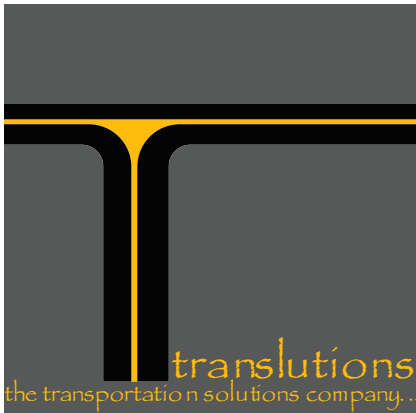




memorandum

DATE: April 9, 2022

TO: John Grace, Vice President - Development, Hillwood

FROM: Sandipan Bhattacharjee, Translutions, Inc.

SUBJECT: Moreno Valley Trade Center – Warehouse Scenario - Traffic Impact Analysis Evaluation

Translutions, Inc. (Translutions) is pleased to provide this memorandum discussing the changes to the traffic impact analysis associated with the updated site plan for the Moreno Valley Trade Center Warehouse development project. The project is located on the southwest corner of Redlands Boulevard and Eucalyptus Avenue in the City of Moreno Valley.

BACKGROUND

Translutions submitted a TIA in November 2020 to the City of Moreno Valley that included the analysis of a proposed 1,332,380 square foot warehouse development. Since then, the project description has been revised to include a 1,263,270 square foot warehouse building and several modifications to the site plan. This memorandum compares the findings from the traffic impact analysis in November 2020 to what is being proposed now. Figure 1 illustrates the revised site plan.

REVISED PROJECT DESCRIPTION

As stated above, the project description has been modified to now include a reduction in square footage for the warehouse building from 1,332,380 square feet to 1,263,270 square feet. Access to the site has been modified for both autos and trucks. For autos, access to the site from Encilia Avenue has been removed. Autos will access the site via the two driveways on Eucalyptus Avenue and the two driveways on Redlands Boulevard. The northern driveway on Redlands Boulevard now includes full-access inbound/outbound movements for autos and will include a traffic signal as a project design feature. The analysis includes the signal as a project constructed improvement. Trucks will access the site via the two driveways on Eucalyptus Avenue and are prohibited on Redlands Boulevard south of Eucalyptus Avenue.

PROJECT TRIP GENERATION COMPARISON

The project trip generation disclosed in the previous TIA from 2020 was compared to the trip generation for the proposed project. Table A summarizes the trip generation comparison. As shown in Table A, the proposed project would result in a net decrease in project trips of -21 a.m. peak hour PCE trips, -21 p.m. peak hour PCE trips, and -191 daily PCE trips, when compared to the previous study's trip generation.

Table A - Project Trip Generation Comparison

Units	Peak Hour						Daily
	AM Peak Hour			PM Peak Hour			
	In	Out	Total	In	Out	Total	
Trip Generation from Previous Traffic Impact Analysis (November 2020)							
Passenger Cars	109	32	141	43	114	157	1,436
Total PCE	280	83	363	114	290	404	3,665
Trip Generation (Proposed Project)							
Passenger Cars	102	31	133	41	108	149	1,361
Total PCE	265	77	342	108	275	383	3,474
Net Change in Total PCE	-15	-6	-21	-6	-15	-21	-191

REDUCTION IN AUTO TRIPS ON ENCILIA AVENUE

The trip distribution for the proposed project trips were developed using the same trip distribution patterns for autos from the November 2020 TIA and adjusted to reflect the changes in access for autos included in the project description such as the removal of the project driveways on Encilia Avenue. With the removal of the project driveways on Encilia Avenue, a reduction in project trips is anticipated on Encilia Avenue. Table B compares the project trips on Encilia Avenue from the previous TIA to the proposed project. As shown in Table B, the proposed project would result in a net decrease in project trips on Encilia Avenue of -63 a.m. peak hour trips, -70 p.m. peak hour trips, and -639 daily trips.

Table B - Project Trip Comparison on Encilia Avenue

Units	Peak Hour						Daily
	AM Peak Hour			PM Peak Hour			
	In	Out	Total	In	Out	Total	
Project Trips on Encilia Avenue from Previous Traffic Impact Analysis (November 2020)							
Total Trips	48	15	63	19	51	70	639
Project Trips on Encilia Avenue (Proposed Project)							
Total Trips	0	0	0	0	0	0	0
Net Change in Trips on Encilia Avenue	-48	-15	-63	-19	-51	-70	-639

REDUCTION IN TRUCK TRIPS ON REDLANDS BOULEVARD SOUTH OF EUCALYPTUS AVENUE

The trip distribution for the proposed project trips were developed using the same trip distribution patterns for trucks from the November 2020 TIA and adjusted to reflect the changes in access for trucks included in the project description such as the prohibition of trucks on Redlands Boulevard south of Eucalyptus Avenue. With trucks prohibited on Redlands Boulevard south of Eucalyptus Avenue, a reduction in trucks trips is shown in Table C. Table C compares the trucks trips on Redlands Boulevard south of Eucalyptus Avenue from the previous TIA to the proposed project. As shown in Table C, the proposed project would result in a net decrease in truck PCE trips on Redlands Boulevard south of Eucalyptus Avenue of -5 a.m. peak hour PCE trips, -21 p.m. peak hour PCE trips, and -334 daily PCE trips.

Table C - Truck Trip Comparison on Redlands Boulevard south of Eucalyptus Avenue

Units	Peak Hour						Daily
	AM Peak Hour			PM Peak Hour			
	In	Out	Total	In	Out	Total	
Truck Trips on Redlands Blvd. south of Eucalyptus Ave. from Previous Traffic Impact Analysis (November 2020)							
Total Trips	5	0	5	21	0	21	334
Truck Trips on Redlands Blvd. south of Eucalyptus Ave. (Proposed Project)							
Total Trips	0	0	0	0	0	0	0
Net Change in Trips on Encilia Avenue	-5	0	-5	-21	0	-21	-334

LEVEL OF SERVICE COMPARISON

As stated previously, the trip distribution for the proposed project trips were developed using the same trip distribution patterns for autos and trucks from the November 2020 TIA. With the trip generation reduction shown in Table A of -21 a.m. peak hour PCE trips, -21 p.m. peak hour PCE trips, and -191 daily PCE trips, it was anticipated that the levels of service at the study area intersections would generally improve or remain the same under existing, opening year, and general plan build out conditions at the study area intersections and roadways segments. A full analysis has been conducted and available for

review, and as anticipated, the operations under the revised project are better than the previous project. Summary LOS tables are attached.

CONCLUSION

Based on the changes to the project description, the proposed project would result in a net decrease in project trips of -21 a.m. peak hour PCE trips, -21 p.m. peak hour PCE trips, and -191 daily PCE trips, when compared to the previous study's trip generation. A full analysis was conducted, and the results are summarized in this memorandum. The project will not result in any new operational deficiencies that were not disclosed in the previous TIA from November 2020.

Attachments:

Figure 1 – Site Plan
LOS Tables

Table A: Existing Intersection Levels of Service(Revised Project Analysis)

Intersection	LOS Standard	Jurisdiction	Control	Without Project				With Project				Change in Delay		Exceed City's Operational Requirement?
				AM Peak Hour		PM Peak Hour		AM Peak Hour		PM Peak Hour		AM Peak Hour	PM Peak Hour	
				Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS			
1 . Moreno Beach Dr/SR-60 Westbound Ramps	D	Caltrans	Signal	16.5	B	15.2	B	16.7	B	15.6	B	-	-	-
2 . Moreno Beach Dr/SR-60 Eastbound Ramps	D	Caltrans	Signal	89.1	F *	>100	F *	>100	F *	>100	F *	-	-	-
3 . Moreno Beach Dr/Eucalyptus Avenue	D	Moreno Valley	Signal	30.2	C	32.5	C	32.3	C	37.6	D	2.1	5.1	NO
4 . Auto Mall Dr/Eucalyptus Avenue	D	Moreno Valley	TWSC	10.1	B	10.9	B	11.0	B	12.5	B	0.9	1.6	NO
5 . Driveway 1/Eucalyptus Avenue	D	Moreno Valley	TWSC	9.2	A		A	11.2	B	10.4	B	2.0	10.4	NO
6 . Driveway 2/Eucalyptus Avenue	D	Moreno Valley	TWSC	<i>Future Intersection</i>				8.6	A	8.9	A	8.6	8.9	-
7 . Redlands Boulevard/SR-60 Westbound Ramps	D	Caltrans	Signal	27.5	C	39.9	D	27.7	C	40.9	D	-	-	-
8 . Redlands Boulevard/SR-60 Eastbound Ramps	D	Caltrans	Signal	20.4	C	25.0	C	25.4	C	25.2	C	-	-	-
9 . Redlands Boulevard/Eucalyptus Avenue	D	Moreno Valley	Signal	8.9	A	6.5	A	9.8	A	14.1	B	0.9	7.6	NO
10 . Redlands Boulevard/Driveway 3	D	Moreno Valley	TWSC	<i>Future Intersection</i>				14.3	A	17.6	B	14.3	17.6	NO
11 . Redlands Boulevard/Driveway 4	D	Moreno Valley	TWSC	<i>Future Intersection</i>				9.5	A	10.3	B	9.5	10.3	NO
12 . Redlands Boulevard/Encilia Avenue	D	Moreno Valley	TWSC	20.5	C	18.2	C	21.6	A	18.6	A	1.1	0.4	NO

Notes:

LOS = Level of Service

Table B: Existing Roadway Segment Levels of Service (Revised Project Analysis)

Roadway Segment	Jurisdiction	LOS Standard	Classification	Roadway Capacity	Without Project			Classification	Roadway Capacity	With Project			Change in V/C	Exceed City's Operational Requirement?
					Daily Volume	LOS	V/C			Daily Volume	LOS	V/C		
1 . Redlands Blvd from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	14,403	F *	1.152	2U	12,500	15,275	F *	1.222	-	-
2 . Redlands Blvd from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	2U	12,500	12,290	E *	0.983	2U	12,500	13,925	F *	1.114	0.131	YES
3 . Redlands Blvd from Eucalyptus Ave to Driveway 3	City of Moreno Valley	D	2U	12,500	12,535	F *	1.003	4U	25,000	13,121	A	0.525	-0.478	NO
4 . Redlands Blvd from Driveway 3 to Driveway 4	City of Moreno Valley	D	2U	12,500	12,535	F *	1.003	4U	25,000	12,903	A	0.516	-0.487	NO
5 . Redlands Blvd from Driveway 4 to Encilia Ave	City of Moreno Valley	D	2U	12,500	12,535	F *	1.003	4U	25,000	12,903	A	0.516	-0.487	NO
6 . Moreno Beach Dr from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	12,724	F *	1.018	2U	12,500	13,364	F *	1.069	-	-
7 . Moreno Beach Dr from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	4D	37,500	23,934	B	0.638	4D	37,500	25,174	B	0.671	0.033	NO
8 . Eucalyptus Ave from Moreno Beach Dr to Auto Mall Dr	City of Moreno Valley	D	2U	12,500	3,673	A	0.294	2U	12,500	5,023	A	0.402	0.108	NO
9 . Eucalyptus Ave from Auto Mall Dr to Driveway 1	City of Moreno Valley	D	4U	25,000	1,617	A	0.065	4U	25,000	3,021	A	0.121	0.056	NO
10 . Eucalyptus Ave from Driveway 1 to Aldi Pl	City of Moreno Valley	D	3U	18,750	1,507	A	0.080	4U	25,000	3,193	A	0.128	0.047	NO
11 . Eucalyptus Ave Aldi Pl to Driveway 2	City of Moreno Valley	D	3U	18,750	2,424	A	0.129	4U	25,000	4,110	A	0.164	0.035	NO
12 . Eucalyptus Ave from Driveway 2 to Redlands Blvd	City of Moreno Valley	D	3U	18,750	2,424	A	0.129	4U	25,000	4,250	A	0.170	0.041	NO
13 . Encilia Ave from Essen Ln to Mozart Way	City of Moreno Valley	D	2UR	2,000	217	A	0.108	4U	25,000	217	A	0.009	-0.100	NO
14 . Encilia Ave from Mozart Way to Shubert St	City of Moreno Valley	D	2UR	2,000	217	A	0.108	4U	25,000	217	A	0.009	-0.100	NO
15 . Encilia Ave Shubert St to Redlands Blvd	City of Moreno Valley	D	2UR	2,000	475	A	0.237	4U	25,000	475	A	0.019	-0.218	NO

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

Table C: Opening Year (2024) Intersection Levels of Service (Revised Project Analysis)

Intersection	LOS Standard	Jurisdiction	Control	Without Project				With Project				Change in Delay		Exceed City's Operational Requirement?
				AM Peak Hour		PM Peak Hour		AM Peak Hour		PM Peak Hour		AM Peak Hour	PM Peak Hour	
				Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS			
1 . Moreno Beach Dr/SR-60 Westbound	D	Caltrans	Signal	16.9	B	16.1	B	17.3	B	16.1	B	-	-	-
2 . Moreno Beach Dr/SR-60 Eastbound	D	Caltrans	Signal	>100	F *	>100	F *	>100	F *	>100	F *	-	-	-
3 . Moreno Beach Dr/Eucalyptus Avenue	D	Moreno Valley	Signal	30.4	C	37.1	D	34.9	D	45.5	D	4.5	8.4	NO
4 . Auto Mall Dr/Eucalyptus Avenue	D	Moreno Valley	TWSC	10.5	B	11.7	B	11.5	B	13.6	B	1.0	1.9	NO
5 . Driveway 1/Eucalyptus Avenue	D	Moreno Valley	TWSC	9.5	A		A	11.6	B	10.7	B	2.1	10.7	NO
6 . Driveway 2/Eucalyptus Avenue	D	Moreno Valley	TWSC	Future Intersection				8.7	A	8.9	A	-	-	-
7 . Redlands Boulevard/SR-60 Westbound	D	Caltrans	Signal	37.4	D	64.5	E *	39.8	D	65.2	E *	-	-	-
8 . Redlands Boulevard/SR-60 Eastbound	D	Caltrans	Signal	40.9	D	32.1	C	42.6	D	38.1	D	1.7	6.0	-
9 . Redlands Boulevard/Eucalyptus Avenue	D	Moreno Valley	Roundabout	16.0	C	8.4	A	18.7	C	10.1	B	2.7	1.7	NO
10 . Redlands Boulevard/Driveway 3	D	Moreno Valley	TWSC	Future Intersection				17.3	B	27.8	D	17.3	27.8	NO
11 . Redlands Boulevard/Driveway 4	D	Moreno Valley	TWSC	Future Intersection				9.8	B	11.4	B	9.8	11.4	NO
12 . Redlands Boulevard/Encilia Avenue	D	Moreno Valley	TWSC	30.5	D	26.9	D	35.5	A	30.2	D	5.0	3.3	NO
												-	-	-

Notes:

LOS = Level of Service

Table D: Opening Year (2024) Roadway Segment Levels of Service (Revised Project Analysis)

Roadway Segment	Jurisdiction	LOS Standard	Classification	Roadway Capacity	Without Project			Classification	Roadway Capacity	With Project			Change in V/C	Exceed City's Operational Requirement?
					Daily Volume	LOS	VIC			Daily Volume	LOS	VIC		
1 . Redlands Blvd from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	18,155	F *	1.452	2U	12,500	19,027	F *	1.522	-	-
2 . Redlands Blvd from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	2U	12,500	16,324	F *	1.306	2U	12,500	17,959	F *	1.437	0.131	YES
3 . Redlands Blvd from Eucalyptus Ave to Driveway 3	City of Moreno Valley	D	2U	12,500	15,044	F *	1.203	4U	25,000	15,630	B	0.625	-0.578	NO
4 . Redlands Blvd from Driveway 3 to Driveway 4	City of Moreno Valley	D	2U	12,500	15,044	F *	1.203	4U	25,000	15,412	B	0.616	-0.587	NO
5 . Redlands Blvd from Driveway 4 to Encilia Ave	City of Moreno Valley	D	2U	12,500	15,044	F *	1.203	4U	25,000	15,412	B	0.616	-0.587	NO
6 . Moreno Beach Dr from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	18,159	F *	1.453	2U	12,500	18,799	F *	1.504	-	-
7 . Moreno Beach Dr from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	4D	37,500	32,941	D	0.878	4D	37,500	34,181	E *	0.911	0.033	NO
8 . Eucalyptus Ave from Moreno Beach Dr to Auto Mall Dr	City of Moreno Valley	D	2U	12,500	6,371	A	0.510	2U	12,500	7,721	B	0.618	0.108	NO
9 . Eucalyptus Ave from Auto Mall Dr to Driveway 1	City of Moreno Valley	D	4U	25,000	2,943	A	0.118	4U	25,000	4,347	A	0.174	0.056	NO
10 . Eucalyptus Ave from Driveway 1 to Aldi Pl	City of Moreno Valley	D	3U	18,750	2,822	A	0.150	4U	25,000	4,508	A	0.180	0.030	NO
11 . Eucalyptus Ave Aldi Pl to Driveway 2	City of Moreno Valley	D	3U	18,750	3,834	A	0.204	4U	25,000	5,520	A	0.221	0.016	NO
12 . Eucalyptus Ave from Driveway 2 to Redlands Blvd	City of Moreno Valley	D	3U	18,750	3,834	A	0.204	4U	25,000	5,660	A	0.226	0.022	NO
13 . Encilia Ave from Essen Ln to Mozart Way	City of Moreno Valley	D	2UR	2,000	240	A	0.120	4U	25,000	240	A	0.010	-0.110	NO
14 . Encilia Ave from Mozart Way to Shubert St	City of Moreno Valley	D	2UR	2,000	240	A	0.120	4U	25,000	240	A	0.010	-0.110	NO
15 . Encilia Ave Shubert St to Redlands Blvd	City of Moreno Valley	D	2UR	2,000	524	A	0.262	4U	25,000	524	A	0.021	-0.241	NO

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

Table E: General Plan Build-Out (2040) Intersection Levels of Service (Revised Project Analysis)

