees, and other applicable necessary information. Provide all documentation in a well-organized (binders, folders, CDs, etc.) manner in both electronic and hard copies.
43. Obtain all releases and warranty bonds from the Contractor and sub-contractors. Provide all documentation in a well-organized (binders, folders, CDs, etc.) manner in electronic and hard copies.
44. Deliver a final completed project to the City and Caltrans which is in compliance with the PS&E package, and all applicable codes, standards and requirements.
45. Provide a redline set of as-built plans to the Design Consultant to place as-built information on the mylars.
46. Prepare status report for project close-out, prepare Staff Report for project acceptance and assist with filing of Notice of Completion. Prepare and submit GASB 34 documentation in the City's format along with the as-built drawings. Provide final SWPPP report for SMARTS entry.
47. Present the City with a complete project close-out file, including final invoices from all consultants and sub consultants.
48. Perform such other project related duties as may be required by the City.
49. Perform warranty walk within one (1) year of the Notice of Completion.
50. The extent of the duties, responsibilities, and limitations of authority of Consultant as a representative of the City during the construction shall not be modified or extended without the written consent of the City Program Manager.
51. Manage and inspect contractor's Plant Establishment work.
52. Obtain all schedules and diagrams from the Contractor and sub-contractor for the irrigation system. Ensure Caltrans acceptance of irrigation and planting.

Inspection Services

In general, the Consultant Inspector shall have the necessary experience and know-how of construction equipment, materials, methods, and workmanship for the specific work to be performed on the projects. The Consultant Inspector shall be able to understand and interpret Plans and Specifications and shall be familiar with Caltrans Standard Specifications, City Standards, the Greenbook (Standard Plans for Public Works Construction), and OSHA Construction Safety Orders. The Consultant Inspector shall be able to interact professionally with contractors, engineers, property owners, business owners, and the public at large; coordinate

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with other City personnel; promote quality customer service; and respond promptly and courteously to requests. The Consultant Inspector shall be able to follow verbal and written instructions, communicate clearly and concisely, both orally and in writing. Inspection is required during all contractor operations, including night and weekend work.

Typical Consultant Inspection services shall include, but not be limited to:

1. Review the Plans and Specifications thoroughly prior to the pre-construction meeting.
2. Establish effective communications with the Contractor, Caltrans, other agencies, utilities, and business and property owners.
3. Ensure compliance with the Plans, Specifications, and other requirements, such as, but not limited to, the Contract, Traffic Control, Cal/OSHA Standards, CCO, Permits, Caltrans requirements, Standard Plans, checking line, grade, size, elevation, and location of improvements.
4. Monitor extra work.
5. Perform project oversight for the monitoring of traffic control, damage to infrastructure, and replacement of infrastructure to City and Caltrans Standards.
6. Attend the weekly construction meetings.
7. Keep daily dairies (log), fill out Incident (accident) Reports, and take pictures of the project. A daily Inspection Report identifying work done by the Contractor shall be submitted to the PMC, CMC and City Program Manager by the next business day. The Consultant shall also keep a daily log containing a record of weather, the Contractor, work on the site, number of workers, craft or trades, equipment, subcontractors, work accomplished, problems encountered, and other similar relevant data as the PMC, CMC and City Program Manager may require. The Consultant shall make the log available to the City.
8. Document all Contractor delays, reasons for delay, length of time for delay, and Phases of work.
9. Monitor and provide supporting documentation on the personnel and equipment that is involved with any extra work performed by the Contractor.
10. Coordinate and schedule with geotechnical, survey and special inspection firms or City Building and Safety inspectors based on project construction progress and contractors' requests.
11. During the course of inspection and monitoring of the work, if the Consultant Inspector observes an unsafe situation, he shall notify the Contractor of the violation and provide written notification of such infraction to the Contractor. If the Contractor refuses to comply, the Consultant Inspector shall notify the City and Cal OSHA.

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12. Measure and tabulate contract quantities.
13. Review the Contractor's invoices, independently verify completed work, and approve all quantities.
14. Prepare a list of items for correction (punch list) and prepare redlined as-built plans.
15. The Consultant Inspector does not have the authority to allow deviations from the Contract Plans and Specifications.
16. Possess a digital camera, and shall provide digital images of the project to the City of Moreno Valley in "jpg" format. Organize and catalog images by date and activity and other criteria as required.
17. Possess a computer with internet to access emails and electronic files on the project site.
18. Possess a vehicle and a mobile phone for immediate contact by the City, show proof of a valid California's driver's license, and insurance.
19. Normal working hours are from 7:00 a.m. to 3:30 p.m. with a 1 hour lunch break; however, the Contractor may be allowed to start earlier to minimize disruption to business and intersection work may be performed at night with written authorization from the City. Provide inspection during all hours that Contractor is working.
20. Perform other related duties as required.

V. CONSULTANT'S PROPOSAL AND COMPENSATION

The Consultant's Proposal shall be no more than 25 pages. The page limits exclude a cover letter of up to two pages, resumes up to two pages per person, dividers, certificates, and appendices. Resumes, billing rates, project schedule, resource matrix, certificates, and other required forms shall be attached in the appendices. Proposals failing to provide sufficient information and assurances of performance to accurately assess each category of the required services and failing to comply with requirements and conditions of the Request for Proposal will not be given further consideration. This proposal shall remain valid for a minimum of Ninety (90) Calendar Days after proposal deadline.

At a minimum, each Proposal shall include the following sections:

- A. **Project Understanding:** This section should clearly convey clear understanding of the nature of the work, identification of major project issues, and proposed solutions thereof, from both the Consultant and the sub-consultants (consultant team).
- B. **Approach and Management Plan:** This section provides the consultant team's proposed approach and management plan for providing services. Include an organization chart showing proposed relationship among consultant team/staff as well as any other parties that may have significant role in the delivery of this project.

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- C. **Qualifications and Experience:** Provide qualifications and experience of the team for this project. Emphasize the specific qualifications and experience from projects similar to this project for the key team members including references. Identify and provide in-depth information for the proposed project manager's qualifications, track record and relevant experience.
- D. **Staffing Plan:** Discuss staffing plan, the workload, both current and anticipated, for all key team members, and their capacity to perform the requested services according to the proposed schedule. Discuss the firm/team's approach for completing the services required for this project within budget and schedule.
- E. **Work Plan and Schedule:** Include a description of how each task of the project will be conducted, identification of deliverables for each task and implementation schedule. The work plan should include sufficient detail to demonstrate a clear understanding of the project. Discuss the consultant team's approach for completing the project.
- F. **Quality Control and Assurance:** Discuss QA/QC proposed for each phase/deliverable for this project, including various independent plan check reviews and plan constructability/claims avoidance reviews.
- G. **Additional Relevant Information:** Provide additional relevant information that may be helpful in the selection process (not to exceed two pages).

The Consultant's Proposal shall include the following statements:

1. A statement that this Request for Proposal shall be incorporated in its entirety as a part of the Consultant's Proposal.
2. A statement that this Request for Proposal and the Consultant's Proposal will jointly become part of the Agreement for Professional Consultant Services for this project when said Agreement is fully executed by the Consultant and the Mayor or City Manager of Moreno Valley.
3. A statement that the Consultant's Services to be provided, and fees therefore, will be in accordance with the City's Request for Proposal except as otherwise specified in the Consultant's Proposal under the heading "ADDITIONS OR EXCEPTIONS TO THE CITY'S REQUEST FOR PROPOSAL."
4. A single and separate section with the heading "ADDITIONS OR EXCEPTIONS TO THE CITY'S REQUEST FOR PROPOSAL" containing a complete and detailed description of all of the exceptions to the provisions and conditions of this Request for Proposal upon which the Consultant's Proposal is contingent and which shall take precedent over this Request for Proposal for Professional Consultant Services.
5. A statement of qualifications applicable to this project including the names, qualifications and proposed duties of the Consultant's Staff to be assigned to this project; a listing of recent similar projects completed including the names, titles, addresses, telephone numbers and email addresses of the appropriate persons whom the City could contact. If one or more of the

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Consultant's staff should become unavailable, the Consultant may substitute other staff of at least equal competence only after prior written approval by the City.

6. A resource allocation matrix *must* be submitted with the Proposal. The resource allocation matrix must list detailed tasks in rows and the appropriate individual (Job Title Only) as well as the number of hours that these individuals will be working on each task listed, will be included in adjacent columns. The resource allocation matrix and the project design schedule are required of both the primary consultant, as well as any sub-consultant. Failure to do so will result in the Consultant's Proposal being deemed incomplete and it will not receive further consideration. The Title Reports shall be a separate line item under the right-of-way task.

The resource allocation matrix, in addition to any tasks the Consultant chooses to list, shall include but not be limited to meetings, progressive plan submittals, Summary Memo, utility relocation engineering right-of-way investigations, right-of-way acquisition, As-Built Drawings, and GASB 34 documentation.

7. A rate schedule *must* be submitted with the Proposal. The rate schedule must list titles, names, roles, and hourly billing rates in rows. A statement that said hourly rate schedule is part of the Consultant's Proposal for use in invoicing for progress payments and for extra work incurred shall also be included. All extra work will require prior approval from the City.
8. A statement of sub-consultant's (include relief personnel) qualifications applicable to this project including the names, qualifications and proposed duties of the sub-consultant's staff to be assigned to this project; a listing of recent similar projects completed including the names, titles, addresses, and telephone numbers of the appropriate persons whom the City could contact.

A statement that the Consultant acknowledges and understands that the Consultant will not be allowed to change the sub-consultant without written permission from the City.

9. A statement that all charges for Consultant services is a "Not-to-Exceed Fee" which must include conservatively estimated reimbursable expenses, as submitted with and made a part of said Consultant's Proposal.
10. A statement that the Consultant will document and provide the results of the work to the satisfaction of the City. This may include preparation of field and final reports, or similar evidence of attainment of the Agreement objectives.
11. A statement that the Consultant will immediately document and notify the City of any defects or hazardous conditions observed in the vicinity of the project site prior, during, or after the construction work.
12. A copy of the Consultant's hourly rate schedule and a statement that said hourly rate schedule is part of the Consultant's Proposal for use in invoicing for progress payments and for extra work incurred that is not part of this Request for Proposal. **An itemized cost breakdown for the work**

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described herein must be submitted in a separate electronic file as part of the Proposal submittal. All extra work will require prior approval from the City.

13. A statement that the Consultant will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin.
14. A statement that all federal laws and regulations shall be adhered to notwithstanding any state or local laws and regulations. In a case of conflict between federal, state or local laws or regulations the strictest shall be adhered to.
15. A statement that the Consultant shall allow all authorized federal, state, county, and City officials access to place of work, books, documents, papers, fiscal, payroll, materials, and other relevant contract records pertinent to this special project. All relevant records shall be retained for at least three years.
16. A statement that the Consultant shall comply with the Davis-Bacon Fair Labor Standards Act (40 USC 276-a through a-7), and the implementation regulations issued pursuant thereto (29 CFR Section 1, 5), any amendments thereof and the California Labor Code. Pursuant to the said regulations, entitled "Federal Labor Standards Provisions," Federal Prevailing Wage Decision" and State of California prevailing wage rates, respectively.
17. A statement that the Consultant shall comply with the Copeland Anti-Kickback Act (18 USC 874) and the Implementation Regulation (29 CFR 3) issued pursuant thereto, and any amendments thereof.
18. A statement that the Consultant offers and agrees to assign to the City all rights, title, and interest in and to all causes of action it may have under Section 4 of the Clayton Act (15 USC Sec. 15) or under the Cartwright Act (Chapter 2 [commencing with Section 16700] of Part 2 of Division 7 of the Business and Professions Code), arising from purchases of goods, services, or materials pursuant to the public works or the subcontract. This assignment shall be made and become effective at the time the City tenders final payment to the Consultant, without further acknowledgment by the parties.
19. This CM contract does not have a set DBE goal; however DBEs and other small businesses are strongly encouraged to participate in the performance of Contracts. The Proposer must ensure that DBEs and other small businesses have the opportunity to participate in the performance of the work that is the subject of this solicitation and should take all necessary and reasonable steps for this assurance. The Proposer must not discriminate on the basis of race, color, national origin, or sex in the award and performance of subcontracts.
20. Good Faith Efforts Submittal

Complete and submit the DBE Information - Good Faith Efforts, Exhibit 15-H form with the proposal showing that you made adequate good faith efforts to have DBEs and other small businesses to participate in the performance of Contracts.

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Good faith efforts documentation must include the following information and supporting documents, as necessary:

1. Items of work you have made available to DBE firms. Identify those items of work you might otherwise perform with its own forces and those items that have been broken down into economically feasible units to facilitate DBE participation. For each item listed, show the dollar value and percentage of the total contract. It is your responsibility to demonstrate that sufficient work to meet the goal was made available to DBE firms.
2. Names of certified DBEs and dates on which they were solicited to bid on the project. Include the items of work offered. Describe the methods used for following up initial solicitations to determine with certainty if the DBEs were interested, and the dates of the follow-up. Attach supporting documents such as copies of letters, memos, facsimiles sent, telephone logs, telephone billing statements, and other evidence of solicitation. You are reminded to solicit certified DBEs through all reasonable and available means and provide sufficient time to allow DBEs to respond.
3. Name of selected firm and its status as a DBE for each item of work made available. Include name, address, and telephone number of each DBE that provided a quote and their price quote. If the firm selected for the item is not a DBE, provide the reasons for the selection.
4. Name and date of each publication in which you requested DBE participation for the project. Attach copies of the published advertisements.
5. Names of agencies and dates on which they were contacted to provide assistance in contacting, recruiting, and using DBE firms. If the agencies were contacted in writing, provide copies of supporting documents.
6. List of efforts made to provide interested DBEs with adequate information about the plans, specifications, and requirements of the contract to assist them in responding to a solicitation. If you have provided information, identify the name of the DBE assisted, the nature of the information provided, and date of contact. Provide copies of supporting documents, as appropriate.
7. List of efforts made to assist interested DBEs in obtaining bonding, lines of credit, insurance, necessary equipment, supplies, and materials, excluding supplies and equipment that the DBE subcontractor purchases or leases from the prime contractor or its affiliate. If such assistance is provided by you, identify the name of the DBE assisted, nature of the assistance offered, and date assistance was provided. Provide copies of supporting documents, as appropriate.

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8. Any additional data to support demonstration of good faith efforts.

VI. GENERAL COMPLIANCE WITH LAWS AND WAGE RATES

The Consultant shall be required to comply with all federal, state, and local laws and ordinances applicable to the work. This includes compliance with prevailing wage rates and their payment in accordance with California Labor Code, Section 1775.

The Consultant is required to submit certified payrolls weekly. This applies to all applicable field personnel working on the project. In accordance with Section 1771.5 (b) (5) of the California Labor Code, the City will withhold payments when the payroll records are delinquent or inadequate.

VII. PAYMENT TO CONSULTANT

- A. This work is to be performed for a "Not-to-Exceed Fee."
- B. The Consultant shall provide a "Payment Schedule" indicating the fee for individual tasks with a "Not-to-Exceed Fee" which shall be the sum of all tasks by Part, phase, and milestone.
- C. Tasks shall include, but not be limited to, all Professional Consultant Services necessary to complete the work covered by this Proposal.
- D. The City will pay the Consultant for work completed based on milestones completed and accepted by the City. These milestones are:
 - 1. Construction Management/Inspection Services on a monthly basis.
 - 2. Other additional authorized work on a task successfully completed and accepted basis.

The City shall make sole and final determination if a milestone as described above is complete and acceptable for payment.

- E. The consultant will be responsible for the overall management of the project from the perspective of time and budget. The consultant's not-to-exceed fee shall be based upon the scope of work provided. However, no additional compensation shall be provided to the consultant for minor changes in scope or duration. Major changes (e.g. major extension of project schedule) outside the consultants' control may be considered for additional compensation, subject to the approval of the City.
- F. Monthly invoices will specifically identify job title, person-hours, and costs incurred by each task.
- G. Reimbursement costs such as mileage, printing, telephone, photographs, postage and delivery, are to be included in the "Not-to-Exceed Fee."
- H. All tasks including labor and reimbursable costs such as printing, postage, and delivery shall have supporting documentation presented at the time payment is requested.

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- I. The City will pay the Consultant for all acceptable services rendered in accordance with the "Agreement for Professional Consultant Services."
- J. When the Consultant is performing, or is requested to perform, work beyond the scope of service in the "Agreement for Professional Consultant Services," an "Amendment to the Agreement" will be executed between the City and Consultant.
- K. The Consultant shall receive no compensation for any re-work necessary as result of the Consultant's errors or oversight.

VIII. INSURANCE

- A. The Consultant shall provide Errors and Omissions Professional Insurance. Such coverage limits shall not be less than \$1,000,000 per claim and \$2,000,000 policy aggregate.
- B. The Consultant shall have Public Liability and Property Damage Insurance in the amounts as follows:

GENERAL LIABILITY

\$1,000,000 per occurrence for bodily injury and property damage
\$1,000,000 per occurrence for personal and advertising injury
\$2,000,000 aggregate for products and completed operations
\$2,000,000 general aggregate

- C. The Consultant shall have Public Liability and Property Damage Insurance coverage for owned and non-owned automotive equipment in the amount of not less than \$1,000,000.
- D. The Consultant shall have Workers' Compensation Insurance in the amounts that fully comply with the laws of the State of California and employers' liability insurance with limits of not less than \$1,000,000 each accident.
- E. A 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, Western Riverside Council of Governments, and the Moreno Valley Community Services District, its officers, employees and agents are included as additional insured under this general liability 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 and employees and agents, under any third party liability policy."

- F. Insurance companies providing insurance hereunder shall be rated (A minus: VII - Admitted) or better in Best's Insurance Rating Guide and shall be legally licensed and qualified to conduct insurance business in the State of California.

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- G. The terms of the insurance policy or policies issued to provide the above insurance coverage shall not be amended to reduce the above required insurance limits and coverage's 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 Agency, 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 said insurance is canceled, the Consultant shall, prior to the cancellation date, submit to the City Clerk new evidence of insurance in the amount established.
- H. It is the consultant's responsibility to ensure that all subconsultants comply with the following: Each subconsultant that encroaches within the City's right-of-way **and** affects (i.e., damages or impacts) City infrastructure must comply with the liability insurance requirements of the City's Land Development Division. Examples of such subconsultant work include soil sample borings, utility potholing, etc.

The "Application for Encroachment Permit" form (four pages), including "Application for Encroachment Permit Liability Insurance Requirements," is available in the Land Development Division and must be completed and submitted in full to the City. It is the Consultant's responsibility to ensure that all subconsultants submit the appropriate encroachment permit and insurance documentation at the same time that the Consultant's insurance documentation is submitted.

IX. INDEMNIFICATION

- A. To the maximum extent allowable by law, the Consultant agrees to indemnify, defend, and save the City, the Moreno Valley Community Services District (CSD), the Moreno Valley Housing Authority, and Western Riverside Council of Governments (WRCOG), and each of their officers, officials, employees, agents and volunteers from any and all claims, demands, damages, or injuries to any person, including injury to the Consultant's employees and all claims that arise out of, pertain to, or relate to the negligence, recklessness or willful misconduct of the Consultant, its officers, agents or employees, or its subconsultant(s) or any person acting for the Consultant or under its control or direction; provided, however, that this indemnification and hold harmless shall not include claims arising from the negligence or willful misconduct of the City, MVHA, WRCOG and CSD, their officers, agents or employees.
- B. The City agrees to indemnify, defend and save the Consultant and their officers, agents and employees harmless from any and all liability, claims, damages or injuries to any person, including injury to the City's, MVHA's, WRCOG's and CSD's employees and all claims which arise from or are connected with the negligent performance or failure to perform the services or other obligations of the City under this Agreement, or are caused or claim to be caused by the negligent acts of the City, MVHA, WRCOG and CSD, their officers, agents or employees, or its subcontractor(s) or any person acting for the City or under its control or direction; provided, however, that this indemnification and hold harmless shall not include any claims arising from the sole negligence or willful misconduct of the Consultant, its officers, agents, or employees.

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X. TERMINATION FOR CONVENIENCE OF THE CITY

The City reserves the right to terminate the "Agreement for Professional Consultant Services" for the "convenience of the City" at any time by giving ten (10) days' written notice to the Consultant of such termination and specifying the effective date thereof. All finished or unfinished drawings, maps, documents, field notes and other materials produced and procured by the Consultant under the said aforementioned Agreement is, at the option of the City, City property and shall be delivered to the City by the Consultant within ten (10) working days from the date of such termination. The City will reimburse the Consultant for all acceptable work performed as set forth in the executed Agreement.

XI. INDEPENDENT CONTRACTOR

The Consultant's relationship to the City in the performance of the Consultant's services for this project is that of an independent Contractor. The personnel performing the said Services shall at all times be under the Consultant's exclusive direction and control and shall be employees of the Consultant and not employees of the City. The Consultant shall pay all wages, salaries and other amounts due his employees in connection with the performance of said work shall be responsible for all employee reports and obligations, including but not necessarily restricted to, social security, income tax withholding, unemployment compensation, and Workers' Compensation.

XII. CONTRACT AND DISCLOSURE

The Contract includes the Agreement for Professional Consultant Services, City's Request for Proposal, Consultant's Proposal, and Exhibits.

The Political Reform Act and the City's Conflict of Interest Code require that consultants be considered as potential filers of Statements of Economic Interest. Consultants, as defined by Section 18701, may be required to file an Economic Interest Statement (Form 700) within 30 days of signing a Consultant Agreement with the City, on an annual basis thereafter if the contract is still in place, and within 30 days of completion of the contract.

XIII. GENERAL CONDITIONS

A. Pre-contractual expenses are defined as expenses incurred by the Consultant in: (1) preparing the Proposal; (2) submitting the Proposal to the City; (3) presentation during selection interview; (4) negotiating with the City any matter related to this Proposal; (5) any other expenses incurred by the Consultant prior to an executed Agreement.

The City shall not, in any event, be liable for any pre-contractual expenses incurred by the Consultant.

B. The City reserves the right to withdraw this RFP at any time without prior notice. Further, the City makes no representations that any Agreement will be awarded to any Consultant responding to this RFP. The City expressly reserves the right to postpone reviewing the Proposal for its own convenience and to reject any and all Proposals responding to this RFP without indicating any reasons for such rejection(s).

**REQUEST FOR PROPOSAL FOR
PROFESSIONAL CONSTRUCTION MANAGEMENT
CONSULTANT SERVICES
PROJECT NO. 801 0021**

- C. The City reserves the right to reject any or all Proposals submitted. Any Contract awarded for these Consultant engagements will be made to the Consultant who, in the opinion of the City, is best qualified.