Intersection	LOS Standard	Jurisdiction	Control	Without Project				With Project				Change in Delay		Exceed City's Operational Requirement?
				AM Peak Hour		PM Peak Hour		AM Peak Hour		PM Peak Hour		AM Peak Hour	PM Peak Hour	
				Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS			
1 . Moreno Beach Dr/SR-60 Westbound Ramps	D	Caltrans	Signal	2.8	A	0.2	A	19.4	B	13.4	B	-	-	-
2 . Moreno Beach Dr/SR-60 Eastbound Ramps	D	Caltrans	Signal	15.1	B	27.6	C	16.3	B	33.4	C	-	-	-
3 . Moreno Beach Dr/Eucalyptus Avenue	D	Moreno Valley	Signal	32.4	C	49.0	D	34.1	C	53.5	D	1.7	4.5	NO
4 . Auto Mall Dr/Eucalyptus Avenue	D	Moreno Valley	TWSC	12.7	B	19.3	C	13.9	B	21.4	C	1.2	2.1	NO
5 . Driveway 1/Eucalyptus Avenue	D	Moreno Valley	TWSC	11.5	B		A	14.3	B	14.7	B	2.8	14.7	NO
6 . Driveway 2/Eucalyptus Avenue	D	Moreno Valley	TWSC	Future Intersection				9.0	A	10.1	B	9.0	10.1	-
7 . Redlands Boulevard/SR-60 Westbound Ramps	D	Caltrans	Signal	9.6	A	7.5	A	11.5	B	7.7	A	-	-	-
8 . Redlands Boulevard/SR-60 Eastbound Ramps	D	Caltrans	Signal	14.7	B	20.7	C	16.3	B	16.9	B	-	-	-
9 . Redlands Boulevard/Eucalyptus Avenue	D	Moreno Valley	Roundabout	8.6	A	16.1	C	12.6	B	19.7	C	4.0	3.6	NO
10 . Redlands Boulevard/Driveway 3	D	Moreno Valley	TWSC	Future Intersection				27.3	D	86.2	F *	27.3	86.2	YES
11 . Redlands Boulevard/Driveway 4	D	Moreno Valley	TWSC	Future Intersection				11.3	B	13.2	B	11.3	13.2	NO
12 . Redlands Boulevard/Encilia Avenue	D	Moreno Valley	Signal	14.7	B	27.6	C	14.6	B	27.8	C	-0.1	0.2	NO
												-	-	-

Notes:

LOS = Level of Service

Table F: General Plan Build-Out (2040) Roadway Segment Levels of Service (Revised Project Analysis)

Roadway Segment	Jurisdiction	LOS Standard	Classification	Roadway Capacity	Without Project			With Project			Change in V/C	Exceed City's Operational Requirement?
					Daily Volume	LOS	V/C	Daily Volume	LOS	V/C		
1 . Redlands Blvd from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	4D	37,500	25,690	B	0.685	26,562	C	0.708	0.023	NO
2 . Redlands Blvd from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	4D	37,500	26,068	B	0.695	27,703	C	0.739	0.044	NO
3 . Redlands Blvd from Eucalyptus Ave to Driveway 3	City of Moreno Valley	D	4D	37,500	25,275	B	0.674	25,861	B	0.690	0.016	NO
4 . Redlands Blvd from Driveway 3 to Driveway 4	City of Moreno Valley	D	4D	37,500	25,275	B	0.674	25,643	B	0.684	0.010	NO
5 . Redlands Blvd from Driveway 4 to Encilia Ave	City of Moreno Valley	D	4D	37,500	25,275	B	0.674	25,643	B	0.684	0.010	NO
6 . Moreno Beach Dr from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	6D	56,300	24,982	A	0.444	25,622	A	0.455	0.011	NO
7 . Moreno Beach Dr from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	6D	56,300	44,511	C	0.791	45,751	D	0.813	0.022	NO
8 . Eucalyptus Ave from Moreno Beach Dr to Auto Mall Dr	City of Moreno Valley	D	4U	25,000	12,586	A	0.503	13,936	A	0.557	0.054	NO
9 . Eucalyptus Ave from Auto Mall Dr to Driveway 1	City of Moreno Valley	D	4U	25,000	8,251	A	0.330	9,655	A	0.386	0.056	NO
10 . Eucalyptus Ave from Driveway 1 to Aldi Pl	City of Moreno Valley	D	4U	25,000	7,912	A	0.316	9,598	A	0.384	0.067	NO
11 . Eucalyptus Ave Aldi Pl to Driveway 2	City of Moreno Valley	D	4U	25,000	9,978	A	0.399	11,664	A	0.467	0.067	NO
12 . Eucalyptus Ave from Driveway 2 to Redlands Blvd	City of Moreno Valley	D	4U	25,000	9,978	A	0.399	11,804	A	0.472	0.073	NO
13 . Encilia Ave from Essen Ln to Mozart Way	City of Moreno Valley	D	4U	25,000	3,996	A	0.160	3,996	A	0.160	0.000	NO
14 . Encilia Ave from Mozart Way to Shubert St	City of Moreno Valley	D	4U	25,000	3,996	A	0.160	3,996	A	0.160	0.000	NO
15 . Encilia Ave Shubert St to Redlands Blvd	City of Moreno Valley	D	4U	25,000	4,312	A	0.172	4,312	A	0.172	0.000	NO

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

Table G: Existing With Project With Improvements Intersection Levels of Service (Revised Project Analysis)

Intersection	LOS Standard	Jurisdiction	With Project						With Project With Improvements			
			Control	AM Peak Hour		PM Peak Hour		Control	AM Peak Hour		PM Peak Hour	
				Delay	LOS	Delay	LOS		Delay	LOS	Delay	LOS
2 . Moreno Beach Dr/SR-60 Eastbound Ramps	D	Caltrans	Signal	>100	F *	>100	F *	Signal	37.9	D	44.7	D

Notes:

LOS = Level of Service

Table H: Existing with Project With Improvements Roadway Segment Levels of Service (Revised Project Analysis)

Roadway Segment	Jurisdiction	LOS Standard	With Project				With Project With Improvements			
			Classification	Roadway Capacity	Daily Volume	LOS	Classification	Roadway Capacity	Daily Volume	LOS
1 . Redlands Blvd from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	15,275	F *	4D	37,500	15,275	A
2 . Redlands Blvd from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	2U	12,500	13,925	F *	4D	37,500	13,925	A
6 . Moreno Beach Dr from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	13,364	F *	4D	37,500	13,364	A

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

Table I: Opening Year (2024) With Project With Improvements Intersection Levels of Service (Revised Project Analysis)

Intersection	LOS Standard	Jurisdiction	With Project						With Project With Improvements					
			Control	AM Peak Hour			PM Peak Hour			Control	AM Peak Hour		PM Peak Hour	
				Delay	LOS		Delay	LOS			Delay	LOS	Delay	LOS
2 . Moreno Beach Dr/SR-60 Eastbound	D	Caltrans	Signal	>100	F	*	>100	F	*	Signal	35.7	D	42.2	D
7 . Redlands Boulevard/SR-60 Westbou	D	Caltrans	Signal	39.8	D		65.2	E	*	Signal	43.6	D	56.8	E *

Notes:

LOS = Level of Service

Table J: Opening Year (2024) With Project With Improvements Roadway Segment Levels of Service (Revised Project Analysis)

Roadway Segment	Jurisdiction	LOS Standard	With Project				With Project With Improvements			
			Classification	Roadway Capacity	Daily Volume	LOS	Classification	Roadway Capacity	Daily Volume	LOS
1 . Redlands Blvd from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	19,027	F *	4D	37,500	19,027	A
2 . Redlands Blvd from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	2U	12,500	17,959	F *	4D	37,500	17,959	A
6 . Moreno Beach Dr from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	18,799	F *	4D	37,500	18,799	A

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

Table K: General Plan Build-out (2040) With Project With Improvements Intersection Levels of Service (Revised Project Analysis)

Intersection	LOS Standard	Jurisdiction	With Project					With Project With Improvements				
			Control	AM Peak Hour		PM Peak Hour		Control	AM Peak Hour		PM Peak Hour	
				Delay	LOS	Delay	LOS		Delay	LOS	Delay	LOS
10 . Redlands Boulevard/Driveway 3	D	Moreno Valley	TWSC	27.3	D	86.2	F *	Signal	2.8	A	3.5	A

Notes:

LOS = Level of Service

Table A: Existing Intersection Levels of Service (Previous Analysis)

Intersection	LOS Standard	Jurisdiction	Control	Without Project				With Project				Change in Delay		Exceed City's Operational Requirement?
				AM Peak Hour		PM Peak Hour		AM Peak Hour		PM Peak Hour		AM Peak Hour	PM Peak Hour	
				Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS			
1 . Moreno Beach Dr/SR-60 Westbound Ramps	D	Caltrans	Signal	16.5	B	15.2	B	13.5	B	19.1	B	-	-	-
2 . Moreno Beach Dr/SR-60 Eastbound Ramps	D	Caltrans	Signal	89.1	F *	>100	F *	>100	F *	>100	F *	-	-	-
3 . Moreno Beach Dr/Eucalyptus Avenue	D	Moreno Valley	Signal	30.2	C	32.5	C	32.4	C	37.8	D	2.2	5.3	NO
4 . Auto Mall Dr/Eucalyptus Avenue	D	Moreno Valley	TWSC	10.1	B	10.9	B	11.1	B	12.6	B	1.0	1.7	NO
5 . Driveway 1/Eucalyptus Avenue	D	Moreno Valley	TWSC	9.2	A		A	10.4	B	10.4	B	1.2	10.4	NO
6 . Driveway 2-Essen Ln/Encilia Avenue	D	Moreno Valley	TWSC	8.4	A	8.3	A	8.7	A	8.8	A	0.3	0.5	NO
7 . Driveway 3/Encilia Avenue	D	Moreno Valley	TWSC	8.4	A	8.3	A	8.9	A	9.0	A	0.5	0.7	NO
8 . Driveway 4-Shubert Street/Encilia Avenue	D	Moreno Valley	TWSC	8.4	A	8.3	A	9.1	A	9.2	A	0.7	0.9	NO
9 . Driveway 5/Eucalyptus Avenue	D	Moreno Valley	TWSC	Future Intersection				8.6	A	8.9	A	8.6	8.9	NO
10 . Redlands Boulevard/SR-60 Westbound Ramps	D	Caltrans	Signal	27.5	C	39.9	D	27.6	C	40.8	D	-	-	-
11 . Redlands Boulevard/SR-60 Eastbound Ramps	D	Caltrans	Signal	20.4	C	25.0	C	25.6	C	25.2	C	-	-	-
12 . Redlands Boulevard/Eucalyptus Avenue	D	Moreno Valley	Signal	8.9	A	6.5	A	10.1	B	14.3	B	1.2	7.8	NO
13 . Redlands Boulevard/Driveway 6	D	Moreno Valley	TWSC	Future Intersection				9.8	A	10.3	B	9.8	10.3	NO
14 . Redlands Boulevard/Driveway 7	D	Moreno Valley	TWSC	Future Intersection				9.7	A	10.4	B	9.7	10.4	NO
15 . Redlands Boulevard/Encilia Avenue	D	Moreno Valley	Signal	20.5	C	18.2	C	2.5	A	0.5	A	-18.0	-17.7	NO

Notes:

LOS = Level of Service

Table B: Existing Roadway Segment Levels of Service (Previous Analysis)

Roadway Segment	Jurisdiction	LOS Standard	Classification	Roadway Capacity	Without Project			Classification	Roadway Capacity	With Project			Change in V/C	Exceed City's Operational Requirement?
					Daily Volume	LOS	V/C			Daily Volume	LOS	V/C		
1 . Redlands Blvd from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	14,403	F *	1.152	2U	12,500	15,322	F *	1.226	-	-
2 . Redlands Blvd from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	2U	12,500	12,290	E *	0.983	2U	12,500	14,015	F *	1.121	0.138	YES
3 . Redlands Blvd from Eucalyptus Ave to Driveway 6	City of Moreno Valley	D	2U	12,500	12,535	F *	1.003	4U	25,000	13,515	A	0.541	-0.462	NO
4 . Redlands Blvd from Driveway 6 to Driveway 7	City of Moreno Valley	D	2U	12,500	12,535	F *	1.003	4U	25,000	13,501	A	0.540	-0.463	NO
5 . Redlands Blvd from Driveway 7 to Encilia Ave	City of Moreno Valley	D	2U	12,500	12,535	F *	1.003	4U	25,000	13,174	A	0.527	-0.476	NO
6 . Moreno Beach Dr from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	12,724	F *	1.018	2U	12,500	13,401	F *	1.072	-	-
7 . Moreno Beach Dr from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	4D	37,500	23,934	B	0.638	4D	37,500	25,243	B	0.673	0.035	NO
8 . Eucalyptus Ave from Moreno Beach Dr to Auto Mall Dr	City of Moreno Valley	D	2U	12,500	3,673	A	0.294	2U	12,500	5,097	A	0.408	0.114	NO
9 . Eucalyptus Ave from Auto Mall Dr to Driveway 1	City of Moreno Valley	D	4U	25,000	1,617	A	0.065	4U	25,000	3,099	A	0.124	0.059	NO
10 . Eucalyptus Ave from Driveway 1 to Aldi Pl	City of Moreno Valley	D	3U	18,750	1,507	A	0.080	4U	25,000	2,930	A	0.117	0.037	NO
11 . Eucalyptus Ave Aldi Pl to Driveway 5	City of Moreno Valley	D	3U	18,750	2,424	A	0.129	4U	25,000	3,847	A	0.154	0.025	NO
12 . Eucalyptus Ave from Driveway 5 to Redlands Blvd	City of Moreno Valley	D	3U	18,750	2,424	A	0.129	4U	25,000	3,958	A	0.158	0.029	NO
13 . Encilia Ave from Essen Ln to Mozart Way	City of Moreno Valley	D	2UR	2,000	217	A	0.108	4U	25,000	361	A	0.014	-0.094	NO
14 . Encilia Ave from Mozart Way to Shubert St	City of Moreno Valley	D	2UR	2,000	217	A	0.108	4U	25,000	569	A	0.023	-0.086	NO
15 . Encilia Ave Shubert St to Redlands Blvd	City of Moreno Valley	D	2UR	2,000	475	A	0.237	4U	25,000	1,114	A	0.045	-0.193	NO

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

Table C: Opening Year (2024) Intersection Levels of Service (Previous Analysis)

Intersection	LOS Standard	Jurisdiction	Control	Without Project				With Project				Change in Delay		Exceed City's Operational Requirement?
				AM Peak Hour		PM Peak Hour		AM Peak Hour		PM Peak Hour		AM Peak Hour	PM Peak Hour	
				Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS			
1 . Moreno Beach Dr/SR-60 Westbound	D	Caltrans	Signal	16.9	B	16.1	B	12.6	B	13.9	B	-	-	-
2 . Moreno Beach Dr/SR-60 Eastbound	D	Caltrans	Signal	>100	F *	>100	F *	>100	F *	>100	F *	-	-	-
3 . Moreno Beach Dr/Eucalyptus Avenue	D	Moreno Valley	Signal	30.4	C	37.1	D	35.1	D	46.3	D	4.7	9.2	NO
4 . Auto Mall Dr/Eucalyptus Avenue	D	Moreno Valley	TWSC	10.5	B	11.7	B	11.5	B	13.8	B	1.0	2.1	NO
5 . Driveway 1/Eucalyptus Avenue	D	Moreno Valley	TWSC	9.5	A		A	10.7	B	10.6	B	1.2	10.6	NO
6 . Driveway 2-Essen Ln/Encilia Avenue	D	Moreno Valley	TWSC	8.4	A	8.3	A	8.7	A	8.8	A	0.3	0.5	NO
7 . Driveway 3/Encilia Avenue	D	Moreno Valley	TWSC	8.5	A	8.3	A	8.9	A	9.0	A	0.4	0.7	NO
8 . Driveway 4-Shubert Street/Encilia Av	D	Moreno Valley	TWSC	8.4	A	8.3	A	9.2	A	9.2	A	0.8	0.9	NO
9 . Driveway 5/Eucalyptus Avenue	D	Moreno Valley	TWSC	Future Intersection				8.7	A	8.9	A	-	-	-
10 . Redlands Boulevard/SR-60 Westbound	D	Caltrans	Signal	37.4	D	64.5	E *	40.1	D	65.1	E *	-	-	-
11 . Redlands Boulevard/SR-60 Eastbound	D	Caltrans	Signal	40.9	D	32.1	C	43.7	D	38.5	D	2.8	6.4	NO
12 . Redlands Boulevard/Eucalyptus Avenue	D	Moreno Valley	Roundabout	16.0	C	8.4	A	19.7	C	10.4	B	3.7	2.0	NO
13 . Redlands Boulevard/Driveway 6	D	Moreno Valley	TWSC	Future Intersection				10.1	B	11.5	B	10.1	11.5	NO
14 . Redlands Boulevard/Driveway 7	D	Moreno Valley	TWSC	Future Intersection				10.1	B	11.6	B	10.1	11.6	NO
15 . Redlands Boulevard/Encilia Avenue	D	Moreno Valley	Signal	30.5	D	26.9	D	2.4	A	1.2	A	-28.1	-25.7	NO
												-	-	-

Notes:

LOS = Level of Service

Table D: Opening Year (2024) Roadway Segment Levels of Service (Previous Analysis)

Roadway Segment	Jurisdiction	LOS Standard	Classification	Roadway Capacity	Without Project			Classification	Roadway Capacity	With Project			Change in V/C	Exceed City's Operational Requirement?
					Daily Volume	LOS	V/C			Daily Volume	LOS	V/C		
1 . Redlands Blvd from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	18,155	F *	1.452	2U	12,500	19,074	F *	1.526	-	-
2 . Redlands Blvd from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	2U	12,500	16,324	F *	1.306	2U	12,500	18,049	F *	1.444	0.138	YES
3 . Redlands Blvd from Eucalyptus Ave to Driveway 6	City of Moreno Valley	D	2U	12,500	15,044	F *	1.203	4U	25,000	16,024	B	0.641	-0.563	NO
4 . Redlands Blvd from Driveway 6 to Driveway 7	City of Moreno Valley	D	2U	12,500	15,044	F *	1.203	4U	25,000	16,010	B	0.640	-0.563	NO
5 . Redlands Blvd from Driveway 7 to Encilia Ave	City of Moreno Valley	D	2U	12,500	15,044	F *	1.203	4U	25,000	15,683	B	0.627	-0.576	NO
6 . Moreno Beach Dr from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	18,159	F *	1.453	2U	12,500	18,836	F *	1.507	-	-
7 . Moreno Beach Dr from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	4D	37,500	32,941	D	0.878	4D	37,500	34,250	E *	0.913	0.035	NO
8 . Eucalyptus Ave from Moreno Beach Dr to Auto Mall Dr	City of Moreno Valley	D	2U	12,500	6,371	A	0.510	2U	12,500	7,795	B	0.624	0.114	NO
9 . Eucalyptus Ave from Auto Mall Dr to Driveway 1	City of Moreno Valley	D	4U	25,000	2,943	A	0.118	4U	25,000	4,425	A	0.177	0.059	NO
10 . Eucalyptus Ave from Driveway 1 to Aldi Pl	City of Moreno Valley	D	3U	18,750	2,822	A	0.150	4U	25,000	4,245	A	0.170	0.019	NO
11 . Eucalyptus Ave Aldi Pl to Driveway 5	City of Moreno Valley	D	3U	18,750	3,834	A	0.204	4U	25,000	5,257	A	0.210	0.006	NO
12 . Eucalyptus Ave from Driveway 5 to Redlands Blvd	City of Moreno Valley	D	3U	18,750	3,834	A	0.204	4U	25,000	5,368	A	0.215	0.010	NO
13 . Encilia Ave from Essen Ln to Mozart Way	City of Moreno Valley	D	2UR	2,000	240	A	0.120	4U	25,000	384	A	0.015	-0.104	NO
14 . Encilia Ave from Mozart Way to Shubert St	City of Moreno Valley	D	2UR	2,000	240	A	0.120	4U	25,000	592	A	0.024	-0.096	NO
15 . Encilia Ave Shubert St to Redlands Blvd	City of Moreno Valley	D	2UR	2,000	524	A	0.262	4U	25,000	1,163	A	0.047	-0.215	NO