XIV. SELECTION CRITERIA

The Consultant may be invited to a selection interview. The Proposals will be rated/ranked according to the following criteria:

1. The Firm's General Experience and Qualification Information (20 points) – Information about the company (and all sub-Consultants) including professional licenses held; ability to furnish required insurance and meet stipulations of the City's "boiler plate" agreement; details about comparable projects completed by the firm, as well as local experience; and its ability to provide the required services in an efficient and expeditious manner.
2. Experience of Key Personnel (40 points) – Background on key personnel (including all sub-consultants) qualifications, abilities, familiarity with state and federal procedures, local experience on comparable projects and length of service with the firm, reference information preferably with municipal agencies, and proven track record and depth of understanding/ knowledge of the proposed Project Manager, Construction Manager, and/or Inspector.
3. Project Approach/Understanding (40 points) – Understanding of project, discussion of major issues identified on the project and how the Consultant team plans to address them; the management approach and organization necessary to complete the specific project; and quality control measures to ensure delivery of a quality product on time, within budget that provides a cost efficient, timely and predictable execution of the project construction.

Attachments (incorporated by reference):

Attachment "A" – Project Aerial
Attachment "B" – City Agreement
Attachment "C" – Caltrans-City Cooperative Agreement
Attachment "D" – September 3, 2019 Letter from Caltrans
Attachment "E" – Exhibit 12-B Bidder's List of Subcontractor (DBE & Non-DBE)
Attachment "F" – Exhibit 10-O1 – Consultant Proposal DBE Commitment
Attachment "G" – Exhibit 10-O2 – Consultant Contract DBE Commitment
Attachment "H" – Exhibit 15-H – Proposer-Contractor Good Faith Efforts
Attachment "I" – Plans-SR60 Moreno Beach (Phase 2)_100%
Attachment "J" – Estimate
Attachment "K" – 4th Supplement to Project Report

EXHIBIT "B"



February 17, 2021

Margery Lazarus, P.E.
Senior Engineer
Public Works
City of Moreno Valley
14177 Frederick St.
Moreno Valley, CA 92553

Re: Construction Management Consultant Services for State Route 60/Moreno Beach Interchange Phase 2 Improvements for the City of Moreno Valley's Capital Projects Division Project No: 801 0021/Project ID: CT0812000059/EA 32303

Dear Ms. Lazarus:

Please see the attached revised scope of services and matrix for the above reference project.

Should you have any questions, please call me at any time on my cell# (951) 264-2350.

Sincerely,

A handwritten signature in blue ink, appearing to read "Wael Faqih", with a long horizontal stroke extending to the right.

FALCON Engineering Services Inc.
Wael Faqih, MS, PE
Project Manager/Vice President
341 Corporate Terrace Circle, #101
Corona, CA 92879
(951) 264-2350 Cell
wfaqih@FALCON-ca.com

E. WORK PLAN AND SCHEDULE

FALCON will provide the following standard services for the City of Moreno Valley based on our understanding of the project and how to manage aspects of the scope of work during various stages of the project.

SCOPE OF SERVICES

PRE-BID			
Activity	Description	Deliverable	Team Experience
	Assist the City in finalizing the bid document, draft Invitation to bid, obtain CT-E-76 Approval, promote the project, bidder/ qualifications, bid opening/analysis, & verify bidder's documentation. Evaluate proposals for survey and materials testing, if needed.	Review and Coordinate with City & CT-OS	Wael, Juan, Abunnasr, Moh'd
PRE-CONSTRUCTION			
Activity	Description	Deliverable	Team Experience
Project Schedule CPM	Review project baseline schedule provides recommendations and ensures efficiency. Identify critical path for expeditious project completion.	Schedules, Correspondence	Wael, Juan, Abunnasr, Moh'd
Quality Control Plan Source Inspection QMP	Prepare a Quality Control Plan for the project. Prepare Source Inspection Management Plan required by Caltrans.	Meeting agenda/minutes	Wael, Juan, Abunnasr, Moh'd
Coordinate with Utility Agencies	Meet with all utility companies responsible for relocating their lines and equipment.	Meeting agenda/minutes	Wael, Juan, Abunnasr, Moh'd
Project Schedule/ Long Lead Items	Evaluate the Design Engineer's proposed schedule for construction duration and cost. Provide a plan for the procurement of long-lead items.	Construction Schedule	Wael, Juan, Abunnasr, Moh'd
Photograph/Video Document the site	Take pre-construction photos and videotape conditions.	Photos, dated with labels, video	Dennis, Sami
Conforming to City /Caltrans Standards	Review and assist in staging plans, traffic management plans for compliance with the law and project specifications.	Review and monitor plans	Wael, Juan, Abunnasr, Moh'd
DURING CONSTRUCTION			
Activity	Description	Deliverable	Team Experience
Pre-construction Meetings	Arrange a pre-construction meeting with agencies, contractors, the design engineer, and utility companies and address all concerns—review contract administrative items.	Meeting agenda and minutes	Juan, Abunnasr, Moh'd, Ahmad
Contract Award	Review bid for completeness and responsiveness, perform bid analysis, payment schedules, check the reference, licenses, insurance sureties, and coordinate with a contractor to award contracts if time allows.	Assist City as needed if time allows	Juan, Abunnasr, Moh'd, Ahmad
Project Administration	Administer Project Construction Contracts using Caltrans Construction Manual, Permit Conditions, the City's Standards, and Permit and Procedures.	Conformance to Caltrans and City Procedures	Juan, Abunnasr, Moh'd, Ahmad
Coordination Meetings	Conduct regular project coordination meetings with the Utilities, Caltrans, other agencies, including RCFC&WCD, the City of Moreno Valley, and the Contractor.	Meeting agenda and minutes	Juan, Abunnasr, Moh'd, Ahmad
Project Management Plan	Prepare and implement a Project Management Plan.	Management Plan	Wael, Juan, Moh'd
Construction Inspection	Coordinate all required inspections necessary for the project.	Document daily onsite inspections	Ahmad, Abunnasr, Moh'd, Inspectors
Progress Payments	Prepare contractor's progress payments and maintain records and supporting documentation. The City of Moreno Valley to review and approve.	Certified Pay Request	Wael, Abunnasr, Juan, Moh'd
Project Record Document	Maintain filing system by the City and Caltrans LAPM for project documentation.	Electronic files, project logs	Juan, Abunnasr, Moh'd, Ahmad
Construction Schedule	Review project schedule, provide recommendations, ensure efficiency	Evaluate the proposed schedule	Juan, Abunnasr, Moh'd, Ahmad
Weekly Progress and Schedule Meeting	Conduct weekly meetings to discuss schedule, change orders, new issues, submittal status, RFIs, safety, deficiencies, etc.	Meeting agenda and minutes	Juan, Abunnasr, Moh'd, Ahmad
Monthly Project Report (MPR)	Prepare and submit a monthly report, i.e., SWPPP updates, RFIs, CCO's, potential claims, construction activities update, the status of the project budget and schedule, highlights, and critical issues.	List of critical issues, CCO summary, schedule impact, work progress	Juan, Abunnasr, Moh'd, Ahmad
Review Certified Payroll Labor Compliance	Monitor for compliance with the applicable labor laws and contract requirements, such as prevailing wage requirements.	Verify Payrolls, Employee Interviews	Moh'd, Ahmad
SWPPP	Assist and review, approve, and monitor the Contractor's SWPPP. Review, monitor, document, and enforce contractor safety procedures for compliance with laws and regulations. Monitor project traffic management plan.	SWPPP review and updates	Dion, Juan, Abunnasr, Moh'd, Ahmad
Construction Coordination	Ensure construction progress meeting coordination with the Utilities, Caltrans, other agencies, including RCFC&WCD, the City of Moreno Valley, and the Contractor. Individual and coordinate meetings and training systems for Line K-1(RCFC and Cal OES/FEMA), EMWD, AND MVLL.	Project Closeout provide monthly inspection reports	Juan, Abunnasr, Moh'd, Inspectors
Traffic/Safety	Review, monitor, document, and enforce contractor safety procedures for compliance with laws and regulations. Monitor project traffic management plan.	Conduct regular meetings	Dion, Juan, Abunnasr, Sal, Ivan
Shop Drawings and RFI	Coordinate the review of shop drawings and RFI with the designer.	Log and track submittal/request	Juan, Abunnasr, Moh'd, Ahmad
Deficiency Log	Maintain a log of non-compliant work items. Assist in the implementation and processing of change orders.	Deficiency Log	Juan, Abunnasr, Moh'd, Ahmad
Daily Inspection Report	Document the contractor's daily operations. Provide daily diaries.	Daily Reports, field measure	Juan, Abunnasr, Moh'd, Inspectors
Shoring plans	Review and approve shoring plans.	Review and approve	Abunnasr, Ahmad, Moh'd Z&K

DURING CONSTRUCTION			
Activity	Description	Deliverable	Team Experience
Document Control	Adhere to the City's procedures, maintain a hard-copy file, and maintain a construction filing system.	Accurate documentation	Juan, Abunnasr, Moh'd, Ahmad
Process Submittals	Review and track all submittals for completeness and constructability.	Submittal Approvals & Log	Juan, Abunnasr, Moh'd, Ahmad, Designer, Caltrans
Weekly / Working Days	Issue a Weekly Statement of Working Days, showing days remaining, rain days, etc.	Weekly Statement of Working Days	Juan, Abunnasr, Moh'd, Ahmad
Construction Safety and Health	Review, monitor, document, and enforce contractor safety procedures for compliance with laws and regulations: safety requirements, training, certification, the City's/OSHA Requirements.	Conduct regular safety/tailgate/ meetings	Juan, Abunnasr, Moh'd, Ahmad, Dion, Inspector
"As-Built" Drawings	Ensure Contractor is keeping redline drawings.	As Built Redline	Juan, Abunnasr, Moh'd, Inspector
Survey Support	Coordinate and support all construction survey services, as needed.	Provide QA	Wael, Juan
Special Design	Identify the location, which includes drainage, utility, and survey, as needed.	Data Survey	Wael, Juan
Environmental Compliance	Provide monitoring, develop, review, and ensure compliance with environmental commitment report requirements. Review and enforce requirements stipulated in permits issued by regulatory and environmental agencies. Maintain/update the master ECR for project compliance /audit.	Reports and Inspection	Inspectors, ZTC
Quality Assurance / Inspection	Inspect work to ensure compliance with contract documents. Reject unacceptable work using Deficiency Log. Observe the work of special inspectors when required.	Daily Inspection Reports, NCR, and Deficiency Log	Juan, Abunnasr, ZTC, Inspectors
Material Testing Geotechnical	Provide and monitor material testing; review geotechnical reports conform to Caltrans standards, specifications, and special provisions.	Testing Results	Wael, Juan, ZTC
Permits /Easements, Utility Relocation	Continuation of pre-construction activities. Assist in the coordination and scheduling of utility work.	Permits, easements	Wael, Juan, Moh'd
Source Inspection	As the project is in Caltrans Right-of-way full source inspection will be required. Coordinate items such as epoxy coated bars, elastomer seal, splices, bearing pads, structural fasteners, strands and PT Anchorage and facilitate/arrange for the inspection.	Source Inspection/ Materials Testing	ZTC
Landscape Hardscape Plant Establishment	Registered Landscape Architect provides onsite inspection and provides decisions for planting and irrigation for monthly visits to the site, to monitor and inspect maintenance. (2-year Plant Establishment)	Accurate documentation	Juan, Naim, Rick
Review Contract Change Orders /Claims (CCO)	Review CCO's proposed by the Contractor. Recommend needed CCO's, and track cash flow for CCO's. Perform claims administration, coordination and monitoring claims, response preparation, logging claims, and tracking claims status.	Claims assistance and Logs of Potential and Issued CCO's	Wael, Juan, Abunnasr, Moh'd
Community Outreach	Will assist the City and Caltrans to develop an outreach program, if requested and as needed.	Submittal Approvals & Log	Sami, Dennis
Progress Photos	Issue a Weekly Statement of Working Days, showing weekly progress report to the City.	Weekly Statement of Working Days	Sami, Dennis, Inspectors
Safety Program/ Monitoring	Review, monitor, document, and enforce contractor safety procedures for compliance with laws and regulations. Safety requirements, training, certification, City of Moreno/OSHA Requirements.	Conduct regular safety/tailgate/ meetings	Wael, Juan, Abunnasr, Moh'd, Ahmad
CHP-COZEEP & Caltrans Closure Coordination	Coordinate activities and closures with the City, Caltrans and CHP	Notifications / form submittals / budgets / PR	Wael, Juan, Abunnasr, Moh'd, Ahmad, Dion

Activity	Description	Deliverable	Team Experience
Project Closeout	Conduct final inspection and walk-through, including maintenance and service personnel, issue preliminary and final punch list.	Punch List and Notice of Completion	Wael, Juan, Abunnasr, Moh'd, Ahmad
"As-Built" Drawings	Review Contractor's red line drawings and submits them to the designer.	As Built Redline Drawings	Wael, Juan, Abunnasr, Ahmad
Final Walk-through	Conduct a final walk-through with City, Caltrans, local agencies, contractors, and design engineers.	Walk-through	Juan, Abunnasr, Moh'd, Ahmad
Final Pay Request Certificate of Completion	Process the contractor's final payment request, issue a Certificate of Completion, and obtain applicable permits and a Project Final Report.	Final pay request, Certificate of Completion	Juan, Abunnasr, Moh'd, Ahmad
Contract Closeout Audit Support Dispute Resolution	Deliver all project files. Process the contractor's final payment request, obtain applicable permits, and a Project Final Report. Aid in any future audits and resolve any outstanding disputes.	Final pay Req., Project files/ e-files. Cert. of Completion	Wael, Juan, Abunnasr, Moh'd, Ahmad

DOCUMENTING DAILY OPERATIONS AND DIARIES

The Resident Engineer will review all daily diaries and correspondences daily and ensure all documents are accurate and dealt with promptly (letters, RFI's, submittals, emails, and communications with all stakeholders). The City is copied on all correspondences and kept up to date with all issues without overloading the City's Construction Manager with unnecessary paperwork.

FALCON Team members are familiar with Caltrans Construction Manual and LAPM Chapters 15, 16, and 17 that detail specific filing systems "Caltrans Construction Manual documentations" and Local Agency Resident Engineer Manual pre-construction, construction, and closeout phases.

SOURCE INSPECTION

Source Inspection will be conducted per Caltrans "Source Inspection Quality Management Plan (SIQMP)" guidelines. Source inspection relates to all materials manufactured or fabricated away from the job site incorporated into the final product. ZT Consulting Group (ZTC) and FALCON have assembled a team of experienced Structural Material Representative (SMR), experienced QA Source Inspectors, and accredited laboratories to develop and implement a Source Inspection Quality Management Plan (SIQMP) for this project to comply with the requirements of the project, Code of Federal Regulations (CFR), Title 23 CFR 63, the City, and Caltrans.

ZTC will provide certified QA source inspectors, including AWS CWI steel inspectors, ASNT Level II non-destructive testing (NDT) structural steel inspectors, coating inspectors, PCI II precast concrete inspectors, and other source inspectors as needed. Additionally, the source inspection team will work closely with the construction management team, and the City utilize all of the available resources effectively for QA source inspection, sampling, and testing.

Final material acceptance will range from Certificate of Compliance (COC) acceptance to full source inspection by one of ZTC's Certified Material QA Inspectors. ZTC will ensure that all files, QC records, material test reports (MTRs), documents, test results, and engineering reviews are documented and are in conformance with the approved SIQMP. ZTC will file all the source inspection records electronically and provide a copy of the records to Construction. A final material certification in accordance with the project specifications and the approved SIQMP will be provided to FALCON and the City of Moreno Valley.

SURVEYING

Under the City of Moreno Valley Construction Manager's direction, FALCON's Resident Engineer will coordinate and oversee all survey staking services provided by the City selected survey staking firm. FALCON Team will ensure that the main survey controls and monumentation and verify major survey staking (lines and grades) of the main structure and right-of-way limits as a QA measure.



Our Inspectors will verify grade, alignment, and any conflicting utilities/proximity to traffic and establish a safe work environment during construction. Verify centerline ties, centerline monuments, construction survey, construction staking, utility locations, clearing limits, slope staking, storm drain, drainage structures, curb, gutters and sidewalks, rough grade finish grade, etc. It is important to catch any errors in grade at subgrade, where it is much easier to either correct the Contractor's

Our project documents on the SR-60/Nason and Moreno Beach Interchanges, I-15/limonite IC, I-15/79 IC-10/Citrus Avenue & Cherry Interchanges, I-215/Van Buren Interchange, River Road Bridge Replacement, SR-91/Van Buren Interchange & La Sierra Interchange projects were audited by Caltrans and FHWA multiple times and passed with favorable comments from both agencies.

This ensured these agencies a full funding reimbursement.

mistake or revise the grades. If it is a plain error, then we will consult with the designer for clarification.

MULTI-DISCIPLINED STAFF RESULTS IN COST-EFFECTIVE "AS-NEEDED" CONSTRUCTION MANAGEMENT THROUGH STAFFING EFFICIENCY

Our objective is to provide the most qualified Construction Management team members with Caltrans and the City of Moreno Valley project experience. Wael Faqih (Project Manager), Juan Rojas (Resident Engineer), and Abunnasr Husain

(Structures Representative) have managed similar projects and are high caliber engineers that have worked on numerous Caltrans projects. Specifically, they managed the SR-60/Nason Street IC and Moreno Beach Ave. Phase-I, **which is identical to this project.** FALCON Inspectors, at a minimum, will provide the following services:

- ✓ *Inspect the project construction activities at all stages. Produce Accurate Daily Diary supported with pictures and actual field communication.*
- ✓ *Discuss field activities with the contractor before starting work. Coordinate with CT-OS staff.*
- ✓ *Coordinate with a survey crew for staking.*
- ✓ *Review plans for accuracy.*
- ✓ *Check asphalt and concrete mix designs for compliance with contract requirements.*
- ✓ *Verify the dimensions and quality of the framework.*
- ✓ *Check the near-completed facilities to identify discrepancies & deficiencies in the Contractor's work and prepare the necessary punch lists.*

Resident Engineer, Assistant Resident Engineers, Structures Representative, and Inspectors will coordinate Final Inspection by CT-OS team and ensure final acceptance, as-builts, and final reports are submitted to Caltrans. The application is submitted for full funding reimbursement.

SAFETY

FALCON recognizes that jobsite safety is the highest priority on any worksite and requires vigilance by everyone. FALCON Inspection staff is knowledgeable with the Caltrans Safety Manual and the OSHA Construction Safety Orders.

FALCON requires 10/30-hour OSHA training for all employees.



All FALCON staff have completed their 10/30-Hour OSHA Safety Training and Certification

SWPPP

FALCON Inspectors understand the importance of managing the Storm Water Pollution Prevention Plan (SWPPP). All the Senior Managers are QSD/QSP certified, and all the proposed Staff is QSP trained. Dion Castro, QSD/P-ToR, will be providing our oversight inspection/ monitoring compliance with the approved SWPPP plan. Mr. Castro provides a similar oversight inspection on all FALCON projects. He is considered a leading SWPPP/NPDES professional in the Inland Empire.

ELECTRICAL & SIGNALS

Under the direction of FALCON's Resident Engineer, FALCON Inspectors, and **Moreno Valley Utility (MVU) Inspectors** will coordinate with the City of Moreno Valley, the Contractor, and Caltrans Oversight on all requests regarding electrical work **regarding the staging of the MVU electrical/power facilities.**

LABOR COMPLIANCE MONITORING

FALCON Resident Engineer will review the Certified Payroll Records (CPR) submitted by the Contractor and its subcontractors, verify the Fringe Benefit Statement, and compare Employee Interview Report and Daily Reports against Certified Payroll Record for accuracy. FALCON Team will also track and document contractor DIR Certified Payroll Record submission efforts and verify and confirm Contractor DIR registration annually.

Firm Name	DIR Registration Number
FALCON Engineering	1000011720
KZAB Engineers	1000015528
EXP	1000063968
Z&K Consultants	1000029878
ZT Consulting Group	1000377989

UTILITY AND OUTSIDE AGENCY COORDINATION

Our field staff will coordinate with the Contractor and pothole/identify all existing utilities and verify any conflicts with the various construction activities and main structure or roadway improvements. We will implement the following procedure before the start of work.



AS-BUILT PLANS

FALCON's Team will update the as-built plans during the project's construction phase to ensure that plans are up to date. Certified final record revision drawings will be transferred to the City of Moreno Valley immediately at the completion of construction activities and final acceptance.

MATERIALS SAMPLING AND TESTING

The City will select the material testing firm. FALCON will oversee and coordinate testing activities with the city, contractor, and Caltrans OS. Material such as soils, aggregate base, asphalt concrete, and cement concrete will be tested in the field. Our laboratory by Caltrans approved material/construction technicians for compliance with the project plan and specifications. FALCON Resident Engineer is responsible for supervising and coordinating the materials testing program. Sampling and testing activities will be conducted per Caltrans and City/County Standard frequencies and approved procedures.



TRAFFIC CONTROL

FALCON Team is very familiar with working closely with The Contractor, Caltrans Oversight, TMC, and COZEEP to ensure that the traffic control in the Work Area is performed in accordance with The Standard Plans, Traffic Control Handbook (WATCH) Manual, and the Manual of Uniform Traffic Control Devices (MUTCD).



PUBLIC OUTREACH

As determined by the City, FALCON Resident Engineer and Public Outreach Coordinators will assist with the public outreach effort.



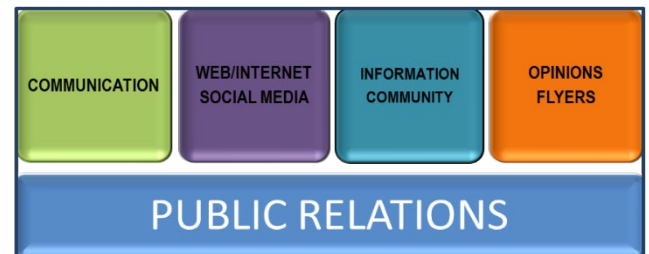
Our Public Outreach will be led by Mr. Dennis Green, "Communications Director" and Drone Technology, led by Sami Faqih "both are experts in their respective fields," serving all FALCON projects throughout the Inland Empire.

Once we have determined the major issues, we will share the information with the City to develop a mitigation strategy to address community consensus. After a strategy has been developed, we will hold public information meetings in English and Spanish to describe the project's scope and strategy for mitigating community concerns.

- All successful outreach programs integrate early coordination with Caltrans and the City of Moreno Valley and emergency service responders, school transportation, elected officials, city public works, and traffic engineering to bring them on-board to determine the impacts that need to be mitigated before implementing traffic control systems/detour.

Public Outreach Expected Services: Freeway Weekend closures will require a lot of notice to the public.

- Well planned closures and detailed detours.
- **One meeting with the public, if needed.**
- **Organize a Neighborhood Town Meeting, if needed.**
- Create Project Fact Sheet in English and Spanish.
- Create Traffic Advisories.
- **Meetings with the Stakeholders, if requested.**
- **Meetings with the First Responders (CHP, Fire, Police, and Ambulance services), if requested.**
- **Public meetings with local residents, if requested.**
- Operate a Project information website.
- Time Lapse Cameras at strategic locations throughout the project.
- **Coordinate a groundbreaking and ribbon cutting ceremony, if requested.**





CITY OF MORENO VALLEY'S CAPITAL PROJECTS DIVISION

PROJECT NUMBER: 801 0021/ PROJECT ID: CT0812000059/ EA32303

PROPOSAL

FOR CONSTRUCTION MANAGEMENT CONSULTANT SERVICES

SR-60/MORENO BEACH INTERCHANGE PHASE 2 IMPROVEMENTS

January 22, 2021

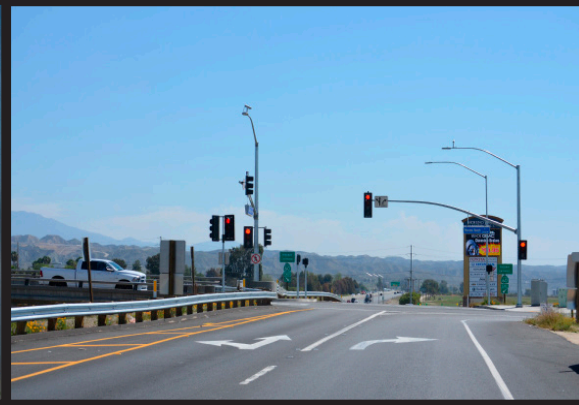




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COVER LETTER



COVER LETTER
January 22, 2021

City of Moreno Valley
14177 Frederick Street, PO Box 88005
Moreno Valley, CA 92552

Re: Construction Management Consultant Services for State Route 60/Moreno Beach Interchange Phase 2 Improvements for the City of Moreno Valley’s Capital Projects Division Project No: 801 0021/Project ID: CT0812000059/EA 32303

FALCON Team is proud to present our proposal for the Construction Management Services for the SR-60/Moreno Beach Interchange, Phase-II. FALCON was fortunate to have provided CM services for the SR-60/Nason Interchange (IC) and Moreno Beach IC-Phase-I. Both projects were managed by the same CM team concurrently. **Nason IC was open to full-width traffic in 11 months, including 2-stage bridge, ramps, and Nason Street; Moreno Beach Eastbound off/on-ramps and portion of Moreno Beach Blvd. Phase-I was opened to traffic in 7 months. Our proposed work plan on this Moreno Beach IC-Phase-II includes a detailed schedule and staging timeline that highlights all critical issues and an innovative approach that completes the bridge and opens to traffic in ~11 months with schedule savings exceeding ~40%. These savings extend to Contractor’s OH cost, CM cost, but more importantly, minimized exposure to the City and less inconvenience to the businesses, residents, and traveling public. SR-60/Nason IC project won the 2014 Project of the Year award from the American Public Works Association (APWA) and Construction Management Association of America (CMAA). SR-60/Moreno Beach IC-Phase-II is a smaller version of SR-60/Nason Street IC (since EB Off & On-Ramps) have already been realigned to the ultimate configuration.**

FALCON is a certified Disadvantaged Business Enterprise/Small Business Enterprise (DBE/SBE) specializing in construction management and inspection services for transportation and public works projects. Our expertise includes highway infrastructure, major freeway widenings/improvements, interchanges, grade separations, local street improvements, pavement rehabilitation/improvements, major storm drainage systems/channels/detention basins, and various retaining walls, including MSE walls and soil nail walls. Our experience further includes new ramps, ramp realignment, widening, landscaping, hardscaping, planting and irrigation, drainage systems, utility relocation, sewage systems, water systems, and elaborate temporary shoring systems.

The following list includes similar projects managed by FALCON:

Over the last 13 years FALCON Team has completed major similar construction projects in the Inland Empire (all with Federal/State/Local Funding, Caltrans (CT) Local Assistance Procedures Manual (LAPM), with CT Oversight (OS), CT Filing System Procedures. A list of similar Projects includes:

- SR-60/Nason Street IC (Moreno Valley) **FALCON-Prime**
- SR-60/Moreno Beach IC-Phase-I (Moreno Valley) **FALCON-Prime**
- I-15/Limonite Interchange (Eastvale and Jurupa Valley) **FALCON-Prime**
- SR-60/Potrero Interchange (Beaumont) **FALCON-Prime**
- SR-60/Truck Climbing Lane [Badlands] (RCTC) – (Ongoing) **FALCON-Prime**
- I-215/Van Buren Interchange (Riverside County) **FALCON-Prime**
- I-10/Citrus & Cherry Interchange Improvement (SBCTA) **FALCON-Prime**
- Clinton Keith Extension, Riverside County (On-Call) **FALCON-Prime**
- SR-91/Van Buren Interchange (City of Riverside) **FALCON-Prime**
- Magnolia Avenue Grade Separation (Riverside County) **FALCON-Prime**
- River Road Bridge Replacement (Riverside County) **FALCON-Prime**
- On-Call Inspection (City of Moreno Valley) **FALCON-Prime**



FALCON is proud to bring our award-winning CM team that has supported the City of Moreno Valley on Nason IC & Moreno Beach Phase-I projects in the past on this project. CM team is led by Wael Faqih, PE “Project Manager,” Juan Rojas, PE “Resident Engineer,” and Abunnasr Husain, PE “Structures Representative.” We have selected Key FALCON Team members that have over 102 years’ combined experience. We are incredibly proud of our team’s ability to deliver complex freeway improvement projects ahead-of-schedule, under budget, without claims, and with outstanding customer service for the local community. This is done in conjunction with continuous coordination with Caltrans (CT)/Oversight (OS) and strict enforcement of all applicable regulatory and environmental permits. **Our Inspectors are cross-trained and have structures and roadway experience. This gives us an advantage and flexibility in this field while supporting cost savings and eliminating a learning curve.**

Our Project Manager will be Wael Faqih, PE. **Wael Faqih, PE**, with 39 years of experience, has led over 15 similar interchange projects similar to Moreno Beach Interchange Project “all in the Inland Empire.” Wael was the Project Manager for both the Nason and Moreno Beach Phase 1.

Moreno Beach Phase I Eastbound off/on-ramps and the traffic was opened in 7-months. Nason’s bridge and the IC was opened to full width traffic and completed in 11-months. 2-stages bridge under budget, no claims and received APWA and CMAA award. Specifically, completed all hardscaping work on Nason IC project under a Force Account CCO ~\$2.8M when the contractor refused to accept the City’s proposed unit rate (contractor offered almost double the proposed unit rate). With our strong presence and unmatched QC team completed the Extra Work and finally, the cost was as we originally proposed to the Contractor.



Our Resident Engineer, **Juan Rojas, PE**, brings over 33 years of experience in the construction management and inspection of heavy civil projects, contract administration, and field office engineering. Mr. Rojas' knowledge extends to freeway widening, highway and bridge construction, interchanges, grade separations, railroad, and river bridges, sewer & drainage disposal systems, reinforced concrete channels, highways (JPCP & AC pavements), and local street improvements (widening, overlay, signals, landscaping/hardscaping, major drainage, sound walls, retaining walls, and sidewalks). **Juan was the Resident Engineer for SR-60/Nason and SR-60/Moreno Beach-Phase-I projects combined. He provided a work plan that included a detailed Constructability Review, CPM Schedule by re-sequencing & merging some stages that maximize the contractor's use of resources, cut down schedule significantly, incorporate utility relocations/coordination to minimize delay risk. This resulted in at least four months' savings (25.9%) of the construction schedule. Additional savings included ~27% in construction OH cost and ~\$600,000 in CM cost by combining both projects in one CM inspection team. Juan led our team and the City with excellent leadership & oversight to win the APWA and CMAA award.**

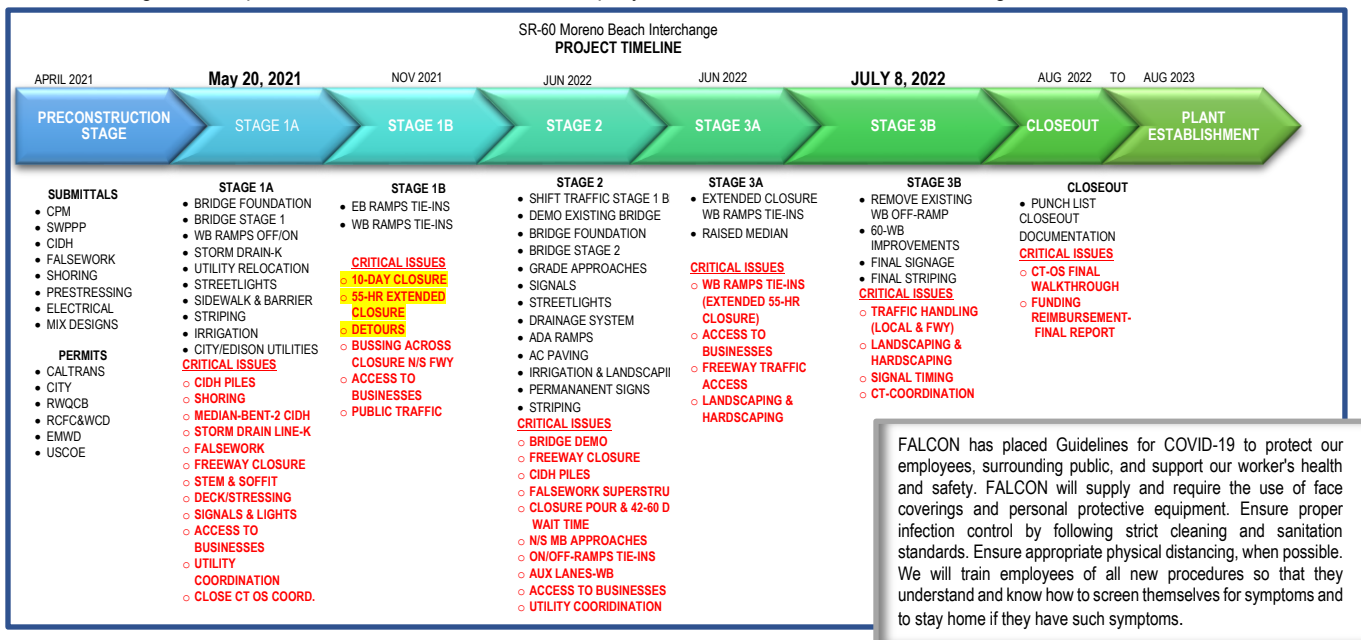
Juan did an outstanding job completing I-15/Limonite Interchange (IC) in ~13Months through daily coordination with all stakeholders, including (RCTD, RCTC, CT-OS, and I-15/DB team). The I-15/Limonite Interchange also won the APWA 2020-year award. Juan is currently the Resident Engineer on the SR-91COP, which will be completed in July 2021, and he will transition to the Moreno Beach project.

Our Bridge/Structure Representative will be **Abunnasr Husain, PE**. Abunnasr has over 30 years of experience as a Bridge/Structures Representative. **Abunnasr is an expert with Caltrans Structure Construction practices and policies on reviewing falsework and shoring, bridge and retaining wall construction, prestressing cast-in-place concrete, cast-in-drilled-hole (CIDH), and driven pile construction, and concrete mix design reviews. Abunnasr was the Structures Representative for the SR-60/Nason project. His knowledge of local conditions, structure details, problem-solving, and cost & quality control are unmatched.**

FALCON has teamed up with subconsultants that already have a proven working relationship. We are committed to continuing our relationship with the City to serve on this project.

KZAB Engineers Structures Rep. Structures Inspection	EXP. Structures Inspection	Z&K Consultants Structures Inspection Roadway Inspection	ZT Consulting Source Inspection
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FALCON Team has done a thorough and detailed review of the plans and held numerous field reviews to gain a clear understanding of the critical issues. Discussed potential traffic impacts with Caltrans, local businesses, residents, and the traveling public. **"All parties expressed significant interest in seeing this project completed in the shortest time possible and local businesses-maintained access at all times."** Our Work Plan explains FALCON's approach to address these concerns and provide opportunities to shorten the Project schedule, effective communication, and maintaining uninterrupted access to all businesses. Principally, our Work Plan includes the following recommendations.



FALCON acknowledges the RFP and Q&A's Set 1, 2, & 3 receipt and acknowledges accepting the terms and conditions contained in the RFP. FALCON takes no exceptions, technical or contractual to the RFP and its appendices. FALCON's proposal is valid for ninety days (90) from the date on this proposal. I, Wael Faqih, PE, am an officer of the firm and authorized to bind the firm to the proposal's terms. I am attesting that all information in this proposal is true and correct by signing this cover letter.

Wael Faqih, PE | Vice President/Project Manager
 341 Corporate Terrace Circle, #101 | Corona, CA 92879 | (951) 264-2350 Cell | (951) 549-9600 Office | wfaqih@falcon-ca.com

A- PROJECT UNDERSTANDING



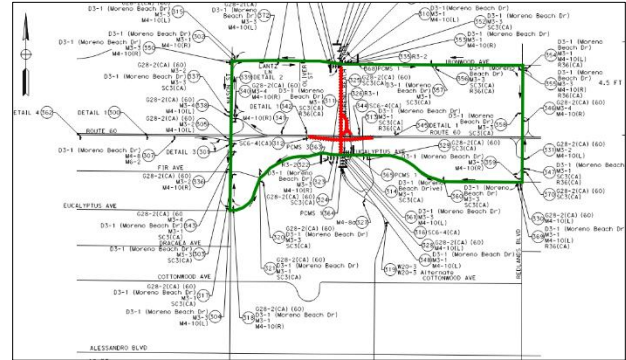
A. PROJECT UNDERSTANDING



FALCON Team has completed many similar projects and is currently working with many Cities, Counties, SBCTA, Riverside County Transportation Commission (RCTC), Riverside County Transportation Department (RCTD), and Caltrans. Our goal is to deliver quality projects on time, within budget, and secure full funding reimbursement. FALCON Team has recently completed several projects with similar features/elements (all within budget, ahead of schedule, and award-winning).

FALCON team understands this project will replace the SR-60/Moreno Beach two-lane bridge with a seven-lane bridge, reconfigure the north side of the interchange, and add a westbound auxiliary lane. The interchange will have a cloverleaf in the northeast quadrant and a dedicated southbound Moreno Beach Drive to westbound SR-60 on-ramp. The eastbound ramp terminals will be raised to meet the grade of the new bridge. A portion of Storm Drain Line K-1 upstream along Ironwood Avenue will be constructed. The City applied for and received an SB1 TCEP grant for interchange construction. Expansion of the current facilities will be needed due to the traffic demand resulting from development.

- **Minimize impact to traveling public, businesses, and residents.**
- **Impact of construction stages (traffic circulation constraints).**
- **Detours during 10-day closures and extended weekend closures. Bussing during the 10-day closure.**



The project scope includes one cast-in-place post-tensioned two-span bridge (constructed in 2 stages and with closure pour) and one overhead (OH) sign structure on each side for EB & WD directions. Cast-in-place concrete double box culverts with warped wing walls are included as **Drainage Systems 18 and 19 that can also be considered part of structures' scope of work as well as 90" Dia. RCP Drainage System Line-K along Ironwood Avenue.**

The project is very similar to the adjacent award-winning SR-60/Nason Interchange Phase 2 project completed by the same FALCON proposed CM Team. This project's understanding compares the two projects and how the FALCON Team will apply experience and lessons learned from Nason Phase 2 to Moreno Beach Phase 2 to make it an equally successful project.

The overcrossing bridge structure 222'-4" long and 124'-4" wide with an eleven cell and 5'-0" deep post-tensioned box girder superstructure with a closure pour between Stage 1 and 2 construction. Both abutments and the center bent are founded on 24" CIDH piles. The piles are 43', 52', and 45' deep at Abutment 1, Bent 2, and Abutment 3, respectively. Center bent has six 5' diameter columns that flare to 10' wide at the top. All columns are pinned at the footing and fixed at the top. The bridge has a 2% superelevation on each side with a high point at the center and a mild vertical curve. There is a superelevation grade break in Stage 2 construction. Deck concrete has polymer fibers. The bridge will have two mounted signs with a walkway for each freeway direction.

FALCON Team has superior knowledge of the following:

- *Intimate knowledge of Local Site Conditions & Stakeholders.
- ***Same PM/RE/SR & CM team from Nason & MB-Phase-1**
- *Excellent savings, quality, QC/QA & award-winning project (APWA/CMAA).
- *Excellent CM team-cross trained.
- *Excellent support team.
- *No claims, under budget, safe, quality project.
- * **Schedule & cost savings: 7M schedule reduction (~164WDX \$2400/WD) = \$393,600 (TRO)**
- CM Cost Savings 7Mx~\$100,000--\$700,000**
- Contractor OH & Equipment Rental Savings ~\$400,000**
- Anticipate bids to come lower than Engineer's Estimate by 12%-20% = \$2-\$3M savings.** The work area/staging area is spacious, not impacting traffic, and is very productive daily with no significant issues/hurdles.

STRUCTURES CONSTRUCTION ELEMENTS

Structures construction and scope of work are generally straightforward with typical and simple structure types "Similar to Nason IC" and adequate available space for construction posing no significant technical challenges except:

- **Providing continuous access to businesses.**

Utilities installed in the bridge include:

- Electrical conduit bank for current and future high voltage Moreno Valley Utility lines.



- Electrical conduit bank for future high voltage Southern California Edison lines.
- Two future utility openings in different bridge cells.
- Caltrans irrigation water supply line.
- 4 – 1 ½”, 4 – 2”, and 2 – 4” diameter conduits in the western sidewalk and/or barrier for signals, lighting, and future uses.
- 2 – 2” and 2 – 4” diameter conduits in eastern sidewalk and/or barrier for lighting and future use.

The bridge's architectural features include lighting, a picket railing fence, two decorative pilasters with the City's logo at each approach, and treatment on the sides of barriers and abutments slope paving.



The minimum vertical clearance of 17'-7" is on the south side at the edge of the eastbound shoulder, allowing for ample room for standard falsework to maintain minimum construction vertical clearance. Shoring is expected to construct the median bent footings and to construct Stage 1 abutments. Removal of asbestos is anticipated prior to demolition of the existing bridge.

Comparison to Nason Overcrossing

The length of the overall bridge and individual spans are identical for Nason OC and Moreno Beach OC. Other features of the two bridges are also almost the same in every respect allowing for a direct comparison of past performance and lessons learned. Key differences include:



- Moreno Beach OC is approximately 15' wider with one additional box girder cell.
- The median bent of Nason OC was on spread footings and is on 24" CIDH piles at Moreno Beach OC.
- More utilities are carried through Moreno Beach OC than Nason OC, but several are empty conduits.
- Deck concrete will have polymer fibers in Moreno Beach OC.
- Nason OC has barriers at the sidewalk edges on top of the bridge deck; Moreno Beach OC will only have a raised center median.
- There is more vertical clearance available for freeway traffic at Moreno Beach OC.

Nason OC Stage 1 was constructed in 3½ months and opened to traffic in 4 months. After that, the existing bridge was demolished, and Stage 2 was constructed with the full width of the bridge opened to traffic in 11 months. With the above-noted comparison, **FALCON Team is confident that we can repeat the same performance and finish constructing the bridge and the overall project in as little time as technically feasible.** Note that overall structures scope is less for this project than Nason Phase 2

as Nason included a long sound wall on CIDH piles with architectural precast panels.

Key Issues and Lessons Learned

There are a few key issues to manage to ensure expedited construction and delivery. These are discussed below, along with FALCON Team's experience with these same issues at Nason Phase 2 project.

CIDH Piles

This was the single biggest issue faced during the construction of Nason OC. Underground work of any nature is the most unpredictable element in any project and could easily trigger differing site conditions claims. While difficult drilling was expected at Nason, our team encountered solid granite at multiple pile locations. This delayed the piles schedule due to equipment breakdown and broken drill bits for which replacements had to be ordered. Groundwater was also encountered at elevations much higher than anticipated from the boring logs. FALCON Team kept detailed logs with time durations to prove the actual impact of differing site conditions and negotiate a change order at less than half the claim's cost. Our team also helped the Contractor recover lost time with proper planning of the following activities to maintain the overall expedited project schedule. The wet method for CIDH piles was avoided by pumping out groundwater just before the concrete placement. This was acceptable at the location due to the slow rate of groundwater filling the holes and the nature of non-caving granite material.



Lesson Learned:

Comparing the log of test borings between the two projects shows that practical refusal was encountered at all boring locations at Nason well above the pile tip elevations and borings were terminated. At Moreno Beach, on the other hand, all borings were successfully advanced to depths well below the proposed CIDH tip elevations. Similarly, while groundwater was encountered in borings at Nason, water was not encountered in borings at Moreno Beach. Note that Moreno Beach OC is situated approximately 20 feet higher than Nason OC, which might have contributed to these differences in soil conditions and groundwater.



Considering the above observations, **it is expected that CIDH pile operations will go smoothly at Moreno Beach. FALCON Team will ensure that contingency planning is included in the required CIDH submittal based on experiences at Nason prior to the approval of this submittal. The submittal still must address the potential for difficult drilling, caving soils, and groundwater, as well as testing, acceptance, and mitigation in**

the event that wet method must be used. One additional consideration for this project is the need for CIDH piles at the center bent located in the freeway median. Our team will ensure that the CIDH Placement Plan addresses safety, storage of equipment and materials, and ingress/egress to the work area.

Abutments

Bridge abutments and wing walls require smooth alignment transitions and vertical plumb; slow rates of the pour to ensure forms do not bulge or fail; proper vibration and consolidation of concrete to avoid honeycombing and rock pockets; and proper installation of drainage systems. **Shoring is likely required on the side of Stage 1 abutments adjacent to the existing bridge and temporary stable cuts into existing soils at other locations.**



Lesson Learned:

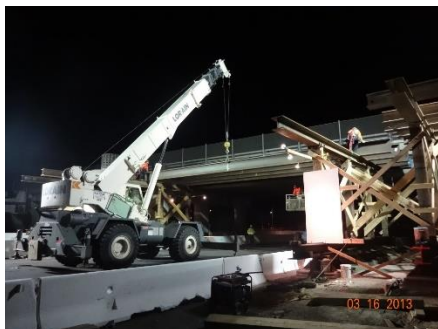
Soldier pile shoring was designed for one abutment at Nason OC. The drilled hole adjacent to the existing structure started collapsing with embankment fill underneath the existing abutment.



The hole was stabilized with cement slurry and design modified. The experience allows our team to review any shoring submittal for similar issues and strive to avoid them from happening.

Superstructure

The successful construction of superstructure elements includes careful calculation and implementation of grade control; proper vibration of concrete in the stems around congestion due to reinforcing and post-tensioning ducts; adequate placement rate and supply of concrete for the deck; backup plans in case of supply disruption or pump failure; and protection for the vehicular traffic underneath the falsework. Our team will provide proactive inspection for these typical items of concern and ensure that safety railings are provided where required with plywood boarding on the railing over the freeway to protect items falling onto the freeway traffic. Notices of temporary and permanent clearances will be filed in a timely manner to Caltrans HQ Permits before constructing falsework and after its removal.