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

Table E: General Plan Build-Out (2040) Intersection Levels of Service (Previous Analysis)

Intersection	LOS Standard	Jurisdiction	Control	Without Project				With Project				Change in Delay		Exceed City's Operational Requirement?
				AM Peak Hour		PM Peak Hour		AM Peak Hour		PM Peak Hour		AM Peak Hour	PM Peak Hour	
				Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS			
1 . Moreno Beach Dr/SR-60 Westbound Ramps	D	Caltrans	Signal	2.8	A	0.2	A	2.8	A	0.1	A	-	-	-
2 . Moreno Beach Dr/SR-60 Eastbound Ramps	D	Caltrans	Signal	15.1	B	27.6	C	16.4	B	33.4	C	-	-	-
3 . Moreno Beach Dr/Eucalyptus Avenue	D	Moreno Valley	Signal	32.4	C	49.0	D	34.2	C	53.9	D	1.8	4.9	NO
4 . Auto Mall Dr/Eucalyptus Avenue	D	Moreno Valley	TWSC	12.7	B	19.3	C	14.0	B	21.5	C	1.3	2.2	NO
5 . Driveway 1/Eucalyptus Avenue	D	Moreno Valley	TWSC	11.5	B		A	13.1	B	14.8	C	1.6	14.8	NO
6 . Driveway 2-Essen Ln/Encilia Avenue	D	Moreno Valley	TWSC	8.7	A	9.2	A	9.5	A	10.8	B	0.8	1.6	NO
7 . Driveway 3/Encilia Avenue	D	Moreno Valley	TWSC	8.7	A	9.2	A	9.1	A	11.0	B	0.4	1.8	NO
8 . Driveway 4-Shubert Street/Encilia Avenue	D	Moreno Valley	TWSC	8.6	A	9.2	A	9.2	A	10.3	B	0.6	1.1	NO
9 . Driveway 5/Eucalyptus Avenue	D	Moreno Valley	TWSC	Future Intersection				9.0	A	10.1	B	9.0	10.1	-
10 . Redlands Boulevard/SR-60 Westbound Ramps	D	Caltrans	Signal	9.6	A	7.5	A	11.6	B	7.6	A	-	-	-
11 . Redlands Boulevard/SR-60 Eastbound Ramps	D	Caltrans	Signal	14.7	B	20.7	C	16.3	B	16.9	B	-	-	NO
12 . Redlands Boulevard/Eucalyptus Avenue	D	Moreno Valley	Roundabout	8.6	A	16.1	C	9.7	B	20.3	C	1.1	4.2	NO
13 . Redlands Boulevard/Driveway 6	D	Moreno Valley	TWSC	Future Intersection				11.6	B	13.3	B	11.6	13.3	NO
14 . Redlands Boulevard/Driveway 7	D	Moreno Valley	TWSC	Future Intersection				11.6	B	13.4	B	11.6	13.4	NO
15 . Redlands Boulevard/Encilia Avenue	D	Moreno Valley	Signal	14.1	B	28.0	C	15.5	B	27.3	C	1.4	-0.7	NO
												-	-	-

Notes:

LOS = Level of Service

Table F: General Plan Build-Out (2040) Roadway Segment Levels of Service (Previous Analysis)

Roadway Segment	Jurisdiction	LOS Standard	Classification	Roadway Capacity	Without Project			With Project			Change in V/C	Exceed City's Operational Requirement?
					Daily Volume	LOS	V/C	Daily Volume	LOS	V/C		
1 . Redlands Blvd from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	4D	37,500	25,690	B	0.685	26,609	C	0.710	0.025	NO
2 . Redlands Blvd from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	4D	37,500	26,068	B	0.695	27,793	C	0.741	0.046	NO
3 . Redlands Blvd from Eucalyptus Ave to Driveway 6	City of Moreno Valley	D	4D	37,500	25,275	B	0.674	26,255	B	0.700	0.026	NO
4 . Redlands Blvd from Driveway 6 to Driveway 7	City of Moreno Valley	D	4D	37,500	25,275	B	0.674	26,241	B	0.700	0.026	NO
5 . Redlands Blvd from Driveway 7 to Encilia Ave	City of Moreno Valley	D	4D	37,500	25,275	B	0.674	25,914	B	0.691	0.017	NO
6 . Moreno Beach Dr from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	6D	56,300	24,982	A	0.444	25,659	A	0.456	0.012	NO
7 . Moreno Beach Dr from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	6D	56,300	44,511	C	0.791	45,820	D	0.814	0.023	NO
8 . Eucalyptus Ave from Moreno Beach Dr to Auto Mall Dr	City of Moreno Valley	D	4U	25,000	12,586	A	0.503	14,010	A	0.560	0.057	NO
9 . Eucalyptus Ave from Auto Mall Dr to Driveway 1	City of Moreno Valley	D	4U	25,000	8,251	A	0.330	9,733	A	0.389	0.059	NO
10 . Eucalyptus Ave from Driveway 1 to Aldi Pl	City of Moreno Valley	D	4U	25,000	7,912	A	0.316	9,335	A	0.373	0.057	NO
11 . Eucalyptus Ave Aldi Pl to Driveway 5	City of Moreno Valley	D	4U	25,000	9,978	A	0.399	11,401	A	0.456	0.057	NO
12 . Eucalyptus Ave from Driveway 5 to Redlands Blvd	City of Moreno Valley	D	4U	25,000	9,978	A	0.399	11,512	A	0.460	0.061	NO
13 . Encilia Ave from Essen Ln to Mozart Way	City of Moreno Valley	D	4U	25,000	3,996	A	0.160	4,140	A	0.166	0.006	NO
14 . Encilia Ave from Mozart Way to Shubert St	City of Moreno Valley	D	4U	25,000	3,996	A	0.160	4,348	A	0.174	0.014	NO
15 . Encilia Ave Shubert St to Redlands Blvd	City of Moreno Valley	D	4U	25,000	4,312	A	0.172	4,951	A	0.198	0.026	NO

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

Table G: Existing With Project With Improvements Intersection Levels of Service (Previous Analysis)

Intersection	LOS Standard	Jurisdiction	With Project						With Project With Improvements			
			Control	AM Peak Hour		PM Peak Hour		Control	AM Peak Hour		PM Peak Hour	
				Delay	LOS	Delay	LOS		Delay	LOS	Delay	LOS
2 . Moreno Beach Dr/SR-60 Eastbound Ramps	D	Caltrans	Signal	>100	F *	>100	F *	Signal	31.8	C	42.3	D

Notes:

LOS = Level of Service

Table H: Existing with Project With Improvements Roadway Segment Levels of Service (Previous Analysis)

Roadway Segment	Jurisdiction	LOS Standard	With Project				With Project With Improvements			
			Classification	Roadway Capacity	Daily Volume	LOS	Classification	Roadway Capacity	Daily Volume	LOS
1 . Redlands Blvd from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	15,322	F *	4D	37,500	15,322	A
2 . Redlands Blvd from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	2U	12,500	14,015	F *	4D	37,500	14,015	A
6 . Moreno Beach Dr from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	13,401	F *	4D	37,500	13,401	A

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

Table I: Opening Year (2024) With Project With Improvements Intersection Levels of Service (Previous Analysis)

Intersection	LOS Standard	Jurisdiction	With Project						With Project With Improvements					
			Control	AM Peak Hour			PM Peak Hour			Control	AM Peak Hour		PM Peak Hour	
				Delay	LOS		Delay	LOS			Delay	LOS	Delay	LOS
2 . Moreno Beach Dr/SR-60 Eastbound	D	Caltrans	Signal	>100	F	*	>100	F	*	Signal	32.9	C	43.2	D
10 . Redlands Boulevard/SR-60 Westbou	D	Caltrans	Signal	40.1	D		65.1	E	*	Signal	35.1	D	56.7	E *

Notes:

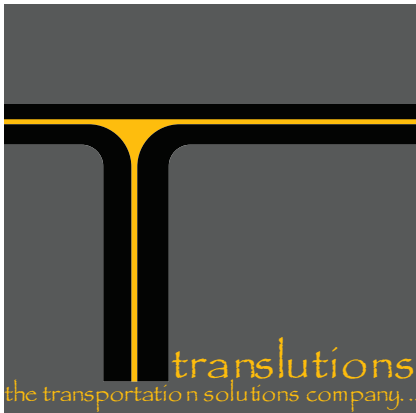
LOS = Level of Service

Table J: Opening Year (2024) With Project With Improvements Roadway Segment Levels of Service (Previous Analysis)

Roadway Segment	Jurisdiction	LOS Standard	With Project				With Project With Improvements			
			Classification	Roadway Capacity	Daily Volume	LOS	Classification	Roadway Capacity	Daily Volume	LOS
1 . Redlands Blvd from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	19,074	F *	4D	37,500	19,074	A
2 . Redlands Blvd from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	2U	12,500	18,049	F *	4D	37,500	18,049	A
6 . Moreno Beach Dr from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	18,836	F *	4D	37,500	18,836	A

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential



memorandum

DATE: April 9, 2022
TO: John Grace, Vice President - Development, Hillwood
FROM: Sandipan Bhattacharjee, Translutions, Inc.
SUBJECT: Moreno Valley Trade Center – E-Commerce Scenario - Traffic Impact Analysis Evaluation

Translutions, Inc. (Translutions) is pleased to provide this memorandum discussing the changes to the traffic impact analysis associated with the updated site plan for the Moreno Valley Trade Center E-Commerce development project. The project is located on the southwest corner of Redlands Boulevard and Eucalyptus Avenue in the City of Moreno Valley.

BACKGROUND

Translutions submitted a TIA in November 2020 to the City of Moreno Valley that included the analysis of a proposed 1,332,380 square foot E-Commerce warehouse development. Since then, the project description has been revised to include a 1,263,270 square foot E-Commerce building and several modifications to the site plan. This memorandum compares the findings from the traffic impact analysis in November 2020 to what is being proposed now. Figure 1 illustrates the revised site plan.

REVISED PROJECT DESCRIPTION

As stated above, the project description has been modified to now include a reduction in square footage for the E-Commerce building from 1,332,380 square feet to 1,263,270 square feet. Access to the site has been modified for both autos and trucks. For autos, access to the site from Encilia Avenue has been removed. Autos will access the site via the two driveways on Eucalyptus Avenue and the two driveways on Redlands Boulevard. The northern driveway on Redlands Boulevard now includes full-access inbound/outbound movements for autos and will include a traffic signal as a project design feature. The analysis includes the signal as a project constructed improvement. Trucks will access the site via the two driveways on Eucalyptus Avenue and are prohibited on Redlands Boulevard south of Eucalyptus Avenue.

PROJECT TRIP GENERATION COMPARISON

The project trip generation disclosed in the previous TIA from 2020 was compared to the trip generation for the proposed project. Table A summarizes the trip generation comparison. As shown in Table A, the proposed project would result in a net decrease in project trips of -30 a.m. peak hour PCE trips, -57 p.m. peak hour PCE trips, and -409 daily PCE trips, when compared to the previous study's trip generation.

Table A - Project Trip Generation Comparison

Units	Peak Hour						Daily
	AM Peak Hour			PM Peak Hour			
	In	Out	Total	In	Out	Total	
Trip Generation from Previous Traffic Impact Analysis (November 2020)							
Passenger Cars	373	79	452	533	497	1,030	5,750
Total PCE	413	122	554	567	550	1,118	7,903
Trip Generation (Proposed Project)							
Passenger Cars	354	75	429	505	472	977	5,452
Total PCE	389	118	524	536	525	1,061	7,494
Net Change in Total PCE	-24	-4	-30	-31	-25	-57	-409

REDUCTION IN AUTO TRIPS ON ENCILIA AVENUE

The trip distribution for the proposed project trips were developed using the same trip distribution patterns for autos from the November 2020 TIA and adjusted to reflect the changes in access for autos included in the project description such as the removal of the project driveways on Encilia Avenue. With the removal of the project driveways on Encilia Avenue, a reduction in project trips is anticipated on Encilia Avenue. Table B compares the project trips on Encilia Avenue from the previous TIA to the proposed project. As shown in Table B, the proposed project would result in a net decrease in project trips on Encilia Avenue of -200 a.m. peak hour trips, -459 p.m. peak hour trips, and -2,559 daily PCE trips.

Table B - Project Trip Comparison on Encilia Avenue

Units	Peak Hour						Daily
	AM Peak Hour			PM Peak Hour			
	In	Out	Total	In	Out	Total	
Project Trips on Encilia Avenue from Previous Traffic Impact Analysis (November 2020)							
Total Trips	165	35	200	235	224	459	2,559
Project Trips on Encilia Avenue (Proposed Project)							
Total Trips	0	0	0	0	0	0	0
Net Change in Trips on Encilia Avenue	-165	-35	-200	-235	-224	-459	-2559

REDUCTION IN TRUCK TRIPS ON ENCILIA AVENUE

The trip distribution for the proposed project trips were developed using the same trip distribution patterns for trucks from the November 2020 TIA and adjusted to reflect the changes in access for trucks included in the project description such as the prohibition of trucks on Redlands Boulevard south of Eucalyptus Avenue. With trucks prohibited on Redlands Boulevard south of Eucalyptus Avenue, a reduction in trucks trips is shown in Table C. Table C compares the trucks trips on Redlands Boulevard south of Eucalyptus Avenue from the previous TIA to the proposed project. As shown in Table C, the proposed project would result in a net decrease in truck PCE trips on Redlands Boulevard south of Eucalyptus Avenue of -12 a.m. peak hour PCE trips, -10 p.m. peak hour PCE trips, and -323 daily PCE trips.

Table C - Truck Trip Comparison on Redlands Boulevard south of Eucalyptus Avenue

Units	Peak Hour						Daily
	AM Peak Hour			PM Peak Hour			
	In	Out	Total	In	Out	Total	
Truck Trips on Redlands Blvd. south of Eucalyptus Ave. from Previous Traffic Impact Analysis (November 2020)							
Total Trips	12	0	12	10	0	10	323
Truck Trips on Redlands Blvd. south of Eucalyptus Ave. (Proposed Project)							
Total Trips	0	0	0	0	0	0	0
Net Change in Trips on Encilia Avenue	-12	0	-12	-10	0	-10	-323

LEVEL OF SERVICE COMPARISON

As stated previously, the trip distribution for the proposed project trips were developed using the same trip distribution patterns for autos and trucks from the November 2020 TIA. With the trip generation reduction shown in Table A of -30 a.m. peak hour PCE trips, -57 p.m. peak hour PCE trips, and -409 daily PCE trips, it was anticipated that the levels of service at the study area intersections would generally improve or remain the same under existing, opening year, and general plan build out conditions at the study area intersections and roadways segments. A full analysis has been conducted and available for

review, and as anticipated, the operations under the revised project are better than the previous project. Summary LOS tables are attached.

CONCLUSION

Based on the changes to the project description, the proposed project would result in a net decrease in project trips of -30 a.m. peak hour PCE trips, -57 p.m. peak hour PCE trips, and -409 daily PCE trips, when compared to the previous study's trip generation. A full analysis was conducted, and the results are summarized in this memorandum. The project will not result in any new operational deficiencies that were not disclosed in the previous TIA from November 2020.