Lesson Learned:

A portion of the exterior girder in a tight location

adjacent to the existing bridge developed honeycombing and leak in a post-tension duct. This was discovered in advance of post-tensioning and grouting operations due to an air pressure test performed out of an abundance of caution. This discovery before post-tensioning and grouting resulted in less damage and disruption compared to if it were discovered after the start of grouting. The area was fixed using high strength and rapid cure concrete. This experience allows our team to inspect tight and congested spaces for proper vibration and avoid any damage to the post-tensioning ducts. Fortunately, the air pressure test voluntarily performed at Nason OC is now a Caltrans Standard Specifications requirement.

Demolition of Existing Bridge

Safety will be the single most crucial factor for demolition. Removal will be performed with a nighttime freeway closure in the direction over which a span will be removed. For comparison, the existing Nason OC was removed in one night over both freeway directions. A submittal with detailed removal procedures and timeline will be required, along with any necessary calculations. The calculations must substantiate safe load-carrying capacities for every stage of demolition. The submittal will need to identify off-haul large amounts of debris the same night or adequate laydown area close to a later off-haul. Contingency planning must be submitted on how to restore the freeway lanes on time in unforeseen circumstances. It is expected that debris will be hauled off after breaking up large chunks and separating the reinforcing steel from concrete. Safety procedures will include minimizing and containing any flying debris. **Our team will carefully evaluate the demolition plan, contingency plan, and safety elements as noted above and will approve only after being completely satisfied that the submitted plans are feasible. We will then ensure that the approved plans are implemented in the field as intended.**



South Coast Air Quality Management District (SCAQMD) must be notified at least 15 days before demolition activities.

Lesson Learned:

Asbestos pipe was expected in the sidewalk of the existing Nason OC bridge. As such, a removal plan was prepared and approved after several iterations. However, that ran into difficulties with 4 such pipes discovered instead of one and equipment breakdown. The situation became worse as the full-bridge demolition was planned the same night. Prime contractors had to step in to help their sub, and the removal was successfully accomplished well after the normal work



hours with just a couple of hours to spare before the bridge demolition. The lesson here is to expect that sometimes things will not go as planned and, therefore, to allow for some separation between two critical activities.

Utilities in Bridge and Schedule

Construction of 3rd party utilities inside a bridge cell could impact the schedule if not coordinated well and are delayed. Fortunately, the only active lines installed are a 6.9kV electrical line for Moreno Valley Utility (MVU) and a 3" irrigation water supply line for Caltrans. Others are conduits for future MVU and SCE electrical lines and openings for other future utilities. It is expected that the bridge contractor will install these lines to the owner's standards and owners will inspect for acceptance. If so, this should have minimal to no impact on the schedule as the bridge contractor will retain work control. However, installing the one active 6.9kV line is within Stage 1 bridge, whose opening is more critical to maintain the overall project schedule than Stage 2 bridge construction.



Long Lead Items

Architectural light poles, decorative picket rail fence, City logos for pilasters, and bridge mounted sign structures are possible long-lead items. FALCON team will ensure to get the submittals early from the Contractor and get them to order early.



Lesson Learned: The above-mentioned architectural items were delayed for Nason OC. That resulted in a design change to accommodate these after the bridge barriers were poured and some minor delays that did not impact the overall project schedule. However, since these elements are the same as those at Nason OC, the underlying approvals are already accomplished, and implementation will be easier for this project.

Overhead (OH) Sign Structure

OH Sign OS5-1 is a cantilever truss structure on a Type VII post and a 60" diameter and 23' deep CIDH pile. This is also a long lead item that requires shop drawings submittal and CIDH considerations mentioned above for the bridge. Maintaining a 60" diameter hole will require proper fall protection measures around it.



In Conclusion:

While construction of massive structures over and along active traffic areas are always challenging, the issues likely to be encountered for structures construction for this project are the ones that are routinely encountered during any project and already experienced by this team on the adjacent Nason Street OC Phase 2 project. Our proposed Structures Representative and the FALCON Team have a history of successful delivery of comparable projects. **Our Structures Representative was awarded two Caltrans Partnering-in-Motion awards and the annual Excellence-in-Partnering award** on a very complex interchange project at the Port of Los Angeles. He served as the Principal Assistant Resident Engineer and Structures Representative. Structures close-out was accepted by Caltrans several months ahead of the project completion. Perhaps the best acknowledgment of successful structures delivery was expressed by the Caltrans Oversight Structures Representative for the adjacent Nason Street OC – **“Attached is the Structure Punch List for Nason Bridge: “Paint the bridge name and number at the locations shown on the Project Plans.” This is the shortest punch list in my 16 years with Caltrans. Thank you Abunnasr for your good job and your cooperation. Nason Bridge looked awesome”.**

ROADWAY AND DRAINAGE CONSTRUCTION ELEMENTS

Major Construction Elements include:

- Construct new cloverleaf alignment WB off-ramp, WB on-ramp, and WB loop on-ramp.
- Construct detention Basin at the NE quadrant
- Construct JPCP Ramp Termini at the top of New WB off-ramp and newly elevated EB off-ramp.
- Construct WB Auxiliary lane starting east of the WB off-ramp to the west of WB on-ramp tie-in to SR-60- WB.
- Widen existing Moreno Beach Dr. south and north of the newly constructed Overcrossing and to match the ultimate widening on both sides.
- Construct/adjust/upgrade signalized intersection at all intersections with Moreno Beach Dr.
- Construct street lighting along Moreno Beach Dr. and new WB off & on-ramps, and WB loop on-ramp.
- Construct ramp metering along the WB on-loop on-ramps
- Construct sidewalks, curb & gutter, and ADA compliant ramps at various locations and signal crossings at the top of the ramp's intersections with Moreno Beach Dr.
- Structural sections of the WB off/on & loop on-ramps comprise of CL-II Aggregate Base, 0.6'-1.75' Type-A AC and topped with 0.2' RHMA (Type-G)
- Structural Section of new improvement along SR-60WD0Auxiliary lane comprises of 0.5' CL-II AB, 0.6'-1.75' AC-(type-A) topped with 0.2' RHMA (Type-G)



- Roadway Structural Section along Moreno Beach Drive comprises of 0.65' Class-II AB, 0.45' HMA (Type-A) and topped with 0.2' RHMA (Type-G).



Storm Drainage Elements: The table contains all Drainage Systems constructed during various stages and adjusts existing drainage systems south of the freeway/Moreno Beach Drive as profiles are raised along the EB Off/On-Ramps a section of Moreno Beach Drive. All these drainage systems are tied to a specific construction stage. **(See Table).**

All above Drainage systems are scheduled to be constructed within various stages and must be expedited accordingly. They may impact traffic circulation, and if; they will need to have shoring for support to allow overnight closure and be opened to traffic during the day. This method is not recommended and rather constructed during the specific stage construction where production will be more expeditious and less costly.

All these elements are time-dependent of other activities within the specific stage, such as (excavation, backfilling slopes, dependence on a specific detour/ timeline) except Major Storm Drainage Line K along Ironwood, which is not dependent on any specific stage as it runs along Ironwood (north of the freeway). It can be executed using another construction crew and is dependent on keeping Ironwood open to traffic at all times by placing K-rails in increments of ~180'-200' stretches, keeping the signal active at Ironwood/Moreno Beach active by constructing a bypass at the intersection (require signal alteration-Temporary).

Lastly, the most critical item is relocating **the 12" water line conflicting with the 90" RCP storm drain at the west end of Ironwood. Early coordination of the water line relocation is extremely critical.**



Utility Table			
DS#	LENGTH	FILL ABOVE PIPE	PIPE TYPE
1	502.3	BELOW OG	V-DITCH-CONCRETE
4&12	1155.16	BELOW OG	V-DITCH-CONCRETE
5	0	FILL-ADJUST DI	EXISTING 12" WATER LINE INSIDE 18" SLEEVE ABOVE 24" RCP-CONNECT TO BRIDGE DRAINAGE
6	0	FILL-ADJUST DI	24" RCP- ADJUST DI-CONNECT TO BRIDGE DRAINAGE-8"
7	0	FILL-ADJUST DI	44" APC-ADJUST TO GRADE
11	200	BELOW OG	72"-24"RCP & 200' BIOSWALE
13	569.5	BELOW OG	CONCRETE DITCH
12	217.16	~UNDER OG & 26'FILL	24"RCP
14	52.5	24"RCP IN FILL	INSIDE SLOPE-FILL
15	295.28	UNDER/OVER OG/FG	18" RCP-CROSSING & SIDE SLOPE
16	336.1	UNDER/OVER OG/FG	18" RCP-CROSSING & SIDE SLOPE
18	235.6	EARTHEN SWALE	
	460.8	CONC V-DITCH	
	35.6	24" RCP	
	231.7	10.5X5.5' CONC.	TRAPEZOIDAL CHANNEL
	120.1	3X5 D RCB	
19	342.9	UNDER OG	5X5 TRAPIZOIDAL CONC. CHANNEL
	274.6	UNDER OG	5X4 TRAPIZOIDAL CONC. CHANNEL
	945.4	UNDER OG	4X3 TRAPIZOIDAL CONC. CHANNEL
20	472	UNDER OG	CONCRETE V-DITCH
21	283	UNDER OG	BIOSWALE
22	10	UNDER OG	24"RCP EXTENSION
23	223	AT OR UNDER OG	18" RCP-CROSSING & SIDE SLOPE
17	55.3	UNDER OG	18"RCP
27	12.7	UNDER OG	8" RCP
26	58.5	UNDER OG	18"RCP
TOTAL DRAINAGE	7089.2		

Storm Drainage-Line K

This line is comprised of a 90" Dia. x 1,516.33' RCP, 89.76 (7'x7') RCB, and 3x48" Dia. Running along Ironwood Avenue, crossing Moreno Beach North of the SR-60 Freeway. This line is designed to be constructed as a separate **operation independent of other project activities**. It can be constructed using a special crew at any time and expected to be completed in 40-60 working days. Duration is dependent on the following conditions:

Work is scheduled to progress in ~180' stretches/increments with K-Railing and shoring "as applicable" and maintaining traffic at all times. (CRITICAL)

Relocation of conflicting 12" water line by EMWD "Eastern Municipal Water District." (VERY CRITICAL)

Crossing across Ironwood/Moreno Beach while maintaining signals/detours/bypass. (VERY CRITICAL)

Relocation of other "potentially conflicting utilities." Depending on the potholing findings (CRITICAL)

Signal at the Ironwood/Moreno Beach intersection. This signal must stay operational is critical to coordinate this relocation with EMWD as early as possible and constructed along Ironwood.

B- APPROACH AND MANAGEMENT PLAN



B. APPROACH AND MANAGEMENT PLAN

FALCON Team/staff has gained experience working on local City projects with the City of Moreno Valley and numerous similar Interchange Improvement projects in the Inland Empire in and around the City of Moreno Valley, all within Caltrans right-of-way on SR-60, 91, 215, I-15, and I-10.

Wael, Juan Rojas, and Abunnasr managed **SR-60/Nason & Moreno Beach Phase 1 Interchange**, SR-215/Van Buren Interchange, I-15/Limonite Interchange SR-60/Potrero, all within CT Right of Way and administered by local agencies similar to this project. FALCON Team worked under the City of Moreno Valley and the City's Project Manager. It provided full CM services, including field inspections and public relations/public outreach services. FALCON aided the City and managed materials testing, survey staking, environmental services.

We have a strong knowledge of the City's procedures and Caltrans standards and procedures. FALCON Team members are the best qualified to transition into this



challenging project and are ready to start by assisting the City with the constructability/bidability review, developing the newly required Quality Management Plan, construction inspection that will continue through to completion and the closeout phase.



RTE-60/Moreno Beach OC will be constructed in 2-stages; Stage 1 includes constructing a new bridge, a 36.0' wide bridge West of the existing bridge" supported on 2-columns to accommodate temporary traffic on Moreno Beach after demolishing the existing bridge. Stage-2 bridge will be 88.33' wide structure supported on four columns. A 3' closure pour will be constructed between both structures with alternative Falsework release, and construction of closure pour options ranging from 42-60 days as detailed on bridge plan sheets (Designer's Recommendations).

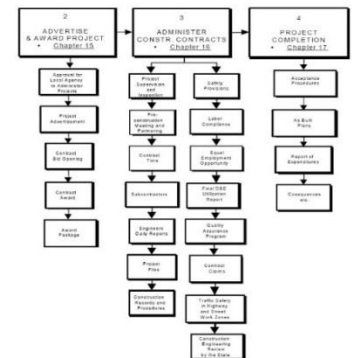
In addition to constructing two falsework openings (SR-60EB & WB), we strongly recommend constructing a third Falsework opening along WB SR-60 to accommodate the traffic on the westbound loop) on-ramp and to minimize the construction duration and early relieve of temporary traffic congestion.

Numerous discussions with various stakeholders, businesses, Caltrans Oversight, and a selected sample of residents/traveling public revealed the need & urgency for this project to relieve existing congestion and long waits during the morning and evening rush hours and shopping seasons. Residents and businesses stressed their desire for speedy completion of the bridge that is increasingly becoming a bottleneck for traffic and added congestion at Moreno Beach/south of the freeway and backup on the WB ramps.



FALCON Team has experience in managing similar projects and understands the complexity of trying to construct the project, coordinate with all stakeholders, providing the contractor with the space they need to construct the project within the allocated schedule, and at the same time accommodate residents, traveling public & local businesses. We found that the **best way to expedite construction activities is by minimizing the construction duration to the lowest duration possible.**

FALCON's initial review of the plans, specifications, review of proposed construction staging plans, existing conditions, and proposed improvements determined that some **construction stages may be re-sequenced and bridge construction (stage-1 bridge) can start earlier than proposed simply by installing temporary shoring adjacent to existing bridge abutments and expedite constructing Abutments 1 & 3 and bent 2 foundations in the freeway median.**



This will provide **significant schedule savings (~7 Months- ~40%)** and associated Time Related Overhead and other contractor's Overhead Costs and efficiency costs exceeding ~\$2.0M Construction Cost in addition to ~\$600K in CM Cost. But the most **important benefit is to the City, the general public, residents, businesses, and the traveling public.**

REVIEW OF STAGING PLANS FOR EXISTING FREEWAY WIDTH, FALSEWORK OPENING, AUXILIARY LANE, LOOP RAMP CONSTRUCTION, SHOULDER WIDENING, TEMPORARY SIGNALS, AND LIGHTS DURING STAGE CONSTRUCTION WITH INTERMEDIATE PHASES AND POWER SOURCES.

In the following section, we will be discussing staging issues in greater detail and highlighting any potential issues & schedule savings.

SCHEDULE REDUCTION

Given the similarities in Nason Street Interchange Phase 2 and Moreno Beach Interchange Phase 2, the FALCON Team sees no reason why we cannot match our performance and deliver yet another successful project on an expedited schedule to the City. Note that this team delivered Moreno Beach Phase 1 also on an expedited schedule. However, this Phase 2 project has more similarity to Nason Phase 2.

Our Schedule and Work Plan is based on a significant schedule reduction of ~7M to construct the bridge and open to full traffic (from 18M to 11M) ~40%. This will reflect positively on Cost Savings, and most importantly, less inconvenience to the businesses, residents, and traveling public with uninterrupted access to all businesses.

Additionally, expedited project delivery includes an accelerated transmittal of change orders to the Contractor. No amount of coordination, expedited submittals review, and do-it-right-the-first-time attitude on the CM team will motivate a contractor to accelerate project construction except for self-interest. One form of that self-interest is an incentive payment. We feel that it would not be necessary given that the project has potential schedule savings of ~7M, which would overcome any unforeseen delays. Initial savings in TRO is ~40% “this is the start of the cost savings, add to that the contractor’s OH savings & equipment rental cost and CM cost savings.” Finally, additional savings may be realized in locating a surplus dirt source on a nearby SR-60/Truck Climbing Lane project.

CONSTRUCTABILITY ISSUES FOR CONSTRUCTING ABUTMENT-1 & 3, BENT-2 FOOTINGS AND COLUMNS IN THE RTE-60 MEDIAN, MAINTAINING VERTICAL CLEARANCE AND MAINTAINING ADEQUATE CLEARANCE FOR CIDH PILING EQUIPMENT ADJACENT TO LIVE TRAFFIC ON NASON STREET.

Shoring will be needed to construct Stage-1 bridge Abutments 1 & 3 adjacent to live traffic (we recommend reverse shoring system will save the cost of stage-2 shoring).



Coordinating utility relocations with the various utility agencies/owners (through the bridge) and along Nason Street, Freeway, and ramps (power poles, vaults, water lines, sewer lines, drainage pipes, gas lines, fiber optics, communications, streetlights, ramp metering, etc.). Specific issues include coordinating the relocation/ abandoning of **12” diameter water pipe by EMWD, power poles & overhead lines by SCE** prior to starting construction, abandoning various utilities through existing bridge prior to existing bridge demolition, relocating various power poles and underground lines during the various construction stage to be coordinated between the contractor and utility owners (EMWD and SCE).

CONSTRUCTION OF SOME ACTIVITIES IN THE MEDIAN, ACROSS THE FREEWAY, AND RAMPS REQUIRE RAMP/LANE/FREEWAY CLOSURES & DETOURS.

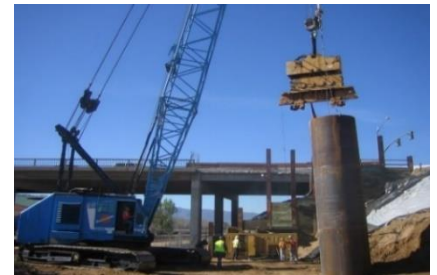
These activities include:

- CIDH piling at Abut-1&3 and bent-2.
- Erection & Removal of Falsework.
- Erection of OH signs along SR-60-EB & WB.
- Construction & stripping of closure pour.
- Ramp Closure.
- Extended closures (55hr weekend closure).
- 10-Day Closure. Prior to switching traffic on the new Stage-1 Bridge.



All related work/closures “within CT ROW” should be coordinated with Caltrans, COZEEP, **CHP, local police & emergency services, and schools.**

Main challenges include a selection of cranes for CIDH piling, tight workspace for lay down & fabrication of rebar cages in the freeway median.



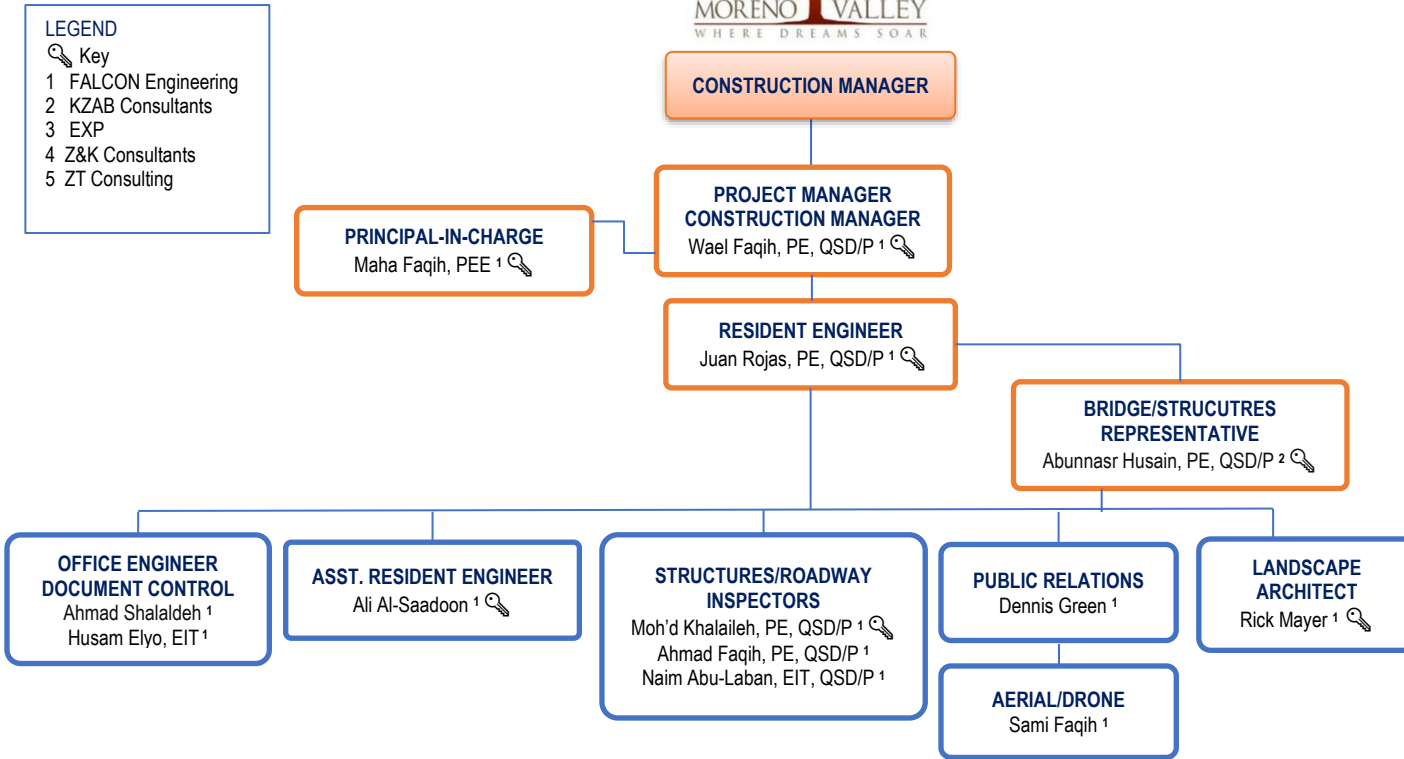
The contractor should submit a detailed bridge removal plan (full or partial) to accommodate CT encroachment permit requirements. It should be assumed that **the contractor should expect to perform the bridge removal over the freeway (during one Full freeway night closure). Should the removal plan require two-night shifts, specific structural stability calculations should be submitted by the contractor to substantiate their plan.**

Coordination between designer and Caltrans Structures Design Oversight (OS) in Sacramento for establishing the mechanism for **reviewing various shop drawings** in accordance with Caltrans Local Assistance Procedures Manual. This was established in advance on the I-15/limonite IC, SR-91/Van Buren Interchange, I-15/Cantu Galleano, and SR-91/La Sierra projects and resulted in a significant number of shop drawings being approved in a timely manner by Caltrans design oversight such as the CIDH Piling QCMP, and pre-stressing shop drawings, PC-PS girders, sound wall, etc.

Being sensitive to the adjacent businesses on the south side of the freeway and residents south and north of the freeway will be achieved through maintaining access during construction and minimizing noise impacts. Also, maintaining expeditious production during closures and minimizing closures on Moreno Beach Dr. and RTE-60.