Attachments:

Figure 1 – Site Plan
LOS Tables

Table A: Existing Intersection Levels of Service (Revised Project Analysis)

Intersection	LOS Standard	Jurisdiction	Control	Without Project				With Project				Change in Delay		Exceed City's Operational Requirement?
				AM Peak Hour		PM Peak Hour		AM Peak Hour		PM Peak Hour		AM Peak Hour	PM Peak Hour	
				Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS			
1 . Kitching St/Iris Ave	C	Moreno Valley	Signal	34.4	C	32.8	C	34.6	C	33.4	C	0.2	0.6	NO
2 . Lasselle St/Alessandro Blvd	D	Moreno Valley	Signal	42.7	D	43.9	D	46.1	D	44.7	D	3.4	0.8	NO
3 . Lasselle St/Iris Ave	D	Moreno Valley	Signal	40.8	D	41.9	D	40.9	D	42.1	D	0.1	0.2	NO
4 . Nason St/Eucalyptus Ave	D	Moreno Valley	Signal	43.4	D	27.3	C	43.6	D	28.1	C	0.2	0.8	NO
5 . Nason St/Alessandro Blvd	D	Moreno Valley	Signal	39.1	D	29.4	C	39.4	D	30.2	C	0.3	0.8	NO
6 . Nason St/Iris Ave	C	Moreno Valley	Signal	24.2	C	22.6	C	24.2	C	22.6	C	0.0	0.0	NO
7 . Fir Ave/Eucalyptus Ave	D	Moreno Valley	Signal	23.5	C	21.3	C	23.7	C	21.5	C	0.2	0.2	NO
8 . Oliver St/Iris Ave	D	Moreno Valley	Signal	28.5	C	23.5	C	29.3	C	23.8	C	0.8	0.3	NO
9 . Moreno Beach Dr/SR-60 WB Ramps	D	Caltrans	Signal	16.5	B	15.2	B	17.1	B	15.2	B	-	-	-
10 . Moreno Beach Dr/SR-60 EB Ramps	D	Caltrans	Signal	89.1	F *	>100	F *	>100	F *	>100	F *	-	-	-
11 . Moreno Beach Dr/Eucalyptus Ave	D	Moreno Valley	Signal	30.2	C	32.5	C	33.3	C	39.6	D	3.1	7.1	NO
12 . Auto Mall Dr/Eucalyptus Ave	D	Moreno Valley	TWSC	10.1	B	10.9	B	11.5	B	16.0	C	1.4	5.1	NO
13 . Moreno Beach Dr/Alessandro Blvd	D	Moreno Valley	Signal	39.3	D	30.6	C	39.3	D	37.5	D	0.0	6.9	NO
14 . Moreno Beach Blvd/Cactus Ave	C	Moreno Valley	Signal	26.2	C	29.7	C	26.6	C	29.9	C	0.4	0.2	NO
15 . Moreno Beach Dr/John F Kennedy Dr	D	Moreno Valley	Signal	29.4	C	28.1	C	29.6	C	28.7	C	0.2	0.6	NO
16 . Alessandro Rd/San Timoteo Canyon Rd	C	Redlands	AWSC	59.6	F *	16.2	C	64.7	F *	18.5	C	-	-	-
17 . Live Oak Canyon Rd/San Timoteo Canyon Rd	C	Riverside County	AWSC	74.3	F *	60.7	F *	80.1	F *	79.0	F *	-	-	-
18 . Redlands Blvd/San Timoteo Canyon Rd	C	Riverside County	AWSC	86.2	F *	>100	F *	95.1	F *	>100	F *	-	-	-
19 . Dwy 1/Eucalyptus Ave	D	Moreno Valley	TWSC	9.2	A		A	10.8	B	12.5	B	1.6	12.5	NO
20 . Dwy 2/Eucalyptus Ave	D	Moreno Valley	TWSC	Future Intersection				8.8	A	9.2	A	8.8	9.2	NO
21 . Redlands Blvd/Ironwood Ave	D	Moreno Valley	Signal	19.8	B	13.8	B	20.1	C	13.7	B	0.3	-0.1	NO
22 . Redlands Blvd/SR-60 WB Ramps	D	Caltrans	Signal	27.5	C	39.9	D	27.6	C	46.9	D	-	-	-
23 . Redlands Blvd/SR-60 EB Ramps	D	Caltrans	Signal	20.4	C	25.0	C	28.5	C	26.8	C	-	-	-
24 . Redlands Blvd/Eucalyptus Ave	D	Moreno Valley	Signal	8.9	A	6.5	A	12.2	B	18.6	B	3.3	12.1	NO
25 . Redlands Blvd/Dwy 3	D	Moreno Valley	TWSC	Future Intersection				20.7	B	>100	F *	20.7	393.4	YES
26 . Redlands Blvd/Dwy 4	D	Moreno Valley	TWSC	Future Intersection				9.7	B	11.4	B	9.7	11.4	NO
27 . Redlands Blvd/Encilia Ave	D	Moreno Valley	TWSC	20.5	C	18.2	C	24.6	C	25.4	D	4.1	7.2	NO
28 . Redlands Blvd/Cottonwood Ave	C	Moreno Valley	Signal	7.0	A	5.5	A	7.1	A	5.7	A	0.1	0.2	NO
29 . Redlands Blvd/Alessandro Blvd	C	Moreno Valley	AWSC	26.7	D *	26.7	D *	40.3	E *	67.5	F *	13.6	40.8	YES
30 . Redlands Blvd-John F Kennedy Dr/Cactus Ave	C	Moreno Valley	AWSC	11.1	B	11.3	B	11.4	B	11.7	B	0.3	0.4	NO
31 . WLC Parkway/Eucalyptus Ave	D	Moreno Valley	TWSC	10.0	B	9.6	A	10.4	B	10.1	B	0.4	0.5	NO

Notes:

* Exceeds LOS Standard

TWSC = Two-Way Stop Control; For TWSC intersections, reported delay is for worst-case approach/movement.

LOS = Level of Service

Table B: Existing Roadway Segment Levels of Service (Revised Project Analysis)

Roadway Segment	Jurisdiction	LOS Standard	Classification	Roadway Capacity	Without Project			Classification	Roadway Capacity	With Project			Change in V/C	Exceed City's Operational Requirement?
					Daily Volume	LOS	V/C			Daily Volume	LOS	V/C		
1 . San Timoteo Canyon Rd from Alessandro Rd to Live Oak Canyon Rd	City of Redlands/Riverside County	C	2MA	16,100	13,775	D *	0.856	2MA	16,100	14,157	D *	0.879	-	-
2 . San Timoteo Canyon Rd from Live Oak Canyon Rd to Redlands Blvd	Riverside County	C	2MA	16,100	17,208	F *	1.069	2MA	16,100	17,644	F *	1.096	-	-
3 . Redlands Blvd south of San Timoteo Canyon Rd	Riverside County	C	2MA	16,100	17,452	F *	1.084	2MA	16,100	17,888	F *	1.111	-	-
4 . Redlands Blvd north of Ironwood Ave	City of Moreno Valley	C	2U	12,500	18,086	F *	1.447	2U	12,500	18,522	F *	1.482	0.035	NO
5 . Redlands Blvd from Ironwood Ave to SR-60 WB Ramps	City of Moreno Valley	D	2U	12,500	15,092	F *	1.207	2U	12,500	15,528	F *	1.242	0.035	NO
6 . Redlands Blvd from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	14,403	F *	1.152	2U	12,500	15,970	F *	1.278	-	-
7 . Redlands Blvd from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	2U	12,500	12,290	E *	0.983	2U	12,500	14,988	F *	1.199	0.216	YES
8 . Redlands Blvd from Eucalyptus Ave to Driveway 3	City of Moreno Valley	D	2U	12,500	12,535	F *	1.003	4U	25,000	14,881	A	0.595	-0.408	NO
9 . Redlands Blvd from Driveway 3 to Driveway 4	City of Moreno Valley	D	2U	12,500	12,535	F *	1.003	4U	25,000	14,007	A	0.560	-0.443	NO
10 . Redlands Blvd from Driveway 4 to Encilia Ave	City of Moreno Valley	D	2U	12,500	12,535	F *	1.003	4U	25,000	14,007	A	0.560	-0.443	NO
11 . Redlands Blvd from Encilia Ave to Cottonwood Ave	City of Moreno Valley	C	2U	12,500	10,585	D *	0.847	2U	12,500	12,057	E *	0.965	0.118	YES
12 . Redlands Blvd from Cottonwood Ave to Alessandro Blvd	City of Moreno Valley	C	2U	12,500	9,391	C	0.751	2U	12,500	10,699	D *	0.856	0.105	YES
13 . Redlands Blvd from Alessandro Blvd to Cactus Ave	City of Moreno Valley	C	2U	12,500	8,501	B	0.680	2U	12,500	8,829	C	0.706	0.026	NO
14 . JFK Dr from Cactus Ave to Moreno Beach Dr	City of Moreno Valley	C	4U	25,000	5,797	A	0.232	4U	25,000	6,015	A	0.241	0.009	NO
15 . Moreno Beach Dr from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	12,724	F *	1.018	2U	12,500	14,005	F *	1.120	-	-
16 . Moreno Beach Dr from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	4D	37,500	23,934	B	0.638	4D	37,500	26,332	C	0.702	0.064	NO
17 . Moreno Beach Dr from Alessandro Blvd to Cactus Ave	City of Moreno Valley	D	2U	12,500	18,862	F *	1.509	2U	12,500	19,244	F *	1.539	0.031	NO
18 . Moreno Beach Dr from Cactus Ave to JFK Dr	City of Moreno Valley	C	6D	56,300	15,452	A	0.274	6D	56,300	15,834	A	0.281	0.007	NO
19 . Moreno Beach Dr from JFK Dr to Oliver St	City of Moreno Valley	D	6D	56,300	15,898	A	0.282	6D	56,300	16,498	A	0.293	0.011	NO
20 . Iris Ave From Nason St to Oliver St	City of Moreno Valley	D	6D	56,300	19,248	A	0.342	6D	56,300	19,738	A	0.351	0.009	NO
21 . Iris Ave From Lasselle St to Nason St	City of Moreno Valley	D	6D	56,300	30,134	A	0.535	6D	56,300	30,624	A	0.544	0.009	NO
22 . Iris Ave From Kitching St to Lasselle St	City of Moreno Valley	D	6D	56,300	26,472	A	0.470	6D	56,300	26,744	A	0.475	0.005	NO
23 . Eucalyptus Ave from Nason St to Fir Ave	City of Moreno Valley	D	4U	25,000	9,376	A	0.375	4U	25,000	9,648	A	0.386	0.011	NO
24 . Eucalyptus Ave from Fir Ave to Moreno Beach Dr	City of Moreno Valley	D	4D	37,500	14,002	A	0.373	4D	37,500	14,274	A	0.381	0.007	NO
25 . Eucalyptus Ave from Moreno Beach Dr to Auto Mall Dr	City of Moreno Valley	D	2U	12,500	3,673	A	0.294	2U	12,500	6,507	A	0.521	0.227	NO
26 . Eucalyptus Ave from Auto Mall Dr to Driveway 1	City of Moreno Valley	D	4U	25,000	1,617	A	0.065	4U	25,000	4,669	A	0.187	0.122	NO
27 . Eucalyptus Ave from Driveway 1 to Aldi Pl	City of Moreno Valley	D	3U	18,750	1,507	A	0.080	4U	25,000	4,731	A	0.189	0.109	NO
28 . Eucalyptus Ave Aldi Pl to Driveway 2	City of Moreno Valley	D	3U	18,750	2,424	A	0.129	4U	25,000	5,648	A	0.226	0.097	NO
29 . Eucalyptus Ave from Driveway 2 to Redlands Blvd	City of Moreno Valley	D	3U	18,750	2,424	A	0.129	4U	25,000	5,886	A	0.235	0.106	NO
30 . Eucalyptus Ave from Redlands Blvd to World Logistics Center Driveway	City of Moreno Valley	D	2U	12,500	2,612	A	0.209	2U	12,500	2,886	A	0.231	0.022	NO
31 . Encilia Ave from Essen Ln to Mozart Way	City of Moreno Valley	D	2UR	2,000	217	A	0.108	4U	25,000	217	A	0.009	-0.100	NO
32 . Encilia Ave from Mozart Way to Shubert St	City of Moreno Valley	D	2UR	2,000	217	A	0.108	4U	25,000	217	A	0.009	-0.100	NO
33 . Encilia Ave Shubert St to Redlands Blvd	City of Moreno Valley	D	2UR	2,000	475	A	0.237	4U	25,000	475	A	0.019	-0.218	NO
34 . Alessandro Blvd from Lasselle St to Nason St	City of Moreno Valley	D	2U	12,500	10,745	D	0.860	2U	12,500	11,017	D	0.881	0.022	NO
35 . Alessandro Blvd from Nason St to Moreno Beach Dr	City of Moreno Valley	D	2U	12,500	9,553	C	0.764	2U	12,500	10,043	D	0.803	0.039	NO
36 . Alessandro Blvd from Moreno Beach Dr to Redlands Blvd	City of Moreno Valley	D	2U	12,500	5,549	A	0.444	2U	12,500	6,421	A	0.514	0.070	NO

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

Table C: Opening Year (2024) Intersection Levels of Service (Revised Project Analysis)

Intersection	LOS Standard	Jurisdiction	Control	Without Project				With Project				Change in Delay		Exceed City's Operational Requirement?
				AM Peak Hour		PM Peak Hour		AM Peak Hour		PM Peak Hour		AM Peak Hour	PM Peak Hour	
				Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS			
1 . Kitching St/Iris Ave	C	Moreno Valley	Signal	39.7	D *	37.3	D *	40.0	D *	38.2	D *	0.3	0.9	NO
2 . Lasselle St/Alessandro Blvd	D	Moreno Valley	Signal	92.7	F *	60.8	E *	93.3	F *	63.5	E *	0.6	2.7	NO
3 . Lasselle St/Iris Ave	D	Moreno Valley	Signal	48.6	D	55.0	E *	50.2	D	55.7	E *	1.6	0.7	NO
4 . Nason St/Eucalyptus Ave	D	Moreno Valley	Signal	67.2	E *	37.7	D	68.1	E *	38.8	D	0.9	1.1	NO
5 . Nason St/Alessandro Blvd	D	Moreno Valley	Signal	42.2	D	36.9	D	42.2	D	37.8	D	0.0	0.9	NO
6 . Nason St/Iris Ave	C	Moreno Valley	Signal	30.8	C	29.8	C	31.0	C	32.6	C	0.2	2.8	NO
7 . Fir Ave/Eucalyptus Ave	D	Moreno Valley	Signal	25.5	C	25.8	C	26.6	C	26.0	C	1.1	0.2	NO
8 . Oliver St/Iris Ave	D	Moreno Valley	Signal	35.6	D	27.8	C	36.0	D	28.0	C	0.4	0.2	NO
9 . Moreno Beach Dr/SR-60 WB Ramps	D	Caltrans	Signal	16.9	B	16.1	B	17.3	B	16.2	B	-	-	-
10 . Moreno Beach Dr/SR-60 EB Ramps	D	Caltrans	Signal	>100	F *	>100	F *	>100	F *	>100	F *	-	-	-
11 . Moreno Beach Dr/Eucalyptus Ave	D	Moreno Valley	Signal	30.4	C	37.1	D	36.8	D	57.7	E *	6.4	20.6	YES
12 . Auto Mall Dr/Eucalyptus Ave	D	Moreno Valley	TWSC	10.5	B	11.7	B	12.0	B	18.2	C	1.5	6.5	NO
13 . Moreno Beach Dr/Alessandro Blvd	D	Moreno Valley	Signal	70.3	E *	85.2	F *	71.9	E *	98.4	F *	1.6	13.2	YES
14 . Moreno Beach Blvd/Cactus Ave	C	Moreno Valley	Signal	30.4	C	33.2	C	30.6	C	33.6	C	0.2	0.4	NO
15 . Moreno Beach Dr/John F Kennedy Dr	D	Moreno Valley	Signal	30.0	C	28.3	C	30.3	C	28.9	C	0.3	0.6	NO
16 . Alessandro Rd/San Timoteo Canyon Rd	C	Redlands	AWSC	>100	F *	24.6	C	>100	F *	30.7	D *	-	-	-
17 . Live Oak Canyon Rd/San Timoteo Canyon Rd	C	Riverside County	AWSC	>100	F *	>100	F *	>100	F *	>100	F *	-	-	-
18 . Redlands Blvd/San Timoteo Canyon Rd	C	Riverside County	AWSC	>100	F *	>100	F *	>100	F *	>100	F *	-	-	-
19 . Dwy 1/Eucalyptus Ave	D	Moreno Valley	TWSC	9.5	A		A	11.1	B	13.9	B	1.6	13.9	NO
20 . Dwy 2/Eucalyptus Ave	D	Moreno Valley	TWSC	Future Intersection				8.9	A	9.3	A	8.9	9.3	NO
21 . Redlands Blvd/Ironwood Ave	D	Moreno Valley	Signal	21.0	C	19.5	B	21.0	C	26.3	C	0.0	6.8	NO
22 . Redlands Blvd/SR-60 WB Ramps	D	Caltrans	Signal	37.4	D	64.5	E *	41.1	D	71.3	E *	-	-	-
23 . Redlands Blvd/SR-60 EB Ramps	D	Caltrans	Signal	40.9	D	32.1	C	36.8	D	48.7	D	-	-	-
24 . Redlands Blvd/Eucalyptus Ave	D	Moreno Valley	Roundabout	16.0	C	8.4	A	22.0	C	14.7	C	6.0	6.3	NO
25 . Redlands Blvd/Dwy 3	D	Moreno Valley	TWSC	Future Intersection				27.1	B	>100	F *	27.1	956.4	YES
26 . Redlands Blvd/Dwy 4	D	Moreno Valley	TWSC	Future Intersection				10.0	B	13.0	B	10.0	13.0	NO
27 . Redlands Blvd/Encilia Ave	D	Moreno Valley	Signal	30.5	D	26.9	D	22.7	C	27.8	D	-7.8	0.9	NO
28 . Redlands Blvd/Cottonwood Ave	C	Moreno Valley	Signal	7.9	A	6.9	A	7.9	A	7.4	A	0.0	0.5	NO
29 . Redlands Blvd/Alessandro Blvd	C	Moreno Valley	AWSC	95.1	F *	>100	F *	>100	F *	>100	F *	28.6	86.6	YES
30 . Redlands Blvd-John F Kennedy Dr/Cactus Ave	C	Moreno Valley	AWSC	21.8	C	31.2	D *	22.7	C	35.1	E *	0.9	3.9	NO
31 . WLC Parkway/Eucalyptus Ave	D	Moreno Valley	TWSC	>100	F *	>100	F *	>100	F *	>100	F *	677.7	10626.4	YES

Notes:

* Exceeds LOS Standard

TWSC = Two-Way Stop Control; For TWSC intersections, reported delay is for worst-case approach/movement.

LOS = Level of Service

Table D: Opening Year (2024) Roadway Segment Levels of Service (Revised Project Analysis)

Roadway Segment	Jurisdiction	LOS Standard	Classification	Roadway Capacity	Without Project			Classification	Roadway Capacity	With Project			Change in V/C	Exceed City's Operational Requirement?
					Daily Volume	LOS	V/C			Daily Volume	LOS	V/C		
1 . San Timoteo Canyon Rd from Alessandro Rd to Live Oak Canyon Rd	City of Redlands/Riverside County	C	2MA	16,100	15,849	E *	0.984	2MA	16,100	16,231	F *	1.008	-	-
2 . San Timoteo Canyon Rd from Live Oak Canyon Rd to Redlands Blvd	Riverside County	C	2MA	16,100	19,852	F *	1.233	2MA	16,100	20,288	F *	1.260	-	-
3 . Redlands Blvd south of San Timoteo Canyon Rd	Riverside County	C	2MA	16,100	20,216	F *	1.256	2MA	16,100	20,652	F *	1.283	-	-
4 . Redlands Blvd north of Ironwood Ave	City of Moreno Valley	C	2U	12,500	21,242	F *	1.699	2U	12,500	21,678	F *	1.734	0.035	NO
5 . Redlands Blvd from Ironwood Ave to SR-60 WB Ramps	City of Moreno Valley	D	2U	12,500	17,625	F *	1.410	2U	12,500	18,061	F *	1.445	0.035	NO
6 . Redlands Blvd from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	18,155	F *	1.452	2U	12,500	19,722	F *	1.578	-	-
7 . Redlands Blvd from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	2U	12,500	16,324	F *	1.306	2U	12,500	19,022	F *	1.522	0.216	YES
8 . Redlands Blvd from Eucalyptus Ave to Driveway 3	City of Moreno Valley	D	2U	12,500	15,044	F *	1.203	4U	25,000	17,390	B	0.696	-0.508	NO
9 . Redlands Blvd from Driveway 3 to Driveway 4	City of Moreno Valley	D	2U	12,500	15,044	F *	1.203	4U	25,000	16,516	B	0.661	-0.543	NO
10 . Redlands Blvd from Driveway 4 to Encilia Ave	City of Moreno Valley	D	2U	12,500	15,044	F *	1.203	4U	25,000	16,516	B	0.661	-0.543	NO
11 . Redlands Blvd from Encilia Ave to Cottonwood Ave	City of Moreno Valley	C	2U	12,500	12,891	F *	1.031	2U	12,500	14,363	F *	1.149	0.118	YES
12 . Redlands Blvd from Cottonwood Ave to Alessandro Blvd	City of Moreno Valley	C	2U	12,500	11,794	E *	0.944	2U	12,500	13,102	F *	1.048	0.105	YES
13 . Redlands Blvd from Alessandro Blvd to Cactus Ave	City of Moreno Valley	C	2U	12,500	10,196	D *	0.816	2U	12,500	10,524	D *	0.842	0.026	NO
14 . JFK Dr from Cactus Ave to Moreno Beach Dr	City of Moreno Valley	C	4U	25,000	7,080	A	0.283	4U	25,000	7,298	A	0.292	0.009	NO
15 . Moreno Beach Dr from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	18,159	F *	1.453	2U	12,500	19,440	F *	1.555	-	-
16 . Moreno Beach Dr from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	4D	37,500	32,941	D	0.878	4D	37,500	35,339	E *	0.942	0.064	YES
17 . Moreno Beach Dr from Alessandro Blvd to Cactus Ave	City of Moreno Valley	D	2U	12,500	25,697	F *	2.056	2U	12,500	26,079	F *	2.086	0.031	NO
18 . Moreno Beach Dr from Cactus Ave to JFK Dr	City of Moreno Valley	C	6D	56,300	22,022	A	0.391	6D	56,300	22,404	A	0.398	0.007	NO
19 . Moreno Beach Dr from JFK Dr to Oliver St	City of Moreno Valley	D	6D	56,300	26,091	A	0.463	6D	56,300	26,691	A	0.474	0.011	NO
20 . Iris Ave From Nason St to Oliver St	City of Moreno Valley	D	6D	56,300	29,723	A	0.528	6D	56,300	30,213	A	0.537	0.009	NO
21 . Iris Ave From Lasselle St to Nason St	City of Moreno Valley	D	6D	56,300	42,358	C	0.752	6D	56,300	42,848	C	0.761	0.009	NO
22 . Iris Ave From Kitching St to Lasselle St	City of Moreno Valley	D	6D	56,300	36,225	B	0.643	6D	56,300	36,497	B	0.648	0.005	NO
23 . Eucalyptus Ave from Nason St to Fir Ave	City of Moreno Valley	D	4U	25,000	11,434	A	0.457	4U	25,000	11,706	A	0.468	0.011	NO
24 . Eucalyptus Ave from Fir Ave to Moreno Beach Dr	City of Moreno Valley	D	4D	37,500	17,687	A	0.472	4D	37,500	17,959	A	0.479	0.007	NO
25 . Eucalyptus Ave from Moreno Beach Dr to Auto Mall Dr	City of Moreno Valley	D	2U	12,500	6,371	A	0.510	2U	12,500	9,205	C	0.736	0.227	NO
26 . Eucalyptus Ave from Auto Mall Dr to Driveway 1	City of Moreno Valley	D	4U	25,000	2,943	A	0.118	4U	25,000	5,995	A	0.240	0.122	NO
27 . Eucalyptus Ave from Driveway 1 to Aldi Pl	City of Moreno Valley	D	3U	18,750	2,822	A	0.150	4U	25,000	6,046	A	0.242	0.091	NO
28 . Eucalyptus Ave Aldi Pl to Driveway 2	City of Moreno Valley	D	3U	18,750	3,834	A	0.204	4U	25,000	7,058	A	0.282	0.078	NO
29 . Eucalyptus Ave from Driveway 2 to Redlands Blvd	City of Moreno Valley	D	3U	18,750	3,834	A	0.204	4U	25,000	7,296	A	0.292	0.087	NO
30 . Eucalyptus Ave from Redlands Blvd to World Logistics Center Driveway	City of Moreno Valley	D	2U	12,500	6,042	A	0.483	2U	12,500	6,316	A	0.505	0.022	NO
31 . Encilia Ave from Essen Ln to Mozart Way	City of Moreno Valley	D	2UR	2,000	240	A	0.120	4U	25,000	240	A	0.010	-0.110	NO
32 . Encilia Ave from Mozart Way to Shubert St	City of Moreno Valley	D	2UR	2,000	240	A	0.120	4U	25,000	240	A	0.010	-0.110	NO
33 . Encilia Ave Shubert St to Redlands Blvd	City of Moreno Valley	D	2UR	2,000	524	A	0.262	4U	25,000	524	A	0.021	-0.241	NO
34 . Alessandro Blvd from Lasselle St to Nason St	City of Moreno Valley	D	2U	12,500	18,164	F *	1.453	2U	12,500	18,436	F *	1.475	0.022	NO
35 . Alessandro Blvd from Nason St to Moreno Beach Dr	City of Moreno Valley	D	2U	12,500	17,498	F *	1.400	2U	12,500	17,988	F *	1.439	0.039	NO
36 . Alessandro Blvd from Moreno Beach Dr to Redlands Blvd	City of Moreno Valley	D	2U	12,500	7,674	B	0.614	2U	12,500	8,546	B	0.684	0.070	NO

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

Table E: General Plan Build-Out (2040) Intersection Levels of Service (Revised Project Analysis)

Intersection	LOS Standard	Jurisdiction	Control	Without Project				With Project				Change in Delay		Exceed City's Operational Requirement?
				AM Peak Hour		PM Peak Hour		AM Peak Hour		PM Peak Hour		AM Peak Hour	PM Peak Hour	
				Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS			
1 . Kitching St/Iris Ave	C	Moreno Valley	Signal	95.4	F *	>100	F *	98.8	F *	>100	F *	3.4	0.1	NO
2 . Lasselle St/Alessandro Blvd	D	Moreno Valley	Signal	39.6	D	39.5	D	39.7	D	39.6	D	0.1	0.1	NO
3 . Lasselle St/Iris Ave	D	Moreno Valley	Signal	49.4	D	63.5	E *	49.7	D	64.5	E *	0.3	1.0	NO
4 . Nason St/Eucalyptus Ave	D	Moreno Valley	Signal	58.4	E *	57.5	E *	58.4	E *	58.8	E *	0.0	1.3	NO
5 . Nason St/Alessandro Blvd	D	Moreno Valley	Signal	44.8	D	40.6	D	44.8	D	40.7	D	0.0	0.1	NO
6 . Nason St/Iris Ave	C	Moreno Valley	Signal	35.4	D *	63.5	E *	35.6	D *	63.9	E *	0.2	0.4	NO
7 . Fir Ave/Eucalyptus Ave	D	Moreno Valley	Signal	32.6	C	34.1	C	32.8	C	34.4	C	0.2	0.3	NO
8 . Oliver St/Iris Ave	D	Moreno Valley	Signal	34.0	C	32.2	C	34.2	C	32.4	C	0.2	0.2	NO
9 . Moreno Beach Dr/SR-60 WB Ramps	D	Caltrans	Signal	2.8	A	0.2	A	19.4	B	13.3	B	-	-	-
10 . Moreno Beach Dr/SR-60 EB Ramps	D	Caltrans	Signal	15.1	B	27.6	C	16.2	B	35.6	D	-	-	-
11 . Moreno Beach Dr/Eucalyptus Ave	D	Moreno Valley	Signal	32.4	C	49.0	D	34.7	C	59.9	E *	2.3	10.9	YES
12 . Auto Mall Dr/Eucalyptus Ave	D	Moreno Valley	TWSC	12.7	B	19.3	C	14.5	B	28.2	D	1.8	8.9	NO
13 . Moreno Beach Dr/Alessandro Blvd	D	Moreno Valley	Signal	36.8	D	37.9	D	36.8	D	38.3	D	0.0	0.4	NO
14 . Moreno Beach Blvd/Cactus Ave	C	Moreno Valley	Signal	29.6	C	28.5	C	29.7	C	28.8	C	0.1	0.3	NO
15 . Moreno Beach Dr/John F Kennedy Dr	D	Moreno Valley	Signal	35.7	D	30.0	C	35.8	D	30.4	C	0.1	0.4	NO
16 . Alessandro Rd/San Timoteo Canyon Rd	C	Redlands	AWSC	>100	F *	>100	F *	>100	F *	>100	F *	-	-	-
17 . Live Oak Canyon Rd/San Timoteo Canyon Rd	C	Riverside County	AWSC	>100	F *	>100	F *	>100	F *	>100	F *	-	-	-
18 . Redlands Blvd/San Timoteo Canyon Rd	C	Riverside County	AWSC	>100	F *	>100	F *	>100	F *	>100	F *	-	-	-
19 . Dwy 1/Eucalyptus Ave	D	Moreno Valley	TWSC	11.5	B		A	13.6	B	20.1	C	2.1	20.1	NO
20 . Dwy 2/Eucalyptus Ave	D	Moreno Valley	TWSC	Future Intersection				9.2	A	10.5	B	9.2	10.5	NO
21 . Redlands Blvd/Ironwood Ave	D	Moreno Valley	Signal	25.9	C	32.2	C	26.0	C	24.7	C	0.1	-7.5	NO
22 . Redlands Blvd/SR-60 WB Ramps	D	Caltrans	Signal	9.6	A	7.5	A	11.6	B	8.0	A	-	-	-
23 . Redlands Blvd/SR-60 EB Ramps	D	Caltrans	Signal	14.7	B	20.7	C	15.5	B	14.7	B	-	-	-
24 . Redlands Blvd/Eucalyptus Ave	D	Moreno Valley	Roundabout	8.6	A	16.1	C	10.1	B	40.2	E *	1.5	24.1	YES
25 . Redlands Blvd/Dwy 3	D	Moreno Valley	TWSC	Future Intersection				51.5	F *	>100	F *	51.5	2596.5	YES
26 . Redlands Blvd/Dwy 4	D	Moreno Valley	TWSC	Future Intersection				11.5	B	15.4	C	11.5	15.4	NO
27 . Redlands Blvd/Encilia Ave	D	Moreno Valley	Signal	14.7	B	27.6	C	14.6	B	25.5	C	-0.1	-2.1	NO
28 . Redlands Blvd/Cottonwood Ave	C	Moreno Valley	Signal	4.3	A	8.4	A	7.7	A	14.3	B	3.4	5.9	NO
29 . Redlands Blvd/Alessandro Blvd	C	Moreno Valley	Signal	28.9	C	28.0	C	29.0	C	28.8	C	0.1	0.8	NO
30 . Redlands Blvd-John F Kennedy Dr/Cactus Ave	C	Moreno Valley	Signal	28.7	C	24.9	C	28.7	C	24.9	C	0.0	0.0	NO
31 . WLC Parkway/Eucalyptus Ave	D	Moreno Valley	Signal	26.0	C	49.2	D	26.6	C	51.3	D	0.6	2.1	NO

Notes:

* Exceeds LOS Standard

TWSC = Two-Way Stop Control; For TWSC intersections, reported delay is for worst-case approach/movement.

LOS = Level of Service

Table F: General Plan Build-Out (2040) Roadway Segment Levels of Service (Revised Project Analysis)

Roadway Segment	Jurisdiction	LOS Standard	Classification	Roadway Capacity	Without Project			With Project			Change in V/C	Exceed City's Operational Requirement?
					Daily Volume	LOS	V/C	Daily Volume	LOS	V/C		
1. San Timoteo Canyon Rd from Alessandro Rd to Live Oak Canyon Rd	City of Redlands/Riverside County	C	2MA	16,100	21,100	F *	1.311	21,482	F *	-	-	-
2. San Timoteo Canyon Rd from Live Oak Canyon Rd to Redlands Blvd	Riverside County	C	2MA	16,100	24,137	F *	1.499	24,573	F *	-	-	-
3. Redlands Blvd south of San Timoteo Canyon Rd	Riverside County	C	2MA	16,100	25,853	F *	1.606	26,289	F *	-	-	-
4. Redlands Blvd north of Ironwood Ave	City of Moreno Valley	C	4D	37,500	23,883	B	0.637	24,319	B	0.648	0.012	NO
5. Redlands Blvd from Ironwood Ave to SR-60 WB Ramps	City of Moreno Valley	D	4D	37,500	22,667	B	0.604	23,103	B	0.616	0.012	NO
6. Redlands Blvd from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	4D	37,500	25,690	B	0.685	27,257	C	-	-	-
7. Redlands Blvd from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	4D	37,500	26,068	B	0.695	28,766	C	0.767	0.072	NO
8. Redlands Blvd from Eucalyptus Ave to Driveway 3	City of Moreno Valley	D	4D	37,500	25,275	B	0.674	27,621	C	0.737	0.063	NO
9. Redlands Blvd from Driveway 3 to Driveway 4	City of Moreno Valley	D	4D	37,500	25,275	B	0.674	26,747	C	0.713	0.039	NO
10. Redlands Blvd from Driveway 4 to Encilia Ave	City of Moreno Valley	D	4D	37,500	25,275	B	0.674	26,747	C	0.713	0.039	NO
11. Redlands Blvd from Encilia Ave to Cottonwood Ave	City of Moreno Valley	C	4D	37,500	16,675	A	0.445	18,147	A	0.484	0.039	NO
12. Redlands Blvd from Cottonwood Ave to Alessandro Blvd	City of Moreno Valley	C	4D	37,500	15,667	A	0.418	16,975	A	0.453	0.035	NO
13. Redlands Blvd from Alessandro Blvd to Cactus Ave	City of Moreno Valley	C	4D	37,500	10,706	A	0.285	11,034	A	0.294	0.009	NO
14. JFK Dr from Cactus Ave to Moreno Beach Dr	City of Moreno Valley	C	4U	25,000	12,915	A	0.517	13,133	A	0.525	0.009	NO
15. Moreno Beach Dr from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	6D	56,300	24,982	A	0.444	26,263	A	-	-	-
16. Moreno Beach Dr from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	6D	56,300	44,511	C	0.791	46,909	D	0.833	0.043	NO
17. Moreno Beach Dr from Alessandro Blvd to Cactus Ave	City of Moreno Valley	D	6D	56,300	32,569	A	0.578	32,951	A	0.585	0.007	NO
18. Moreno Beach Dr from Cactus Ave to JFK Dr	City of Moreno Valley	C	6D	56,300	25,486	A	0.453	25,868	A	0.459	0.007	NO
19. Moreno Beach Dr from JFK Dr to Oliver St	City of Moreno Valley	D	6D	56,300	33,716	A	0.599	34,316	B	0.610	0.011	NO
20. Iris Ave From Nason St to Oliver St	City of Moreno Valley	D	6D	56,300	45,638	D	0.811	46,128	D	0.819	0.009	NO
21. Iris Ave From Lasselle St to Nason St	City of Moreno Valley	D	6D	56,300	61,514	F *	1.093	62,004	F *	1.101	0.009	NO
22. Iris Ave From Kitching St to Lasselle St	City of Moreno Valley	D	6D	56,300	50,410	D	0.895	50,682	E *	0.900	0.005	NO
23. Eucalyptus Ave from Nason St to Fir Ave	City of Moreno Valley	D	4U	25,000	26,165	F *	1.047	26,437	F *	1.057	0.011	NO
24. Eucalyptus Ave from Fir Ave to Moreno Beach Dr	City of Moreno Valley	D	4D	37,500	28,783	C	0.768	29,055	C	0.775	0.007	NO
25. Eucalyptus Ave from Moreno Beach Dr to Auto Mall Dr	City of Moreno Valley	D	4U	25,000	12,586	A	0.503	15,420	B	0.617	0.113	NO
26. Eucalyptus Ave from Auto Mall Dr to Driveway 1	City of Moreno Valley	D	4U	25,000	8,251	A	0.330	11,303	A	0.452	0.122	NO
27. Eucalyptus Ave from Driveway 1 to Aldi Pl	City of Moreno Valley	D	4U	25,000	7,912	A	0.316	11,136	A	0.445	0.129	NO
28. Eucalyptus Ave Aldi Pl to Driveway 2	City of Moreno Valley	D	4U	25,000	9,978	A	0.399	13,202	A	0.528	0.129	NO
29. Eucalyptus Ave from Driveway 2 to Redlands Blvd	City of Moreno Valley	D	4U	25,000	9,978	A	0.399	13,440	A	0.538	0.138	NO
30. Eucalyptus Ave from Redlands Blvd to World Logistics Center Driveway	City of Moreno Valley	D	4U	25,000	19,426	C	0.777	19,700	C	0.788	0.011	NO
31. Encilia Ave from Essen Ln to Mozart Way	City of Moreno Valley	D	4U	25,000	3,996	A	0.160	3,996	A	0.160	0.000	NO
32. Encilia Ave from Mozart Way to Shubert St	City of Moreno Valley	D	4U	25,000	3,996	A	0.160	3,996	A	0.160	0.000	NO
33. Encilia Ave Shubert St to Redlands Blvd	City of Moreno Valley	D	4U	25,000	4,312	A	0.172	4,312	A	0.172	0.000	NO
34. Alessandro Blvd from Lasselle St to Nason St	City of Moreno Valley	D	6D	56,300	36,212	B	0.643	36,484	B	0.648	0.005	NO
35. Alessandro Blvd from Nason St to Moreno Beach Dr	City of Moreno Valley	D	4D	37,500	26,984	C	0.720	27,474	C	0.733	0.013	NO
36. Alessandro Blvd from Moreno Beach Dr to Redlands Blvd	City of Moreno Valley	D	4D	37,500	27,143	C	0.724	28,015	C	0.747	0.023	NO

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

Table G: Existing With Project With Improvements Intersection Levels of Service (Revised Project Analysis)

Intersection	LOS Standard	Jurisdiction	With Project						With Project With Improvements			
			Control	AM Peak Hour		PM Peak Hour		Control	AM Peak Hour		PM Peak Hour	
				Delay	LOS	Delay	LOS		Delay	LOS	Delay	LOS
10 . Moreno Beach Dr/SR-60 EB Ramps	D	Caltrans	Signal	>100	F *	>100	F *	Signal	32.0	C	35.6	D
16 . Alessandro Rd/San Timoteo Canyon Rd	C	Redlands	AWSC	64.7	F *	18.5	C	Signal	12.3	B	10.4	B
17 . Live Oak Canyon Rd/San Timoteo Canyon Rd	C	Riverside County	AWSC	80.1	F *	79.0	F *	Signal	17.1	B	12.0	B
18 . Redlands Blvd/San Timoteo Canyon Rd	C	Riverside County	AWSC	95.1	F *	>100	F *	Signal	19.0	B	20.7	C
25 . Redlands Blvd/Dwy 3	D	Moreno Valley	TWSC	20.7	B	>100	F *	Signal	7.7	A	15.7	B
29 . Redlands Blvd/Alessandro Blvd	C	Moreno Valley	AWSC	40.3	E *	67.5	F *	Signal	15.4	B	17.3	B

Notes:

LOS = Level of Service

Table H: Existing with Project With Improvements Roadway Segment Levels of Service (Revised Project Analysis)