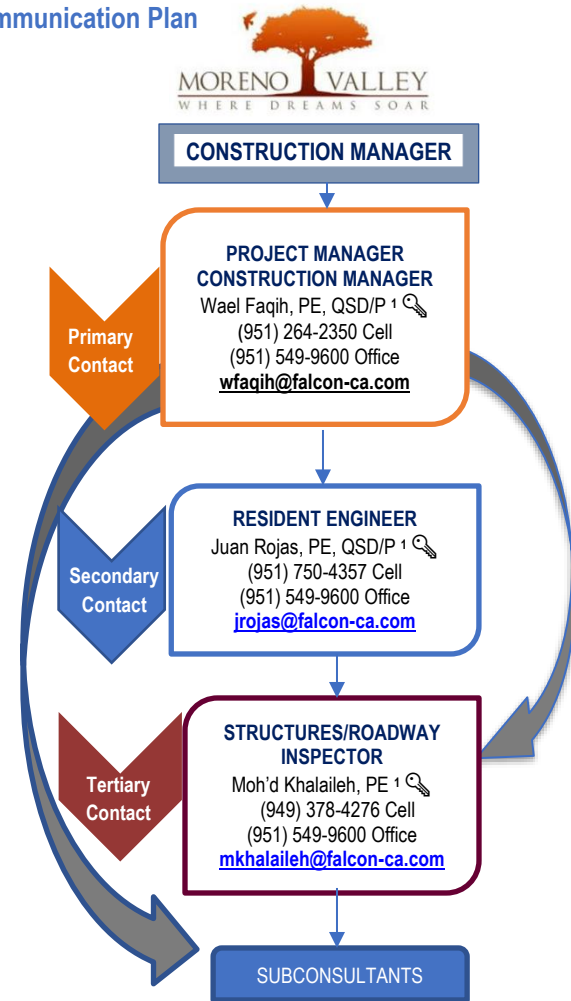


Organizational Chart



ADDITIONAL AS-NEEDED RESOURCES			
STRUCTURES/ROADWAY INSPECTORS Syed Afzal Biyabani 1 Howard Sanders 2 Timothy Kirkley, LSIT 3 Raymond Frangie 4 Noah Hernandez 4	UTILITIES INSPECTOR Naim Abu-Laban, EIT, QSD/P 1	QUALITY ASSURANCE QUALITY CONTROL Ali Al-Saadoon 1	LABOR COMPLIANCE SCHEDULER Moh'd Khalailah, PE, QSD/P 1
	ELECTRICAL/SIGNAL TRAFFIC INSPECTOR Salvador Orozco 1 Ivan Mendoza 1	TECHNICALSUPPORT CLAIMS SUPPORT Wael Faqih, PE, QSD/P 1 Kurt Pegg, PE, QSD/P 1 Tariq Malik, PE, QSD/P 1 Majid Afanan, PE QSD/P 1	SOURCE INSPECTION Farzad Tasbihgoo, PhD, PE 5 Andrew Soria, PCI III 5 Paul Mortsof, PCI II 5 Reid Gerritsen, CWI 5
SWPPP/TRAFFIC SAFETY Dion Castro, QSD/P, ToR 1	LANDSCAPE ARCHITECT John Massoud 1		

Communication Plan



C- QUALIFICATIONS AND EXPERIENCE



C. QUALIFICATIONS AND EXPERIENCE

Our Project Manager, “Wael Faqih, PE,” has 39 years of experience in the design, construction management, and inspection of heavy civil projects, including highway and bridge construction, interchanges, grade separations, railroad and river bridges, sewer & drainage disposal systems, reinforced concrete channels, bridge seismic retrofits, and highways, and local street improvements. He has extensive experience managing multiple projects requiring interfacing and coordinating with Caltrans-Local Assistance Program, Counties, Funding Agencies, Railroad & Utility companies, environmental and regulatory agencies.

Resident Engineer “Juan Rojas, PE” has over 33 years of experience in the construction management and inspection of heavy civil projects, contract administration, and field office engineering. Mr. Rojas’ knowledge extends to freeway widening, highway and bridge construction, interchanges, grade separations, railroad, and river bridges, sewer & drainage disposal systems, reinforced concrete channels, highways (JPCP & AC pavements), and local street improvements (widening, overlay, signals, landscaping, drainage, sound walls, retaining walls, and sidewalks). He has extensive experience managing projects requiring interfacing and coordinating with Caltrans-Local Assistance Program, Counties, Funding Agencies (Local, State, Federal-FHWA), railroad & utility companies, environmental and regulatory agencies. Juan did an outstanding job in completing the I-15/Limonite IC through daily coordination with all stakeholders, including (RCTD, RCTC, CT-OS, and I-15/DB team.) **Juan was the Resident Engineer on Moreno Beach IC (Phase-I). Juan Rojas and Abunnasr Husain were the Resident Engineer and Structures Representative, respectively, on the SR-60/Nason IC.**

PROVEN LEADERSHIP AND EXCEPTIONAL TECHNICAL TALENT:

Wael Faqih, PE, has led over 15 complex interchanges and grade separation projects similar to Moreno Beach Interchange Project. Wael was the Project Manager for both the Nason and Moreno Beach Phase 1. The work was completed with a 6-month reduction, under budget, no claims and received APWA and CMAA award.

He has in depth expertise in the structures design, railroad, bridges, grade separations, interchanges, special falsework design, large CIDH piles, wide bent outriggers/transversely stressed bents, cantilever superstructures, AC & PCC paving, reinforced concrete channels, and local street improvements.

Wael understands the construction logistics and agency requirements for undertaking the various work elements involving demolition & environmental clean-up, earthwork, cut and cover, shoring, and CIDH piles, bridge structure of MSE walls, roads, and utility work.

FALCON'S PROJECT EXPERIENCE

CITY OF MORENO VALLEY: SR-60/NASON STREET IMPROVEMENT, MORENO VALLEY, CA



FALCON provided full construction management and inspection services for this project, which consisted of widening Nason Street, HMA paving, raising the profile of Nason Street, adjusting, and widening freeway ramps, intersection improvements to meet the new profile grade, new traffic signals, ADA ramps, sidewalks, streetlights extensive hardscaping, utilities, drainage improvements, replacing the existing 2-lane bridge and a 1500-ft long sound wall.

The work has included performing detailed constructability review of the project, management oversight of the fieldwork, quality assurance/control of the completed work, source inspection, safety

inspection per Cal-OSHA regulations and enforcement of environmental compliance, including SWPPP, dust control, and execution and cost savings BMPs.

Work also consisted of constructing a new loop on-ramp, realignment/widening of on/off-ramps, comprehensive local street improvements/reconstruction, signalized intersections, ADA compliant sidewalks and ramps, significant utility relocation/ coordination, storm drain improvements, constructing precast sound wall

Client/Owner: References
 City of Moreno Valley
 Margery Lazarus, PE
 Sr. Engineer/Project Manager
 City of Moreno Valley
 14177 Frederick St
 Moreno Valley, CA 92552
 951-205-3491 or 951 413-3133
margeryl@moval.org

Completion Date:
 04/2012-07/2015 Nason
Construction Cost: \$13M

supported on CIDH piles. Constructed major hardscaping and landscaping improvements with a 3-year plant establishment period.

Technical Features:

- Federally funded, Caltrans Oversight, City/CM Source Inspection
- Freeway widening (AC, JPCP)
- Earthwork major grading operation
- New Overcrossing bridge over freeway (2- stages) & demolition of existing bridge
- Cast-in-place/prestressed (CIP-PS) box girder bridge (two spans) over SR-60 Freeway
- Unique falsework due to restricted vertical clearance
- Retaining walls, MSE walls, sound walls
- Construction in multiple stages
- Elaborate shoring system
- Accelerated schedule
- Local street improvement, signalized intersections, ADA compliant sidewalks & ramps, local street widening, reconstruction, grind & overlay, AC/PCC pavement, curb & gutter, median curb, landscaping, and hardscaping

The City of Moreno Valley received the 2014 Project of the Year Award from both the American Public Works Association (APWA) & CMAA for Nason.

Project Management and Inspection

FALCON provided full construction management and inspection services. The work included performing a detailed constructability review of the project, management oversight of the fieldwork, quality assurance/control of the completed work, source inspection, safety inspections per Cal-OSHA regulations, and enforcement of environmental compliance SWPPP, dust control, and Best Management Practices (BMPs).



Benefits to Client

(Nason) Our work plan included a detailed critical path method (CPM) schedule by resequencing and merging some stages that maximized the contractor's use of resources, cut down the schedule significantly, incorporated utility relocations/coordination, and minimized the delay risk. This resulted in a savings of at least four months (25.9%) of the construction schedule. Additional savings included ~\$2.0 in construction overhead cost and ~\$600,000 in CM Inspection cost. The total savings were felt by the residents, businesses, and traveling public from the shorter construction duration and smooth transition between various stages of construction and traffic control.

Key Personnel:

- Wael Faqih, Project Manager
- Juan Rojas, Resident Engineer
- Ali Al-Saadoon, QA/QC Coordinator
- Moh'd Khalaileh, Inspector
- Dion Castro, SWPPP/Safety Inspector
- **Abunnasr Husain, Structures Rep. (KZAB)**

CITY OF MORENO VALLEY: SR-60/MORENO BEACH IMPROVEMENT, MORENO VALLEY, CA



Work for this project included realigning the SR-60/Moreno Beach eastbound off- and on-ramps, adding an eastbound auxiliary lane, installation of a new traffic signal at the new intersection of the eastbound ramps and Moreno Beach Drive, the addition of a retaining wall and ramp metering, an extension of Eucalyptus Avenue to Moreno Beach Drive, modification of the traffic signal at the intersection of Eucalyptus Avenue and Moreno Beach Drive, coordination of utility relocations, irrigation, and related work. The work lied within the State of California (Caltrans) right-of-way. The work included earthwork, grading, Asphalt Concrete (AC) paving, concrete retaining walls, roadway excavation, imported borrow, drainage pipes, and minor concrete structures, concrete curb and gutter, traffic control, signing, striping, traffic and ramp meter signals, irrigation, erosion control, EMWD water line relocation, overhead SCE relocation and related work.

Technical Features:

- Federally funded, Caltrans Oversight, City/CM Source Inspection
- Freeway widening (AC, JPCP)
- Earthwork major grading operation
- New Overcrossing bridge over freeway (2- stages) & demolition of existing bridge
- Cast-in-place/prestressed (CIP-PS) box girder bridge (two spans) over SR-60 Freeway
- Unique falsework due to restricted vertical clearance
- Retaining walls, MSE walls, sound walls
- Construction in multiple stages
- Elaborate shorting system
- Accelerated schedule
- Local street improvement, signalized intersections, ADA compliant sidewalks & ramps, local street widening, reconstruction, grind & overlay, AC/PCC pavement, curb & gutter, median curb, landscaping, and hardscaping

Client/Owner: References

City of Moreno Valley
 Margery Lazarus, PE
 Sr. Engineer/Project Manager
 City of Moreno Valley
 14177 Frederick St
 Moreno Valley, CA 92552
 951-205-3491 or 951 413-3133
margeryl@moval.org

Completion Date:

11/2012-10/2013 Moreno Beach

Construction Cost: \$ 6M

Project Management and Inspection

FALCON provided full construction management and inspection services. The work included performing a detailed constructability review of the project, management oversight of the fieldwork, quality assurance/control of the completed work, source inspection, safety inspections per Cal-OSHA regulations, and enforcement of environmental compliance SWPPP, dust control, and Best Management Practices (BMPs).

Benefits to Client

FALCON provided strict schedule control, effective communications, superior change order control, and quality. Our work plan included a detailed CPM Schedule for each interchange, which demonstrated that the project could be completed in approximately 24 months, saving SBCTA approximately 15-20% of the total construction and construction management cost compared to the current proposed schedule. The total savings included the benefit felt by the residents, businesses, and traveling public from the shorter construction duration.

Key Personnel:

- Wael Faqih, Project Manager
- Juan Rojas, Resident Engineer

- Ali Al-Saadoon, QA/QC Coordinator
- Moh'd Khalaileh, Inspector
- Dion Castro, SWPPP/Safety Inspector

COUNTY OF RIVERSIDE: I-15/LIMONITE INTERCHANGE, EASTVALE, CA



FALCON provided construction management services to assist Riverside County Transportation Department. This project will improve the existing freeway interchange at Interstate 15 (I-15) and Limonite Avenue, located within Eastvale and Jurupa Valley cities in Riverside County. Within the project limits, I-15 currently is a six-lane, three mixed-flow lanes in each direction, accessed, controlled freeway. Along I-15, improvements are proposed from approximately 0.60 miles south to 0.60 miles north of the existing Limonite Avenue overcrossing (OC) bridge. The project extends along Limonite Avenue from Hamner Avenue to Wineville Avenue. The Limonite Avenue OC bridge currently provides two traffic lanes in each direction and two left-turn lanes at the ramp intersections. This project proposes replacing the existing Limonite Avenue OC and widening the roadway from four lanes to six lanes, reconstructing the ramps to provide a partial cloverleaf (Type L-7), and constructing loop ramps in

Client/Owner

County of Riverside Transportation Dept. RCTD

Reference

Khalid Nasim, PE
 Engineering Division Manager
 3525 14th St. Riverside, CA 92501
 (951) 955-3337
knasim@rivco.org

Completion Date:

8/2018-2/2020

Construction Cost: \$39.6M

the southeast and northwest quadrants. The on and off-ramp gore points will be extended, providing longer acceleration and deceleration capacity.

FALCON received the Large Project of the Year 2020 award from APWA for the Limonite Avenue Interchange Project in Riverside County.

Project Management and Inspection

FALCON provided construction management

services to assist RCTD with the demolition and reconstruction of the Limonite Ave bridge into two phases. The phases were constructed subsequently to each other to allow public traffic during the duration of the project. The bridge foundation consisted of two abutments supported by steel piles and a bent containing 5 columns supported by a spread footing. 10-foot-high 1352 long retaining wall supported spread footing and 14-foot-tall 714-foot-long sound wall supported by CIDH piles. The bridge finished texture concrete at the barriers and abutments along with a decorative fence and bridge lights. The Overhead freeway signs were supported by CIDH piles.

Technical Features:

- Freeway widening
- New ramp alignment on/off & loop
- Acceleration / deceleration lanes
- Roadway/street improvement
- HMA & JPCP- pavement
- Signalized intersection
- CIDH & driven piles
- Retaining walls & sound walls
- Striping, marking & thermoplastic
- Stage construction (multiple stages)
- Constructability review
- Accelerated schedule
- SWPPP plan & monitoring
- Traffic control on freeway and local streets
- Night closures on mainline and ramps
- Excellent safety record
- Survey staking & materials testing

Benefits to Client

Performed Bidability/Constructability Review and recommended assigning incentive programs for the Contractor to complete specific milestone activities at a certain date, otherwise facing heavy penalties. Coordinated the start date with RCTC-I-15/Design-Build (DB) team revising construction stages (ramp closures), freeway closures, and milestone completions at certain dates to avoid conflicts with their construction activities. To minimize conflicts with the DB team, RCTC agreed with the DB team to perform all construction improvements within the median (project footprint). The DB team completed improvements along with the outside limits. RCTC provided the DB team with falsework openings under the bridge (within the median), allowing their trucks movements (NB & SB) uninterrupted access. RCTC & DB teams conducted continuous/proactive coordination meetings (both parties attended each other's weekly meetings). The true sense of partnering. **FALCON never had any issues throughout the construction stage with RCTC/DB Team.** Very close coordination with the cities of Eastvale and Jurupa Valley. Close coordination and public relations/outreach with all businesses E&W of the freeway. Very proactive coordination with CT Oversight. Very proactive coordination with contractor (Atkinson) & I-15/DB Contractor. Maintained issue resolution to the lowest level possible. Excellent County Oversight & Project Manager expedited decision making and coordination with the DB team. Significant schedule reduction to 13-Months (started 9/23/2018 and opened Interchange to full traffic by 10/30/19). However, we had a very wet winter and the potential for significant delays. Worked closely with the contractor and devised a recovery schedule to overcome these potential delays. No Claims, No unresolved Issues with RCTC/DB team. Excellent communication/coordination with all stakeholders (Excellent Teamwork).

Key Personnel:

- Wael Faqih, Project Manager
- Juan Rojas, Resident Engineer
- Dion Castro, SWPPP/Safety Inspector

CITY OF BEAUMONT: SR-60/POTRERO BOULEVARD INTERCHANGE, BEAUMONT, CA



FALCON provided construction management and inspection services to assist the City of Beaumont in constructing the SR-60 Potrero Boulevard Overcrossing Project. The project constructed a new 6-lane bridge over SR-60 and included widening SR-60 with JPCP at Western Knolls Ave by constructing acceleration and deceleration lanes in the westbound direction. The project's purpose was to improve access from SR-60 to industrial, commercial, and residential areas in West Beaumont.

Project Management and Inspection

FALCON worked closely with Caltrans to maintain safe vehicular traffic during construction.

Redesigned the full freeway detours to have little to no impact on the traveling public during construction closures. Expedited review of significant submittals and developing a significant Contract Change Order to widen Potrero Blvd. to its ultimate width, saving time and money.

Client/Owner

City of Beaumont

Reference

Ali Tadjalli, Caltrans Oversight Resident Engr
4334 Latham St, #100, Riverside, CA 92507
(951) 522-2326

Ali.tadjalli@dot.ca.gov

Completion Date: 2/2018-6/2019

Construction Cost: \$14M

Technical Features:

- Acceleration/Deceleration lanes
- Freeway widening
- Overcrossing over SR-60 Freeway
- Major earthwork grading operation
- Driven precast concrete piles
- Environmental restrictions
- Stage construction
- Drainage system improvements
- Major utility relocation/coordination (OH power, water, sewer, storm drains, and streetlights)
- Hot Mix Asphalt (HMA) paving, Portland cement concrete (PCC), Jointed plain concrete pavement (JPCP)
- Curb & gutter, sidewalks
- Multi-agency funding/coordination
- Stage construction/roadway closure/ detours/local business access
- Coordination with City of Beaumont, Riverside County, Caltrans, and local Cities

Benefits to Client:

The original Base Line schedule was reduced by 6 months as a result of FALCON's constructability review (18 months to 12 months). FALCON proposed building both bridges at Potrero at the same time to save time and money (a savings of over \$1 million). FALCON also recommended that the City write a CCO after the project was bid to build the new Potrero Blvd. to ultimate width. This resulted in substantial cost savings for the City. The original plan was to have the roadway widened to its ultimate width in the second phase, which would have resulted in the costly construction of sliver fills and cuts and the extension of newly placed storm drains

Key Personnel:

- Wael Faqih, Project Manager
- Kurt Pegg, Resident Engineer
- Tariq Malik, Structure Rep.
- Ahmad Faqih, Inspector
- Dion Castro, SWPPP
- Abunnasr Husain, Technical Support/Submittals Review



COUNTY OF RIVERSIDE: I-215/VAN BUREN INTERCHANGE AND GRADE SEPARATION, RIVERSIDE COUNTY, CA



FALCON provided full Construction Management support services and Field Personnel to the Riverside County Transportation Department (RCTD) on the I-215/Van Buren Boulevard Interchange Improvements Project. RCTD, in cooperation with the California Department of Transportation (Caltrans), March Joint Powers Authority (MJPA), and Riverside County Transportation Commission (RCTC), issued a construction contract to improve the I-215/Van Buren Interchange to accommodate the recent increase in traffic volumes and to facilitate future growth. The reconfiguration of the existing tight diamond interchange included the addition of a new eastbound to northbound entrance ramp; realignment and widening of Van Buren Boulevard, minor realignment of southbound I-215, widening on Van Buren Blvd. and I-215 Freeway between Cactus Ave and Harley Knox, the addition of traffic signals at the northbound ramps, auxiliary lanes along I-215 between Van Buren Boulevard and Cactus Avenue and acceleration/deceleration lanes

south of Van Buren Boulevard, replacement of the existing bridge structures over the railroad and freeway. Various aesthetic treatments were proposed on the bridge structures, retaining walls, and decorative landscaping to reflect the area’s military influence.

Client/Owner

County of Riverside/Caltrans D-8

Reference

Khalid Nasim, PE
 Engineering Division Manager
 3525 14th St. Riverside, CA 92501
 (951) 955-3337
knasim@rivco.org

Completion Date

2/2012-7/2015

Construction Cost: \$32M

The project was completed on time, on schedule, and under budget. The contractor agreed to accelerate construction activities and expedite out of sequence activities, revised/updated schedule reflecting newly arising critical activities, and significant

cost and schedule savings. Minimized ramp and freeway closures alleviated undue hardship to the traveling public, maintain continuous access to March Airfield Museum patrons/visitors, accommodating all military and national events at the adjacent national cemetery. All innovations and improvements were felt by the public and adjacent Air Base, winning their support and appreciation.

Project Management and Inspection

FALCON coordinated all construction activities with multiple agencies and adjacent Air Force Base Operations. FALCON revised/improved various major aesthetic features along the project and bridge to reflect the Armed Forces and Air Force’s various units. FALCON coordinated review and approval of all architectural details closely with the County, Caltrans, and Army/Air Force representatives.

Benefits to Client:

FALCON Team performed constructability review before bid advertising and worked closely with the designer and RCTD revising construction stages and reducing the construction schedule’s duration by 6-Months. FALCON addressed unanticipated environmental issues associated with protected birds and accelerated construction activities to keep the project on schedule.

Key Personnel:

- Wael Faqih, Project Manager/Resident Engineer
- **Abunnasr Husain, Structures Rep. (KZAB)**
- Ali Al-Saadoon, QA/QC Coordinator
- Tariq Malik, Structures Rep./Assistant Resident Engineer
- Mohammad Khalaileh, Inspector
- Dion Castro, SWPPP/Safety Inspector

Technical Features:

- Construct new ramps (on/off/loop ramps)
- Freeway widening Hot Mix Asphalt (HMA), Jointed plain concrete pavement (JPCP)
- Acceleration/deceleration lanes
- Retaining walls/Mechanically stabilized earth (MSE) walls/retaining wall
- Replace existing Grade Separation over BNSF RR
- Elaborate shoring systems
- Local street improvements - signalized intersections
- Drainage systems improvement/reconstruction
- Cast-in-place/prestressed (CIP-PS) box girder bridge overcrossing (OC), CIDH & Driven Piles
- Stage construction/temporary detours
- HMA, JPCP ramps & ramp termini
- Utility relocation/coordination
- Multi-agency coordination
- Unique landscaping features
- Roadway widening/new alignment



RCTC: SR-60/TRUCK LANE, BEAUMONT, RIVERSIDE COUNTY, CA



FALCON is contracted to manage the RCTC “Truck Lanes Project” on State Route 60 between The City of Moreno Valley and The City of Beaumont. FALCON is making sure that the plans and specifications are strictly followed on this very challenging Project. FALCON manages the day-to-day activities with the Contractor on the Project providing direct supervision with Inspectors and Project Managers, performing inspection, testing, progress pay estimates, contract change orders, environmental compliance, SWPPP, and Public Outreach, etc.