Roadway Segment	Jurisdiction	LOS Standard	With Project				With Project With Improvements			
			Classification	Roadway Capacity	Daily Volume	LOS	Classification	Roadway Capacity	Daily Volume	LOS
1 . San Timoteo Canyon Rd from Alessandro Rd to Live Oak Canyon Rd	City of Redlands/Riverside County	C	2MA	16,100	14,157	D *	4MA	37,200	14,157	C
2 . San Timoteo Canyon Rd from Live Oak Canyon Rd to Redlands Blvd	Riverside County	C	2MA	16,100	17,644	F *	4MA	37,200	17,644	C
3 . Redlands Blvd south of San Timoteo Canyon Rd	Riverside County	C	2MA	16,100	17,888	F *	4MA	37,200	17,888	C
6 . Redlands Blvd from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	15,970	F *	4D	37,500	15,970	A
7 . Redlands Blvd from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	2U	12,500	14,988	F *	4D	37,500	14,988	A
11 . Redlands Blvd from Encilia Ave to Cottonwood Ave	City of Moreno Valley	C	2U	12,500	12,057	E *	4D	37,500	12,057	A
12 . Redlands Blvd from Cottonwood Ave to Alessandro Blvd	City of Moreno Valley	C	2U	12,500	10,699	D *	4D	37,500	10,699	A
15 . Moreno Beach Dr from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	14,005	F *	4D	37,500	14,005	A
16 . Moreno Beach Dr from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	4D	37,500	26,332	C	4D	37,500	26,332	C

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

Table I: Opening Year (2024) With Project With Improvements Intersection Levels of Service (Revised Project Analysis)

Intersection	LOS Standard	Jurisdiction	With Project						With Project With Improvements				
			Control	AM Peak Hour		PM Peak Hour		Control	AM Peak Hour		PM Peak Hour		Control
				Delay	LOS	Delay	LOS		Delay	LOS	Delay	LOS	
10 . Moreno Beach Dr/SR-60 EB Ramps	D	Caltrans	Signal	>100	F *	>100	F *	Signal	37.4	D	41.3	D	
11 . Moreno Beach Dr/Eucalyptus Ave	D	Moreno Valley	Signal	36.8	D	57.7	E *	Signal	34.2	C	39.8	D	
13 . Moreno Beach Dr/Alessandro Blvd	D	Moreno Valley	Signal	71.9	E *	98.4	F *	Signal	49.1	D	68.0	E *	
16 . Alessandro Rd/San Timoteo Canyon Rd	C	Redlands	AWSC	>100	F *	30.7	D *	Signal	20.0	B	10.8	B	
17 . Live Oak Canyon Rd/San Timoteo Canyon Rd	C	Riverside County	AWSC	>100	F *	>100	F *	Signal	26.7	C	14.4	B	
18 . Redlands Blvd/San Timoteo Canyon Rd	C	Riverside County	AWSC	>100	F *	>100	F *	Signal	16.7	B	21.0	C	
22 . Redlands Blvd/SR-60 WB Ramps	D	Caltrans	Signal	41.1	D	71.3	E *	Signal	36.3	D	59.1	E *	
25 . Redlands Blvd/Dwy 3	D	Moreno Valley	TWSC	27.1	B	>100	F *	TWSC	10.5	B	17.3	B	
29 . Redlands Blvd/Alessandro Blvd	C	Moreno Valley	AWSC	>100	F *	>100	F *	Signal	21.6	C	64.7	E *	
31 . WLC Parkway/Eucalyptus Ave	D	Moreno Valley	TWSC	>100	F *	>100	F *	Signal	43.4	D	27.3	C	

Notes:

LOS = Level of Service

Table J: Opening Year (2024) With Project With Improvements Roadway Segment Levels of Service (Revised Project Analysis)

Roadway Segment	Jurisdiction	LOS Standard	With Project				With Project With Improvements			
			Classification	Roadway Capacity	Daily Volume	LOS	Classification	Roadway Capacity	Daily Volume	LOS
1 . San Timoteo Canyon Rd from Alessandro Rd to Live Oak Canyon Rd	City of Redlands/Riverside County	C	2MA	16,100	16,231	F *	4MA	37,200	16,231	C
2 . San Timoteo Canyon Rd from Live Oak Canyon Rd to Redlands Blvd	Riverside County	C	2MA	16,100	20,288	F *	4MA	37,200	20,288	C
3 . Redlands Blvd south of San Timoteo Canyon Rd	Riverside County	C	2MA	16,100	20,652	F *	4MA	37,200	20,652	C
6 . Redlands Blvd from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	19,722	F *	4D	37,500	19,722	A
7 . Redlands Blvd from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	2U	12,500	19,022	F *	4D	37,500	19,022	A
11 . Redlands Blvd from Encilia Ave to Cottonwood Ave	City of Moreno Valley	C	2U	12,500	14,363	F *	4D	37,500	14,363	A
12 . Redlands Blvd from Cottonwood Ave to Alessandro Blvd	City of Moreno Valley	C	2U	12,500	13,102	F *	4D	37,500	13,102	A
15 . Moreno Beach Dr from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	19,440	F *	4D	37,500	19,440	A
16 . Moreno Beach Dr from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	4D	37,500	35,339	E *	6D	56,300	35,339	B

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

Table K: General Plan Build-Out (2040) With Project With Improvements Intersection Levels of Service (Revised Project Analysis)

Intersection	LOS Standard	Jurisdiction	With Project						With Project With Improvements					
			Control	AM Peak Hour		PM Peak Hour		Control	AM Peak Hour		PM Peak Hour			
				Delay	LOS	Delay	LOS		Delay	LOS	Delay	LOS		
11 . Moreno Beach Dr/Eucalyptus Ave	D	Moreno Valley	Signal	34.7	C	59.9	E	*	Signal	33.3	D	45.0	D	
16 . Alessandro Rd/San Timoteo Canyon Rd	C	Redlands	AWSC	>100	F	*	>100	F	*	Signal	22.2	C	13.0	B
17 . Live Oak Canyon Rd/San Timoteo Canyon Rd	C	Riverside County	AWSC	>100	F	*	>100	F	*	Signal	27.1	C	26.7	C
18 . Redlands Blvd/San Timoteo Canyon Rd	C	Riverside County	AWSC	>100	F	*	>100	F	*	Signal	21.0	C	32.4	C
24 . Redlands Blvd/Eucalyptus Ave	D	Moreno Valley	Roundabout	10.1	B	40.2	E	*	Roundabout	10.0	B	27.4	D	
25 . Redlands Blvd/Dwy 3	D	Moreno Valley	TWSC	51.5	F	*	>100	F	*	Signal	5.6	A	14.3	B

Notes:

LOS = Level of Service

Table L: General Plan Build-Out (2040) With Project With Improvements Roadway Segment Levels of Service (Revised Project Analysis)

Roadway Segment	Jurisdiction	LOS Standard	With Project				With Project With Improvements			
			Classification	Roadway Capacity	Daily Volume	LOS	Classification	Roadway Capacity	Daily Volume	LOS
1 . San Timoteo Canyon Rd from Alessandro Rd to Live Oak Canyon Rd	City of Redlands/Riverside County	C	2MA	16,100	21,482	F *	4MA	37,200	21,482	C
2 . San Timoteo Canyon Rd from Live Oak Canyon Rd to Redlands Blvd	Riverside County	C	2MA	16,100	24,573	F *	4MA	37,200	24,573	C
3 . Redlands Blvd south of San Timoteo Canyon Rd	Riverside County	C	2MA	16,100	26,289	F *	4MA	37,200	26,289	C

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

Table A-1: Existing Intersection Levels of Service (Previous Analysis)

Intersection	LOS Standard	Jurisdiction	Control	Without Project				With Project				Change in Delay		Exceed City's Operational Requirement?
				AM Peak Hour		PM Peak Hour		AM Peak Hour		PM Peak Hour		AM Peak Hour	PM Peak Hour	
				Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS			
1 . Kitching St/Iris Ave	C	Moreno Valley	Signal	34.4	C	32.8	C	34.6	C	33.4	C	0.2	0.6	NO
2 . Lasselle St/Alessandro Blvd	D	Moreno Valley	Signal	42.7	D	43.9	D	46.1	D	44.7	D	3.4	0.8	NO
3 . Lasselle St/Iris Ave	D	Moreno Valley	Signal	40.8	D	41.9	D	40.9	D	42.1	D	0.1	0.2	NO
4 . Nason St/Eucalyptus Ave	D	Moreno Valley	Signal	43.4	D	27.3	C	43.6	D	28.1	C	0.2	0.8	NO
5 . Nason St/Alessandro Blvd	D	Moreno Valley	Signal	39.1	D	29.4	C	39.4	D	30.3	C	0.3	0.9	NO
6 . Nason St/Iris Ave	C	Moreno Valley	Signal	24.2	C	22.6	C	24.2	C	22.6	C	0.0	0.0	NO
7 . Fir Ave/Eucalyptus Ave	D	Moreno Valley	Signal	23.5	C	21.3	C	23.7	C	21.5	C	0.2	0.2	NO
8 . Oliver St/Iris Ave	D	Moreno Valley	Signal	28.5	C	23.5	C	29.3	C	23.8	C	0.8	0.3	NO
9 . Moreno Beach Dr/SR-60 WB Ramps	D	Caltrans	Signal	16.5	B	15.2	B	17.1	B	15.4	B	-	-	-
10 . Moreno Beach Dr/SR-60 EB Ramps	D	Caltrans	Signal	89.1	F *	>100	F *	>100	F *	>100	F *	-	-	-
11 . Moreno Beach Dr/Eucalyptus Ave	D	Moreno Valley	Signal	30.2	C	32.5	C	33.3	C	39.9	D	3.1	7.4	NO
12 . Auto Mall Dr/Eucalyptus Ave	D	Moreno Valley	TWSC	10.1	B	10.9	B	11.6	B	16.3	C	1.5	5.4	NO
13 . Moreno Beach Dr/Alessandro Blvd	D	Moreno Valley	Signal	39.3	D	30.6	C	39.4	D	37.7	D	0.1	7.1	NO
14 . Moreno Beach Blvd/Cactus Ave	C	Moreno Valley	Signal	26.2	C	29.7	C	26.6	C	29.8	C	0.4	0.1	NO
15 . Moreno Beach Dr/John F Kennedy Dr	D	Moreno Valley	Signal	29.4	C	28.1	C	29.5	C	28.7	C	0.1	0.6	NO
16 . Alessandro Rd/San Timoteo Canyon Rd	C	Redlands	AWSC	59.6	F *	16.2	C	64.6	F *	18.7	C	-	-	-
17 . Live Oak Canyon Rd/San Timoteo Canyon Rd	C	Riverside County	AWSC	74.3	F *	60.7	F *	80.7	F *	80.0	F *	-	-	-
18 . Redlands Blvd/San Timoteo Canyon Rd	C	Riverside County	AWSC	86.2	F *	>100	F *	95.6	F *	>100	F *	-	-	-
19 . Dwy 1/Eucalyptus Ave	D	Moreno Valley	TWSC	9.2	A		A	10.6	B	13.0	B	1.4	13.0	NO
20 . Dwy 2-Essen Ln/Encilia Ave	D	Moreno Valley	TWSC	8.4	A	8.3	A	8.8	A	7.3	A	0.4	-1.0	NO
21 . Dwy 3/Encilia Ave	D	Moreno Valley	TWSC	8.4	A	8.3	A	9.5	A	11.0	B	1.1	2.7	NO
22 . Dwy 4-Shubert St/Encilia Ave	D	Moreno Valley	TWSC	8.4	A	8.3	A	10.3	B	13.4	B	1.9	5.1	NO
23 . Dwy 5/Eucalyptus Ave	D	Moreno Valley	TWSC	Future Intersection				8.8	A	9.1	A	8.8	9.1	NO
24 . Redlands Blvd/Ironwood Ave	D	Moreno Valley	Signal	19.8	B	13.8	B	20.1	C	13.8	B	0.3	0.0	NO
25 . Redlands Blvd/SR-60 WB Ramps	D	Caltrans	Signal	27.5	C	39.9	D	27.6	C	47.3	D	-	-	-
26 . Redlands Blvd/SR-60 EB Ramps	D	Caltrans	Signal	20.4	C	25.0	C	28.8	C	26.9	C	-	-	-
27 . Redlands Blvd/Eucalyptus Ave	D	Moreno Valley	Signal	8.9	A	6.5	A	12.2	B	18.3	B	3.3	11.8	NO
28 . Redlands Blvd/Dwy 6	D	Moreno Valley	TWSC	Future Intersection				10.1	B	11.9	B	10.1	11.9	NO
29 . Redlands Blvd/Dwy 7	D	Moreno Valley	TWSC	Future Intersection				10.0	B	11.8	B	10.0	11.8	NO
30 . Redlands Blvd/Encilia Ave	D	Moreno Valley	TWSC	20.5	C	18.2	C	6.5	A	5.8	A	-14.0	-12.4	NO
31 . Redlands Blvd/Cottonwood Ave	C	Moreno Valley	Signal	7.0	A	5.5	A	2.0	A	2.6	A	-5.0	-2.9	NO
32 . Redlands Blvd/Alessandro Blvd	C	Moreno Valley	AWSC	26.7	D *	26.7	D *	41.3	E *	70.9	F *	14.6	44.2	YES
33 . Redlands Blvd-John F Kennedy Dr/Cactus Ave	C	Moreno Valley	AWSC	11.1	B	11.3	B	11.4	B	11.8	B	0.3	0.5	NO
34 . WLC Parkway/Eucalyptus Ave	D	Moreno Valley	TWSC	10.0	B	9.6	A	10.4	B	10.2	B	0.4	0.6	NO

Notes:

* Exceeds LOS Standard

TWSC = Two-Way Stop Control; For TWSC intersections, reported delay is for worst-case approach/movement.

LOS = Level of Service

Table B-1: Existing Roadway Segment Levels of Service (Previous Analysis)

Roadway Segment	Jurisdiction	LOS Standard	Classification	Roadway Capacity	Without Project			Classification	Roadway Capacity	With Project			Change in V/C	Exceed City's Operational Requirement?
					Daily Volume	LOS	V/C			Daily Volume	LOS	V/C		
1 . San Timoteo Canyon Rd from Alessandro Rd to Live Oak Canyon Rd	City of Redlands/Riverside County	C	2MA	16,100	13,775	D *	0.856	2MA	16,100	14,177	D *	0.881	-	-
2 . San Timoteo Canyon Rd from Live Oak Canyon Rd to Redlands Blvd	Riverside County	C	2MA	16,100	17,208	F *	1.069	2MA	16,100	17,668	F *	1.097	-	-
3 . Redlands Blvd south of San Timoteo Canyon Rd	Riverside County	C	2MA	16,100	17,452	F *	1.084	2MA	16,100	17,912	F *	1.113	-	-
4 . Redlands Blvd north of Ironwood Ave	City of Moreno Valley	C	2U	12,500	18,086	F *	1.447	2U	12,500	18,546	F *	1.484	0.037	NO
5 . Redlands Blvd from Ironwood Ave to SR-60 WB Ramps	City of Moreno Valley	D	2U	12,500	15,092	F *	1.207	2U	12,500	15,552	F *	1.244	0.037	NO
6 . Redlands Blvd from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	14,403	F *	1.152	2U	12,500	16,055	F *	1.284	-	-
7 . Redlands Blvd from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	2U	12,500	12,290	E *	0.983	2U	12,500	15,136	F *	1.211	0.228	YES
8 . Redlands Blvd from Eucalyptus Ave to Driveway 6	City of Moreno Valley	D	2U	12,500	12,535	F *	1.003	4U	25,000	15,447	B	0.618	-0.385	NO
9 . Redlands Blvd from Driveway 6 to Driveway 7	City of Moreno Valley	D	2U	12,500	12,535	F *	1.003	4U	25,000	15,389	B	0.616	-0.387	NO
10 . Redlands Blvd from Driveway 7 to Encilia Ave	City of Moreno Valley	D	2U	12,500	12,535	F *	1.003	4U	25,000	15,094	B	0.604	-0.399	NO
11 . Redlands Blvd from Encilia Ave to Cottonwood Ave	City of Moreno Valley	C	2U	12,500	10,585	D *	0.847	2U	12,500	12,081	E *	0.966	0.120	YES
12 . Redlands Blvd from Cottonwood Ave to Alessandro Blvd	City of Moreno Valley	C	2U	12,500	9,391	C	0.751	2U	12,500	10,771	D *	0.862	0.110	YES
13 . Redlands Blvd from Alessandro Blvd to Cactus Ave	City of Moreno Valley	C	2U	12,500	8,501	B	0.680	2U	12,500	8,847	C	0.708	0.028	NO
14 . JFK Dr from Cactus Ave to Moreno Beach Dr	City of Moreno Valley	C	4U	25,000	5,797	A	0.232	4U	25,000	6,027	A	0.241	0.009	NO
15 . Moreno Beach Dr from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	12,724	F *	1.018	2U	12,500	14,075	F *	1.126	-	-
16 . Moreno Beach Dr from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	4D	37,500	23,934	B	0.638	4D	37,500	26,464	C	0.706	0.067	YES
17 . Moreno Beach Dr from Alessandro Blvd to Cactus Ave	City of Moreno Valley	D	2U	12,500	18,862	F *	1.509	2U	12,500	19,264	F *	1.541	0.032	NO
18 . Moreno Beach Dr from Cactus Ave to JFK Dr	City of Moreno Valley	C	6D	56,300	15,452	A	0.274	6D	56,300	15,854	A	0.282	0.007	NO
19 . Moreno Beach Dr from JFK Dr to Oliver St	City of Moreno Valley	D	6D	56,300	15,898	A	0.282	6D	56,300	16,530	A	0.294	0.011	NO
20 . Iris Ave From Nason St to Oliver St	City of Moreno Valley	D	6D	56,300	19,248	A	0.342	6D	56,300	19,766	A	0.351	0.009	NO
21 . Iris Ave From Lasselle St to Nason St	City of Moreno Valley	D	6D	56,300	30,134	A	0.535	6D	56,300	30,652	A	0.544	0.009	NO
22 . Iris Ave From Kitching St to Lasselle St	City of Moreno Valley	D	6D	56,300	26,472	A	0.470	6D	56,300	26,760	A	0.475	0.005	NO
23 . Eucalyptus Ave from Nason St to Fir Ave	City of Moreno Valley	D	4U	25,000	9,376	A	0.375	4U	25,000	9,664	A	0.387	0.012	NO
24 . Eucalyptus Ave from Fir Ave to Moreno Beach Dr	City of Moreno Valley	D	4D	37,500	14,002	A	0.373	4D	37,500	14,290	A	0.381	0.008	NO
25 . Eucalyptus Ave from Moreno Beach Dr to Auto Mall Dr	City of Moreno Valley	D	2U	12,500	3,673	A	0.294	2U	12,500	6,663	A	0.533	0.239	NO
26 . Eucalyptus Ave from Auto Mall Dr to Driveway 1	City of Moreno Valley	D	4U	25,000	1,617	A	0.065	4U	25,000	4,837	A	0.193	0.129	NO
27 . Eucalyptus Ave from Driveway 1 to Aldi Pl	City of Moreno Valley	D	3U	18,750	1,507	A	0.080	4U	25,000	4,496	A	0.180	0.099	NO
28 . Eucalyptus Ave Aldi Pl to Driveway 5	City of Moreno Valley	D	3U	18,750	2,424	A	0.129	4U	25,000	5,413	A	0.217	0.087	NO
29 . Eucalyptus Ave from Driveway 5 to Redlands Blvd	City of Moreno Valley	D	3U	18,750	2,424	A	0.129	4U	25,000	5,523	A	0.221	0.092	NO
30 . Eucalyptus Ave from Redlands Blvd to World Logistics Center Driveway	City of Moreno Valley	D	2U	12,500	2,612	A	0.209	2U	12,500	2,900	A	0.232	0.023	NO
31 . Encilia Ave from Essen Ln to Mozart Way	City of Moreno Valley	D	2UR	2,000	217	A	0.108	4U	25,000	793	A	0.032	-0.077	NO
32 . Encilia Ave from Mozart Way to Shubert St	City of Moreno Valley	D	2UR	2,000	217	A	0.108	4U	25,000	1,627	A	0.065	-0.043	NO
33 . Encilia Ave Shubert St to Redlands Blvd	City of Moreno Valley	D	2UR	2,000	475	A	0.237	4U	25,000	3,034	A	0.121	-0.116	NO
34 . Alessandro Blvd from Lasselle St to Nason St	City of Moreno Valley	D	2U	12,500	10,745	D	0.860	2U	12,500	11,033	D	0.883	0.023	NO
35 . Alessandro Blvd from Nason St to Moreno Beach Dr	City of Moreno Valley	D	2U	12,500	9,553	C	0.764	2U	12,500	10,071	D	0.806	0.041	NO
36 . Alessandro Blvd from Moreno Beach Dr to Redlands Blvd	City of Moreno Valley	D	2U	12,500	5,549	A	0.444	2U	12,500	6,469	A	0.518	0.074	NO

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

Table C-1: Opening Year (2024) Intersection Levels of Service (Previous Analysis)

Intersection	LOS Standard	Jurisdiction	Control	Without Project				With Project				Change in Delay		Exceed City's Operational Requirement?
				AM Peak Hour		PM Peak Hour		AM Peak Hour		PM Peak Hour		AM Peak Hour	PM Peak Hour	
				Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS			
1 . Kitching St/Iris Ave	C	Moreno Valley	Signal	39.7	D *	37.3	D *	40.0	D *	38.2	D *	0.3	0.9	NO
2 . Lasselle St/Alessandro Blvd	D	Moreno Valley	Signal	92.7	F *	60.8	E *	93.3	F *	63.6	E *	0.6	2.8	NO
3 . Lasselle St/Iris Ave	D	Moreno Valley	Signal	48.6	D	55.0	E *	50.3	D	55.7	E *	1.7	0.7	NO
4 . Nason St/Eucalyptus Ave	D	Moreno Valley	Signal	67.2	E *	37.7	D	68.1	E *	38.8	D	0.9	1.1	NO
5 . Nason St/Alessandro Blvd	D	Moreno Valley	Signal	42.2	D	36.9	D	42.2	D	37.9	D	0.0	1.0	NO
6 . Nason St/Iris Ave	C	Moreno Valley	Signal	30.8	C	29.8	C	31.0	C	32.6	C	0.2	2.8	NO
7 . Fir Ave/Eucalyptus Ave	D	Moreno Valley	Signal	25.5	C	25.8	C	26.6	C	26.0	C	1.1	0.2	NO
8 . Oliver St/Iris Ave	D	Moreno Valley	Signal	35.6	D	27.8	C	35.9	D	28.0	C	0.3	0.2	NO
9 . Moreno Beach Dr/SR-60 WB Ramps	D	Caltrans	Signal	16.9	B	16.1	B	17.3	B	16.2	B	-	-	-
10 . Moreno Beach Dr/SR-60 EB Ramps	D	Caltrans	Signal	>100	F *	>100	F *	>100	F *	>100	F *	-	-	-
11 . Moreno Beach Dr/Eucalyptus Ave	D	Moreno Valley	Signal	30.4	C	37.1	D	37.0	D	59.0	E *	6.6	21.9	YES
12 . Auto Mall Dr/Eucalyptus Ave	D	Moreno Valley	TWSC	10.5	B	11.7	B	12.1	B	18.6	C	1.6	6.9	NO
13 . Moreno Beach Dr/Alessandro Blvd	D	Moreno Valley	Signal	70.3	E *	85.2	F *	72.0	E *	>100	F *	1.7	14.2	YES
14 . Moreno Beach Blvd/Cactus Ave	C	Moreno Valley	Signal	30.4	C	33.2	C	30.6	C	33.6	C	0.2	0.4	NO
15 . Moreno Beach Dr/John F Kennedy Dr	D	Moreno Valley	Signal	30.0	C	28.3	C	30.3	C	29.0	C	0.3	0.7	NO
16 . Alessandro Rd/San Timoteo Canyon Rd	C	Redlands	AWSC	>100	F *	24.6	C	>100	F *	31.2	D *	-	-	-
17 . Live Oak Canyon Rd/San Timoteo Canyon Rd	C	Riverside County	AWSC	>100	F *	>100	F *	>100	F *	>100	F *	-	-	-
18 . Redlands Blvd/San Timoteo Canyon Rd	C	Riverside County	AWSC	>100	F *	>100	F *	>100	F *	>100	F *	-	-	-
19 . Dwy 1/Eucalyptus Ave	D	Moreno Valley	TWSC	9.5	A		A	10.9	B	14.4	B	1.4	14.4	NO
20 . Dwy 2-Essen Ln/Encilia Ave	D	Moreno Valley	TWSC	8.4	A	8.3	A	8.8	A	7.3	A	0.4	-1.0	NO
21 . Dwy 3/Encilia Ave	D	Moreno Valley	TWSC	8.5	A	8.3	A	9.4	A	10.7	B	0.9	2.4	NO
22 . Dwy 4-Shubert St/Encilia Ave	D	Moreno Valley	TWSC	8.4	A	8.3	A	10.4	B	13.4	B	2.0	5.1	NO
23 . Dwy 5/Eucalyptus Ave	D	Moreno Valley	TWSC	Future Intersection				8.9	A	9.2	A	8.9	9.2	NO
24 . Redlands Blvd/Ironwood Ave	D	Moreno Valley	Signal	21.0	C	19.5	B	21.0	C	26.3	C	0.0	6.8	NO
25 . Redlands Blvd/SR-60 WB Ramps	D	Caltrans	Signal	37.4	D	64.5	E *	41.6	D	71.7	E *	-	-	-
26 . Redlands Blvd/SR-60 EB Ramps	D	Caltrans	Signal	40.9	D	32.1	C	37.5	D	49.9	D	-	-	-
27 . Redlands Blvd/Eucalyptus Ave	D	Moreno Valley	Roundabout	16.0	C	8.4	A	23.0	C	15.6	C	7.0	7.2	NO
28 . Redlands Blvd/Dwy 6	D	Moreno Valley	TWSC	Future Intersection				10.5	B	13.6	B	10.5	13.6	NO
29 . Redlands Blvd/Dwy 7	D	Moreno Valley	TWSC	Future Intersection				10.3	B	13.5	B	10.3	13.5	NO
30 . Redlands Blvd/Encilia Ave	D	Moreno Valley	Signal	30.5	D	26.9	D	3.2	A	4.8	A	-27.3	-22.1	NO
31 . Redlands Blvd/Cottonwood Ave	C	Moreno Valley	Signal	7.9	A	6.9	A	2.6	A	3.3	A	-5.3	-3.6	NO
32 . Redlands Blvd/Alessandro Blvd	C	Moreno Valley	AWSC	95.1	F *	>100	F *	>100	F *	>100	F *	30.3	92.4	YES
33 . Redlands Blvd-John F Kennedy Dr/Cactus Ave	C	Moreno Valley	AWSC	21.8	C	31.2	D *	22.8	C	35.2	E *	1.0	4.0	NO
34 . WLC Parkway/Eucalyptus Ave	D	Moreno Valley	TWSC	>100	F *	>100	F *	>100	F *	>100	F *	677.7	10626.4	YES

Notes:

* Exceeds LOS Standard

TWSC = Two-Way Stop Control; For TWSC intersections, reported delay is for worst-case approach/movement.

LOS = Level of Service

Table D-1: Opening Year (2024) Roadway Segment Levels of Service (Previous Analysis)

Roadway Segment	Jurisdiction	LOS Standard	Classification	Roadway Capacity	Without Project			Classification	Roadway Capacity	With Project			Change in V/C	Exceed City's Operational Requirement?
					Daily Volume	LOS	V/C			Daily Volume	LOS	V/C		
1. San Timoteo Canyon Rd from Alessandro Rd to Live Oak Canyon Rd	City of Redlands/Riverside County	C	2MA	16,100	15,849	E *	0.984	2MA	16,100	16,251	F *	1.009	-	-
2. San Timoteo Canyon Rd from Live Oak Canyon Rd to Redlands Blvd	Riverside County	C	2MA	16,100	19,852	F *	1.233	2MA	16,100	20,312	F *	1.262	-	-
3. Redlands Blvd south of San Timoteo Canyon Rd	Riverside County	C	2MA	16,100	20,216	F *	1.256	2MA	16,100	20,676	F *	1.284	-	-
4. Redlands Blvd north of Ironwood Ave	City of Moreno Valley	C	2U	12,500	21,242	F *	1.699	2U	12,500	21,702	F *	1.736	0.037	NO
5. Redlands Blvd from Ironwood Ave to SR-60 WB Ramps	City of Moreno Valley	D	2U	12,500	17,625	F *	1.410	2U	12,500	18,085	F *	1.447	0.037	NO
6. Redlands Blvd from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	18,155	F *	1.452	2U	12,500	19,807	F *	1.585	-	-
7. Redlands Blvd from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	2U	12,500	16,324	F *	1.306	2U	12,500	19,170	F *	1.534	0.228	YES
8. Redlands Blvd from Eucalyptus Ave to Driveway 6	City of Moreno Valley	D	2U	12,500	15,044	F *	1.203	4U	25,000	17,956	C	0.718	-0.485	NO
9. Redlands Blvd from Driveway 6 to Driveway 7	City of Moreno Valley	D	2U	12,500	15,044	F *	1.203	4U	25,000	17,898	C	0.716	-0.488	NO
10. Redlands Blvd from Driveway 7 to Encilia Ave	City of Moreno Valley	D	2U	12,500	15,044	F *	1.203	4U	25,000	17,603	C	0.704	-0.499	NO
11. Redlands Blvd from Encilia Ave to Cottonwood Ave	City of Moreno Valley	C	2U	12,500	12,891	F *	1.031	2U	12,500	14,387	F *	1.151	0.120	YES
12. Redlands Blvd from Cottonwood Ave to Alessandro Blvd	City of Moreno Valley	C	2U	12,500	11,794	E *	0.944	2U	12,500	13,174	F *	1.054	0.110	YES
13. Redlands Blvd from Alessandro Blvd to Cactus Ave	City of Moreno Valley	C	2U	12,500	10,196	D *	0.816	2U	12,500	10,542	D *	0.843	0.028	NO
14. JFK Dr from Cactus Ave to Moreno Beach Dr	City of Moreno Valley	C	4U	25,000	7,080	A	0.283	4U	25,000	7,310	A	0.292	0.009	NO
15. Moreno Beach Dr from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	18,159	F *	1.453	2U	12,500	19,510	F *	1.561	-	-
16. Moreno Beach Dr from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	4D	37,500	32,941	D	0.878	4D	37,500	35,471	E *	0.946	0.067	YES
17. Moreno Beach Dr from Alessandro Blvd to Cactus Ave	City of Moreno Valley	D	2U	12,500	25,697	F *	2.056	2U	12,500	26,099	F *	2.088	0.032	NO
18. Moreno Beach Dr from Cactus Ave to JFK Dr	City of Moreno Valley	C	6D	56,300	22,022	A	0.391	6D	56,300	22,424	A	0.398	0.007	NO
19. Moreno Beach Dr from JFK Dr to Oliver St	City of Moreno Valley	D	6D	56,300	26,091	A	0.463	6D	56,300	26,723	A	0.475	0.011	NO
20. Iris Ave From Nason St to Oliver St	City of Moreno Valley	D	6D	56,300	29,723	A	0.528	6D	56,300	30,241	A	0.537	0.009	NO
21. Iris Ave From Lasselle St to Nason St	City of Moreno Valley	D	6D	56,300	42,358	C	0.752	6D	56,300	42,876	C	0.762	0.009	NO
22. Iris Ave From Kitching St to Lasselle St	City of Moreno Valley	D	6D	56,300	36,225	B	0.643	6D	56,300	36,513	B	0.649	0.005	NO
23. Eucalyptus Ave from Nason St to Fir Ave	City of Moreno Valley	D	4U	25,000	11,434	A	0.457	4U	25,000	11,722	A	0.469	0.012	NO
24. Eucalyptus Ave from Fir Ave to Moreno Beach Dr	City of Moreno Valley	D	4D	37,500	17,687	A	0.472	4D	37,500	17,975	A	0.479	0.008	NO
25. Eucalyptus Ave from Moreno Beach Dr to Auto Mall Dr	City of Moreno Valley	D	2U	12,500	6,371	A	0.510	2U	12,500	9,361	C	0.749	0.239	NO
26. Eucalyptus Ave from Auto Mall Dr to Driveway 1	City of Moreno Valley	D	4U	25,000	2,943	A	0.118	4U	25,000	6,163	A	0.247	0.129	NO
27. Eucalyptus Ave from Driveway 1 to Aldi Pl	City of Moreno Valley	D	3U	18,750	2,822	A	0.150	4U	25,000	5,811	A	0.232	0.082	NO
28. Eucalyptus Ave Aldi Pl to Driveway 5	City of Moreno Valley	D	3U	18,750	3,834	A	0.204	4U	25,000	6,823	A	0.273	0.068	NO
29. Eucalyptus Ave from Driveway 5 to Redlands Blvd	City of Moreno Valley	D	3U	18,750	3,834	A	0.204	4U	25,000	6,933	A	0.277	0.073	NO
30. Eucalyptus Ave from Redlands Blvd to World Logistics Center Driveway	City of Moreno Valley	D	2U	12,500	6,042	A	0.483	2U	12,500	6,330	A	0.506	0.023	NO
31. Encilia Ave from Essen Ln to Mozart Way	City of Moreno Valley	D	2UR	2,000	240	A	0.120	4U	25,000	816	A	0.033	-0.087	NO
32. Encilia Ave from Mozart Way to Shubert St	City of Moreno Valley	D	2UR	2,000	240	A	0.120	4U	25,000	1,650	A	0.066	-0.054	NO
33. Encilia Ave Shubert St to Redlands Blvd	City of Moreno Valley	D	2UR	2,000	524	A	0.262	4U	25,000	3,083	A	0.123	-0.138	NO
34. Alessandro Blvd from Lasselle St to Nason St	City of Moreno Valley	D	2U	12,500	18,164	F *	1.453	2U	12,500	18,452	F *	1.476	0.023	NO
35. Alessandro Blvd from Nason St to Moreno Beach Dr	City of Moreno Valley	D	2U	12,500	17,498	F *	1.400	2U	12,500	18,016	F *	1.441	0.041	NO
36. Alessandro Blvd from Moreno Beach Dr to Redlands Blvd	City of Moreno Valley	D	2U	12,500	7,674	B	0.614	2U	12,500	8,594	B	0.688	0.074	NO

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

Table E-1: General Plan Build-Out (2040) Intersection Levels of Service (Previous Analysis)