Client/Owner: References

Jonathan Skeith
Caltrans Oversight Resident Engineer
464 W 4th St, San Bernardino, CA 92401 (951) 232-7545
Jonathan.skeith@dot.ca.gov

Completion Date:
2019-2022

Construction Cost: \$96M

This project has a unique mountainous terrain! This project is adding an additional lane and shoulders in both the eastbound and westbound directions of SR 60 from Gillman Springs to just west of Jack Rabbit Trail, through an area typically referred to as the “Badlands.” The Project includes moving approximately two million CY of excavation, extensive drainage improvements, and \$20 million of new concrete pavement (JPCP). The scope of work comprises 4 miles of roadway widening, replacing existing AC pavement with

concrete pavement, dedicated new truck climbing and truck descending lanes (Eastbound and Westbound), new inside and outside shoulders, wildlife reinforced box culverts, a mechanically stabilized earth retaining wall, a soil nail wall, and two new 20’x20’ CIP RCB’s constructed under the SR-60 to allow the animals to cross the freeway safely.

Project Management and Inspection

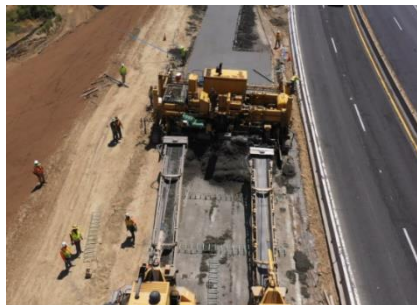
FALCON is providing full Construction Management support services to the Riverside County Transportation Commission (RCTC)

Benefits to Client

SR-60 through the “Bad Lands” has long had a reputation as one of the most dangerous sections of Southern California’s freeway system. Two lanes in each direction constructed over 60 years ago have steep grades that force trucks to climb the route at reduced speeds. When the project is complete, there will be designated lanes for the trucks in both the EB and WB directions, which will improve safety by separating the slow-moving trucks from the fast-moving cars reducing the number of rear-end collisions significantly.

Key Personnel:

- Kurt Pegg, Project Manager / Senior RE
- Tariq Malik, Resident Engineer / Structures Rep.
- Ali Al-Saadoon, QA/QC Coordinator and CCO Manager
- Mohammad Khalaileh, Asst. Resident Engr.
- Dion Castro, SWPPP/Safety Coordinator
- **Abunnasr Husain, Submittals Review**



Technical Features:

- Freeway Widening adding Truck Lanes and Shoulders
- JPCP Concrete Paving (100K CY)
- Asphalt Concrete (HMA) paving
- Extensive Grading
- Extensive Slope Stabilization
- Concrete Barriers
- Roadway excavation (2M CY)
- 20’x20’ CIP Box Culverts (Wildlife)
- MBGR
- CIP Arch Culvert Extensions (Wildlife)
- Drainage Improvements modifying exiting and installing new. (jacked pipe)
- MSE Retaining wall (0.5 miles long)
- Soil Nail Shoring
- Traffic Staging
- Safety
- Electrical
- Extensive Erosion Control
- Environmental Compliance
- Landscaping
- SWPPP
- Utilities (SCE and So Cal Gas)
- Multiple Stages
- Extensive Nightwork and lane closures

SUBCONSULTANT'S PROJECT EXPERIENCE

KZAB Engineers, Inc.

KZAB Engineers, Inc. is a registered **DBE/SBE** corporation in California founded in July 2012 to provide services mostly in the Transportation Industry. Key staff available to KZAB has extensive experience in delivering road, highway, and bridge projects. The firm provides Construction Management, Project and Program Management, Structural Engineering, Independent Design Check, and Constructability Reviews.

I-110/C Street Interchange Reconstruction, Port of Los Angeles

Client Contact Information:
Reference

Leilani Walsh, Harbor Engineer
(310) 732-3225
lwalsh@portla.org

Firm Role:

Construction Management

Team Member/Role:

- Abunnasr Husain, Principal Asst. Resident Engineer and Structures Representative

The project was in the vicinity of three major Port terminals. The closely spaced original intersections contributed to long queues of traffic, including a large percentage of trucks to and from the Port terminals causing a direct impact on economic time and air pollution. The project combined the original intersections into one by realigning Harry Bridges and John S. Gibson Blvd; closed the "C" St access to Figueroa St by providing a cul-de-sac; replaced the I-110 NB off-ramp with a direct off-ramp to EB Harry Bridges Blvd; widened an existing bridge; and constructed a new bridge. The project also included utilities relocation, fiber optics, signals, street lighting, a new force main sewer valve vault, closing a RR at-grade crossing, and landscaping.



EXP provides engineering, architecture, design, and consulting services to the world's built and natural environments. EXP offers comprehensive planning, design, project management, and construction solutions for all types of transportation projects. Whether related to complete streets, intersections, track, bridges, tunneling, grade crossings, maintenance facilities, and train/car storage, or transit stations for the traveling public, we provide multidisciplinary solutions across all types of infrastructure.

Mountain View Avenue Roadway Improvements Project, San Bernardino, California (EXP)

Client Contact Information:
Reference

Inland Valley Development Agency
Karen Cohoe, ACT Project Manager
+1.949.294.4402
kcohoe@advancedciviltech.com

Firm Role:

Construction Inspection, Structures Representative Services

Team Member/Role: Timothy Kirkley, LSIT

Inland Valley Development Agency (IVDA) is the lead agency for the Mountain View Avenue Roadway Improvements Project. This project will replace the two-lane bridge at Mission Creek with four lanes, widen Mountain View from the Mission Creek Bridge to the Santa Ana Bridge, provide a new curb, gutter, and sidewalk to the west side of Mountain View, construct roadway and traffic signals improvements at Victoria and San Bernardino Avenues, realign the access roads to the SCE Mountain View Generating Station, realign and strengthen the walls of Mission Creek and resurface Mountain View Avenue from the



Santa Ana River to Mission Creek. The Project will also provide storm drain, water, gas line, and private improvements along Mountain View Avenue. EXP is providing Construction Inspection and Structures Representative Services.

Client Contact Information:
Reference

Sam Gabriel Valley Council of Governments - ACE
Charlie Nakamoto, PE
Anser Advisory, Resident Engineer
310.373.0327, kcohoe@advancedciviltech.com

Firm Role:

Structures Representative, Structures Inspection

Team Member/Role: Timothy Kirkley, LSIT

Turnbull Canyon Road Grade Separation Project, San Bernardino, California (EXP)

San Gabriel Valley Council of Governments (SGVCOG) and Alameda Corridor-East (ACE) Construction Authority are the lead agencies for the Turnbull Canyon Road Grade Separation Project. This project will separate the roadway and the Union Pacific Railroad tracks on Turnbull Canyon Road in the City of Industry/County of Los Angeles with the construction of a two-lane roadway overpass at Turnbull Canyon Road between Salt



Lake Avenue on the north and Clark Avenue on the south. The project will construct a Pedestrian Over Head Bridge, providing pedestrian access for Turnbull Canyon Road over the UPRR tracks. The project also includes replacing the San Jose Creek Bridge, which will construct a widened bridge with a longer span to provide a bike lane beneath the bridge. EXP is providing Structures Representative and Structures Inspection Services.

Z&K Consultants Inc. (Z&K) is a premier provider of Construction Management and Inspection services. Z&K is a full-service civil engineering firm specializing in professional engineering services ranging from project management, construction management, construction inspection, structural engineering, civil design, plan review, facility assessment, and staff augmentation. **Z&K is a woman-owned, DBE, SBE, and CBE certified small business in California.** Z&K exclusively services public agencies. Z&K has exceptional experience in large-scale heavy-civil roadway projects for Southern California Cities, Agencies, and Districts. Z&K proposed inspectors have extensive experience providing Construction Management and Inspection services for heavy-civil roadway projects.

Z&K has a very strong working relationship with FALCON. Z&K and FALCON have teamed up on numerous projects dating back to 2009, including the following:

- | | |
|--|--|
| 1. I-15 Limonite Interchange, Riverside County | 5. SR-60 Nason Street OC, Moreno Valley, CA |
| 2. I-15 SR-79 South Interchange, Temecula, CA | 6. SR-Potrero Blvd Interchange, Beaumont, CA |
| 3. I-215 Van Buren Interchange, Riverside County | 7. Magnolia Ave Grade Separation Project, Riverside County |
| 4. SR-60/Truck Lane, Beaumont, Riverside County | |

I-10 Cherry Avenue Interchange, San Bernardino County Transportation Authority (SBCTA)

Client Contact Information:

Reference

Rick Aspril, Public Works Inspection Supervisor
(909) 556-4066
raspril@fontana.org

Firm Role:

Inspection Services

Team Member/Role:

- Crystal Faqih, Structural Inspector
- Greg Hunkle, Structural Inspector
- Tom Dawson, Structural Inspector

As a subconsultant to the FALCON Team, Z&K provided Construction Inspection Services for the I-10 & Cherry Avenue Interchanges Improvement, which involved the replacement of existing bridges over the I-10 freeway and widening existing bridges over UPRR tracks, construction of new eastbound and westbound on/off-ramps, the addition of loop on-ramp, realignment and widening existing ramps, realignment of the existing channel with ~3,000 LF of underground structure, construction of Type-1 and MSE retaining walls, sound walls, and arterial street widening along with Citrus & Cherry Avenues.



ZT Consulting Group Inc. (ZTC) is a consulting engineering firm specializing in providing construction quality management, quality surveillance, quality audit, and source quality verification. **ZTC is a certified Small Business Enterprise (SBE) with LACMTA.** ZTC's expertise is in Construction and Source Inspection Quality Management Plan (CQMP and SIQMP) development and implementation, Source Verification, Facility Audits, and Quality Assurance/Verification/Surveillance (QA/QV/QS).

I-10 & Jefferson Street Interchange, County of Riverside Transportation Department (RCTD)

Client Contact Information:

Reference

Ward Maxwell, PM
(951) 955-6885
wmaxwell@rctd.org

Firm Role:

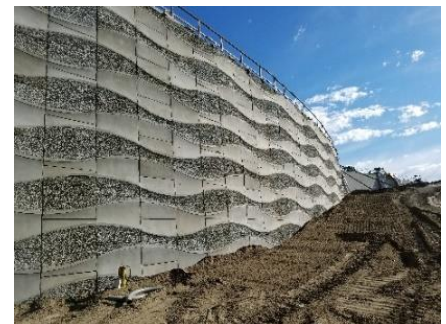
Quality Assurance and Source Inspection

Team Member/Role:

- Farzad Tasbihgoo, Structural Material Representative
- Dan Chang, QA Inspector
- Andrew Soria, Quality Control Manager for Fabricator (QCM)

The project was located within the limits of the City of Indio, in Riverside County on the I-10. The scope of construction was to demolish the existing bridge and northbound Indio Boulevard overcrossing. It was then replaced with a new six-lane bridge, including bicycle lanes on each side and a sidewalk on the northbound side of Jefferson Street.

Scope of ZTC work in the project included preparing the project Source Inspection Quality Management Plan (SIQMP) for Caltrans Oversight SMR, implementing the SIQMP, and reviewing fabricator's quality control plans, performing material engineering, and quality assessment of fabrication. ZTC also coordinated and managed source fabrication items such as welded hoops, epoxy-coated bars, MSE precast panels, overhead sign structures, light poles, electrical components, and more. ZTC was responsible for creating an open line of communication between the fabricators and construction to facilitate the fabrication process.



D- STAFFING PLAN



D. STAFFING PLAN

AVAILABILITY OF KEY PERSONNEL AND PROJECT STAFF OF MAJOR SUBCONTRACTED WORK

FALCON proposed an aggressive ~11Months construction duration with ~40% Schedule & cost savings. Our same CM team demonstrated this on SR-60/Nason and Moreno Beach Phase-I. Our proposed CM team is very lean and has versatile expertise in Civil/Structural/ Electrical/signal, and all have QSD/QSP and 10-30hrs OSHA Training Certifications. We have an unmatched depth of expertise to draw from on an As-Needed basis. Cost savings is demonstrated on multiple levels.

The following table highlights the Key Personnel and project staff of major subcontracted work, including their name, current location, proposed position for this project, current assignment, level of commitment to that assignment, availability for this assignment, and how long they have been with their firm, respectfully.

PERSONNEL MATRIX								PROJECT ELEMENTS											SERVICES PROVIDED								
	Education	Years of Experience	Professional Credentials	Current Firm	Current Assignment	Duration	Availability for This Project	Bridge (CIP-PS Box Girder Super Structure)	Sidewalks/Bike Lanes/ADA Ramps	Drainage Facilities	CIDH PILING – Bridge Demo	Landscaping/Irrigation	Lighting; signals.	New Ramps – Realignment	Auxiliary Lanes	Ramps/ Ramp Metering	Stage Construction	Utility Relocation	Traffic Control/Detours	Scheduling/Claims	Constructability Review	Document Control /Ofc Eng.	Construction Inspection	Public Outreach	SWPPP/Safety	Utility Coordination	
Wael Faqih, PE, QSD/P ¹ Project Manager	MS BS	39	CA PE 55538 QSD/P 26459	12	Corona	On-going	100%	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Juan Rojas, PE ¹ Resident Engineer	BS	33	CA PE 60099 QSD/P 21795	8	SR-91 COP	8/2021	100%	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Abunnasr Husain, PE ² Structures Representative	MS BS	30	CA PE 54224 PMP 16651	8	I-405 Improv 70%	Ongoing	100%	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Mohammad, PE, QSD/P ¹ ARE/ASR/Scheduler	BS	11	CA PE 85544 QSD/P 25946	7	Truck Lanes	1/2022	100%	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Ali Al-Saadoon ¹ QA/QC Coordinator	MA BS	29	NA	2	Truck Lanes	1/2022	100%	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Majid Afanan, PE ¹ Resident Engineer	BS	30	CA PE 50699 QSD/P 26167	>1	Available	Available	100%	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Tariq Malik, PE, QSD/P ¹ Technical Support	MS BS	20	CA PE 79653 QSD/P 23298	12	Truck Lanes	1/2022	100%	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Kurt Pegg, PE, QSD/P ¹ Technical Support	BS	30	CA PE 544853 QSD/P 25608	4	Truck Lanes	1/2022	100%	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Dion Castro, QSD/P, ToR ¹ Traffic Safety Inspector/SWPPP	MA	31	Certifications	9	Truck Lanes	1/2022	100%	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Rick Mayer, LA ¹ Landscape Architect	BS	41	CA LA 1517	3	Various Projects	Ongoing	80%		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓								✓	
Farzad Tasbihgoo, Ph. D, PE ⁴ Quality Assurance Manager	PhD	19	CA PE 71403	7	Pasadena, CA	Ongoing	60%	✓		✓					✓			✓	✓	✓							



City of Moreno Beach

Staffing Schedule

SR-60/Moreno Beach Interchange Phase 2 Improvements



STAFFING SCHEDULE

January 22, 2021

Project Schedule	2021												2022										2023		Total W. Days		
	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sept	Oct	Nov	Dec		Jan	Feb
Calendar days	31	28	31	30	31	30	31	31	30	31	30	31	31	28	31	30	31	30	31	31	30	31	30	31			
Work days	21	20	23	20	22	22	20	20	21	20	20	20	21	20	23	20	22	22	20	20	21	20	20	20			
Award Contract to FALCON -NTP April-2021																											
Constructability Review "During Bid advertisement"																											
Advertise- Award & NTP/ Pre-Const (1/15/2021 to 4/30/2021)	1	2	3	4	5																						
Construction Stage Must Start by (6/1/2021 - 11/30/2022) 18Months						1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18			390-WD	
Construction Stage "Accelerated Schedule" (6/1/2021 - 5/30/2022) 12Months						1	2	3	4	5	6	7	8	9	10	11	12									260-WD	
Post Construction (12/1/2022 -12/31/2022) or (6/1/2022 - 6/30/2022)																											

Estimated Fees	Description	Name	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	April	May	Jun	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Total Hours 18Months	Total Hours 12Months
			Advertise/Award/PreConst							Construction Stage																	Post Const.			
Project Manager	Wael Faqih, PE					24	24	24	16	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8			216	160	
Resident Engineer	Juan Rojas, PE					40	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	40		3120	1960	
Bridge/Structures Representative	Abunnasr Husain, PE (KZ)					24	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	40		3104	1944		
Asst. Resident Engineer	Ali Al-Saadoon						120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120			2280	1440		
Quality Control/Quality Assurance	Ali Al-Saadoon						120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120			2280	1440		
Asst. Resident Engineer	Naim Abu-Laban, EIT						160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160			3040	1920		
Roadway/Structures Inspector/Utilities	Naim Abu-Laban, EIT						160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160			3040	1920		
Structures/Roadway Inspector	Moh'd Khalaieh, PE						120	120	120	120	80	80	80	80	80	80	80	80	80	80	80	80	80	80			1680	1120		
Labor Compliance/Scheduler	Moh'd Khalaieh, PE						120	120	120	120	80	80	80	80	80	80	80	80	80	80	80	80	80	80			1680	1120		
Electrical/Signals (PT-As Needed)	Salvador Orozco						80	80	40	40	40					80	80	80	80	80	80	80	80	80			1080	520		
Office Engineer / Document Control	Husam Elyo, EIT					40	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	80		3160	1960		
Technical Support/Claims Support	Majid Afanan, PE						80	80	80	80	40	40	40	40	40	40	40	40	40	40	40	40	40	40			920	640		
Technical Support/Claims Support (As Needed)	Tariq Malik, PE																										0	0		
Technical Support/Claims Support (As Needed)	Kurt Pegg, PE																										0	0		
Public Outreach /Public Relations	Dennis Green						24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24			384	216		
Drone Aerial/Photo Documentarian	Sami Faqih						24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24			456	288		
SWPPP Review & Inspection (PT-As Needed)	Dion Castro, QSD, ToR						24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24			456	288		
Landscape Architect/Inspection (As Needed)	Rick Mayer John Massoud						40	40	40	40	40	40	40	40	40	60	160	160			160	160	160	160	160		1500	700		
Structures Inspection (As needed)	KZAB (KZ)																										0	0		
Structures Inspection (As needed)	EXP																										0	0		
Source Inspection Services (As Needed)	ZT Consultants						40	40	40	40																	160	160		
Roadway Inspection (As Needed)	Z&K Consultants																										0	0		
Original Construction Duration ~18-Months ~390-Working Days			TRO = 390WD X \$2,400= \$936,000												Man-hours - Original Schedule										21556	13316				
Reduced Construction Duration ~12Months ~260-Working Days			TRO= 220WD X \$2,400= \$528,000												Man-hours Savings															
CM COST SAVING = ~39% \$408,000																														
Total Anticipated Construction OH & Equipments Cost Savings = ~35%																														

E- WORK PLAN AND SCHEDULE



E. WORK PLAN AND SCHEDULE

FALCON will provide the following standard services for the City of Moreno Valley based on our understanding of the project and how to manage aspects of the scope of work during various stages of the project.

SCOPE OF SERVICES

PRE-BID/AAA PROCESS			
Activity	Description	Deliverable	Team Experience
Bid-AAA	Assist the City in finalizing the bid document, draft Invitation to bid, obtain CT-E-76 Approval, promote the project, evaluate bidder/ qualifications, bid opening/analysis, & verify bidder's documentation, award process through the City of Moreno Valley Council	Review and Coordinate with City & CT-OS	Wael, Juan, Abunnasr, Moh'd
PRE-CONSTRUCTION			
Activity	Description	Deliverable	Team Experience
Constructability Review /Plan Review	Review project plans, special provisions, and Permits for possible errors and deficiencies and report findings.	Constructability comments	Wael, Juan, Abunnasr, Moh'd
Project Schedule CPM	Review project baseline schedule provides recommendations and ensures efficiency. Identify critical path for expeditious project completion.	Schedules, Correspondence	Wael, Juan, Abunnasr, Moh'd
Quality Control Plan Source Inspection QMP	Prepare a Quality Control Plan for the project. Prepare Source Inspection Management Plan required by Caltrans.	Meeting agenda/minutes	Wael, Juan, Abunnasr, Moh'd
Budget & Bids Contract Documents Review/Evaluation	Review project estimates, quantities, and provide a recommendation. Check all contract documents to ensure compliance with Caltrans LAPM	Evaluation Report	Wael, Juan, Abunnasr, Moh'd
Coordinate with Utility Agencies	Meet with all utility companies responsible for relocating their lines and equipment.	Meeting agenda/minutes	Wael, Juan, Abunnasr, Moh'd
Project Schedule/ Long Lead Items	Evaluate the Design Engineer's proposed schedule for construction duration and cost. Provide a plan for the procurement of long-lead items.	Construction Schedule	Wael, Juan, Abunnasr, Moh'd
Photograph/Video Document the site	Take pre-construction photos and videotape conditions.	Photos, dated with labels, video	Dennis, Sami
Conforming to City /Caltrans Standards	Review and assist in staging plans, traffic management plans for compliance with the law and project specifications.	Review and monitor plans	Wael, Juan, Abunnasr, Moh'd
DURING CONSTRUCTION			
Activity	Description	Deliverable	Team Experience
Pre-construction Meetings	Arrange a pre-construction meeting with agencies, contractors, the design engineer, and utility companies and address all concerns—review contract administrative items.	Meeting agenda and minutes	Juan, Abunnasr, Moh'd, Ahmad
Contract Award	Review bid for completeness and responsiveness, perform bid analysis, payment schedules, check the reference, licenses, insurance sureties, and coordinate with a contractor to award contracts.	Assist City as needed	Juan, Abunnasr, Moh'd, Ahmad
Project Administration	Administer Project Construction Contracts using Caltrans Construction Manual, Permit Conditions, the City's Standards, and Permit and Procedures.	Conformance to Caltrans and City Procedures	Juan, Abunnasr, Moh'd, Ahmad
Coordination Meetings	Conduct regular project coordination meetings with the Utilities, Caltrans, other agencies, including RCFC&WCD, the City of Moreno Valley, and the Contractor.	Meeting agenda and minutes	Juan, Abunnasr, Moh'd, Ahmad
Project Management Plan	Prepare and implement a Project Management Plan.	Management Plan	Wael, Juan, Moh'd
Construction Inspection	Coordinate all required inspections necessary for the project.	Document daily onsite inspections	Ahmad, Abunnasr, Moh'd, Inspectors
Progress Payments	Prepare contractor's progress payments and maintain records and supporting documentation. The City of Moreno Valley to review and approve.	Certified Pay Request	Wael, Abunnasr, Juan, Moh'd
Project Record Document	Maintain filing system by the City and Caltrans LAPM for project documentation.	Electronic files, project logs	Juan, Abunnasr, Moh'd, Ahmad
Construction Schedule	Review project schedule, provide recommendations, ensure efficiency	Evaluate the proposed schedule	Juan, Abunnasr, Moh'd, Ahmad
Weekly Progress and Schedule Meeting	Conduct weekly meetings to discuss schedule, change orders, new issues, submittal status, RFIs, safety, deficiencies, etc.	Meeting agenda and minutes	Juan, Abunnasr, Moh'd, Ahmad
Monthly Project Report (MPR)	Prepare and submit a monthly report, i.e., SWPPP updates, RFIs, CCO's, potential claims, construction activities update, the status of the project budget and schedule, highlights, and critical issues.	List of critical issues, CCO summary, schedule impact, work progress	Juan, Abunnasr, Moh'd, Ahmad
Review Certified Payroll Labor Compliance	Monitor for compliance with the applicable labor laws and contract requirements, such as prevailing wage requirements.	Verify Payrolls, Employee Interviews	Moh'd, Ahmad
SWPPP	Assist and review, approve, and monitor the Contractor's SWPPP. Review, monitor, document, and enforce contractor safety procedures for compliance with laws and regulations. Monitor project traffic management plan.	SWPPP review and updates	Dion, Juan, Abunnasr, Moh'd, Ahmad
Construction Coordination	Ensure construction progress meeting coordination with the Utilities, Caltrans, other agencies, including RCFC&WCD, the City of Moreno Valley, and the Contractor.	Monitor/Track/ Coordinate	Juan, Abunnasr, Moh'd, Sami, Inspectors
Traffic/Safety	Review, monitor, document, and enforce contractor safety procedures for compliance with laws and regulations. Monitor project traffic management plan.	Conduct regular meetings	Dion, Juan, Abunnasr, Sal, Ivan
Shop Drawings and RFI	Coordinate the review of shop drawings and RFI with the designer.	Log and track submittal/request	Juan, Abunnasr, Moh'd, Ahmad
Deficiency Log	Maintain a log of non-compliant work items. Assist in the implementation and processing of change orders.	Deficiency Log	Juan, Abunnasr, Moh'd, Ahmad

DURING CONSTRUCTION			
Activity	Description	Deliverable	Team Experience
Daily Inspection Report	Document the contractor's daily operations. Provide daily diaries.	Daily Reports, field measure	Juan, Abunnasr, Moh'd, Inspectors
Shoring plans	Review and approve shoring plans.	Review and approve	Abunnasr, Ahmad, Moh'd Z&K
Document Control	Adhere to the City's procedures, maintain a hard-copy file, and maintain a construction filing system.	Accurate documentation	Juan, Abunnasr, Moh'd, Ahmad
Process Submittals	Review and track all submittals for completeness and constructability.	Submittal Approvals & Log	Juan, Abunnasr, Moh'd, Ahmad, Designer, Caltrans
Weekly / Working Days	Issue a Weekly Statement of Working Days, showing days remaining, rain days, etc.	Weekly Statement of Working Days	Juan, Abunnasr, Moh'd, Ahmad
Construction Safety and Health	Review, monitor, document, and enforce contractor safety procedures for compliance with laws and regulations: safety requirements, training, certification, the City's/OSHA Requirements.	Conduct regular safety/tailgate/ meetings	Juan, Abunnasr, Moh'd, Ahmad, Dion, Inspector
"As-Built" Drawings	Review Contractor's red line drawings submitted to the designer.	As Built Redline	Juan, Abunnasr, Moh'd, Inspector
Survey Support	Coordinate and support all construction survey services, as needed.	Provide QA	Wael, Juan
Special Design	Identify the location, which includes drainage, utility, and survey, as needed.	Data Survey	Wael, Juan
Environmental Compliance	Provide monitoring, develop, review, and ensure compliance with environmental commitment report requirements. Review and enforce requirements stipulated in permits issued by regulatory and environmental agencies. Maintain/update the master ECR for project compliance /audit.	Reports and Inspection	Inspectors, ZTC
Quality Assurance / Inspection	Inspect work to ensure compliance with contract documents. Reject unacceptable work using Deficiency Log. Observe the work of special inspectors when required.	Daily Inspection Reports, NCR, and Deficiency Log	Juan, Abunnasr, ZTC, Inspectors
Material Testing Geotechnical	Provide and monitor material testing; review geotechnical reports conform to Caltrans standards, specifications, and special provisions.	Testing Results	Wael, Juan, ZTC
Permits /Easements, Utility Relocation	Continuation of pre-construction activities. Assist in the coordination and scheduling of utility work.	Permits, easements	Wael, Juan, Moh'd
Landscape Hardscape	Registered Landscape Architect provides onsite inspection and provides decisions for planting and irrigation.	Accurate documentation	Rick
Review Contract Change Orders /Claims (CCO)	Review CCO's proposed by the Contractor. Recommend needed CCO's, and track cash flow for CCO's. Perform claims administration, coordination and monitoring claims, response preparation, logging claims, and tracking claims status.	Claims assistance and Logs of Potential and Issued CCO's	Wael, Juan, Abunnasr, Moh'd
Community Outreach	Review and track all submittals for completeness and constructability.	Submittal Approvals & Log	Sami, Dennis
Progress Photos	Issue a Weekly Statement of Working Days, showing days remaining, rain days, etc.	Weekly Statement of Working Days	Sami, Dennis, Inspectors
Safety Program/ Monitoring	Review, monitor, document, and enforce contractor safety procedures for compliance with laws and regulations. Safety requirements, training, certification, City of Moreno/OSHA Requirements.	Conduct regular safety/tailgate/ meetings	Wael, Juan, Abunnasr, Moh'd, Ahmad
CHP-COZEEP & Caltrans Closure Coordination	Review Contractor's red line drawings submitted to the designer.	As Built Redline	Wael, Juan, Abunnasr, Moh'd, Ahmad, Dion

Activity	Description	Deliverable	Team Experience
Project Closeout	Conduct final inspection and walk-through, including maintenance and service personnel, issue preliminary, and final punch list.	Punch List and Notice of Completion	Wael, Juan, Abunnasr, Moh'd, Ahmad
"As-Built" Drawings	Review Contractor's red line drawings and submits them to the designer.	As Built Redline Drawings	Wael, Juan, Abunnasr, Ahmad
Final Walk-through	Conduct a final walk-through with City, Caltrans, local agencies, contractors, and design engineers.	Walk-through	Juan, Abunnasr, Moh'd, Ahmad
Final Pay Request Certificate of Completion	Process the contractor's final payment request, issue a Certificate of Completion, and obtain applicable permits and a Project Final Report.	Final pay request, Certificate of Completion	Juan, Abunnasr, Moh'd, Ahmad
Contract Closeout Audit Support Dispute Resolution	Deliver all project files. Process the contractor's final payment request, obtain applicable permits, and a Project Final Report. Aid in any future audits and resolve any outstanding disputes.	Final pay Req., Project files/ e-files. Cert. of Completion	Wael, Juan, Abunnasr, Moh'd, Ahmad

DOCUMENTING DAILY OPERATIONS AND DIARIES

The Resident Engineer will review all daily diaries and correspondences daily and ensure all documents are accurate and dealt with promptly (letters, RFI's, submittals, emails, and communications with all stakeholders). The City is copied on all correspondences and kept up to date with all issues without overloading the City's Construction Manager with unnecessary paperwork.

FALCON Team members are familiar with Caltrans Construction Manual and LAPM Chapters 15, 16, and 17 that detail specific filing systems "Caltrans Construction Manual documentations" and Local Agency Resident Engineer Manual pre-construction, construction, and closeout phases.

SOURCE INSPECTION

Source Inspection will be conducted per Caltrans "Source Inspection Quality Management Plan (SIQMP)" guidelines. Source inspection relates to all materials manufactured or fabricated away from the job site incorporated into the final product. ZT Consulting Group (ZTC) and FALCON have assembled a team of experienced Structural Material Representative (SMR), experienced QA Source Inspectors, and accredited laboratories to develop and implement a Source Inspection Quality Management Plan (SIQMP) for this project to comply with the requirements of the project, Code of Federal Regulations (CFR), Title 23 CFR 63, the City, and Caltrans.

ZTC will provide certified QA source inspectors, including AWS CWI steel inspectors, ASNT Level II non-destructive testing (NDT) structural steel inspectors, coating inspectors, PCI II precast concrete inspectors, and other source inspectors as needed. Additionally, the source inspection team will work closely with the construction management team, and the City utilize all of the available resources effectively for QA source inspection, sampling, and testing.

Final material acceptance will range from Certificate of Compliance (COC) acceptance to full source inspection by one of ZTC's Certified Material QA Inspectors. ZTC will ensure that all files, QC records, material test reports (MTRs), documents, test results, and engineering reviews are documented and are in conformance with the approved SIQMP. ZTC will file all the source inspection records electronically and provide a copy of the records to Construction. A final material certification in accordance with the project specifications and the approved SIQMP will be provided to FALCON and the City of Moreno Valley.

SURVEYING

Under the City of Moreno Valley Construction Manager's direction, FALCON's Resident Engineer will coordinate and oversee all survey staking services provided by the City selected survey staking firm. FALCON Team will ensure that the main survey controls and monumentation and verify major survey staking (lines and grades) of the main structure and right-of-way limits as a QA measure.



Our Inspectors will verify grade, alignment, and any conflicting utilities/proximity to traffic and establish a safe work environment during construction. Verify centerline ties, centerline monuments, construction survey, construction staking, utility locations, clearing limits, slope staking, storm drain, drainage structures, curb, gutters and sidewalks, rough grade finish grade, etc. It is important to catch any errors in grade at subgrade, where it is much easier to either correct the Contractor's

Our project documents on the SR-60/Nason and Moreno Beach Interchanges, I-15/limonite IC, I-15/79 IC-10/Citrus Avenue & Cherry Interchanges, I-215/Van Buren Interchange, River Road Bridge Replacement, SR-91/Van Buren Interchange & La Sierra Interchange projects were audited by Caltrans and FHWA multiple times and passed with favorable comments from both agencies.

This ensured these agencies a full funding reimbursement.

mistake or revise the grades. If it is a plain error, then we will consult with the designer for clarification.

MULTI-DISCIPLINED STAFF RESULTS IN COST-EFFECTIVE "AS-NEEDED" CONSTRUCTION MANAGEMENT THROUGH STAFFING EFFICIENCY

Our objective is to provide the most qualified Construction Management team members with Caltrans and the City of Moreno Valley project experience. Wael Faqih (Project Manager), Juan Rojas (Resident Engineer), and Abunnasr Husain

(Structures Representative) have managed similar projects and are high caliber engineers that have worked on numerous Caltrans projects. Specifically, they managed the SR-60/Nason Street IC and Moreno Beach Ave. Phase-I, **which is identical to this project.** FALCON Inspectors, at a minimum, will provide the following services:

- ✓ *Inspect the project construction activities at all stages. Produce Accurate Daily Diary supported with pictures and actual field communication.*
- ✓ *Discuss field activities with the contractor before starting work. Coordinate with CT-OS staff.*
- ✓ *Coordinate with a survey crew for staking.*
- ✓ *Review plans for accuracy.*
- ✓ *Check asphalt and concrete mix designs for compliance with contract requirements.*
- ✓ *Verify dimensions and quality of the framework.*
- ✓ *Check the near-completed facilities to identify discrepancies & deficiencies in the Contractor's work and prepare the necessary punch lists.*

Resident Engineer, Assistant Resident Engineers, Structures Representative, and Inspectors will coordinate Final Inspection by CT-OS team and ensure final acceptance, as-builts, and final reports are submitted to Caltrans. The application is submitted for full funding reimbursement.

SAFETY

FALCON recognizes that jobsite safety is the highest priority on any worksite and requires vigilance by everyone. FALCON Inspection staff is knowledgeable with the Caltrans Safety Manual and the OSHA Construction Safety Orders.

FALCON requires 10/30-hour OSHA training for all employees.



All FALCON staff have completed their 10/30-Hour OSHA Safety Training and Certification

SWPPP

FALCON Inspectors understand the importance of managing the Storm Water Pollution Prevention Plan (SWPPP). All the Senior Managers are QSD/QSP certified, and all the proposed Staff is QSP trained. Dion Castro, QSD/P-ToR, will be providing our oversight inspection/ monitoring compliance with the approved SWPPP plan. Mr. Castro provides a similar oversight inspection on all FALCON projects. He is considered a leading SWPPP/NPDES professional in the Inland Empire.

ELECTRICAL & SIGNALS

Under the direction of FALCON's Resident Engineer and FALCON's Inspectors will coordinate with the City of Moreno Valley, the Contractor, and Caltrans Oversight on all requests regarding electrical work.

LABOR COMPLIANCE MONITORING

FALCON Resident Engineer will review the Certified Payroll Records (CPR) submitted by the Contractor and its subcontractors, verify the Fringe Benefit Statement, and compare Employee Interview Report and Daily Reports against Certified Payroll Record for accuracy. FALCON Team will also track and document contractor DIR Certified Payroll Record submission efforts and verify and confirm Contractor DIR registration annually.

Firm Name	DIR Registration Number
FALCON Engineering	1000011720
KZAB Engineers	1000015528
EXP	1000063968
Z&K Consultants	1000029878
ZT Consulting Group	1000377989

UTILITY AND OUTSIDE AGENCY COORDINATION

Our field staff will coordinate with the Contractor and pothole/identify all existing utilities and verify any conflicts with the various construction activities and main structure or roadway improvements. We will implement the following procedure before the start of work:



AS-BUILT PLANS

FALCON's Team will update the as-built plans during the project's construction phase to ensure that plans are up to date. Certified final record revision drawings will be transferred to the City of Moreno Valley immediately at the completion of construction activities and final acceptance.

MATERIALS SAMPLING AND TESTING

The City will select the material testing firm. FALCON will oversee and coordinate testing activities with the city, contractor, and Caltrans OS. Material such as soils, aggregate base, asphalt concrete, and cement concrete will be tested in the field. Our laboratory by Caltrans approved material/construction technicians for compliance with the project plan and specifications. FALCON Resident Engineer is responsible for supervising and coordinating the materials testing program. Sampling and testing activities will be conducted per Caltrans and City/County Standard frequencies and approved procedures.



TRAFFIC CONTROL

FALCON Team is very familiar with working closely with The Contractor, Caltrans Oversight, TMC, and COZEEP to ensure that the traffic control in the Work Area is performed in accordance with The Standard Plans, Traffic Control Handbook (WATCH) Manual, and the Manual of Uniform Traffic Control Devices (MUTCD).



PUBLIC OUTREACH

FALCON Resident Engineer and Public Outreach Coordinators will assist the City with the public outreach effort.



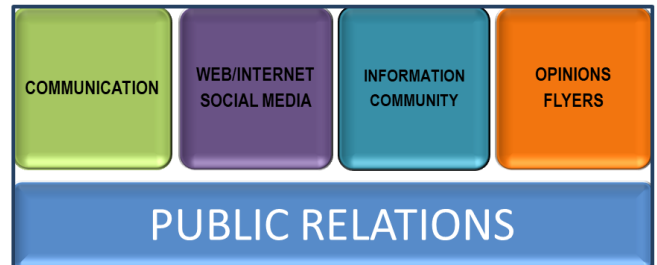
Our Public Outreach will be led by Mr. Dennis Green, "Communications Director" and Drone Technology, led by Sami Faqih "both are experts in their respective fields," serving all FALCON projects throughout the Inland Empire.

Once we have determined the major issues, we will share the information with the City to develop a mitigation strategy to address community consensus. After a strategy has been developed, we will hold public information meetings in English and Spanish to describe the project's scope and strategy for mitigating community concerns.

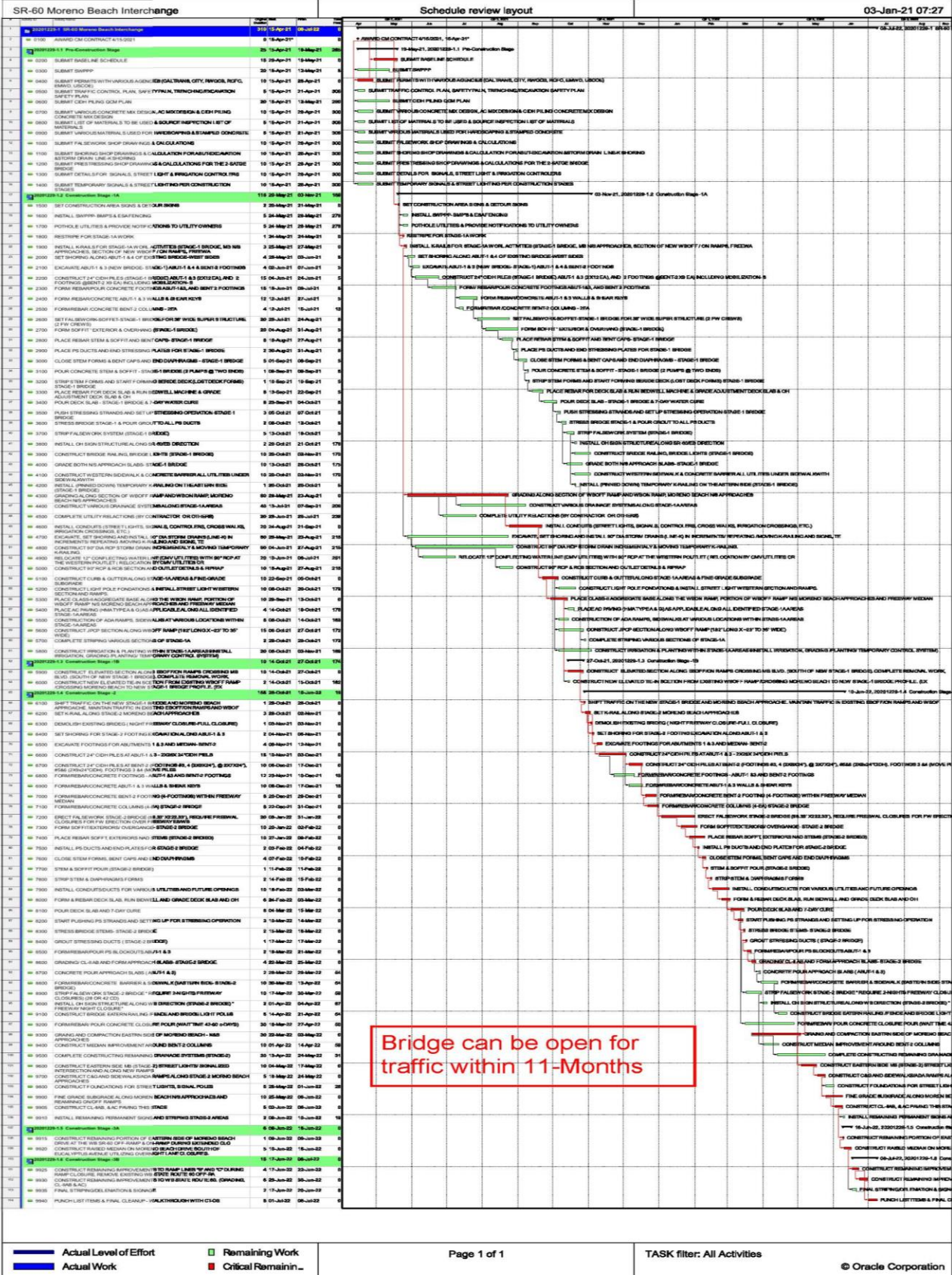
- All successful outreach programs integrate early coordination with Caltrans and the City of Moreno Valley and emergency service responders, school transportation, elected officials, city public works, and traffic engineering to bring them on-board to determine the impacts that need to be mitigated before implementing traffic control systems/detours

Public Outreach Expected Services:

- Freeway Weekend closures will require a lot of notice to the public.
- Well planned closures and detailed detours.
- Organize a Neighborhood Town Meeting.
- Create Project Fact Sheet in English and Spanish.
- Create Traffic Advisories.
- Meetings with the Stakeholders.
- Meetings with the First Responders (CHP, Fire, Police, and Ambulance services).
- Public meetings with local residents.
- Operate a Project information website.
- Time Lapse Cameras at strategic locations throughout the project.
- Coordinate a groundbreaking and ribbon cutting ceremony.



PROJECT SCHEDULE (Full visible Project Schedule is in the appendix)



F- QUALITY CONTROL AND ASSURANCE

F. QUALITY CONTROL AND ASSURANCE

The FALCON Quality Assurance/Quality Control Program is a continuous process used not just at project milestones but also daily. As workflows from desk to desk, discipline to discipline, and consultant to the client. We utilize this QA/QC program on every project undertaken to ensure that a high-quality product is delivered on schedule and within budget. The FALCON key organizational elements for QA/QC are adaptable to any project. We have developed project-specific QA/ QC plans for numerous clients such as Caltrans and the City. This program consists of the following key elements:

Project Managers are supported by other Project Managers for the Design, Advertising, Bid, and Award, and the Construction and Project Closeout Phases

The FALCON Team assigns staff to Discipline Leads on a permanent basis rather than on a project-by-project or “pool” basis. This is a crucial first step in delivering a high-quality project, as quality indeed suffers when a project does not maintain staff and leadership continuity. We have an outstanding record of upholding Discipline Leads and design staff throughout our projects and all project phases.

FALCON Team has an excellent record of completing projects with no claims. Issues are resolved during the project through a mutual understanding and a spirit of partnering.

DISCIPLINE SCOPE OF WORK / RESPONSIBILITIES

This component of our QA/QC program ensures “buy-in” from FALCON Discipline Leads to the scope of work, project responsibilities, schedule, and budget. Discipline Leads are involved throughout the development of the scope of work, schedule, and budget during the proposal process. Internal kick-off meetings are then held to review the scope, schedule, and budget to ensure that the project gets started on the right path. This process improves accountability for each leader of each phase of the project. It reinforces the detailed elements of the scope of work that must be adhered to in order to maintain a high-quality project approach.

ESTABLISHING DESIGN CRITERIA

Critical to any project's success is developing a clear understanding of design criteria, guidelines, and standards up-front that will be used for the project. Depending on the complexity of the project, FALCON develops a Basis of Design for the City. Reports or other less involved documentation for non-complex projects that identify critical design criteria for a project and obtain concurrence from the appropriate Agency personnel. Also, FALCON and our key Discipline Leaders have a long history of performing similar work. Thus, our team is intimately familiar with all aspects of the project development process, including design standards and design manuals for roadway, rail, traffic, and drainage, and preparation of specifications and bid documents.

INSTANTANEOUS INTERACTIVE REVIEWS

FALCON project development process is a dynamic, interactive process between the Program Manager, Service Group Leaders, and Engineering Design Staff. Regular “over the shoulder” reviews occur throughout the design process through internal discussions in the engineering staff's work areas at various points during plan preparation. This approach maintains disciplined leadership

involvement throughout the design process and avoids misdirection and re-design efforts.

PROJECT TEAM MEETINGS/COORDINATION

The Project Manager will hold regular meetings with design Discipline Leaders to coordinate project interface issues and ensure that a “cause and effect” analysis of design decisions involving multiple design disciplines is completed. These meetings are utilized to discuss staffing needs and project schedule and budget status. These meetings serve as a forum for regular communication within the entire Project Team and foster a cohesive team environment and build accountability within the project team.

CHANGE ORDERS AND CLAIMS

Our Project Manager and Resident Engineer will bring a detailed understanding of the City and Caltrans-LAPM processes for administering Contract Change Orders. They will work closely under the direction of the City's Construction Manager with the contractor to verify that change orders are evaluated, negotiated, accepted by The City's Construction Manager, and processed and executed promptly by the contract documents and procedures. We will confirm that the **City's Construction Manager** has all the information needed to make

the right determination. This documentation will include **accurate and detailed information and cost analysis, extra work reports with matching daily diaries, field measurements, photos, certificates of compliance, certified payrolls, supporting RFI's, correspondences, letters, design changes, and any other relevant information. If any claims arise, we will document them appropriately and act to resolve or mitigate the issues.**

NEGOTIATION, RESOLUTION, ARBITRATION, OR LITIGATION

FALCON's Inspectors will provide technical and contractual support to the Project Manager and Resident Engineer to the extent requested by the City of Moreno Valley. **The FALCON Team has an excellent track record of completing projects with no claims.**

PROMPT CONSTRUCTABILITY REVIEWS & ALTERNATIVE CONSTRUCTION METHODS ALLOW FOR COST AND SCHEDULE SAVINGS

Since this project may be advertised prior to awarding the CM contract, we **strongly encourage the City to shorten the Construction duration to 11Months instead of 18Months via Addendum. This will yield a total TRO savings of 164 WD out of the original duration of 395WD. 164WD x \$2400.00/WD=\$393,600.**

This is significant savings, add to that contractor's OH and CM cost savings. Total anticipated savings expected to total \$1.5M.

DOCUMENTATION AND COMMUNICATION

A quality project's critical element is carefully documenting project decisions and direction and the general project development history. Preparation of clear, concise letters, phone logs, meeting minutes, and action item resolutions avoid costly redirection during design, impacting the project schedule.

MILESTONE SUBMITTAL REVIEWS

All submittals to the City will meet the project schedule agreed to with the City and comply with the City's standards and procedures or other appropriate agency.

G. ADDITIONAL RELEVANT INFORMATION

FALCON Team has superior knowledge of the following:

- *Intimate knowledge of Local Site Conditions & Stakeholders.
- *Same PM/RE/SR & CM team from Nason & MB-Phase-I
- *Excellent savings, quality, QC/QA & award-winning project (APWA/CMAA).
- *Excellent CM team-cross trained.
- *Excellent support team.
- *No claims, under budget, safe, quality project.
- * Schedule & cost savings: 7M schedule reduction (~164WDX \$2400/WD) = \$393,600 (TRO)
- CM Cost Savings 7Mx~\$100,000--\$700,000
- Contractor OH & Equipment Rental Savings --\$400,000
- Anticipate bids to come lower than Engineer's Estimate by 12%-20% = \$2-\$3M savings. The work area/staging area is spacious, not impacting traffic, and is very productive daily with no significant issues/hurdles.

SUMMARY

We have the project and construction management expertise, which will allow us to complete complex assignments successfully within tight schedules and budgets. Many of our key personnel are currently working with many local agencies, including Moreno Valley and Caltrans. They possess a level of understanding that will eliminate any learning curve. Our entire team is committed to establishing and maintaining strong working relationships with the City of Moreno Valley based on trust and mutual respect.



"ADDITIONS OR EXCEPTIONS TO THE CITY'S REQUEST FOR PROPOSAL"

FALCON does not have any additions or exceptions to the description of all the exceptions to the provisions and conditions of this Request for Proposal.

FALCON Engineering Services (FALCON) acknowledges the following:

1. This Request for Proposal (RFP) shall be incorporated in its entirety as a part of the FALCON's Proposal.
2. This RFP and FALCON's Proposal will jointly become part of the Agreement for Professional Consultant Services for this project when said Agreement is fully executed by our team and the Mayor or City Manager of Moreno Valley.
3. FALCON's Services to be provided, and fees, therefore, will be in accordance with the City's RFP except as otherwise specified in the FALCON's Proposal under the heading "ADDITIONS OR EXCEPTIONS TO THE CITY'S REQUEST FOR PROPOSAL."
4. A single and separate section with the heading "ADDITIONS OR EXCEPTIONS TO THE CITY'S REQUEST FOR PROPOSAL" containing a complete and detailed description of all of the exceptions to the provisions and conditions of this Request for Proposal upon which FALCON's Proposal is contingent and which shall take precedent over this Request for Proposal for Professional Consultant Services.
5. FALCON has included a statement of qualifications, including the names, qualifications, and proposed duties of FALCON's Staff to be assigned to this project; a listing of recent similar projects completed, including the names, titles, addresses,

telephone numbers, and email addresses of the appropriate persons whom the City could contact. If one or more of the FALCON's staff should become unavailable, FALCON may substitute other staff of at least equal competence only after prior written approval by the City.

6. A resource allocation matrix must be submitted with the Proposal. The resource allocation matrix must list detailed tasks in rows. The appropriate individual (Job Title Only) and the number of hours these individuals will be working on each task listed will be included in adjacent columns. The resource allocation matrix and the project design schedule are required of both the primary consultant and any sub-consultant. Failure to do so will result in the FALCON's Proposal being deemed incomplete, and it will not receive further consideration. The Title Reports shall be a separate line item under the right-of-way task.

The resource allocation matrix, in addition to any tasks FALCON chooses to list, shall include but not be limited to meetings, progressive plan submittals, Summary Memo, utility relocation engineering right-of-way investigations, right-of-way acquisition, As-Built Drawings, and GASB 34 documentation.

7. Hourly rate schedule (See page 71 in Appendix)

The rate schedule must list titles, names, roles, and hourly billing rates in rows. A statement that said the hourly rate schedule is part of the FALCON's Proposal for invoicing for progress payments and extra work incurred shall also be included. All extra work will require prior approval from the City.

8. FALCON's sub-consultants (include relief personnel) qualifications applicable to this project, including the names, qualifications, and proposed duties of the sub-consultants staff to be assigned to this project; a listing of recent similar projects completed, including the names, titles, addresses, and telephone numbers of the appropriate persons whom the City could contact. **FALCON acknowledges and understands that they will not be allowed to change the sub-consultant without written permission from the City.**

9. All charges for FALCON services are a "Not-to-Exceed Fee," which must include conservatively estimated reimbursable expenses, as submitted with and made a part of said FALCON's Proposal.

10. FALCON will document and provide the results of the work to the satisfaction of the City. This may include preparation of field and final reports or similar evidence of attainment of the Agreement objectives.

11. FALCON will immediately document and notify the City of any defects or hazardous conditions observed in the vicinity of the project site prior, during, or after the construction work.

12. FALCON'S hourly rate schedule and a statement that said hourly rate schedule is part of the FALCON's Proposal for use in invoicing for progress payments and extra work incurred that is not part of this Request for Proposal. An itemized cost breakdown for the work described herein must be submitted in a separate electronic file as part of the Proposal submittal. All extra work will require prior approval from the City.

13. FALCON will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin.

14. ALL federal laws and regulations shall be adhered to notwithstanding any state or local laws and regulations. In a case of conflict between federal, state, or local laws or regulations, the strictest shall be adhered to.

15. FALCON shall allow all authorized federal, state, county, and City officials access to the place of work, books, documents, papers, fiscal, payroll, materials, and other relevant contract records pertinent to this special project. All relevant records shall be retained for at least three years.

16. FALCON shall comply with the Davis-Bacon Fair Labor Standards Act (40 USC 276-a through a-7) and the implementing regulations issued pursuant thereto (29 CFR Section 1, 5), any amendments thereof, and the California Labor Code. Pursuant to the said regulations, entitled "Federal Labor Standards Provisions," Federal Prevailing Wage Decision," and the State of California prevailing wage rates, respectively.

17. FALCON shall comply with the Copeland Anti-Kickback Act (18 USC 874) and the Implementation Regulation (29 CFR 3) issued pursuant thereto, and any amendments thereof.

18. FALCON offers and agrees to assign to the City all rights, title, and interest in and to all causes of action it may have under Section 4 of the Clayton Act (15 USC Sec. 15) or under the Cartwright Act (Chapter 2 [commencing with Section 16700] of Part 2 of Division 7 of the Business and Professions Code), arising from purchases of goods, services, or materials pursuant to the public works or the subcontract. This assignment shall be made and become effective at the time the City tenders final payment to FALCON, without further acknowledgment by the parties.

19. FALCON is DBE/SBE certified and participates in supporting DBE/SBE firms. Copies of Certifications are in the Appendix.

APPENDIX



PROJECT SCHEDULE



RESOURCE MATRIX



EXHIBIT C

CITY - SERVICES TO BE PROVIDED TO CONSULTANT

1. Furnish the Consultant all in-house data which is pertinent to services to be performed by the Consultant and which is within the custody or control of the City, including, but not limited to, copies of record and off-record maps and other record and off-record property data, right-of-way maps and other right-of-way data, pending or proposed subject property land division and development application data, all newly developed and pertinent design and project specification data, and such other pertinent data which may become available to the City.
2. Provide timely review, processing, and reasonably expeditious approval of all submittals by the Consultant.
3. Provide timely City staff liaison with the Consultant when requested and when reasonably needed.

EXHIBIT D

TERMS OF PAYMENT

1. The Consultant's compensation shall not exceed \$2,137,413.00.
2. The Consultant 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 Consultant will electronically submit an invoice to the City along with documentation evidencing services completed to date as specified in the Request for Proposal. Progress payments will be made in accordance with the payment schedule outlined in the Request for Proposal, but in no case will progress payments be made to the Consultant more frequently than once per month. The progress payment is based on actual time and materials expended in furnishing authorized professional services during the preceding calendar month. At no time will the City pay for more services than have been satisfactorily completed and the City Engineer's determination of the amount due for any progress payment shall be final. The consultant will submit all original invoices to Accounts Payable staff at TechInfo-CapProj@moval.org Accounts Payable questions can be directed to (951) 413-3130.

4. The Consultant 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 Consultant for all invoiced, authorized professional services within forty-five (45) days of receipt of the invoice for same.



HOURLY/BILLING RATES

City of Moreno Valley: SR-60/Moreno Beach Interchange Ph 2 Improvements
Billing/Hourly Rates for FALCON & SUBS

PRIME: FALCON Engineering Services		
January 22, 2021		
NAME	CLASSIFICATION	HOURLY/BILLING RATES
Direct Labor Hourly Rates		
Wael Faqih, PE	Project Manager	\$ 300.00
Juan Rojas, PE	Resident Engineer	\$ 250.00
Majid Afanan, PE	Technical Support/Claims Support	\$ 240.00
Tariq Malik, PE	Technical Support/Claims Support	\$ 240.00
Kurt Pegg, PE	Technical Support/Claims Support	\$ 240.00
Ahmad Faqih, PE	Construction Manager/Bridge/Utilities	\$ 240.00
Moh'd Khalaileh, PE	Structures/Roadway/Scheduler/ Labor Compliance	\$ 230.00
Naim Abu-Laban, EIT	Asst. Resident Engineer/Utilities/Inspector	\$ 198.32
Dion Castro, ToR	SWPPP/Safety Coordinator	\$ 198.32
Dennis Green	Public Relations/Outreach	\$ 240.00
Salvador Orozco	Signals/Street Light Inspector	\$ 198.32
Ivan Mendoza	Signals/Street Light Inspector	\$ 198.32
Ali Al-Saadoon	QA/QC Manager	\$ 200.00
Ahmad Shalaldehy	Office Engineer	\$ 79.33
Husam Elyo, EIT	Office Engineer	\$ 92.55
Sami Faqih	Public Relations/Documentarian	\$ 180.00
Rick Mayer, LA	Landscape Architect	\$ 180.00
John Massoud, LA	Landscape Architect (As needed)	\$ 180.00
Subconsultant Name: KZAB Engineers, Inc.		
NAME	CLASSIFICATION	HOURLY/BILLING RATES
Abunnasr Husain, PE	Structures Representative	\$ 254.10
Howard Sanders	Senior Inspector	\$ 150.15
Subconsultant Name: EXP		
NAME	CLASSIFICATION	HOURLY/BILLING RATES
Tim Kirkley, LSIT	Structures Inspector	\$ 188.73
*Please note, per the note below, this rate includes ODC (i.e., vehicle cost).		
Subconsultant Name: Z&K Consultants, Inc.		
NAME	CLASSIFICATION	HOURLY/BILLING RATES
Raymond Frangie	Senior Construction Inspector	\$ 184.80
Noah Hernandez	Senior Construction Inspector	\$ 157.08
Subconsultant Name: ZT Consulting		
NAME	CLASSIFICATION	HOURLY/BILLING RATES
Farzad Tasbihgoo	Structural Mat. Rep	\$ 184.80
Andrew Soria	QA Source Inspector	\$ 115.50
Reid Gerritsen	QA Source Inspector	\$ 109.15
Paul Mortsof	QA Source Inspector	\$ 103.95
Dan Chang	QA Source Inspector	\$ 138.60

All charges for FALCON services are a "Not-to-Exceed Fee," which must include conservatively estimated reimbursable expenses, as submitted with, and made a part of said FALCON's Proposal. FALCON'S hourly rate schedule and a statement that said hourly rate schedule is part of the FALCON's Proposal for use in invoicing for progress payments and extra work incurred that is not part of this Request for Proposal. An itemized cost breakdown for the work described herein must be submitted in a separate electronic file as part of the Proposal submittal. All extra work will require prior approval from the City.

These billing rates & unit prices include other direct costs, indirect costs, and expenses except as noted below. Overtime will be billed at the same hourly rates indicated below, with no premium or surcharge (except for field technicians). Rates are valid for 18-months (plant establishment two years) from contract execution date, with a 0% escalation annually. The contract is expected to be executed, anticipated in March 2021/April 2021.

The following items are considered reimbursable expenses and will be billed at cost with no markup: Specific computer hardware and software required by the client for project use (other than personal laptop computers with standard office software and personal printers), outside reproduction, mileage (current IRS rate), field office facilities, field office utilities (water, power, sewer, internet, phone), multi-function printers, field office supplier, airfare, postage, parking, out-of-town travel expenses, car rental, and field vehicles. FALCON field vehicles will be billed as a **\$ INCLUDED** surcharge to hourly rates of assigned personnel or as a direct cost at **\$ INCLUDED** per month per vehicle.

City of Moreno Beach
 Staffing Schedule
 SR-60/Moreno Beach Interchange Phase 2 Improvements



January 22, 2021

Project Schedule	2021												2022												2023	
	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb
Calendar days	31	28	31	30	31	30	31	31	30	31	30	31	31	28	31	30	31	30	31	31	30	31	30	31	31	28
Work days	21	20	23	20	22	22	20	20	21	20	20	20	21	20	23	20	22	22	20	23	22	20	20	20	20	19
Award Contract to FALCON -NTP April-2021																										
Constructability Review "During Bid advertisement"																										
Advertise- Award & NTP/ Pre-Const (2/15/2021 to 4/30/2021)																										
Construction Stage Must Start by (6/1/2021 - 11/30/2022) 18Months																										
Construction Stage "Accelerated Schedule" (6/1/2021 - 9/30/2022) 16Months																										
Post Construction (10/1/2022 - 1/31/2022)																										

Total WD	
	376
	336

Estimated Fees			Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	April	May	Jun	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Total Hours	
Description	Name	Rate	Advertise/Award/PreConst			Construction Stage																		Post Const.		12Months				
Project Manager	Wael Faqih, PE	\$300.00																											0	\$0.00
Resident Engineer	Juan Rojas, PE	\$230.00						40	160	160	160	160	160	160	100	100	100	100	100	100	80	80	80	40	40	40	8	8	1876	\$431,480.00
Bridge/Structures Representative	Abunnasr Husain, PE (KZ)	\$254.10							80	80	80	80	80	80	80	80	80	80	80										800	\$203,280.00
Asst. Resident Engineer									80	120	160	160	160	160	160	160	160	160	160	120	120	120	80						2240	\$403,200.00
Roadway/Structures Inspector/Utilities	Naim Abu-Laban, EIT	\$180.00																												
Structures/Roadway Inspector																														
Labor Compliance/Scheduler	Moh'd Khataieih, PE	\$215.00							12	12	12	12	12	12	12	12	12	12	12	12	12	12	12						180	\$38,700.00
Electrical/Signals (PT-As Needed)	Salvador Orozco	\$180.00							80	80	160	160	160	160	160	160	160	160	160	160	100	80							1940	\$349,200.00
Office Engineer / Document Control	Husam Elyo, EIT	\$92.55						40	120	160	160	160	160	160	160	160	160	160	160	160	160	120	120	60	40	40			2460	\$227,673.00
Public Outreach /Public Relations	Dennis Green	\$220.00							40																				40	\$8,800.00
Drone Aerial/Photo Documentarian	Sami Faqih	\$160.00							16	16	16	16	16	16	16	16	16	16	16	16	8	8							208	\$33,280.00
SWPPP Review & Inspection (PT-As Needed)	Dion Castro, QSD, ToR	\$180.00							24	24	24	16	16	16	16	16	16	16	8	8	8	8							216	\$38,880.00
Landscape Architect/Inspection (As Needed)	Rick Mayer John Massoud	\$180.00							16	16								16	16	16	16	16				182			294	\$52,920.00
Structures Inspection (As needed)	KZAB (KZ)																												0	\$60,000.00
Structures Inspection (As needed)	EXP																												0	\$60,000.00
Source Inspection Services (As Needed)	ZT Consultants								40	40	40	40																	160	\$30,000.00
Roadway Inspection (As Needed)	Z&K Consultants																												0	\$60,000.00
Additional Services requested by the city																													0	\$140,000.00
Man-hours - Original Schedule																												10414	\$2,137,413.00	

EXHIBIT E

INSURANCE REQUIREMENTS

Minimum Scope of Insurance

Coverage shall be at least as broad as:

1. The most current version of Insurance Services Office (ISO) Commercial General Liability Coverage Form CG 00 01, which shall include insurance for “bodily injury,” “property damage” and “personal and advertising injury” with coverage for premises and operations, products and completed operations, and contractual liability.
2. The most current version of Insurance Service Office (ISO) Business Auto Coverage Form CA 00 01, which shall include coverage for all owned, hired, and non-owned automobiles or other licensed vehicles (Code 1- Any Auto).
3. Workers’ Compensation insurance as required by the California Labor Code and Employer’s Liability Insurance.
4. Professional Liability (Errors and Omissions) insurance appropriate to Consultant’s profession.

Minimum Limits of Insurance

Consultant shall maintain limits of liability of not less than:

1. General Liability:
 - \$1,000,000 per occurrence for bodily injury and property damage
 - \$1,000,000 per occurrence for personal and advertising injury
 - \$2,000,000 aggregate for products and completed operations
 - \$2,000,000 general aggregate
2. Automobile Liability:
 - \$1,000,000 per accident for bodily injury and property damage
3. Employer’s Liability:
 - \$1,000,000 each accident for bodily injury
 - \$1,000,000 disease each employee
 - \$1,000,000 disease policy limit

4. Professional Liability (Errors and Omissions):

\$1,000,000 per claim/occurrence
\$2,000,000 policy aggregate

Umbrella or Excess Insurance

In the event Consultant purchases an Umbrella or Excess insurance policy(ies) to meet the "Minimum Limits of Insurance," this insurance policy(ies) shall "follow form" and afford no less coverage than the primary insurance policy(ies).

Deductibles and Self-Insured Retentions

Consultant shall be responsible for payment of any deductibles contained in any insurance policy(ies) required hereunder and Consultant shall also be responsible for payment of any self-insured retentions. Any deductibles or self-insured retentions must be declared to, and approved by, the City Manager or his/her designee. At the option of the City Manager or his/her designee, either (i) the insurer shall reduce or eliminate such deductibles or self-insured retentions as respects City, CSD, Housing Authority, WRCOG, and each of their officers, officials, employees, agents and volunteers; or (ii) Consultant shall provide a financial guarantee, satisfactory to the City Manager or his/her designee, guaranteeing payment of losses and related investigations, claim administration and defense expenses. At no time shall City be responsible for the payment of any deductibles or self-insured retentions.

Other Insurance Provisions

The General Liability and Automobile Liability insurance policies are to contain, or be endorsed to contain, the following provisions:

1. City, CSD, Housing Authority, WRCOG, and each of their officers, officials, employees, agents and volunteers are to be covered as additional insureds.
2. The coverage shall contain no special limitations on the scope of protection afforded to City, CSD, Housing Authority, WRCOG, and each of their officers, officials, employees, agents and volunteers.
3. Consultant's insurance coverage shall be primary and no contribution shall be required of City.

The Workers' Compensation insurance policy is to contain, or be endorsed to contain, the following provision: Consultant and its insurer shall waive any right of subrogation against City, CSD, Housing Authority, WRCOG, and each of their officers, officials, employees, agents and volunteers.

If the Professional Liability (Errors and Omissions) insurance policy is written on a claims-made form:

1. The retroactive date must be shown, and must be before the effective date of the Agreement or the commencement of work by Consultant.
2. Insurance must be maintained and evidence of insurance must be provided for at least 3 years after any expiration or termination of the Agreement or, in the alternative, the policy shall be endorsed to provide not less than a 3-year discovery period.
3. If coverage is canceled or non-renewed, and not replaced with another claims-made policy form with a retroactive date prior to the effective date of the Agreement or the commencement of work by Consultant, Consultant must purchase extended reporting coverage for a minimum of 3 years following the expiration or termination of the Agreement.
4. A copy of the claims reporting requirements must be submitted to City for review.
5. These requirements shall survive expiration or termination of the Agreement.

All policies of insurance required hereunder shall be endorsed to provide that the coverage shall not be cancelled, non-renewed, reduced in coverage or in limits except after 30 calendar day written notice by certified mail, return receipt requested, has been given to City. Upon issuance by the insurer, broker, or agent of a notice of cancellation, non-renewal, or reduction in coverage or in limits, Consultant shall furnish City with a new certificate and applicable endorsements for such policy(ies). In the event any policy is due to expire during the work to be performed for City, Consultant shall provide a new certificate, and applicable endorsements, evidencing renewal of such policy not less than 15 calendar days prior to the expiration date of the expiring policy.

Acceptability of Insurers

All policies of insurance required hereunder shall be placed with an insurance company(ies) admitted by the California Insurance Commissioner to do business in the State of California and rated not less than "A-VII" in Best's Insurance Rating Guide; or authorized by the City Manager or his/her designee.

Verification of Coverage

Consultant shall furnish City with all certificate(s) and **applicable endorsements** effecting coverage required hereunder. All certificates and **applicable endorsements** are to be received and approved by the City Manager or his/her designee prior to City's execution of the Agreement and before work commences.