Intersection	LOS Standard	Jurisdiction	Control	Without Project				With Project				Change in Delay		Exceed City's Operational Requirement?
				AM Peak Hour		PM Peak Hour		AM Peak Hour		PM Peak Hour		AM Peak Hour	PM Peak Hour	
				Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS			
1 . Kitching St/Iris Ave	C	Moreno Valley	Signal	95.4	F *	>100	F *	99.0	F *	>100	F *	3.6	0.6	NO
2 . Lasselle St/Alessandro Blvd	D	Moreno Valley	Signal	39.6	D	39.5	D	39.7	D	39.6	D	0.1	0.1	NO
3 . Lasselle St/Iris Ave	D	Moreno Valley	Signal	49.4	D	63.5	E *	49.8	D	64.6	E *	0.4	1.1	NO
4 . Nason St/Eucalyptus Ave	D	Moreno Valley	Signal	58.4	E *	57.5	E *	58.4	E *	58.8	E *	0.0	1.3	NO
5 . Nason St/Alessandro Blvd	D	Moreno Valley	Signal	44.8	D	40.6	D	44.8	D	40.7	D	0.0	0.1	NO
6 . Nason St/Iris Ave	C	Moreno Valley	Signal	35.4	D *	63.5	E *	35.6	D *	63.9	E *	0.2	0.4	NO
7 . Fir Ave/Eucalyptus Ave	D	Moreno Valley	Signal	32.6	C	34.1	C	32.8	C	34.4	C	0.2	0.3	NO
8 . Oliver St/Iris Ave	D	Moreno Valley	Signal	34.0	C	32.2	C	34.2	C	32.4	C	0.2	0.2	NO
9 . Moreno Beach Dr/SR-60 WB Ramps	D	Caltrans	Signal	2.8	A	0.2	A	2.8	A	0.1	A	-	-	-
10 . Moreno Beach Dr/SR-60 EB Ramps	D	Caltrans	Signal	15.1	B	27.6	C	16.3	B	36.4	D	-	-	-
11 . Moreno Beach Dr/Eucalyptus Ave	D	Moreno Valley	Signal	32.4	C	49.0	D	34.8	C	60.8	E *	2.4	11.8	YES
12 . Auto Mall Dr/Eucalyptus Ave	D	Moreno Valley	TWSC	12.7	B	19.3	C	14.7	B	28.9	D	2.0	9.6	NO
13 . Moreno Beach Dr/Alessandro Blvd	D	Moreno Valley	Signal	36.8	D	37.9	D	36.8	D	38.4	D	0.0	0.5	NO
14 . Moreno Beach Blvd/Cactus Ave	C	Moreno Valley	Signal	29.6	C	28.5	C	29.7	C	28.7	C	0.1	0.2	NO
15 . Moreno Beach Dr/John F Kennedy Dr	D	Moreno Valley	Signal	35.7	D	30.0	C	35.8	D	30.4	C	0.1	0.4	NO
16 . Alessandro Rd/San Timoteo Canyon Rd	C	Redlands	AWSC	>100	F *	>100	F *	>100	F *	>100	F *	-	-	-
17 . Live Oak Canyon Rd/San Timoteo Canyon Rd	C	Riverside County	AWSC	>100	F *	>100	F *	>100	F *	>100	F *	-	-	-
18 . Redlands Blvd/San Timoteo Canyon Rd	C	Riverside County	AWSC	>100	F *	>100	F *	>100	F *	>100	F *	-	-	-
19 . Dwy 1/Eucalyptus Ave	D	Moreno Valley	TWSC	11.5	B		A	13.4	B	22.2	C	1.9	22.2	NO
20 . Dwy 2-Essen Ln/Encilia Ave	D	Moreno Valley	TWSC	8.7	A	9.2	A	9.5	A	11.6	B	0.8	2.4	NO
21 . Dwy 3/Encilia Ave	D	Moreno Valley	TWSC	8.7	A	9.2	A	9.5	A	12.0	B	0.8	2.8	NO
22 . Dwy 4-Shubert St/Encilia Ave	D	Moreno Valley	TWSC	8.6	A	9.2	A	9.6	A	13.1	B	1.0	3.9	NO
23 . Dwy 5/Eucalyptus Ave	D	Moreno Valley	TWSC	Future Intersection				9.2	A	10.4	B	9.2	10.4	NO
24 . Redlands Blvd/Ironwood Ave	D	Moreno Valley	Signal	25.9	C	32.2	C	26.1	C	24.7	C	0.2	-7.5	NO
25 . Redlands Blvd/SR-60 WB Ramps	D	Caltrans	Signal	9.6	A	7.5	A	11.6	B	8.0	A	-	-	-
26 . Redlands Blvd/SR-60 EB Ramps	D	Caltrans	Signal	14.7	B	20.7	C	15.6	B	14.7	B	-	-	-
27 . Redlands Blvd/Eucalyptus Ave	D	Moreno Valley	Roundabout	8.6	A	16.1	C	10.2	B	42.8	E *	1.6	26.7	YES
28 . Redlands Blvd/Dwy 6	D	Moreno Valley	TWSC	Future Intersection				12.1	B	16.0	C	12.1	16.0	NO
29 . Redlands Blvd/Dwy 7	D	Moreno Valley	TWSC	Future Intersection				11.9	B	15.9	C	11.9	15.9	NO
30 . Redlands Blvd/Encilia Ave	D	Moreno Valley	Signal	14.1	B	28.0	C	17.8	B	40.3	D	3.7	12.3	NO
31 . Redlands Blvd/Cottonwood Ave	C	Moreno Valley	Signal	4.3	A	8.4	A	4.3	A	8.5	A	0.0	0.1	NO
32 . Redlands Blvd/Alessandro Blvd	C	Moreno Valley	Signal	28.9	C	28.0	C	29.0	C	28.9	C	0.1	0.9	NO
33 . Redlands Blvd-John F Kennedy Dr/Cactus Ave	C	Moreno Valley	Signal	28.7	C	24.9	C	28.7	C	24.9	C	0.0	0.0	NO
34 . WLC Parkway/Eucalyptus Ave	D	Moreno Valley	Signal	26.0	C	49.2	D	26.6	C	51.4	D	0.6	2.2	NO

Notes:

* Exceeds LOS Standard

TWSC = Two-Way Stop Control; For TWSC intersections, reported delay is for worst-case approach/movement.

LOS = Level of Service

Table F-1 General Plan Build-Out (2040) Roadway Segment Levels of Service (Previous Analysis)

Roadway Segment	Jurisdiction	LOS Standard	Classification	Roadway Capacity	Without Project			With Project			Change in V/C	Exceed City's Operational Requirement?
					Daily Volume	LOS	V/C	Daily Volume	LOS	V/C		
1 . San Timoteo Canyon Rd from Alessandro Rd to Live Oak Canyon Rd	City of Redlands/Riverside County	C	2MA	16,100	21,100	F *	1.311	21,502	F *	-	-	-
2 . San Timoteo Canyon Rd from Live Oak Canyon Rd to Redlands Blvd	Riverside County	C	2MA	16,100	24,137	F *	1.499	24,597	F *	-	-	-
3 . Redlands Blvd south of San Timoteo Canyon Rd	Riverside County	C	2MA	16,100	25,853	F *	1.606	26,313	F *	-	-	-
4 . Redlands Blvd north of Ironwood Ave	City of Moreno Valley	C	4D	37,500	23,883	B	0.637	24,343	B	0.649	0.012	NO
5 . Redlands Blvd from Ironwood Ave to SR-60 WB Ramps	City of Moreno Valley	D	4D	37,500	22,667	B	0.604	23,127	B	0.617	0.012	NO
6 . Redlands Blvd from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	4D	37,500	25,690	B	0.685	27,342	C	-	-	-
7 . Redlands Blvd from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	4D	37,500	26,068	B	0.695	28,914	C	0.771	0.076	NO
8 . Redlands Blvd from Eucalyptus Ave to Driveway 6	City of Moreno Valley	D	4D	37,500	25,275	B	0.674	28,187	C	0.752	0.078	NO
9 . Redlands Blvd from Driveway 6 to Driveway 7	City of Moreno Valley	D	4D	37,500	25,275	B	0.674	28,129	C	0.750	0.076	NO
10 . Redlands Blvd from Driveway 7 to Encilia Ave	City of Moreno Valley	D	4D	37,500	25,275	B	0.674	27,834	C	0.742	0.068	NO
11 . Redlands Blvd from Encilia Ave to Cottonwood Ave	City of Moreno Valley	C	4D	37,500	16,675	A	0.445	18,171	A	0.485	0.040	NO
12 . Redlands Blvd from Cottonwood Ave to Alessandro Blvd	City of Moreno Valley	C	4D	37,500	15,667	A	0.418	17,047	A	0.455	0.037	NO
13 . Redlands Blvd from Alessandro Blvd to Cactus Ave	City of Moreno Valley	C	4D	37,500	10,706	A	0.285	11,052	A	0.295	0.009	NO
14 . JFK Dr from Cactus Ave to Moreno Beach Dr	City of Moreno Valley	C	4U	25,000	12,915	A	0.517	13,145	A	0.526	0.009	NO
15 . Moreno Beach Dr from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	6D	56,300	24,982	A	0.444	26,333	A	-	-	-
16 . Moreno Beach Dr from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	6D	56,300	44,511	C	0.791	47,041	D	0.836	0.045	NO
17 . Moreno Beach Dr from Alessandro Blvd to Cactus Ave	City of Moreno Valley	D	6D	56,300	32,569	A	0.578	32,971	A	0.586	0.007	NO
18 . Moreno Beach Dr from Cactus Ave to JFK Dr	City of Moreno Valley	C	6D	56,300	25,486	A	0.453	25,888	A	0.460	0.007	NO
19 . Moreno Beach Dr from JFK Dr to Oliver St	City of Moreno Valley	D	6D	56,300	33,716	A	0.599	34,348	B	0.610	0.011	NO
20 . Iris Ave From Nason St to Oliver St	City of Moreno Valley	D	6D	56,300	45,638	D	0.811	46,156	D	0.820	0.009	NO
21 . Iris Ave From Lasselle St to Nason St	City of Moreno Valley	D	6D	56,300	61,514	F *	1.093	62,032	F *	1.102	0.009	NO
22 . Iris Ave From Kitching St to Lasselle St	City of Moreno Valley	D	6D	56,300	50,410	D	0.895	50,698	E *	0.900	0.005	NO
23 . Eucalyptus Ave from Nason St to Fir Ave	City of Moreno Valley	D	4U	25,000	26,165	F *	1.047	26,453	F *	1.058	0.012	NO
24 . Eucalyptus Ave from Fir Ave to Moreno Beach Dr	City of Moreno Valley	D	4D	37,500	28,783	C	0.768	29,071	C	0.775	0.008	NO
25 . Eucalyptus Ave from Moreno Beach Dr to Auto Mall Dr	City of Moreno Valley	D	4U	25,000	12,586	A	0.503	15,576	B	0.623	0.120	NO
26 . Eucalyptus Ave from Auto Mall Dr to Driveway 1	City of Moreno Valley	D	4U	25,000	8,251	A	0.330	11,471	A	0.459	0.129	NO
27 . Eucalyptus Ave from Driveway 1 to Aldi Pl	City of Moreno Valley	D	4U	25,000	7,912	A	0.316	10,901	A	0.436	0.120	NO
28 . Eucalyptus Ave Aldi Pl to Driveway 5	City of Moreno Valley	D	4U	25,000	9,978	A	0.399	12,967	A	0.519	0.120	NO
29 . Eucalyptus Ave from Driveway 5 to Redlands Blvd	City of Moreno Valley	D	4U	25,000	9,978	A	0.399	13,077	A	0.523	0.124	NO
30 . Eucalyptus Ave from Redlands Blvd to World Logistics Center Driveway	City of Moreno Valley	D	4U	25,000	19,426	C	0.777	19,714	C	0.789	0.012	NO
31 . Encilia Ave from Essen Ln to Mozart Way	City of Moreno Valley	D	4U	25,000	3,996	A	0.160	4,572	A	0.183	0.023	NO
32 . Encilia Ave from Mozart Way to Shubert St	City of Moreno Valley	D	4U	25,000	3,996	A	0.160	5,406	A	0.216	0.056	NO
33 . Encilia Ave Shubert St to Redlands Blvd	City of Moreno Valley	D	4U	25,000	4,312	A	0.172	6,871	A	0.275	0.102	NO
34 . Alessandro Blvd from Lasselle St to Nason St	City of Moreno Valley	D	6D	56,300	36,212	B	0.643	36,500	B	0.648	0.005	NO
35 . Alessandro Blvd from Nason St to Moreno Beach Dr	City of Moreno Valley	D	4D	37,500	26,984	C	0.720	27,502	C	0.733	0.014	NO
36 . Alessandro Blvd from Moreno Beach Dr to Redlands Blvd	City of Moreno Valley	D	4D	37,500	27,143	C	0.724	28,063	C	0.748	0.025	NO

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

Table G-1: Existing With Project With Improvements Intersection Levels of Service (Previous Analysis)

Intersection	LOS Standard	Jurisdiction	With Project						With Project With Improvements			
			Control	AM Peak Hour		PM Peak Hour		Control	AM Peak Hour		PM Peak Hour	
				Delay	LOS	Delay	LOS		Delay	LOS	Delay	LOS
10 . Moreno Beach Dr/SR-60 EB Ramps	D	Caltrans	Signal	>100	F *	>100	F *	Signal	32.4	C	37.3	D
16 . Alessandro Rd/San Timoteo Canyon Rd	C	Redlands	AWSC	64.6	F *	18.7	C	Signal	0.9	A	0.6	A
17 . Live Oak Canyon Rd/San Timoteo Canyon Rd	C	Riverside County	AWSC	80.7	F *	80.0	F *	Signal	17.1	B	12.0	B
18 . Redlands Blvd/San Timoteo Canyon Rd	C	Riverside County	AWSC	95.6	F *	>100	F *	Signal	12.7	B	16.7	B
32 . Redlands Blvd/Alessandro Blvd	C	Moreno Valley	AWSC	41.3	E *	70.9	F *	Signal	15.6	C	17.6	B

Notes:

LOS = Level of Service

Table H-1: Existing with Project With Improvements Roadway Segment Levels of Service (Previous Analysis)

Roadway Segment	Jurisdiction	LOS Standard	With Project				With Project With Improvements			
			Classification	Roadway Capacity	Daily Volume	LOS	Classification	Roadway Capacity	Daily Volume	LOS
1 . San Timoteo Canyon Rd from Alessandro Rd to Live Oak Canyon Rd	City of Redlands/Riverside County	C	2MA	16,100	14,177	D *	4MA	37,200	14,177	C
2 . San Timoteo Canyon Rd from Live Oak Canyon Rd to Redlands Blvd	Riverside County	C	2MA	16,100	17,668	F *	4MA	37,200	17,668	C
3 . Redlands Blvd south of San Timoteo Canyon Rd	Riverside County	C	2MA	16,100	17,912	F *	4MA	37,200	17,912	C
6 . Redlands Blvd from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	16,055	F *	4D	37,500	16,055	A
7 . Redlands Blvd from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	2U	12,500	15,136	F *	4D	37,500	15,136	A
11 . Redlands Blvd from Encilia Ave to Cottonwood Ave	City of Moreno Valley	C	2U	12,500	12,081	E *	4D	37,500	12,081	A
12 . Redlands Blvd from Cottonwood Ave to Alessandro Blvd	City of Moreno Valley	C	2U	12,500	10,771	D *	4D	37,500	10,771	A
15 . Moreno Beach Dr from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	14,075	F *	4D	37,500	14,075	A
16 . Moreno Beach Dr from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	4D	37,500	26,464	C	4D	37,500	26,464	C

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

Table I-1: Opening Year (2024) With Project With Improvements Intersection Levels of Service (Previous Analysis)

Intersection	LOS Standard	Jurisdiction	With Project						With Project With Improvements				
			Control	AM Peak Hour		PM Peak Hour		Control	AM Peak Hour		PM Peak Hour		Control
				Delay	LOS	Delay	LOS		Delay	LOS	Delay	LOS	
10 . Moreno Beach Dr/SR-60 EB Ramps	D	Caltrans	Signal	>100	F *	>100	F *	Signal	37.7	D	42.4	D	
11 . Moreno Beach Dr/Eucalyptus Ave	D	Moreno Valley	Signal	37.0	D	59.0	E *	Signal	34.2	C	39.7	D	
13 . Moreno Beach Dr/Alessandro Blvd	D	Moreno Valley	Signal	72.0	E *	>100	F *	Signal	49.1	D	69.5	E *	
16 . Alessandro Rd/San Timoteo Canyon Rd	C	Redlands	AWSC	>100	F *	31.2	D *	Signal	1.2	A	0.7	A	
17 . Live Oak Canyon Rd/San Timoteo Canyon Rd	C	Riverside County	AWSC	>100	F *	>100	F *	Signal	26.7	C	14.4	B	
18 . Redlands Blvd/San Timoteo Canyon Rd	C	Riverside County	AWSC	>100	F *	>100	F *	Signal	9.8	A	17.2	B	
25 . Redlands Blvd/SR-60 WB Ramps	D	Caltrans	Signal	41.6	D	71.7	E *	Signal	36.8	D	59.9	E *	
32 . Redlands Blvd/Alessandro Blvd	C	Moreno Valley	AWSC	>100	F *	>100	F *	Signal	22.1	C	64.8	E *	
34 . WLC Parkway/Eucalyptus Ave	D	Moreno Valley	TWSC	>100	F *	>100	F *	Signal	12.0	B	29.5	C	

Notes:

LOS = Level of Service

Table J-1: Opening Year (2024) With Project With Improvements Roadway Segment Levels of Service (Previous Analysis)

Roadway Segment	Jurisdiction	LOS Standard	With Project				With Project With Improvements			
			Classification	Roadway Capacity	Daily Volume	LOS	Classification	Roadway Capacity	Daily Volume	LOS
1 . San Timoteo Canyon Rd from Alessandro Rd to Live Oak Canyon Rd	City of Redlands/Riverside County	C	2MA	16,100	16,251	F *	4MA	37,200	16,251	C
2 . San Timoteo Canyon Rd from Live Oak Canyon Rd to Redlands Blvd	Riverside County	C	2MA	16,100	20,312	F *	4MA	37,200	20,312	C
3 . Redlands Blvd south of San Timoteo Canyon Rd	Riverside County	C	2MA	16,100	20,676	F *	4MA	37,200	20,676	C
6 . Redlands Blvd from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	19,807	F *	4D	37,500	19,807	A
7 . Redlands Blvd from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	2U	12,500	19,170	F *	4D	37,500	19,170	A
11 . Redlands Blvd from Encilia Ave to Cottonwood Ave	City of Moreno Valley	C	2U	12,500	14,387	F *	4D	37,500	14,387	A
12 . Redlands Blvd from Cottonwood Ave to Alessandro Blvd	City of Moreno Valley	C	2U	12,500	13,174	F *	4D	37,500	13,174	A
15 . Moreno Beach Dr from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	19,510	F *	4D	37,500	19,510	A
16 . Moreno Beach Dr from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	4D	37,500	35,471	E *	6D	56,300	35,471	B

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

Table K-1: General Plan Build-Out (2040) With Project With Improvements Intersection Levels of Service (Previous Analysis)

Intersection	LOS Standard	Jurisdiction	With Project					With Project With Improvements						
			Control	AM Peak Hour		PM Peak Hour		Control	AM Peak Hour		PM Peak Hour			
				Delay	LOS	Delay	LOS		Delay	LOS	Delay	LOS		
11 . Moreno Beach Dr/Eucalyptus Ave	D	Moreno Valley	Signal	34.8	C	60.8	E	*	Signal	33.4	D	45.1	D	
16 . Alessandro Rd/San Timoteo Canyon Rd	C	Redlands	AWSC	>100	F	*	>100	F	*	Signal	1.8	A	1.3	A
17 . Live Oak Canyon Rd/San Timoteo Canyon Rd	C	Riverside County	AWSC	>100	F	*	>100	F	*	Signal	27.2	C	27.0	C
18 . Redlands Blvd/San Timoteo Canyon Rd	C	Riverside County	AWSC	>100	F	*	>100	F	*	Signal	16.7	B	20.3	C
27 . Redlands Blvd/Eucalyptus Ave	D	Moreno Valley	Roundabout	10.2	B	42.8	E	*	Roundabout	10.1	A	28.3	D	

Notes:

LOS = Level of Service

Table L-1: General Plan Build-Out (2040) With Project With Improvements Roadway Segment Levels of Service (Previous Analysis)

Roadway Segment	Jurisdiction	LOS Standard	With Project				With Project With Improvements			
			Classification	Roadway Capacity	Daily Volume	LOS	Classification	Roadway Capacity	Daily Volume	LOS
1 . San Timoteo Canyon Rd from Alessandro Rd to Live Oak Canyon Rd	City of Redlands/Riverside County	C	2MA	16,100	21,502	F *	4MA	37,200	21,502	C
2 . San Timoteo Canyon Rd from Live Oak Canyon Rd to Redlands Blvd	Riverside County	C	2MA	16,100	24,597	F *	4MA	37,200	24,597	C
3 . Redlands Blvd south of San Timoteo Canyon Rd	Riverside County	C	2MA	16,100	26,313	F *	4MA	37,200	26,313	C

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential