
APPENDIX D20
Traffic Impact Analysis



Traffic Impact Analysis
for

Districts at Jurupa Valley In the City of Jurupa Valley

July 2022

Kimley»»Horn

TRAFFIC IMPACT ANALYSIS
FOR THE PROPOSED
DISTRICTS AT JURUPA VALLEY
IN THE CITY OF JURUPA VALLEY

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TRAFFIC IMPACT ANALYSIS
FOR THE PROPOSED
DISTRICTS AT JURUPA VALLEY
IN THE CITY OF JURUPA VALLEY

EXECUTIVE SUMMARY

Project Overview

The District at Jurupa Valley Specific Plan would permit development of up to 1,196 residential units (4 existing + 1,192 proposed); approximately 3 million square feet of commercial and industrial land uses (including warehouse and logistic uses as permitted by the Agua Mansa Warehouse and Distribution Overlay Zone proposed to be applied to a portion of the Project site); a hotel with conference and hospitality area; and 7.2 acres of parks and open space.

The residential area of the specific plan would include up to 1,192 multi-family unit types and assumed 4 existing units, for a total of 1,196 residential units. The residential uses would be clustered in the southern portion of the Project site, adjacent to existing residential uses, and away from SR-60. The Specific Plan would include requirements for community amenities (i.e., pools, children play areas, social gathering spots, etc.) for the residents, and traffic calming devices designed to divert truck traffic away from the proposed residential neighborhoods, as well as existing residential neighborhoods in the vicinity of the Project site.

The commercial area of the specific plan would include a neighborhood shopping center to serve the local area including a grocery store, restaurants, retail stores, and community services. There would also be an area designated for larger big-box retailers to serve regional consumers that may include furniture and product showrooms with on-site assembly and inventory storage. A tourist commercial component would include a hotel, EV charging facility, a conference facility, and tourist facility.

The industrial area would have a maximum of 1.5 million square feet of building area with supporting parking for employees, trucks, and trailers on approximately 71 acres. An approximately 30,000 square foot business park would be included on approximately 6 acres. There would be a buffer between the industrial/logistics use and the residential uses to the south. Truck traffic into and out of this area would be prohibited from traveling into the proposed and existing residential areas.

The Project would provide approximately 7 acres of both active and passive open space. The Project would have paseos and walking trails that would link the open space to the various neighborhoods including a possible link to the Santa Ana River. Project street improvements would include both on-site and off-site roadways as well as the vacation of certain existing roads or portions of street rights-of-way within the Project site boundaries. The Project would be required to install sewer, water, storm drain and dry utilities throughout the site in size and capacity to meet the requirements of the development. The Project would be developed over several phases subject to market factors. Requested entitlements include a new Specific Plan, General Plan Amendment to change the underlying land use designations to accommodate the proposed multi-use Project; and to establish

the Agua Mansa Warehouse and Distribution Center Overlay Zone on a portion of the Project site, Change of Zone to modify the existing Specific Plan Zone from the Emerald Meadows Ranch Specific Plan to the new District at Jurupa Valley Specific Plan, a Development Agreement, Tentative Maps to subdivide the Project site into several parcels, site development permits, and conditional use permits as required by the Specific Plan.

Existing Conditions

Review of Existing conditions indicates that all of the following study intersections currently operate at an unacceptable LOS:

- #6 – Rubidoux Blvd at Market St/20th St: PM – LOS E
- #8 – Rubidoux Blvd at 24th St: AM – LOS F, PM – LOS F
- #12 – Rubidoux Blvd at 26th St: PM – LOS E

Opening Year 2023 Cumulative

Review of the Opening Year 2023 Cumulative conditions indicates that, with the addition of ambient growth and cumulative project traffic, the following study intersections would operate at an unacceptable Level of Service:

- #6 – Rubidoux Blvd at Market St/20th St: AM – LOS F, PM – LOS F
- #8 – Rubidoux Blvd at 24th St: AM – LOS F, PM – LOS F
- #9 – Market St at Hall Ave: AM – LOS E
- #11 – Market St at 24th St/Via Cerro: PM – LOS E
- #12 – Rubidoux Blvd at 26th St: AM – LOS F, PM – LOS F
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp: AM – LOS F, PM – LOS F
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp: AM – LOS F, PM – LOS F
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd: AM – LOS F, PM – LOS F
- #33 – Riverview Dr at Mission Blvd: AM – LOS E, PM – LOS F
- #34 – Rubidoux Blvd at Mission Blvd: AM – LOS E, PM – LOS F

Project Traffic

Phase 1 of the project is estimated to generate 21,597 daily PCE trips, 1,371 PCE trips (912 inbound and 459 outbound) in the morning peak hour and 1,695 PCE trips (707 inbound and 988 outbound) in the evening peak hour.

Phase 2 of the project is expected to be completed in 2026. After applying internal capture, pass-by, and PCE, the total project is expected to generate 36,525 daily PCE trips, 1,964 PCE trips (1,159 inbound and 805 outbound) in the morning peak hour and 2,893 PCE trips (1,366 inbound and 1,527 outbound) in the evening peak hour.

Opening Year 2023 Cumulative Plus Project – Option 1

Review of the Opening Year 2023 Cumulative Plus Project – Option 1 conditions indicates that, with the addition project traffic, the following study intersections would continue to operate at an unacceptable Level of Service:

- #6 – Rubidoux Blvd at Market St/20th St: AM – LOS F, PM – LOS F
- #7 – Agua Mansa Rd at Market St: PM – LOS F
- #8 – Rubidoux Blvd at 24th St: AM – LOS F, PM – LOS F
- #9 – Market St at Hall Ave: AM – LOS E, PM – LOS E
- #11 – Market St at 24th St/Via Cerro: PM – LOS F
- #12 – Rubidoux Blvd at 26th St: AM – LOS F, PM – LOS F
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp: AM – LOS F, PM – LOS F
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp: AM – LOS F, PM – LOS F
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd: AM – LOS F, PM – LOS F
- #22 – Market St at SR-60 EB Ramps: PM – LOS E
- #33 – Riverview Dr at Mission Blvd: AM – LOS F, PM – LOS F
- #34 – Rubidoux Blvd at Mission Blvd: AM – LOS F, PM – LOS F

Based on the significance thresholds presented earlier in this report, the following intersection would experience a project-related effect due to the increase in delay caused by the addition of project traffic:

- #6 – Rubidoux Blvd at Market St/20th St
- #7 – Agua Mansa Rd at Market St
- #8 – Rubidoux Blvd at 24th St
- #9 – Market St at Hall Ave
- #11 – Market St at 24th St/Via Cerro
- #12 – Rubidoux Blvd at 26th St
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd
- #22 – Market St at SR-60 EB Ramps
- #33 – Riverview Dr at Mission Blvd
- #34 – Rubidoux Blvd at Mission Blvd

Opening Year 2023 Cumulative Plus Project – Option 2

Review of the Opening Year 2023 Cumulative Plus Project – Option 2 conditions indicates that, with the addition project traffic, the following study intersections would continue to operate at an unacceptable Level of Service:

- #6 – Rubidoux Blvd at Market St/20th St: AM – LOS F, PM – LOS F
- #7 – Agua Mansa Rd at Market St: PM – LOS F

- #8 – Rubidoux Blvd at 24th St: AM – LOS F, PM – LOS F
- #9 – Market St at Hall Ave: AM – LOS E, PM – LOS E
- #11 – Market St at 24th St/Via Cerro: PM – LOS F
- #12 – Rubidoux Blvd at 26th St: AM – LOS F, PM – LOS F
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp: AM – LOS F, PM – LOS F
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp: AM – LOS F, PM – LOS F
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd: AM – LOS F, PM – LOS F
- #22 – Market St at SR-60 EB Ramps: PM – LOS E
- #33 – Riverview Dr at Mission Blvd: AM – LOS F, PM – LOS F
- #34 – Rubidoux Blvd at Mission Blvd: AM – LOS F, PM – LOS F

Based on the significance thresholds presented earlier in this report, the following intersection would experience a project-related effect due to the increase in delay caused by the addition of project traffic:

- #6 – Rubidoux Blvd at Market St/20th St
- #7 – Agua Mansa Rd at Market St
- #8 – Rubidoux Blvd at 24th St
- #9 – Market St at Hall Ave
- #11 – Market St at 24th St/Via Cerro
- #12 – Rubidoux Blvd at 26th St
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd
- #22 – Market St at SR-60 EB Ramps
- #33 – Riverview Dr at Mission Blvd
- #34 – Rubidoux Blvd at Mission Blvd

Opening Year 2023 Cumulative Plus Project – Option 3

Review of the Opening Year 2023 Cumulative Plus Project – Option 3 indicates that, with the addition project traffic, the following study intersections would continue to operate at an unacceptable Level of Service:

- #6 – Rubidoux Blvd at Market St/20th St: AM – LOS F, PM – LOS F
- #7 – Agua Mansa Rd at Market St: PM – LOS F
- #8 – Rubidoux Blvd at 24th St: AM – LOS F, PM – LOS F
- #9 – Market St at Hall Ave: AM – LOS E, PM – LOS E
- #11 – Market St at 24th St/Via Cerro: PM – LOS F
- #12 – Rubidoux Blvd at 26th St: AM – LOS F, PM – LOS F
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp: AM – LOS F, PM – LOS F
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp: AM – LOS F, PM – LOS F
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd: AM – LOS F, PM – LOS F
- #22 – Market St at SR-60 EB Ramps: PM – LOS E

- #33 – Riverview Dr at Mission Blvd: AM – LOS F, PM – LOS F
- #34 – Rubidoux Blvd at Mission Blvd: AM – LOS F, PM – LOS F

Based on the significance thresholds presented earlier in this report, the following intersection would experience a project-related effect due to the increase in delay caused by the addition of project traffic:

- #6 – Rubidoux Blvd at Market St/20th St
- #7 – Agua Mansa Rd at Market St
- #8 – Rubidoux Blvd at 24th St
- #9 – Market St at Hall Ave
- #11 – Market St at 24th St/Via Cerro
- #12 – Rubidoux Blvd at 26th St
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd
- #22 – Market St at SR-60 EB Ramps
- #33 – Riverview Dr at Mission Blvd
- #34 – Rubidoux Blvd at Mission Blvd

Opening Year 2026 Cumulative

Review of the Opening Year 2026 Cumulative conditions indicates that, with the addition of ambient growth and cumulative project traffic, the following study intersections would operate at an unacceptable Level of Service:

- #6 – Rubidoux Blvd at Market St/20th St: AM – LOS F, PM – LOS F
- #8 – Rubidoux Blvd at 24th St: AM – LOS F, PM – LOS F
- #9 – Market St at Hall Ave: AM – LOS E, PM – LOS E
- #11 – Market St at 24th St/Via Cerro: PM – LOS E
- #12 – Rubidoux Blvd at 26th St: AM – LOS F, PM – LOS F
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp: AM – LOS F, PM – LOS F
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp: AM – LOS F, PM – LOS F
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd: AM – LOS F, PM – LOS F
- #33 – Riverview Dr at Mission Blvd: AM – LOS F, PM – LOS F
- #34 – Rubidoux Blvd at Mission Blvd: AM – LOS F, PM – LOS F
- #36 – Crestmore Rd at Mission Blvd: PM – LOS E

Opening Year 2026 Cumulative No Ramp Plus Project – Option 1

Review of the Opening Year 2026 Cumulative No Ramp Plus Project – Option 1 Conditions indicates that, with the addition project traffic, the following study intersections would continue to operate at

an unacceptable Level of Service:

- #6 – Rubidoux Blvd at Market St/20th St: AM – LOS F, PM – LOS F
- #8 – Rubidoux Blvd at 24th St: AM – LOS F, PM – LOS F
- #9 – Market St at Hall Ave: AM – LOS E, PM – LOS E
- #11 – Market St at 24th St/Via Cerro: PM – LOS E
- #12 – Rubidoux Blvd at 26th St: AM – LOS F, PM – LOS F
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp: AM – LOS F, PM – LOS F
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp: AM – LOS F, PM – LOS F
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd: AM – LOS F, PM – LOS F
- #19 – Frontage Rd at SR-60 EB On-Ramp: AM – LOS F
- #33 – Riverview Dr at Mission Blvd: AM – LOS F, PM – LOS F
- #34 – Rubidoux Blvd at Mission Blvd: AM – LOS F, PM – LOS F
- #36 – Crestmore Rd at Mission Blvd: PM – LOS E

Based on the significance thresholds presented earlier in this report, the following intersection would experience a project-related effect due to the increase in delay caused by the addition of project traffic:

- #6 – Rubidoux Blvd at Market St/20th St
- #8 – Rubidoux Blvd at 24th St
- #11 – Market St at 24th St/Via Cerro
- #12 – Rubidoux Blvd at 26th St
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd
- #19 – Frontage Rd at SR-60 EB On-Ramp
- #33 – Riverview Dr at Mission Blvd
- #34 – Rubidoux Blvd at Mission Blvd

Opening Year 2026 Cumulative No Ramp Plus Project – Option 2

Review of the Opening Year 2026 Cumulative No Ramp Plus Project – Option 2 Conditions indicates that, with the addition project traffic, the following study intersections would continue to operate at an unacceptable Level of Service:

- #6 – Rubidoux Blvd at Market St/20th St: AM – LOS F, PM – LOS F
- #8 – Rubidoux Blvd at 24th St: AM – LOS F, PM – LOS F
- #9 – Market St at Hall Ave: AM – LOS E, PM – LOS E
- #11 – Market St at 24th St/Via Cerro: PM – LOS F
- #12 – Rubidoux Blvd at 26th St: AM – LOS F, PM – LOS F
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp: AM – LOS F, PM – LOS F
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp: AM – LOS F, PM – LOS F
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd: AM – LOS F, PM – LOS F

- #22 – Market St at SR-60 EB Ramps: PM – LOS E
- #33 – Riverview Dr at Mission Blvd: AM – LOS F, PM – LOS F
- #34 – Rubidoux Blvd at Mission Blvd: AM – LOS F, PM – LOS F
- #36 – Crestmore Rd at Mission Blvd: PM – LOS E

Based on the significance thresholds presented earlier in this report, the following intersection would experience a project-related effect due to the increase in delay caused by the addition of project traffic:

- #6 – Rubidoux Blvd at Market St/20th St
- #8 – Rubidoux Blvd at 24th St
- #9 – Market St at Hall Ave
- #11 – Market St at 24th St/Via Cerro
- #12 – Rubidoux Blvd at 26th St
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd
- #22 – Market St at SR-60 EB Ramps
- #33 – Riverview Dr at Mission Blvd
- #34 – Rubidoux Blvd at Mission Blvd

Opening Year 2026 Cumulative No Ramp Plus Project – Option 3

Review of the Opening Year 2026 Cumulative No Ramp Plus Project – Option 3 Conditions indicates that, with the addition project traffic, the following study intersections would continue to operate at an unacceptable Level of Service:

- #6 – Rubidoux Blvd at Market St/20th St: AM – LOS F, PM – LOS F
- #8 – Rubidoux Blvd at 24th St: AM – LOS F, PM – LOS F
- #9 – Market St at Hall Ave: AM – LOS F, PM – LOS F
- #11 – Market St at 24th St/Via Cerro: PM – LOS F
- #12 – Rubidoux Blvd at 26th St: AM – LOS F, PM – LOS F
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp: AM – LOS F, PM – LOS F
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp: AM – LOS F, PM – LOS F
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd: AM – LOS F, PM – LOS F
- #22 – Market St at SR-60 EB Ramps: PM – LOS E
- #33 – Riverview Dr at Mission Blvd: AM – LOS F, PM – LOS F
- #34 – Rubidoux Blvd at Mission Blvd: AM – LOS F, PM – LOS F
- #36 – Crestmore Rd at Mission Blvd: PM – LOS E

Based on the significance thresholds presented earlier in this report, the following intersection would experience a project-related effect due to the increase in delay caused by the addition of project traffic:

- #6 – Rubidoux Blvd at Market St/20th St
- #8 – Rubidoux Blvd at 24th St
- #9 – Market St at Hall Ave
- #11 – Market St at 24th St/Via Cerro
- #12 – Rubidoux Blvd at 26th St
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd
- #22 – Market St at SR-60 EB Ramps
- #33 – Riverview Dr at Mission Blvd
- #34 – Rubidoux Blvd at Mission Blvd

Opening Year 2026 Cumulative Plus Project – Option 1

Review of the Opening Year 2026 Cumulative Plus Project – Option 1 Conditions indicates that, with the addition project traffic, the following study intersections would continue to operate at an unacceptable Level of Service:

- #6 – Rubidoux Blvd at Market St/20th St: AM – LOS F, PM – LOS F
- #8 – Rubidoux Blvd at 24th St: AM – LOS F, PM – LOS F
- #9 – Market St at Hall Ave: AM – LOS E, PM – LOS E
- #11 – Market St at 24th St/Via Cerro: PM – LOS E
- #12 – Rubidoux Blvd at 26th St: AM – LOS F, PM – LOS F
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp: AM – LOS F, PM – LOS F
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp: AM – LOS F, PM – LOS F
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd: AM – LOS F, PM – LOS F
- #19 – Frontage Rd at SR-60 EB On-Ramp: AM – LOS F
- #33 – Riverview Dr at Mission Blvd: AM – LOS F, PM – LOS F
- #34 – Rubidoux Blvd at Mission Blvd: AM – LOS F, PM – LOS F
- #36 – Crestmore Rd at Mission Blvd: PM – LOS E

Based on the significance thresholds presented earlier in this report, the following intersection would experience a project-related effect due to the increase in delay caused by the addition of project traffic:

- #6 – Rubidoux Blvd at Market St/20th St
- #8 – Rubidoux Blvd at 24th St
- #12 – Rubidoux Blvd at 26th St
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd
- #19 – Frontage Rd at SR-60 EB On-Ramp
- #33 – Riverview Dr at Mission Blvd

- #34 – Rubidoux Blvd at Mission Blvd

Opening Year 2026 Cumulative Plus Project – Option 2

Review of the Opening Year 2026 Cumulative Plus Project – Option 2 Conditions indicates that, with the addition project traffic, the following study intersections would continue to operate at an unacceptable Level of Service:

- #6 – Rubidoux Blvd at Market St/20th St: AM – LOS F, PM – LOS F
- #8 – Rubidoux Blvd at 24th St: AM – LOS F, PM – LOS F
- #9 – Market St at Hall Ave: AM – LOS E, PM – LOS E
- #11 – Market St at 24th St/Via Cerro: PM – LOS E
- #12 – Rubidoux Blvd at 26th St: AM – LOS F, PM – LOS F
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp: AM – LOS F, PM – LOS F
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp: AM – LOS F, PM – LOS F
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd: AM – LOS F, PM – LOS F
- #33 – Riverview Dr at Mission Blvd: AM – LOS F, PM – LOS F
- #34 – Rubidoux Blvd at Mission Blvd: AM – LOS F, PM – LOS F
- #36 – Crestmore Rd at Mission Blvd: PM – LOS E

Based on the significance thresholds presented earlier in this report, the following intersection would experience a project-related effect due to the increase in delay caused by the addition of project traffic:

- #6 – Rubidoux Blvd at Market St/20th St
- #8 – Rubidoux Blvd at 24th St
- #9 – Market St at Hall Ave
- #12 – Rubidoux Blvd at 26th St
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd
- #33 – Riverview Dr at Mission Blvd
- #34 – Rubidoux Blvd at Mission Blvd

Opening Year 2026 Cumulative Plus Project – Option 3

Review of the Opening Year 2026 Cumulative Plus Project – Option 3 Conditions indicates that, with the addition project traffic, the following study intersections would continue to operate at an unacceptable Level of Service:

- #6 – Rubidoux Blvd at Market St/20th St: AM – LOS F, PM – LOS F
- #8 – Rubidoux Blvd at 24th St: AM – LOS F, PM – LOS F
- #9 – Market St at Hall Ave: AM – LOS F, PM – LOS F

- #11 – Market St at 24th St/Via Cerro: PM – LOS E
- #12 – Rubidoux Blvd at 26th St: AM – LOS F, PM – LOS F
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp: AM – LOS F, PM – LOS F
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp: AM – LOS F, PM – LOS F
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd: AM – LOS F, PM – LOS F
- #33 – Riverview Dr at Mission Blvd: AM – LOS F, PM – LOS F
- #34 – Rubidoux Blvd at Mission Blvd: AM – LOS F, PM – LOS F
- #36 – Crestmore Rd at Mission Blvd: PM – LOS E

Based on the significance thresholds presented earlier in this report, the following intersection would experience a project-related effect due to the increase in delay caused by the addition of project traffic:

- #6 – Rubidoux Blvd at Market St/20th St
- #8 – Rubidoux Blvd at 24th St
- #9 – Market St at Hall Ave
- #12 – Rubidoux Blvd at 26th St
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd
- #33 – Riverview Dr at Mission Blvd
- #34 – Rubidoux Blvd at Mission Blvd

Horizon Year 2045

Review of the Horizon Year 2045 conditions, the following study intersections would operate at an unacceptable Level of Service:

- #1 – Cedar Ave at Slover Ave: AM – LOS E
- #6 – Rubidoux Blvd at Market St/20th St: AM – LOS F, PM – LOS F
- #7 – Agua Mansa Rd at Market St: PM – LOS E
- #8 – Rubidoux Blvd at 24th St: AM – LOS F, PM – LOS F
- #9 – Market St at Hall Ave: AM – LOS F, PM – LOS F
- #11 – Market St at 24th St/Via Cerro: AM – LOS E, PM – LOS F
- #12 – Rubidoux Blvd at 26th St: AM – LOS F, PM – LOS F
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp: AM – LOS F, PM – LOS F
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp: AM – LOS F, PM – LOS F
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd: AM – LOS F, PM – LOS E
- #33 – Riverview Dr at Mission Blvd: AM – LOS F, PM – LOS F
- #34 – Rubidoux Blvd at Mission Blvd: AM – LOS F, PM – LOS F
- #36 – Crestmore Rd at Mission Blvd: PM – LOS F
- #40 – Camino real at Limonite Avenue: PM – LOS E

Horizon Year 2045 No Ramp Plus Project – Option 1

Review of the Horizon Year 2045 No Ramp Plus Project – Option 1 conditions indicates that, with the addition of project traffic, the following study intersections would operate at an unacceptable Level of Service:

- #1 – Cedar Ave at Slover Ave: AM – LOS F
- #6 – Rubidoux Blvd at Market St/20th St: AM – LOS F, PM – LOS F
- #7 – Agua Mansa Rd at Market St: PM – LOS F
- #8 – Rubidoux Blvd at 24th St: AM – LOS F, PM – LOS F
- #9 – Market St at Hall Ave: AM – LOS F, PM – LOS F
- #11 – Market St at 24th St/Via Cerro: AM – LOS E, PM – LOS F
- #12 – Rubidoux Blvd at 26th St: AM – LOS F, PM – LOS F
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp: AM – LOS F, PM – LOS F
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp: AM – LOS F, PM – LOS F
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd: AM – LOS F, PM – LOS F
- #19 – Frontage Rd at SR-60 EB On-Ramp: AM – LOS F
- #33 – Riverview Dr at Mission Blvd: AM – LOS F, PM – LOS F
- #34 – Rubidoux Blvd at Mission Blvd: AM – LOS F, PM – LOS F
- #36 – Crestmore Rd at Mission Blvd: PM – LOS F
- #40 – Camino real at Limonite Avenue: PM – LOS E

Based on the significance thresholds presented earlier in this report, the following intersection would experience a project-related effect due to the increase in delay caused by the addition of project traffic:

- #1 – Cedar Ave at Slover Ave
- #6 – Rubidoux Blvd at Market St/20th St
- #7 – Agua Mansa Rd at Market St
- #9 – Market St at Hall Ave
- #11 – Market St at 24th St/Via Cerro
- #12 – Rubidoux Blvd at 26th St
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd
- #19 – Frontage Rd at SR-60 EB On-Ramp
- #33 – Riverview Dr at Mission Blvd
- #34 – Rubidoux Blvd at Mission Blvd
- #40 – Camino Real at Limonite Ave

Horizon Year 2045 No Ramp Plus Project – Option 2

Review of the Horizon Year 2045 No Ramp Plus Project – Option 2 conditions indicates that, with the addition of project traffic, the following study intersections would operate at an unacceptable Level of Service:

- #1 – Cedar Ave at Slover Ave: AM – LOS F
- #6 – Rubidoux Blvd at Market St/20th St: AM – LOS F, PM – LOS F
- #7 – Agua Mansa Rd at Market St: PM – LOS F
- #8 – Rubidoux Blvd at 24th St: AM – LOS F, PM – LOS F
- #9 – Market St at Hall Ave: AM – LOS F, PM – LOS F
- #10 – Hall Ave at 24th St: PM – LOS F
- #11 – Market St at 24th St/Via Cerro: AM – LOS E, PM – LOS F
- #12 – Rubidoux Blvd at 26th St: AM – LOS F, PM – LOS F
- #15 – Hall Ave at 28th St: PM – LOS F
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp: AM – LOS F, PM – LOS F
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp: AM – LOS F, PM – LOS F
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd: AM – LOS F, PM – LOS F
- #22 – Market St at SR-60 EB Ramps: PM – LOS E
- #33 – Riverview Dr at Mission Blvd: AM – LOS F, PM – LOS F
- #34 – Rubidoux Blvd at Mission Blvd: AM – LOS F, PM – LOS F
- #36 – Crestmore Rd at Mission Blvd: PM – LOS F
- #40 – Camino real at Limonite Avenue: PM – LOS E

Based on the significance thresholds presented earlier in this report, the following intersection would experience a project-related effect due to the increase in delay caused by the addition of project traffic:

- #1 – Cedar Ave at Slover Ave
- #6 – Rubidoux Blvd at Market St/20th St
- #7 – Agua Mansa Rd at Market St
- #9 – Market St at Hall Ave
- #10 – Hall Ave at 24th St
- #11 – Market St at 24th St/Via Cerro
- #12 – Rubidoux Blvd at 26th St
- #15 – Hall Ave at 28th St
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd
- #22 – Market St at SR-60 EB Ramps
- #33 – Riverview Dr at Mission Blvd
- #34 – Rubidoux Blvd at Mission Blvd
- #40 – Camino Real at Limonite Ave

Horizon Year 2045 No Ramp Plus Project – Option 3

Review of the Horizon Year 2045 No Ramp Plus Project – Option 3 conditions indicates that, with the addition of project traffic, the following study intersections would operate at an unacceptable Level of Service:

- #1 – Cedar Ave at Slover Ave: AM – LOS F
- #6 – Rubidoux Blvd at Market St/20th St: AM – LOS F, PM – LOS F
- #7 – Agua Mansa Rd at Market St: PM – LOS F
- #8 – Rubidoux Blvd at 24th St: AM – LOS F, PM – LOS F
- #9 – Market St at Hall Ave: AM – LOS F, PM – LOS F
- #10 – Hall Ave at 24th St: PM – LOS F
- #11 – Market St at 24th St/Via Cerro: AM – LOS E, PM – LOS F
- #12 – Rubidoux Blvd at 26th St: AM – LOS F, PM – LOS F
- #15 – Hall Ave at 28th St: PM – LOS F
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp: AM – LOS F, PM – LOS F
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp: AM – LOS F, PM – LOS F
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd: AM – LOS F, PM – LOS F
- #22 – Market St at SR-60 EB Ramps: PM – LOS E
- #33 – Riverview Dr at Mission Blvd: AM – LOS F, PM – LOS F
- #34 – Rubidoux Blvd at Mission Blvd: AM – LOS F, PM – LOS F
- #36 – Crestmore Rd at Mission Blvd: PM – LOS F
- #40 – Camino real at Limonite Avenue: PM – LOS E

Based on the significance thresholds presented earlier in this report, the following intersection would experience a project-related effect due to the increase in delay caused by the addition of project traffic:

- #1 – Cedar Ave at Slover Ave
- #6 – Rubidoux Blvd at Market St/20th St
- #7 – Agua Mansa Rd at Market St
- #9 – Market St at Hall Ave
- #10 – Hall Ave at 24th St
- #11 – Market St at 24th St/Via Cerro
- #12 – Rubidoux Blvd at 26th St
- #15 – Hall Ave at 28th St
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd
- #22 – Market St at SR-60 EB Ramps
- #33 – Riverview Dr at Mission Blvd

- #34 – Rubidoux Blvd at Mission Blvd
- #40 – Camino Real at Limonite Ave

Horizon Year 2045 Plus Project – Option 1

Review of the Horizon Year 2045 Plus Project – Option 1 conditions indicates that, with the addition of project traffic, the following study intersections would operate at an unacceptable Level of Service:

- #1 – Cedar Ave at Slover Ave: AM – LOS F
- #6 – Rubidoux Blvd at Market St/20th St: AM – LOS F, PM – LOS F
- #7 – Agua Mansa Rd at Market St: PM – LOS F
- #8 – Rubidoux Blvd at 24th St: AM – LOS F, PM – LOS F
- #9 – Market St at Hall Ave: AM – LOS F, PM – LOS F
- #11 – Market St at 24th St/Via Cerro: AM – LOS E, PM – LOS F
- #12 – Rubidoux Blvd at 26th St: AM – LOS F, PM – LOS F
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp: AM – LOS F, PM – LOS F
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp: AM – LOS F, PM – LOS F
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd: AM – LOS F, PM – LOS F
- #19 – Frontage Rd at SR-60 EB On-Ramp: AM – LOS F
- #33 – Riverview Dr at Mission Blvd: AM – LOS F, PM – LOS F
- #34 – Rubidoux Blvd at Mission Blvd: AM – LOS F, PM – LOS F
- #36 – Crestmore Rd at Mission Blvd: PM – LOS F
- #40 – Camino real at Limonite Avenue: PM – LOS E

Based on the significance thresholds presented earlier in this report, the following intersection would experience a project-related effect due to the increase in delay caused by the addition of project traffic:

- #1 – Cedar Ave at Slover Ave
- #6 – Rubidoux Blvd at Market St/20th St
- #7 – Agua Mansa Rd at Market St
- #9 – Market St at Hall Ave
- #11 – Market St at 24th St/Via Cerro
- #12 – Rubidoux Blvd at 26th St
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd
- #19 – Frontage Rd at SR_60 EB On-Ramp
- #33 – Riverview Dr at Mission Blvd
- #34 – Rubidoux Blvd at Mission Blvd
- #40 – Camino Real at Limonite Ave

Horizon Year 2045 Plus Project – Option 2

Review of the Horizon Year 2045 Plus Project – Option 3 conditions indicates that, with the addition of project traffic, the following study intersections would operate at an unacceptable Level of Service:

- #1 – Cedar Ave at Slover Ave: AM – LOS F
- #6 – Rubidoux Blvd at Market St/20th St: AM – LOS F, PM – LOS F
- #7 – Agua Mansa Rd at Market St: PM – LOS F
- #8 – Rubidoux Blvd at 24th St: AM – LOS F, PM – LOS F
- #9 – Market St at Hall Ave: AM – LOS F, PM – LOS F
- #11 – Market St at 24th St/Via Cerro: AM – LOS E, PM – LOS F
- #12 – Rubidoux Blvd at 26th St: AM – LOS F, PM – LOS F
- #15 – Hall Ave at 28th St: PM – LOS E
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp: AM – LOS F, PM – LOS F
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp: AM – LOS F, PM – LOS F
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd: AM – LOS F, PM – LOS F
- #33 – Riverview Dr at Mission Blvd: AM – LOS F, PM – LOS F
- #34 – Rubidoux Blvd at Mission Blvd: AM – LOS F, PM – LOS F
- #36 – Crestmore Rd at Mission Blvd: PM – LOS F
- #40 – Camino real at Limonite Avenue: PM – LOS E

Based on the significance thresholds presented earlier in this report, the following intersection would experience a project-related effect due to the increase in delay caused by the addition of project traffic:

- #1 – Cedar Ave at Slover Ave
- #6 – Rubidoux Blvd at Market St/20th St
- #7 – Agua Mansa Rd at Market St
- #9 – Market St at Hall Ave
- #11 – Market St at 24th St/Via Cerro
- #12 – Rubidoux Blvd at 26th St
- #15 – Hall Ave at 28th St
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd
- #33 – Riverview Dr at Mission Blvd
- #34 – Rubidoux Blvd at Mission Blvd
- #40 – Camino Real at Limonite Ave

Horizon Year 2045 Plus Project – Option 3

Review of the Horizon Year 2045 Plus Project – Option 3 conditions indicates that, with the addition of project traffic, the following study intersections would operate at an unacceptable Level of Service:

- #1 – Cedar Ave at Slover Ave: AM – LOS F
- #6 – Rubidoux Blvd at Market St/20th St: AM – LOS F, PM – LOS F
- #7 – Agua Mansa Rd at Market St: PM – LOS F
- #8 – Rubidoux Blvd at 24th St: AM – LOS F, PM – LOS F
- #9 – Market St at Hall Ave: AM – LOS F, PM – LOS F
- #10 – Hall Ave at 24th St: PM – LOS F
- #11 – Market St at 24th St/Via Cerro: AM – LOS E, PM – LOS F
- #12 – Rubidoux Blvd at 26th St: AM – LOS F, PM – LOS F
- #15 – Hall Ave at 28th St: PM – LOS F
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp: AM – LOS F, PM – LOS F
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp: AM – LOS F, PM – LOS F
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd: AM – LOS F, PM – LOS F
- #22 – Market St at SR-60 EB Ramps: PM – LOS E
- #33 – Riverview Dr at Mission Blvd: AM – LOS F, PM – LOS F
- #34 – Rubidoux Blvd at Mission Blvd: AM – LOS F, PM – LOS F
- #36 – Crestmore Rd at Mission Blvd: PM – LOS F
- #40 – Camino real at Limonite Avenue: PM – LOS E

Based on the significance thresholds presented earlier in this report, the following intersection would experience a project-related effect due to the increase in delay caused by the addition of project traffic:

- #1 – Cedar Ave at Slover Ave
- #6 – Rubidoux Blvd at Market St/20th St
- #7 – Agua Mansa Rd at Market St
- #9 – Market St at Hall Ave
- #10 – Hall Ave at 24th St
- #11 – Market St at 24th St/Via Cerro
- #12 – Rubidoux Blvd at 26th St
- #15 – Hall Ave at 28th St
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd
- #22 – Market St at SR-60 EB Ramps
- #33 – Riverview Dr at Mission Blvd
- #34 – Rubidoux Blvd at Mission Blvd
- #40 – Camino Real at Limonite Ave

Interchange Queuing

Based on the interchange queuing analysis the 95th percentile queue would exceed the available storage capacity under Existing conditions and subsequent scenarios at the following locations:

- Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp
 - Westbound Left Turn
- Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd
 - Eastbound Left Turn

Traffic Signal Warrant Analysis

A signal warrant analysis was conducted for the following intersections:

- #8 – Rubidoux Blvd at 24th St
- #9 – Market St at Hall Ave
- #10 – Hall Ave at 24th St
- #12 – Rubidoux Blvd at 26th St
- #15 – Hall Ave at 28th St

Based on the signal warrant analysis, Warrant 3 was not met for any intersections in the Opening Year 2023 Cumulative scenario.

Based on the signal warrant analysis, Warrant 3 was met for the Opening Year 2023 Cumulative Plus Project – Option 3 scenario for the following intersections:

- #9 – Market St at Hall Ave

Based on the signal warrant analysis, Warrant 3 was not met for any intersections in the Opening Year 2026 Cumulative scenario.

Based on the signal warrant analysis, Warrant 3 was met for the Opening Year 2026 Cumulative Plus Project – Option 3 scenario for the following intersections:

- #9 – Market St at Hall Ave

Based on the signal warrant analysis, Warrant 3 was met for the Horizon Year 2045 scenario for the following intersections:

- #8 – Rubidoux Blvd at 24th St
- #12 – Rubidoux Blvd at 26th St

Based on the signal warrant analysis, Warrant 3 was met for the Horizon Year 2045 Plus Project – Option 3 scenario for the following intersections:

- #8 – Rubidoux Blvd at 24th St
- #9 – Market St at Hall Ave
- #10 – Hall Ave at 24th St
- #12 – Rubidoux Blvd at 26th St
- #15 – Hall Ave at 28th St

The decision to install a traffic signal should be based on engineering judgment, and not solely upon satisfying a peak hour warrant. It is recommended that a decision about signalization at the intersection should be made based on future observations as well as engineering judgment.

Recommended Improvements

With the implementation of the recommended improvements, the intersections with project-related effects would improve to LOS D or better, except at the Rubidoux Boulevard and SR-60 interchange.

With the additional recommended improvements, the Rubidoux Boulevard at SR-60 interchange would operate at an acceptable LOS and queuing would not back up to the SR-60 mainline.

TRAFFIC IMPACT ANALYSIS
FOR THE PROPOSED
DISTRICTS AT JURUPA VALLEY
IN THE CITY OF JURUPA VALLEY

INTRODUCTION

Purpose and Study Objectives

This traffic impact analysis has been prepared to address the traffic-related effects of the proposed Districts at Jurupa Valley in the City of Jurupa Valley. This traffic impact analysis has been conducted in accordance with the City of Jurupa Valley *Traffic Impact Analysis Guidelines* (November 2020).

This report includes a description of existing traffic conditions in the surrounding area, estimated project trip generation and distribution, future traffic growth, and an assessment of project-related effects on the transportation system. Where necessary, circulation system improvements have been identified to address project-related deficiencies at the study locations.

Project Overview

The proposed Project consists of a new specific plan (The District at Jurupa Valley Specific Plan) that would replace the Emerald Meadows Ranch Specific Plan (SP-337) that was adopted by Riverside County in 2005, prior to the City's incorporation. The District at Jurupa Valley Specific Plan contains approximately 243 acres and 4 acres of existing residential parcels, for a total of 247 acres; see Figure 1 A proposed Tentative Map (Tentative Tract map 38318) would consolidate existing multiple lots into a consolidated plan. Subsequent final maps and lotting would support future development. The development plan allows for a variety of residential and non-residential uses that incorporate strong employment opportunities through the warehouse/industrial and commercial land uses that would generate demand for retail services and businesses. In addition to economic development, the residential land uses will support the General Plan's Housing Element by providing new housing opportunities to meet the City's Regional Housing Needs Assessment.

The District at Jurupa Valley Specific Plan would permit development of up to 1,196 residential units (4 existing + 1,192 proposed); approximately 3 million square feet of commercial and industrial land uses (including warehouse and logistic uses as permitted by the Agua Mansa Warehouse and Distribution Overlay Zone proposed to be applied to a portion of the Project site); a hotel with conference and hospitality area; and 7.2 acres of parks and open space. The proposed Specific Plan land use components are shown in Figure 2 and the table below.

Land Use	Gross Acreage	Non-Residential Square Feet	Hotel Rooms ¹	Dwelling Unit
Commercial				
Neighborhood	29.8	180,000	---	---
Retail	19.1	200,000	---	---
Retail (Integrated)	35.5	1,000,000	---	---
Tourist	4.6	122,500	160	
Commercial Sub-Total	92.1	1,482,500	160	0
Residential				
High Density Residential ²	42.0	---	---	1,196
25+ du/acre				
Open Space	8.3	---	---	
Residential Sub-Total	50.3	0	0	1,196
Business Park				
Business Park	6.4	30,000	---	---
Existing Non-Conforming	1.0		---	---
Business Park Sub-Total	7.4	30,000	0	0
Industrial				
Industrial/Logistics	72.1	1,500,000	---	---
Industrial Sub-total	72.1	1,500,000	0	0
Public Improvements				
Public Streets	18.1	---	---	---
Public Parkway	0.7	---	---	---
Public Facility	6.1	---	---	---
Public Imp Sub-Total	24.9	0	0	0
TOTALS	246.8 AC	3,012,500 SF	160 Rm	1,196 DU

Notes:

1. The number of hotel rooms represents the maximum build. Hotel Square Feet is included in Non-Residential Square Feet and doesn't represent the maximum.
2. There is approximately 5.84 acres of existing right-of-way to be vacated. This acreage is included within the gross acreage of developed area.

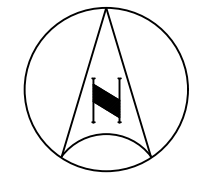
The residential area of the specific plan would include up to 1,192 multi-family unit types and assumed 4 existing units, for a total of 1,196 residential units. The residential uses would be clustered in the southern portion of the Project site, adjacent to existing residential uses, and away from SR-60. The Specific Plan would include requirements for community amenities (i.e., pools, children play areas, social gathering spots, etc.) for the residents, and traffic calming devices designed to divert truck traffic away from the proposed residential neighborhoods, as well as existing residential neighborhoods in the vicinity of the Project site.

The commercial area of the specific plan would include a neighborhood shopping center to serve the local area including a grocery store, restaurants, retail stores, and community services. There would

also be an area designated for larger big-box retailers to serve regional consumers that may include furniture and product showrooms with on-site assembly and inventory storage. A tourist commercial component would include a hotel, EV charging facility, a conference facility, and tourist facility.

The industrial area would have a maximum of 1.5 million square feet of building area with supporting parking for employees, trucks, and trailers on approximately 71 acres. An approximately 30,000 square foot business park would be included on approximately 6 acres. There would be a buffer between the industrial/logistics use and the residential uses to the south. Truck traffic into and out of this area would be prohibited from traveling into the proposed and existing residential areas.

The Project would provide approximately 7 acres of both active and passive open space. The Project would have paseos and walking trails that would link the open space to the various neighborhoods including a possible link to the Santa Ana River. Project street improvements would include both on-site and off-site roadways as well as the vacation of certain existing roads or portions of street rights-of-way within the Project site boundaries. The Project would be required to install sewer, water, storm drain and dry utilities throughout the site in size and capacity to meet the requirements of the development. The Project would be developed over several phases subject to market factors. Requested entitlements include a new Specific Plan, General Plan Amendment to change the underlying land use designations to accommodate the proposed multi-use Project; and to establish the Agua Mansa Warehouse and Distribution Center Overlay Zone on a portion of the Project site, Change of Zone to modify the existing Specific Plan Zone from the Emerald Meadows Ranch Specific Plan to the new District at Jurupa Valley Specific Plan, a Development Agreement, Tentative Maps to subdivide the Project site into several parcels, site development permits, and conditional use permits as required by the Specific Plan.



NOT TO SCALE

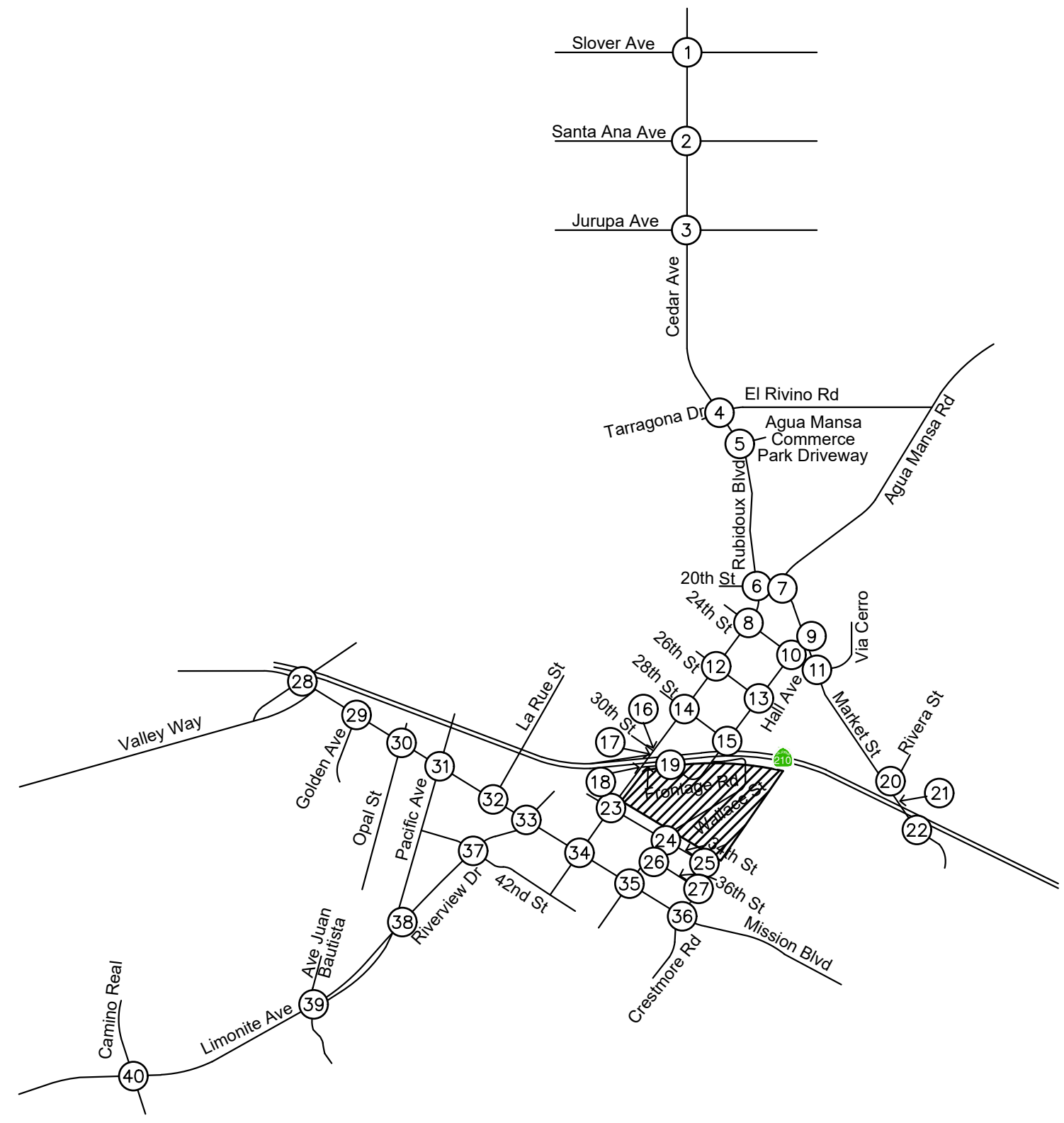
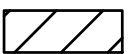
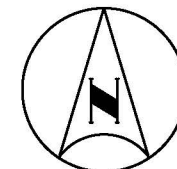
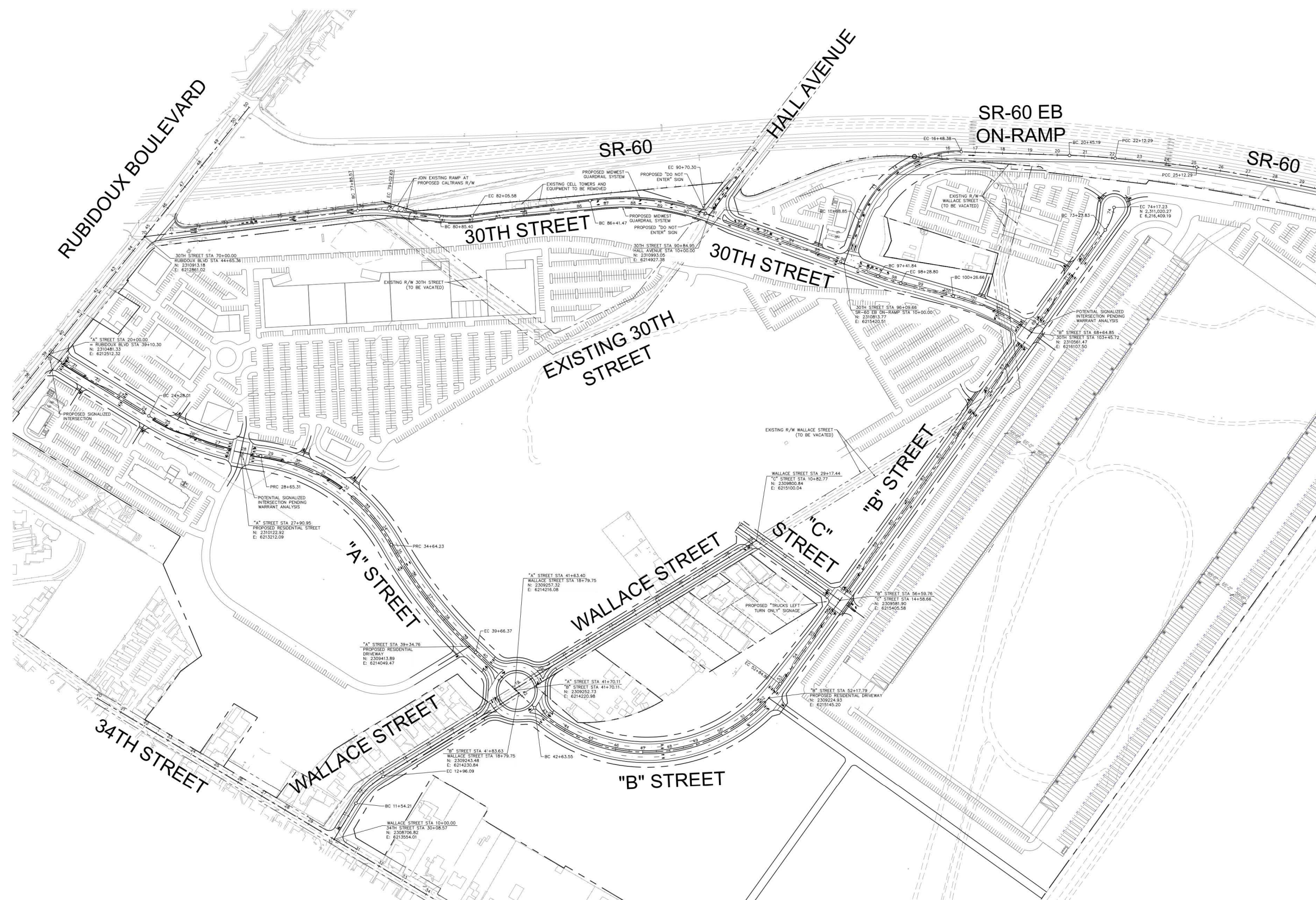


FIGURE 1
VICINITY MAP

LEGEND:
 = Project Site



NOT TO SCALE



LEGEND

	EXISTING R/W
	EXISTING CALTRANS R/W
	EXISTING PROPERTY LINE
	PROJECT LIMITS
	PROPOSED R/W
	PROPOSED ROADWAY CENTERLINE
	PROPOSED CURB
	PROPOSED SOLID STRIPING
	PROPOSED DASHED STRIPING
	PROPOSED SIGNALIZED INTERSECTION

Note: The Site Plan included is for purpose of analysis and considered conceptual, including with respect to number of buildings, building location and orientation, and alignment of streets or drive aisles.

FIGURE 2
SITE PLAN



ANALYSIS SCENARIOS AND METHODOLOGY

Analysis Scenarios

Based on the City of Jurupa Valley's Traffic Impact Analysis (TIA) guidelines, the project will be evaluated in the morning and evening peak hours for the following conditions:

- Existing Conditions
- Opening Year 2023 Cumulative
- Opening Year 2023 (Phase 1) Cumulative Plus Project
- Opening Year 2026 Cumulative
- Opening Year 2026 (Phase 2) Cumulative No Ramp Plus Project
- Opening Year 2026 (Phase 2) Cumulative Plus Project
- Horizon Year 2045
- Horizon Year 2045 No Ramp Plus Project
- Horizon Year 2045 Plus Project

Intersection Analysis – HCM Methodology

This study includes evaluation of morning and evening peak hour operations at forty existing intersections and seven future intersections located in the City of Jurupa Valley.

Peak hour intersection operations at signalized and unsignalized intersections were evaluated using the methods prescribed in the Highway Capacity Manual (HCM) 6, consistent with the City of Jurupa Valley *TIA Guidelines* (November 2020).

The City of Jurupa Valley's TIA guidelines require analysis of traffic operations to be based on the vehicular delay methodologies of the HCM (Transportation Research Board Special Report 209). The City does not designate a specific software to be used in the analysis but allows the use of one of several software packages that are consistent with the HCM methodologies. The intersection analysis for the proposed project has been accomplished using the Vistro software program and using the specified input parameters outlined in the City's TIA guidelines.

Per the HCM Methodology, Level of Service (LOS) for signalized intersections is defined in terms of average vehicle delay. Specifically, LOS criteria are stated in terms of the average control delay per vehicle for the peak 15-minute period within the hour analyzed. The average control delay includes initial deceleration delay, queue move-up time, and final acceleration time in addition to the stop delay. The tables on the following page provide a description of the operating characteristics of each Level of Service and define the LOS in terms of average seconds of delay for signalized and unsignalized intersections.

For unsignalized intersections, the HCM methodology analysis determines the average total delay for each vehicle making any movement from the stop-controlled minor street, as well as left turns from the major street. Delay values are calculated based on the relationship between traffic on major street and the availability of acceptable gaps in the traffic stream through which conflicting traffic movements can be made.

LEVEL OF SERVICE DEFINITIONS	
Level of Service	Description
A	No approach phase is fully utilized by traffic and no vehicle waits longer than one red indication. Typically, the approach appears quite open, turns are made easily and nearly all drivers find freedom of operation.
B	This service level represents stable operation, where an occasional approach phase is fully utilized and a substantial number are approaching full use. Many drivers begin to feel restricted within platoons of vehicles.
C	This level still represents stable operating conditions. Occasionally drivers may have to wait through more than one red signal indication, and backups may develop behind turning vehicles. Most drivers feel somewhat restricted but not objectionably S.
D	This level encompasses a zone of increasing restriction, approaching instability at the intersection. Delays to approaching vehicles may be substantial during short peaks within the peak period; however, enough cycles with lower demand occur to permit periodic clearance of developing queues, thus preventing excessive backups.
E	Capacity occurs at the upper end of this service level. It represents the most vehicles that any particular intersection approach can accommodate. Full utilization of every signal cycle is seldom attained no matter how great the demand.
F	This level describes forced flow operations at low speeds, where volumes exceed capacity. These conditions usually result from queues of vehicles backing up from a restriction downstream. Speeds are reduced substantially and stoppages may occur for short or long periods of time due to the congestion. In the extreme case, both speed and volume can drop to zero.

LEVEL OF SERVICE CRITERIA FOR SIGNALIZED AND UNSIGNALIZED INTERSECTIONS		
Level of Service	Signalized Intersection (Average delay per vehicle, in seconds) ¹	Unsignalized Intersections (Average delay per vehicle, in seconds) ²
A	≤ 10	0 – 10
B	> 10 – 20	> 10 – 15
C	> 20 – 35	> 15 – 25
D	> 35 – 55	> 25 – 35
E	> 55 – 80	> 35 – 50
F	> 80	> 50

¹ Source: Highway Capacity Manual (HCM 6th Edition), Exhibit 18-4.

² Source: Highway Capacity Manual (HCM 6th Edition), Exhibits 19-1 and 20-2.

Level of Service Standards and Measure of Significance

Signalized Intersections

The City's General Plan defines the minimum acceptable intersection LOS as LOD D. Any signalized study intersection operating at an acceptable LOS without project traffic in which the addition of project traffic causes the intersection to degrade to LOS E or F shall identify improvements to improve operations to LOS D or better. LOS E may be deemed acceptable by the City Council in designated planning areas and for multimodal mobility corridors that include facilities for at least three transportation modes in addition to motor vehicles, and that support transit-oriented development and walkable communities. LOS F is not considered acceptable level of service for other than the horizon year unless previously adopted for that intersection in the City's General Plan.

Any signalized study intersection that is operating at LOS E or F without project traffic where the project increases delay by 3.0 or more seconds shall identify improvements to offset the increase in delay. Note that no changes in the traffic signal operation between the Background and "With-Project" conditions shall be included when determining the project's impact at the intersection unless changes are being proposed as part of the project's mitigation program.

Unsignalized Intersections

Consistent with the acceptable LOS for the Jurupa Valley General Plan, the City considers the following unsignalized intersection criteria when identifying operational deficiencies:

An operational improvement would be required if the study determines that either sections a) or both sections b) and c) occur:

- a) The addition of project related traffic causes the intersection to degrade from an acceptable LOS D or better to LOS E or F.

OR

- b) The project adds 5.0 seconds or more of delay to an intersection that is already projected to operate without project traffic at a LOS E or F.

AND

- c) The intersection meets the peak-hour traffic signal warrant after the addition of project traffic.

If the conditions above are satisfied, the improvements should be identified that achieve the following:

- LOS D or better for case a) above or to pre-project LOS and delay for case b) above.

AREA CONDITIONS

Study Area

This traffic study includes documentation of existing conditions, future conditions, and identification of project-related effects at the following study locations:

Existing Intersections

1. Cedar Avenue at Slover Avenue
2. Cedar Avenue at Santa Ana Avenue
3. Cedar Avenue at Jurupa Avenue
4. Cedar Avenue at Tarragona Drive/El Rivino Road
5. Rubidoux Boulevard at Agua Mansa Commerce Park Driveway
6. Rubidoux Boulevard at Market Street/20th Street
7. Agua Mansa Road at Market Street
8. Rubidoux Boulevard at 24th Street
9. Market Street at Hall Avenue

10. Hall Avenue at 24th Street
11. Market Street at 24th Street/Via Cerro
12. Rubidoux Boulevard at 26th Street
13. Hall Avenue at 26th Street
14. Rubidoux Boulevard at 28th Street
15. Hall Avenue at 28th Street
16. Rubidoux Boulevard at 30th Street/SR-60 WB Off-Ramp
17. Rubidoux Boulevard at SR-60 WB On-Ramp
18. Rubidoux Boulevard at SR-60 EB Off-Ramp/Frontage Road
19. 30th Street at Frontage Road/SR-60 EB On-Ramp
20. Market Street at Rivera Street
21. Market Street at SR-60 WB Ramps
22. Market Street at SR-60 EB Ramps
23. Rubidoux Boulevard at 34th Street
24. Wallace Street at 34th Street
25. Crestmore Road at 34th Street
26. Wallace Street at 36th Street
27. Crestmore Road at 36th Street
28. Valley Way at Mission Boulevard
29. Golden Avenue at Mission Boulevard
30. Opal Street at Mission Boulevard
31. Pacific Avenue at Mission Boulevard
32. La Rue Street at Mission Boulevard
33. Riverview Drive at Mission Boulevard
34. Rubidoux Boulevard at Mission Boulevard
35. Wallace Street at Mission Boulevard
36. Crestmore Road at Mission Boulevard
37. Riverview Drive at 42nd Street
38. Riverview Drive/Limonite Avenue at Pacific Avenue
39. Limonite Avenue at Avenue San Juan Bautista
40. Camino Real at Limonite Avenue

Future Study Intersections

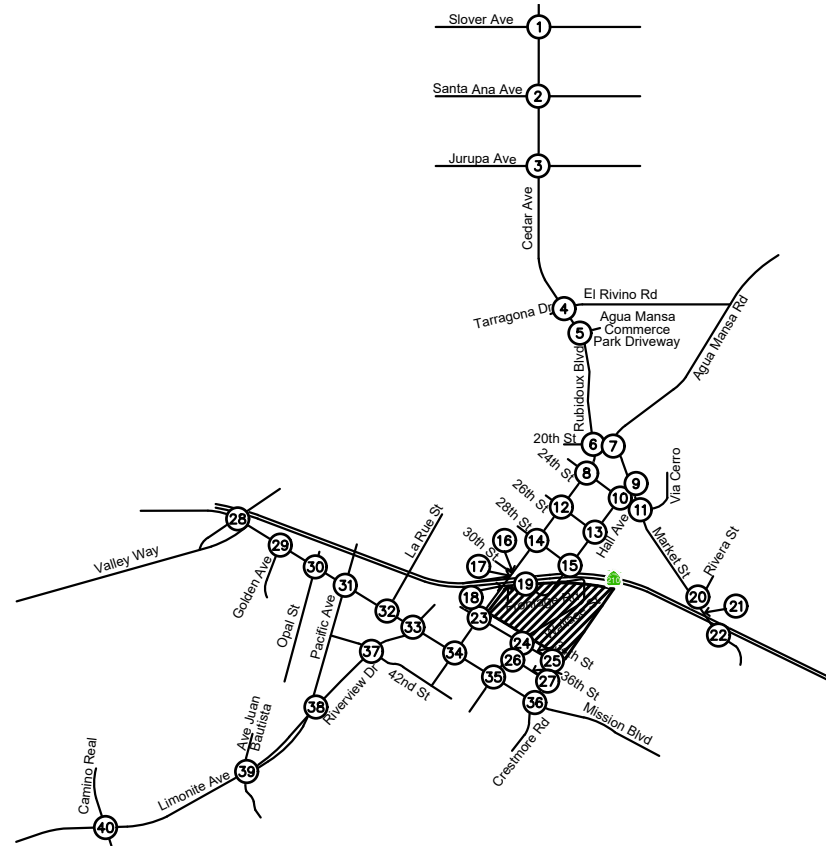
41. Hall Avenue at "A" Street
42. SR-60 SB On-Ramp at "A" Street
43. Rubidoux Boulevard at "B" Street
44. Wallace Street at "B" Street
45. Rubidoux Boulevard at Project Driveway
46. Industrial Driveway at "B" Street
47. "A" Street at "B" Street

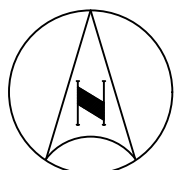
The study locations were established in consultation with City of Jurupa Valley staff through the Scoping Letter Agreement process. A copy of the approved Scoping Letter Agreement is provided in *Appendix A*.

Existing Street System

Regional access to the site is provided primarily by the Pomona/Moreno Valley Freeway (SR-60), the Riverside Freeway (SR-91), and the I-215. The SR-60 Freeway borders the project site to the north and access to the SR-91 and I-215 Freeways are located approximately 1.75 miles east of the project site. Other facilities that provide regional access to the site include the I-10, located approximately 4 miles to the north of the site; and the I-15 Freeway, located approximately 9 miles to the west of the project site.

Existing lane configurations and intersection controls at the study intersections are shown on Figure 3A and 3B. A copy of the City of Jurupa Valley's Hierarchy of Streets Plan is provided on Figure 4. The following provides a description of the roadways surrounding the project site.



1. Cedar Ave at Slover Ave		2. Cedar Ave at Santa Ana Ave		3. Cedar Ave at Jurupa Ave		4. Cedar Ave at Tarragona Dr/El Rivino Rd		 NOT TO SCALE	
5. Rubidoux Blvd at Agua Mansa Commerce Park Driveway		6. Rubidoux Blvd at Market St/20th St		7. Agua Mansa Rd at Market St		8. Rubidoux Blvd at 24th St			
9. Market St at Hall Ave		10. Hall Ave at 24th Street		11. Market St at 24th St/Via Cerro		12. Rubidoux Blvd at 26th St		13. Hall Ave at 26th St	
14. Rubidoux Blvd at 28th St		15. Hall Ave at 28th St		16. Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp		17. Rubidoux Blvd at SR-60 WB On-Ramp		18. Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd	
19. 30th St at Frontage Rd/SR-60 EB On-Ramp		20. Market St at Rivera St		21. Market St at SR-60 WB Ramps		22. Market St at SR-60 EB Ramps		23. Rubidoux at 34th St	
24. Wallace St at 34th St									

LEGEND:







-  = Study Intersection
-  = Turn or Through Lane
-  = Signal
-  = Stop Sign
-  = All Way Stop
-  = Free Right Turn

FIGURE 3A
EXISTING LANE CONFIGURATION AND TRAFFIC CONTROL

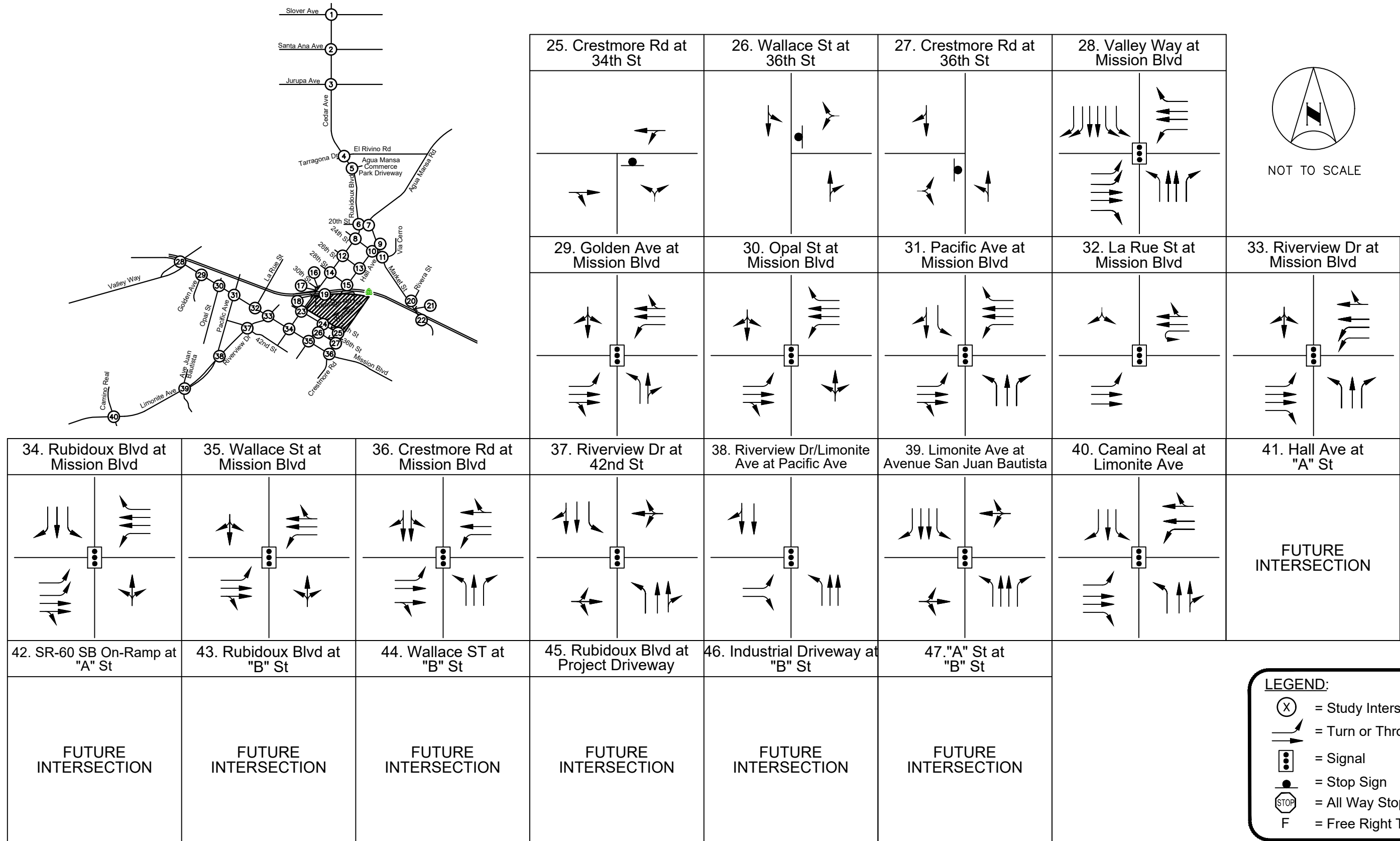
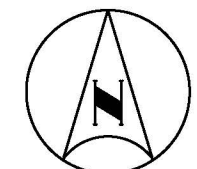
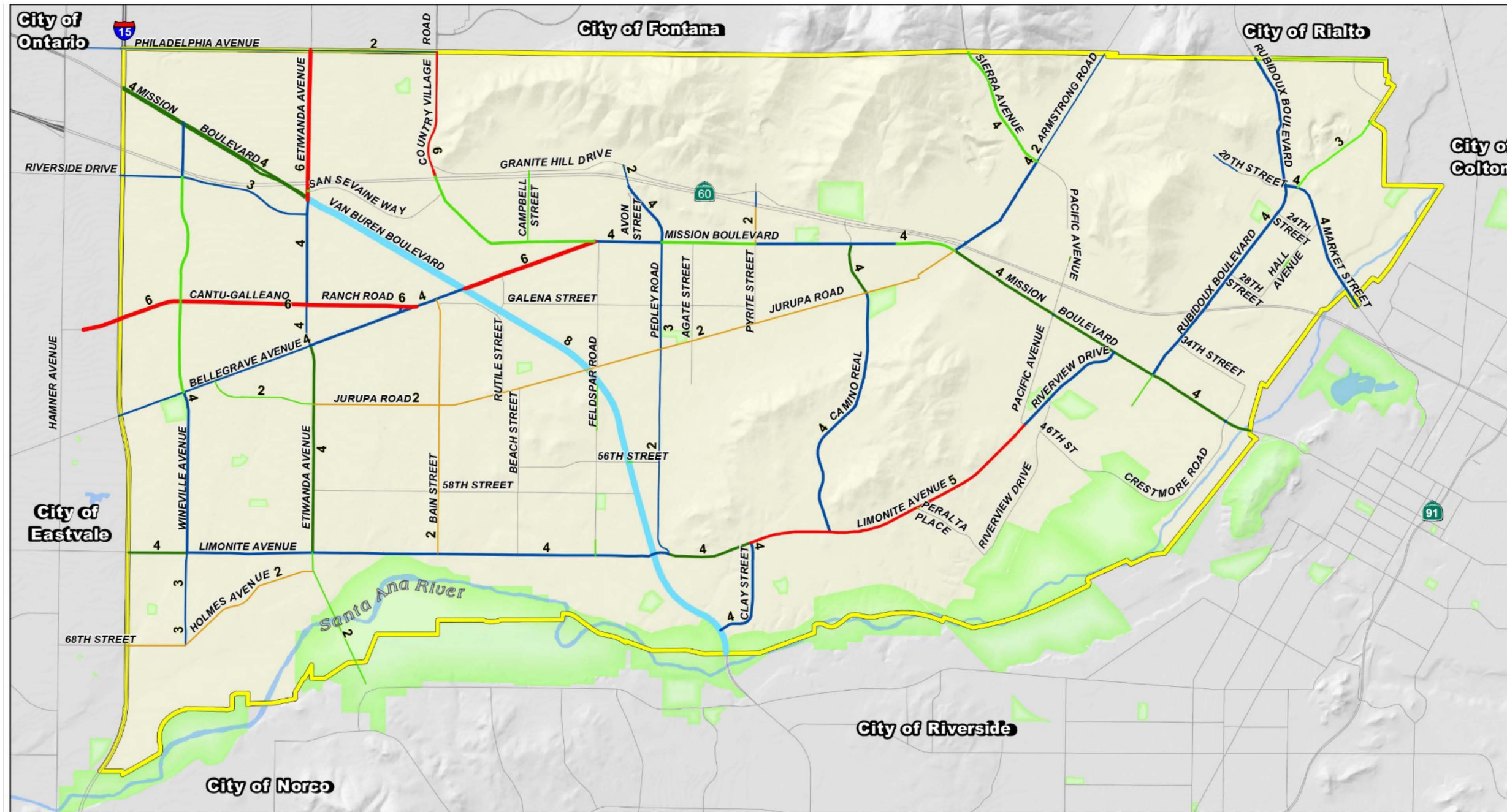


FIGURE 3B
EXISTING LANE CONFIGURATION AND TRAFFIC CONTROL



NOT TO SCALE



LSA

- | | | | |
|-----------------------|------------------------------|----------------------------------|--|
| City of Jurupa Valley | Arterial (Up to 128' ROW) | Secondary (Up to 100' ROW) | 4 Number of Lanes
"3" lanes refers to two travel lanes plus a dedicated turn lane |
| Parks | Expressway (Up to 220' ROW) | Urban Arterial (Up to 152' ROW) | |
| Local | Major (Up to 118' ROW) | Collector (Up to 74' ROW) | |
| | | | |

Source: City of Jurupa Valley 2017 General Plan, Figure 3-8: Street Classifications (2017)

FIGURE 4
CITY OF JURUPA VALLEY - HIERARCHY OF STREETS PLAN



Rubidoux Boulevard – Rubidoux Boulevard is a four-lane divided roadway with a posted speed limit of 50 miles per hour (mph). On-street parking is not permitted on the roadway. Rubidoux Boulevard is designated as a Major roadway in the City of Jurupa Valley General Plan. Rubidoux Boulevard eventually turns into Cedar Avenue in the City of Bloomington.

Mission Boulevard – Mission Boulevard is a four-lane divided roadway with a posted speed limit of 40 mph. On-street parking is generally permitted on the roadway. Mission Boulevard is designated as an Arterial roadway within the project vicinity.

Riverview Drive – Riverview Drive is a four-lane roadway divided roadway with a posted speed limit of 45 mph and 215 mph when children are present near West River Elementary School. On-street parking is not permitted on the roadway. Riverview Drive is designated as a Major roadway in the City of Jurupa Valley Master Plan and turns into Limonite Avenue after Pacific Avenue.

Limonite Avenue – Limonite Avenue is a four-lane divided roadway. The posted speed limit along Limonite Avenue is 50 mph and on-street parking is not allowed on the roadway. Limonite Avenue is designated as Urban Arterial roadway in the City of Jurupa Valley General Plan.

Market Street – Market Street is a two-lane undivided roadway between Agua Mansa Road and Rivera Street and a four-lane divided roadway after Rivera Street. The posted speed limit along Market Street is 45 mph and on-street parking is not allowed on the roadway within the project vicinity. Market Street is designated in the Jurupa Valley General Plan as a Major roadway and as a 100-foot Arterial in the Riverside General Plan.

Hall Avenue – Hall Avenue is a two-lane undivided roadway that has a posted speed limit of 40 mph. On-street parking is generally permitted on both sides of the roadway. Hall Avenue is classified as a local street in the Jurupa Valley General Plan. The project anticipates connecting its internal roadways to Hall Avenue.

Cedar Avenue – Cedar Avenue is a four-lane divided roadway that has a posted speed limit of 45 mph. On-street parking is not permitted on either side of the roadway. Cedar Avenue is classified as a Major Highway in the City of Bloomington Community Plan.

Slover Avenue – Slover Avenue is a four-lane divided roadway that has a posted speed limit of 50 mph. On-street parking is permitted on both sides of the roadway. Slover Avenue is classified as a Major Highway in the City of Bloomington Community Plan.

Santa Ana Avenue – Santa Ana Avenue is a two-lane undivided roadway that has a posted speed limit of 40 mph. On-street parking is permitted on the north side of the roadway. Santa Ana Avenue is classified as a Secondary Highway in the City of Bloomington Community Plan.

Jurupa Avenue – Jurupa valley is a two-lane undivided roadway that has a posted speed limit of 40 mph. On-street parking is generally permitted on the north side of the roadway. Jurupa Avenue is

classified as a Major Highway in the City of Bloomington Community Plan.

Transit Service

Transit service to the project area is provided via the Riverside Transit Agency (RTA) transit lines, which serve many cities in Riverside County. Bus stops in the project vicinity are located along Market Street, Rubidoux Boulevard, Mission Boulevard, Riverview Drive, and Limonite Avenue. A description of the bus routes serving the project area is provided below.

Route 29 operates between the Cities of Eastvale, Jurupa Valley, and Riverside, traveling through Jurupa Valley along Limonite Avenue, Rubidoux Boulevard, and Market Street in the project vicinity. Route 29 operates on weekdays from approximately 5:10 AM to 9:50 PM with approximately 80-minute headways (the time between bus arrivals) and on weekends from approximately 5:55 AM to 9:10 PM with approximately 70-minute headways.

Route 49 operates between the City of Jurupa Valley and City of Riverside, traveling along Mission Boulevard in the project vicinity. Route 49 operates on weekdays from approximately 5:55 AM to 9:00 PM with approximately 60-minute headways (the time between bus arrivals) and on weekends from approximately 6:20 AM to 8:30 PM with approximately 50-minute headways.

Existing Traffic Volumes

Existing morning peak period (7:00 to 9:00 AM) and evening peak period (4:00 to 6:00 PM) turning movement counts were collected for all study intersections. The counts were completed in October 2021 and February 2022. Passenger car equivalent (PCE) factors, were then applied to the truck types, based on the number of axles (1.5 PCE for 2-axle trucks, 2.0 PCE for 3-axle trucks, and 3.0 PCE for 4+-axle trucks) to determine the total existing PCE volumes. Existing morning and evening peak hour volumes are presented on Figure 5A and 5B. Peak hour intersection traffic count worksheets are provided in *Appendix B*.

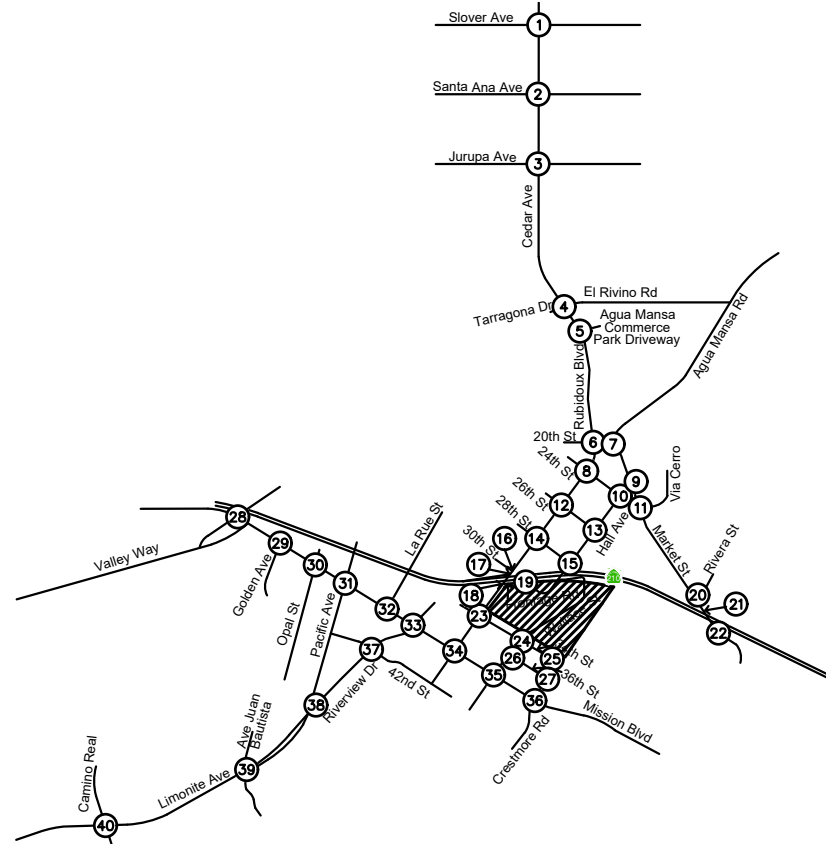
Peak Hour Operating Conditions

Intersection Level of Service analysis was conducted for the morning and evening peak hours using the analysis procedures and assumptions described previously in this report. The results of the intersection analysis for Existing Conditions are shown on Table 1. Copies of Existing Conditions intersection analysis worksheets are provided in *Appendix C*.

Review of this table indicates that all of the following study intersections currently operate at an unacceptable LOS:

- #6 – Rubidoux Blvd at Market St/20th St: PM – LOS E
- #8 – Rubidoux Blvd at 24th St: AM – LOS F, PM – LOS F
- #12 – Rubidoux Blvd at 26th St: PM – LOS E

Per the City's request, the intersection of Valley Way at Mission Boulevard was observed during the AM and PM peak hours. Observations showed that during the AM peak hour the intersection was operating at worse than a LOS C. However, this was mainly due to the northern leg having one of the receiving lanes closed, causing back up on the northbound thru, eastbound left, and westbound right turn lanes. The PM peak hour did not have any lane closures and therefore was operating at an acceptable LOS.



1. Cedar Ave at Slover Ave		2. Cedar Ave at Santa Ana Ave		3. Cedar Ave at Jurupa Ave		4. Cedar Ave at Tarragona Dr/El Rivino Rd									
113/777 890/677 113/127 140/103 143/222 15/20 191/190 145/379 49/117 134/120 814/503 11/41		55/68 792/717 50/50 38/28 101/117 34/25 57/79 90/103 63/106 101/142 721/656 17/35		23/36 786/797 77/84 130/46 83/70 38/42 33/31 74/175 24/44 29/61 681/692 41/77		3/19 658/828 98/129 52/161 1/4 102/168 12/9 2/4 20/7 3/4 483/672 115/87									
5. Rubidoux Blvd at Agua Mansa Commerce Park Driveway		6. Rubidoux Blvd at Market St/20th St		7. Agua Mansa Rd at Market St		8. Rubidoux Blvd at 24th St		9. Market St at Hall Ave							
991/977 806/888		68/27 589/583 440/480 354/431 56/46 275/298 46/41 57/87 35/32 20/22 257/344 283/349		230/319 1/0 103/154 161/202 442/450 19/0 265/442 529/458 39/1 9/0 1/3 13/1		0/4 772/815 106/109 17/31 3/6 8/32 0/1 3/17 4/10 7/19 536/677 17/48		660/700 18/22 570/575 14/24 20/15 8/19							
10. Hall Ave at 24th Street		11. Market St at 24th St/Via Cerro		12. Rubidoux Blvd at 26th St		13. Hall Ave at 26th St		14. Rubidoux Blvd at 28th St		15. Hall Ave at 28th St		16. Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp		17. Rubidoux Blvd at SR-60 WB On-Ramp	
6/12 9/38 13/5 4/1 10/29 14/60 1/8 115/150 4/21 10/27 13/28 32/89		1/1 569/681 21/21 11/31 7/38 114/233 11/4 32/30 123/216 26/54 585/578 155/104		0/1 669/744 10/13 9/11 2/1 4/14 2/2 0/2 9/6 8/2 661/730 7/26		3/4 83/95 1/12 6/3 0/1 9/5 3/20 0/2 5/9 2/13 71/93 8/1		11/12 801/836 16/21 5/10 10/22 53/64 12/29 9/24 16/37 32/29 549/699 56/68		46/57 56/53 1/0 29/43 1/1 23/30 6/16 45/114 1/1		19/6 833/941 90/116 63/92 402/427 24/21 185/165 40/49 623/707		623/595 788/902 286/205 645/738	
18. Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd		19. 30th St at Frontage Rd/SR-60 EB On-Ramp		20. Market St at Rivera St		21. Market St at SR-60 WB Ramps		22. Market St at SR-60 EB Ramps		23. Rubidoux at 34th St		24. Wallace St at 34th St			
615/832 177/92 22/23 26/35 418/496 11/46 187/341 479/536 561/284		706/310 26/78 41/7		5/0 701/905 32/85 43/60 252/211 3/2 0/14 12/56 24/5 735/798 306/218		154/165 828/951 786/666 69/79 139/317 312/340		348/567 548/438 119/109 498/761 359/573 144/61		46/114 737/901 51/180 112/63 7/19 19/21 120/101 32/43 16/28 21/20 774/661 41/93		3/9 36/34 12/28 8/27 57/54 5/5 4/15 51/183 58/94 47/27 23/15 3/5			



NOT TO SCALE

LEGEND:

- = Project Site
- = Study Intersection
- xx/yy = AM/PM Volumes

Note: Volumes reflect PCE adjustments.

**FIGURE 5A
EXISTING TRAFFIC VOLUMES**

TABLE 1
SUMMARY OF INTERSECTION OPERATION
EXISTING CONDITIONS

Int. #	Intersection	Traffic Control	AM Peak Hour		PM Peak Hour	
			Delay	LOS	Delay	LOS
1	Cedar Ave at Slover Ave	S	25.5	C	27.0	C
2	Cedar Ave at Santa Ana Ave	S	13.4	B	15.2	B
3	Cedar Ave at Jurupa Ave	S	13.6	B	13.9	B
4	Cedar Ave at Tarragona Dr/El Rivino Rd	S	10.6	B	14.2	B
5	Rubidoux Blvd at Agua Mansa Commerce Park Dwy	U	--	--	--	--
6	Rubidoux Blvd at Market St/20th St	S	53.7	D	62.2	E
7	Agua Mansa Rd at Market St	S	20.9	C	30.6	C
8	Rubidoux Blvd at 24th St	U	62.6	F	214.2	F
9	Market St at Hall Ave	U	33.0	D	30.8	D
10	Hall Ave at 24th St	U	7.9	A	9.1	A
11	Market St at 24th St/Via Cerro	S	23.0	C	37.1	D
12	Rubidoux Blvd at 26th St	U	33.9	D	41.9	E
13	Hall Ave at 26th St	U	9.9	A	11.3	B
14	Rubidoux Blvd at 28th St	S	7.7	A	8.7	A
15	Hall Ave at 28th St	U	7.4	A	7.9	A
16	Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp	S	15.8	B	18.5	B
17	Rubidoux Blvd at SR-60 WB On-Ramp	U	29.9	D	20.9	C
18	Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd	S	21.9	C	18.7	B
19	Frontage Rd at SR-60 EB On-Ramp	U	15.1	C	10.6	B
20	Market St at Rivera St	S	13.5	B	16.7	B
21	Market St at SR-60 WB Ramps	S	8.9	A	13.3	B
22	Market St at SR-60 EB Ramps	S	19.9	B	18.1	B
23	Rubidoux Blvd at 34th St	S	11.0	B	12.8	B
24	Wallace St at 34th St	U	7.8	A	9.0	A
25	Crestmore Rd at 34th St	U	8.9	A	9.6	A
26	Wallace St at 36th St	U	9.8	A	9.4	A
27	Crestmore Rd at 36th St	U	9.1	A	8.6	A
28	Valley Way at Mission Blvd	S	34.8	C	30.3	C
29	Golden Ave at Mission Blvd	S	11.5	B	10.9	B
30	Opal St at Mission Blvd	S	18.7	B	13.6	B
31	Pacific Ave at Mission Blvd	S	21.5	C	17.4	B
32	La Rue St at Mission Blvd	S	15.5	B	8.7	A

TABLE 1
SUMMARY OF INTERSECTION OPERATION
EXISTING CONDITIONS

Int. #	Intersection	Traffic Control	AM Peak Hour		PM Peak Hour	
			Delay	LOS	Delay	LOS
33	Riverview Dr at Mission Blvd	S	44.0	D	47.1	D
34	Rubidoux Blvd at Mission Blvd	S	42.8	D	47.7	D
35	Wallace St at Mission Blvd	S	10.9	B	15.1	B
36	Crestmore Rd at Mission Blvd	S	22.3	C	43.4	D
37	Riverview Dr at 42nd St	S	20.3	C	21.3	C
38	Riverview Dr/Limonite Ave at Pacific Ave	S	11.7	B	11.8	B
39	Limonite Ave at Avenue San Juan Bautista	S	21.8	C	19.9	B
40	Camino Real at Limonite Ave	S	33.2	C	36.6	D

Notes:

- Bold values indicate intersections operating at an unacceptable Level of Service
- Intersection operation is based on average intersection delay for signalized intersections.
- Delay values for unsignalized intersections represent the average vehicle delay on the worst (highest delay) intersection approach.

PROJECT TRAFFIC

Project Trip Generation

Trip generation estimates for the project are based on daily and peak hourly trip generation rates obtained from the Institute of Transportation Engineers (ITE) Trip Generation Manual (11th Edition). ITE trip generation estimates for the project are based on the trip generation rates for the following ITE Land Uses:

- Warehousing (Land Use 150)
- High-Cube Fulfillment Center Warehouse (Land Use 155)
- High-Cube Cold Storage Warehouse (Land Use 157)
- Multifamily Housing (Low Rise) (Land Use 220)
- Hotel (Land Use 310)
- Public Park (Land Use 411)
- Business Park (Land Use 770)
- Free Standing Discount Store (Land Use 815)
- Shopping Center (>150k) (Land Use 820)
- Supermarket (Land Use 850)
- Furniture Store (Land Use 890)
- Fast-Food Restaurant w/ Drive-thru (Land Use 934)

Not all trips from the project are anticipated to be new. Some trips are expected to be captured by the internal land uses, or from the existing flow of traffic passing the site. Internal capture and pass-by trip reductions were applied to the project based on methodology within the ITE Trip Generation Manual (11th Edition) and the National Cooperative Highway Research Program (NCHRP) 684 Internal Trip Capture Estimation Tool.

Trip generation rates and the resulting trip generation estimates for the Districts at Jurupa Valley are summarized on Table 2A and 2B for the project's Phase 1 and Phase 2, respectively. Internal capture worksheets are included in *Appendix D*.

After applying internal capture, pass-by, and PCE, Phase 1 of the project is estimated to generate 21,597 daily PCE trips, 1,371 PCE trips (912 inbound and 459 outbound) in the morning peak hour and 1,695 PCE trips (707 inbound and 988 outbound) in the evening peak hour.

Phase 2 of the project is expected to be completed in 2026. After applying internal capture, pass-by, and PCE, the total project is expected to generate 36,525 daily PCE trips, 1,964 PCE trips (1,159 inbound and 805 outbound) in the morning peak hour and 2,893 PCE trips (1,366 inbound and 1,527 outbound) in the evening peak hour.

TABLE 2A
SUMMARY OF PROJECT TRIP GENERATION ESTIMATES
THE DISTRICTS AT JURUPA VALLEY - PHASE 1

Land Use	Quantity	Unit	Trip Generation Estimates								
			Daily	AM Peak Hour			PM Peak Hour				
				In	Out	Total	In	Out	Total		
Industrial Uses											
Warehousing	750.00	KSF	1,283	98	29	127	38	98	136		
Passenger Vehicles (73%)			937	72	21	93	28	72	100		
Trucks (27%)			346	26	8	34	10	26	36		
High-Cube Fulfillment Center Warehouse (Non-Sort)	300.00	KSF	543	37	9	46	19	29	48		
Passenger Vehicles (92%)			500	34	8	42	17	27	44		
Trucks (8%)			43	3	1	4	2	2	4		
High-Cube Fulfillment Center Warehouse (Sort)	300.00	KSF	1,932	212	50	262	140	220	360		
Passenger Vehicles (97%)			1874	206	49	255	136	213	349		
Trucks (3%)			58	6	2	8	4	7	11		
High-Cube Cold Storage Warehouse	150.00	KSF	318	13	4	17	5	13	18		
Passenger Vehicles (55.3%)			176	7	2	9	3	7	10		
Trucks (44.7%)			142	6	2	8	2	6	8		
Total Industrial Passenger Car Trips			3,487	319	80	399	184	319	503		
Total Industrial Truck Trips			589	41	13	54	18	41	59		
Residential and Commercial Uses											
Multifamily Housing (Low-Rise)	298	DU	2,009	29	91	120	96	56	152		
Business Park	30.00	KSF	373	34	6	40	10	27	37		
Shopping Center (>150k)	200.00	KSF	7,402	104	64	168	326	354	680		
Furniture Store	100.00	KSF	630	19	8	27	24	28	52		
Furniture Warehousing	900.00	KSF	1,539	118	35	153	45	117	162		
Passenger Vehicles (73%)			1123	86	26	112	33	85	118		
Trucks (27%)			416	32	9	41	12	32	44		
Fast-Food Restaurant w/ Drive-thru	12.50	KSF	5,844	284	273	557	215	198	413		
Total Residential and Commercial Trips Before Internal Capture/Pass-by			17,797	588	477	1,065	716	780	1,496		
Internal Capture ¹ (Daily: 9%, AM: 9%, PM: 25%)			-1,373	-40	-40	-80	-157	-157	-314		
Pass-By Reduction for Shopping Center (PM: 25%) ²			-127	0	0	0	-60	-67	-127		
Pass-By Reduction for Fast-Food w/ Drive-thru (AM: 41%, PM: 25%) ²			-254	-90	-86	-176	-41	-37	-78		
Total Proposed Project Non-PCE Trips			20,119	818	444	1,262	660	879	1,539		
PROJECT TRIPS - PASSENGER CAR EQUIVALENTS (PCE)											
Vehicle Type	Truck Mix ³	Daily Vehicles	PCE Factor	Daily	AM Peak Hour			PM Peak Hour			
					In	Out	Total	In	Out	Total	
WAREHOUSING											
Passenger Vehicles		937	1.0	937	72	21	93	28	72	100	
2-Axle Trucks	4.6%	130	1.5	195	15	4	19	6	15	21	
3-Axle Trucks	6.1%	172	2.0	344	26	8	34	10	26	36	
4+ Axle Trucks	16.3%	460	3.0	1,380	106	31	137	41	105	146	
HIGH-CUBE FULFILLMENT CENTER WAREHOUSE (NON-SORT)											
Passenger Vehicles		500	1.0	500	34	8	42	17	27	44	
2-Axle Trucks	1.4%	8	1.5	12	1	0	1	0	1	1	
3-Axle Trucks	1.8%	10	2.0	20	1	0	1	1	1	2	
4+ Axle Trucks	4.8%	26	3.0	78	5	1	6	3	4	7	
HIGH-CUBE FULFILLMENT CENTER WAREHOUSE (SORT)											
Passenger Vehicles		1,874	1.0	1,874	206	49	255	136	213	349	
2-Axle Trucks	0.5%	10	1.5	15	2	0	2	1	2	3	
3-Axle Trucks	0.7%	14	2.0	28	3	1	4	2	3	5	
4+ Axle Trucks	1.8%	35	3.0	105	11	3	14	8	12	20	
HIGH-CUBE COLD STORAGE WAREHOUSE⁴											
Passenger Vehicles		176	1.0	176	7	2	9	3	7	10	
2-Axle Trucks	15.5%	49	1.5	74	3	1	4	1	3	4	
3-Axle Trucks	4.9%	16	2.0	32	1	0	1	0	1	1	
4+ Axle Trucks	24.3%	77	3.0	231	9	3	12	4	9	13	
Total Truck PCE Trips				2,514	183	52	235	77	182	259	
Total Proposed Project PCE Trips				21,628	928	474	1,402	707	988	1,695	
¹ Source: Institute of Transportation Engineers publication: Trip Generation Manual , 11th Edition											
² See Internal Capture Worksheets. Maximum internal capture was capped at 25%. Maximum combined internal capture and pass-by percentage was capped at 50%.											
³ Truck percentage based on Institute of Transportation Engineers (ITE) Trip Generation Manual - Supplement , 10th Edition and truck splits by axle-type based on the Truck Trip Generation Study - City of Fontana, August 2003. See attachment G for truck split calculations.											
⁴ Source: SCAQMD Warehouse Truck Trip Study (July 2014)											

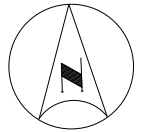
TABLE 2B
SUMMARY OF PROJECT TRIP GENERATION ESTIMATES
THE DISTRICTS AT JURUPA VALLEY - PHASE 2

Land Use	Quantity	Unit	Trip Generation Estimates								
			Daily	AM Peak Hour			PM Peak Hour				
				In	Out	Total	In	Out	Total		
Industrial Uses											
Warehousing	750.00	KSF	1,283	98	29	127	38	98	136		
Passenger Vehicles (73%)			937	72	21	93	28	72	100		
Trucks (27%)			346	26	8	34	10	26	36		
High-Cube Fulfillment Center Warehouse (Non-Sort)	300.00	KSF	543	37	9	46	19	29	48		
Passenger Vehicles (92%)			500	34	8	42	17	27	44		
Trucks (8%)			43	3	1	4	2	2	4		
High-Cube Fulfillment Center Warehouse (Sort)	300.00	KSF	1,932	212	50	262	140	220	360		
Passenger Vehicles (97%)			1874	206	49	255	136	213	349		
Trucks (3%)			58	6	2	8	4	7	11		
High-Cube Cold Storage Warehouse	150.00	KSF	318	13	4	17	5	13	18		
Passenger Vehicles (55.3%)			176	7	2	9	3	7	10		
Trucks (44.7%)			142	6	2	8	2	6	8		
Total Industrial Passenger Car Trips			3,487	319	80	399	184	319	503		
Total Industrial Truck Trips			589	41	13	54	18	41	59		
Residential and Commercial Uses											
Multifamily Housing (Low-Rise)	1,192	DU	8,034	114	362	476	383	225	608		
Hotel	160	Room	1,278	41	32	73	48	46	94		
Public Park	10	Acre	8	0	0	0	1	1	2		
Business Park	30.00	KSF	373	34	6	40	10	27	37		
Free Standing Discount Store	120.00	KSF	6,464	99	42	141	292	292	584		
Shopping Center (>150K)	200.00	KSF	7,402	104	64	168	326	354	680		
Supermarket	40.00	KSF	3,754	67	47	114	179	179	358		
Furniture Store	100.00	KSF	630	19	8	27	24	28	52		
Furniture Warehousing	900.00	KSF	1,539	118	35	153	45	117	162		
Passenger Vehicles (73%)			1123	86	26	112	33	85	118		
Trucks (27%)			416	32	9	41	12	32	44		
Fast-Food Restaurant w/ Drive-thru	12.50	KSF	5,844	284	273	557	215	198	413		
Total Residential and Commercial Trips Before Internal Capture/Pass-by			35,326	880	869	1,749	1,523	1,467	2,990		
Internal Capture ¹ (Daily: 15%, AM: 15%, PM: 25%)			-3,947	-106	-106	-190	-271	-271	-484		
Pass-By Reduction for Shopping Center (PM: 25%) ²			-127	0	0	0	-60	-67	-127		
Pass-By Reduction for Supermarket (PM: 25%) ²			-68	0	0	0	-34	-34	-68		
Pass-By Reduction for Fast-Food w/ Drive-thru (AM: 35%, PM: 25%) ²			-244	-85	-81	-166	-41	-37	-78		
Total Residential and Commercial Passenger Car Trips			30,524	657	673	1,330	1,105	1,026	2,131		
Total Residential and Commercial Truck Trips			416	32	9	41	12	32	44		
Total Proposed Project Non-PCE Trips			35,016	1,049	775	1,824	1,319	1,418	2,737		
PROJECT TRIPS - PASSENGER CAR EQUIVALENTS (PCE)											
Vehicle Type	Truck Mix ³	Daily Vehicles	PCE Factor	Daily	AM Peak Hour			PM Peak Hour			
					In	Out	Total	In	Out	Total	
WAREHOUSING											
Passenger Vehicles		937	1.0	937	72	21	93	28	72	100	
2-Axle Trucks	4.6%	130	1.5	195	15	4	19	6	15	21	
3-Axle Trucks	6.1%	172	2.0	344	26	8	34	10	26	36	
4+ Axle Trucks	16.3%	460	3.0	1,380	106	31	137	41	105	146	
HIGH-CUBE FULFILLMENT CENTER WAREHOUSE (NON-SORT)											
Passenger Vehicles		500	1.0	500	34	8	42	17	27	44	
2-Axle Trucks	1.4%	8	1.5	12	1	0	1	0	1	1	
3-Axle Trucks	1.8%	10	2.0	20	1	0	1	1	1	2	
4+ Axle Trucks	4.8%	26	3.0	78	5	1	6	3	4	7	
HIGH-CUBE FULFILLMENT CENTER WAREHOUSE (SORT)											
Passenger Vehicles		1,874	1.0	1,874	206	49	255	136	213	349	
2-Axle Trucks	0.5%	10	1.5	15	2	0	2	1	2	3	
3-Axle Trucks	0.7%	14	2.0	28	3	1	4	2	3	5	
4+ Axle Trucks	1.8%	35	3.0	105	11	3	14	8	12	20	
HIGH-CUBE COLD STORAGE WAREHOUSE⁴											
Passenger Vehicles		176	1.0	176	7	2	9	3	7	10	
2-Axle Trucks	15.5%	49	1.5	74	3	1	4	1	3	4	
3-Axle Trucks	4.9%	16	2.0	32	1	0	1	0	1	1	
4+ Axle Trucks	24.3%	77	3.0	231	9	3	12	4	9	13	
Total Truck PCE Trips				2,514	183	52	235	77	182	259	
Total Proposed Project PCE Trips				36,525	1,159	805	1,964	1,366	1,527	2,893	
Approved Project Trips (Emerald Meadows Ranch EIR)				21,702	704	992	1,696	1,143	883	2,026	
Net Project Trips (Proposed-Approved)				14,823	455	-187	268	223	644	867	
¹ Source: Institute of Transportation Engineers publication: Trip Generation Manual , 11th Edition ² See Internal Capture Worksheets. Maximum internal capture was capped at 25%. Maximum combined internal capture and pass-by percentage was capped at 50%. ³ Truck percentage based on Institute of Transportation Engineers (ITE) Trip Generation Manual - Supplement , 10th Edition and truck splits by axle-type based on the Truck Trip Generation Study - City of Fontana, August 2003. See attachment G for truck split calculations. ⁴ Source: SCAQMD Warehouse Truck Trip Study (July 2014)											

Compared to the approved Emerald Meadows Ranch EIR, the project is estimated to generate 14,823 more daily PCE trips, 268 more PCE trips (455 more inbound and 187 less outbound) in the morning peak hour, and 867 more PCE trips (223 more inbound and 644 more outbound) in the evening peak hour.

Trip Distribution and Assignment

Project trip distribution assumptions for the project site were developed taking into account the proposed site uses, existing travel patterns, and routes to and from the freeway system. Trip distributions were separated based on proposed land uses into four categories: industrial, residential, regional retail, and local retail. The industrial, residential, and regional retail land uses were assumed to utilize the freeway systems more frequently, while the local retail was assumed to typically make use of the local roadway network. Additionally, per discussion with City Staff, multiple truck route options were analyzed to access truck access and circulation to and from the project site. All land use trip distributions and truck routes were utilized in project Phase 1 and Phase 2. Trip distribution assumptions are shown on Figure 6. Based on the trip distribution and assignment assumptions, the new trips to be added to the street system by the proposed project were calculated and are shown on Figures 7 and 8 for Phase 1 and 2, respectively. Project trip distribution percentages and project trip assignment volumes for each intersection have been provided in *Appendix C*.



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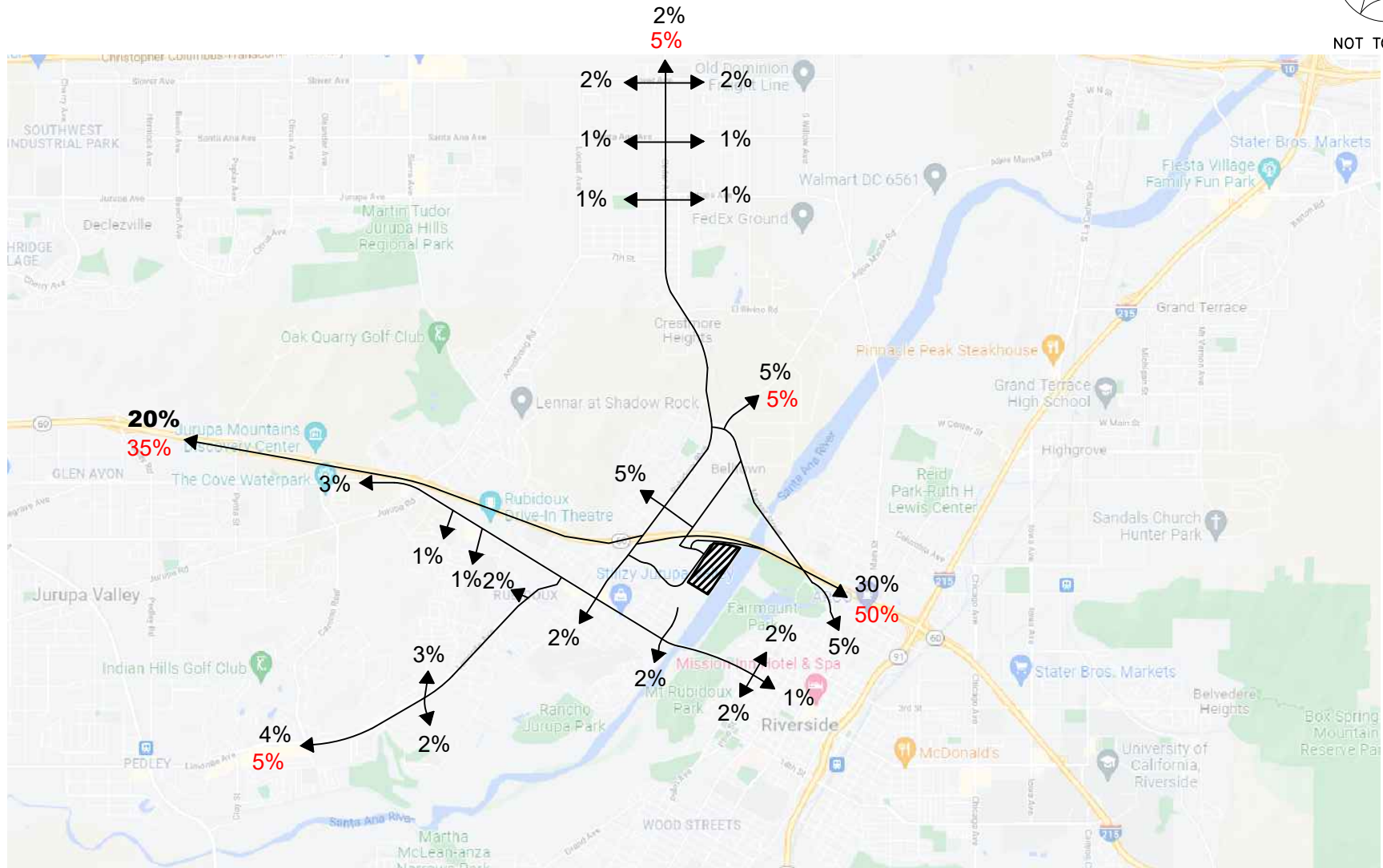
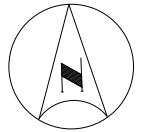


FIGURE 6A
PROJECT TRIP DISTRIBUTION (INDUSTRIAL)

LEGEND:
 (XX%) = Passenger Car Distribution
 (YY%) = Truck Distribution





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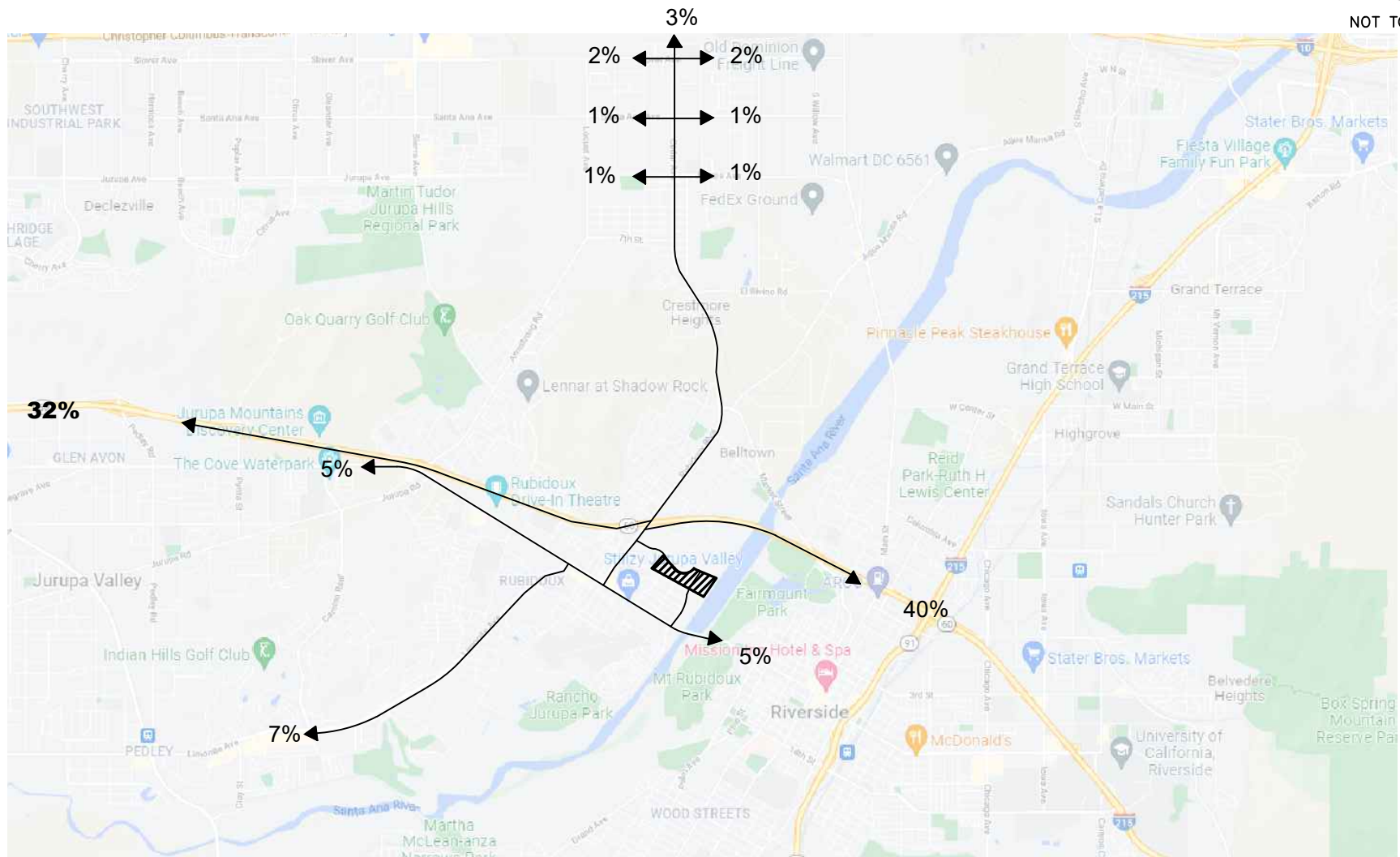
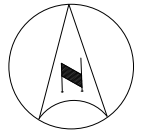


FIGURE 6B
PROJECT TRIP DISTRIBUTION (SOUTHERN RESIDENTIAL)

LEGEND:
 (XX%) = Passenger Car Distribution
 (YY%) = Truck Distribution





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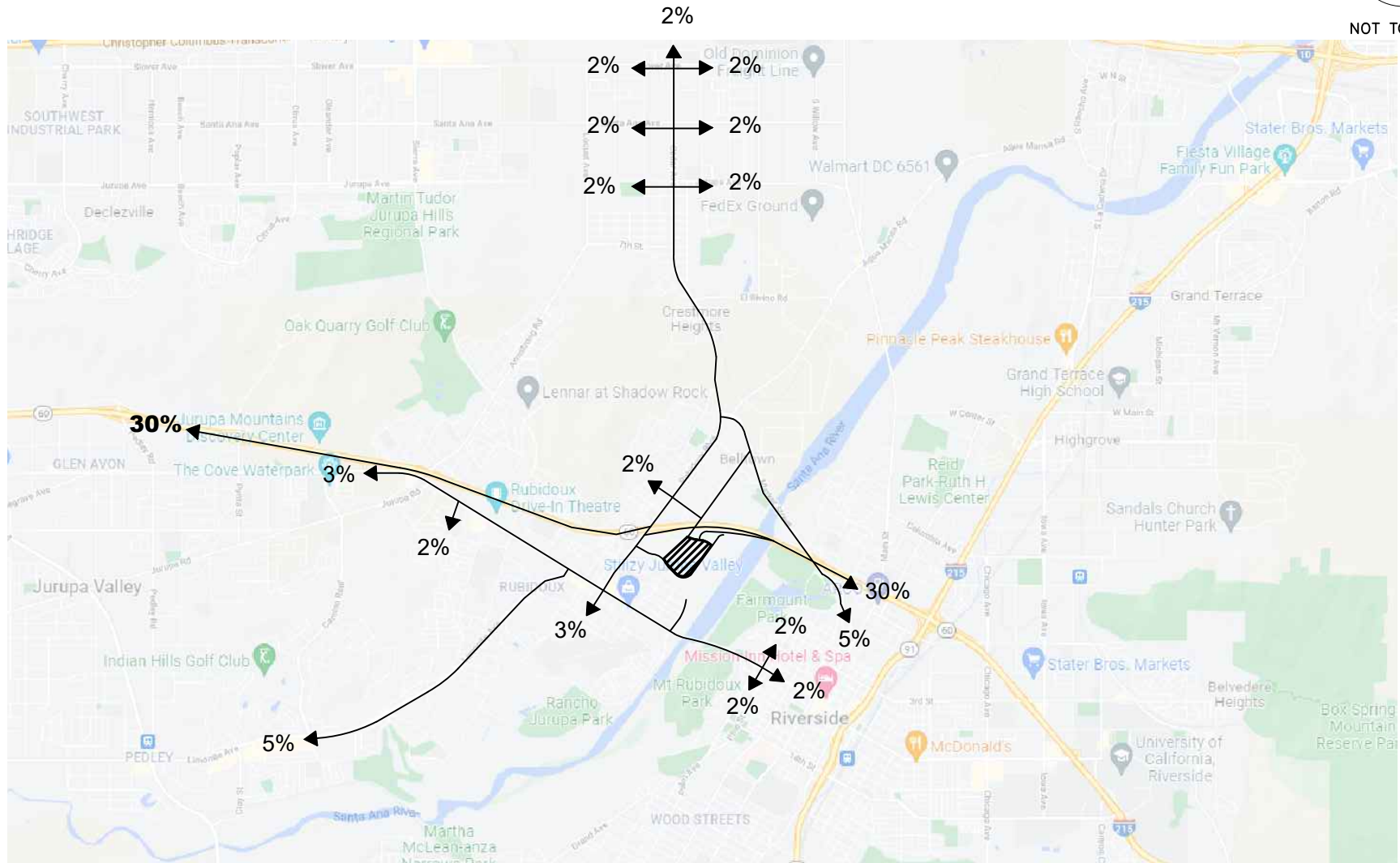
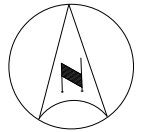


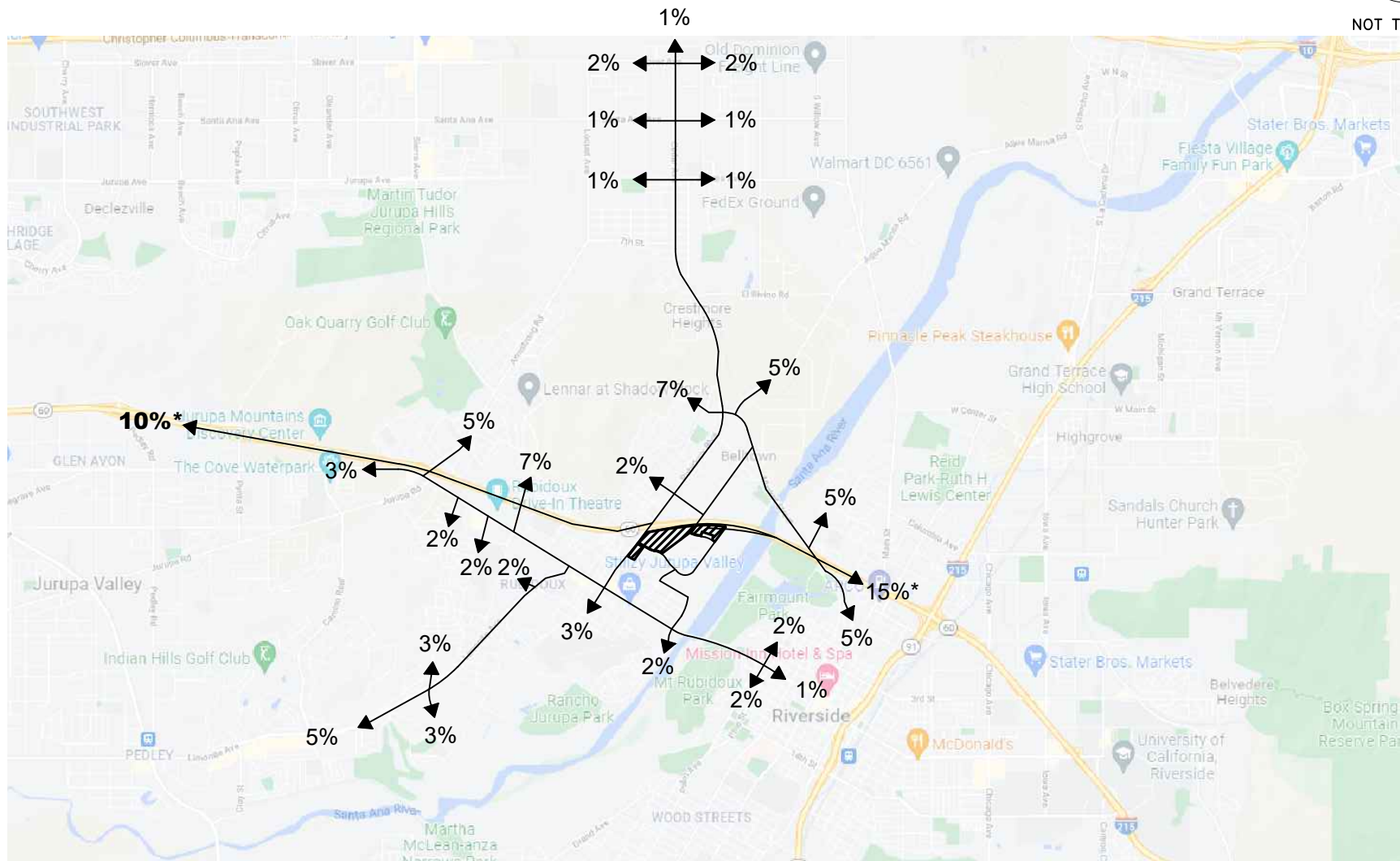
FIGURE 6C
PROJECT TRIP DISTRIBUTION (REGIONAL RETAIL)

LEGEND:
 (XX%) = Passenger Car Distribution
 (YY%) = Truck Distribution





NOT TO SCALE

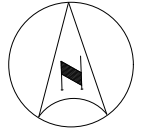


* = Freeway trips are attributed to diverted link trips, which credit was not taken for in the Trip Generation.

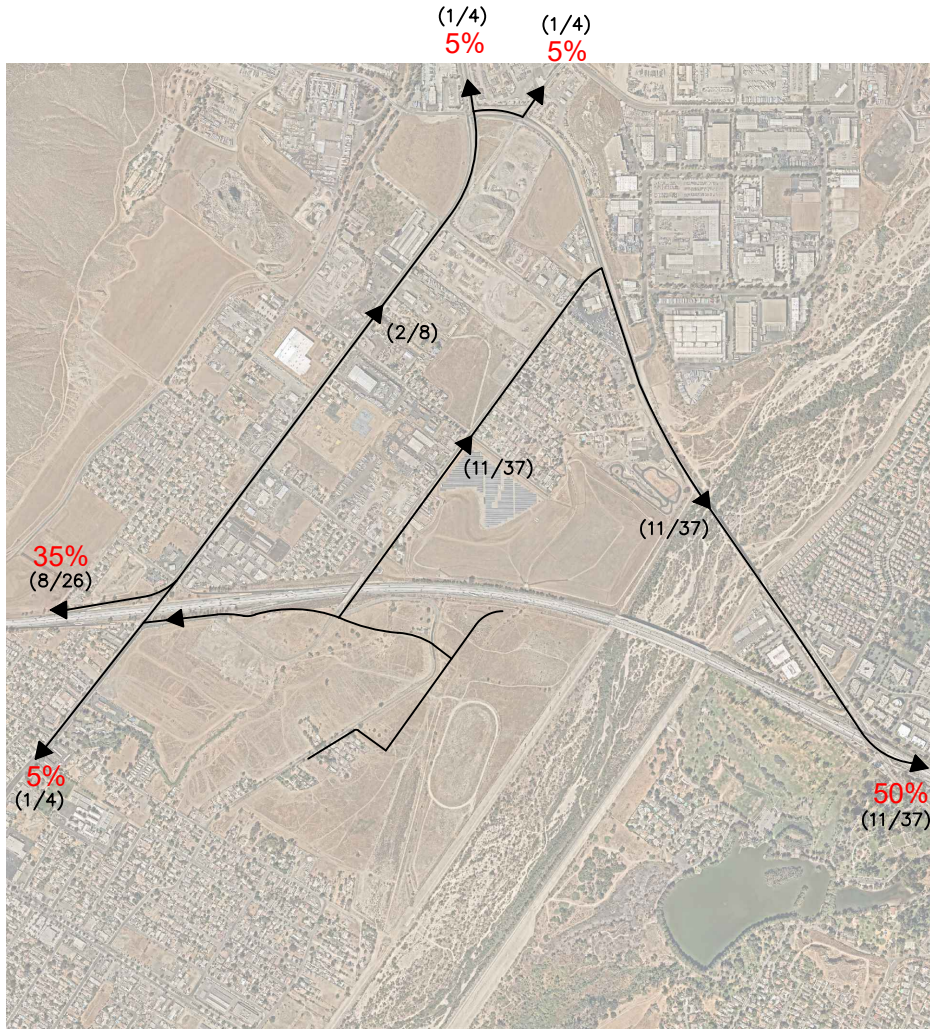
FIGURE 6D
PROJECT TRIP DISTRIBUTION (LOCAL RETAIL)

LEGEND:
 (XX%) = Passenger Car Distribution
 (YY%) = Truck Distribution

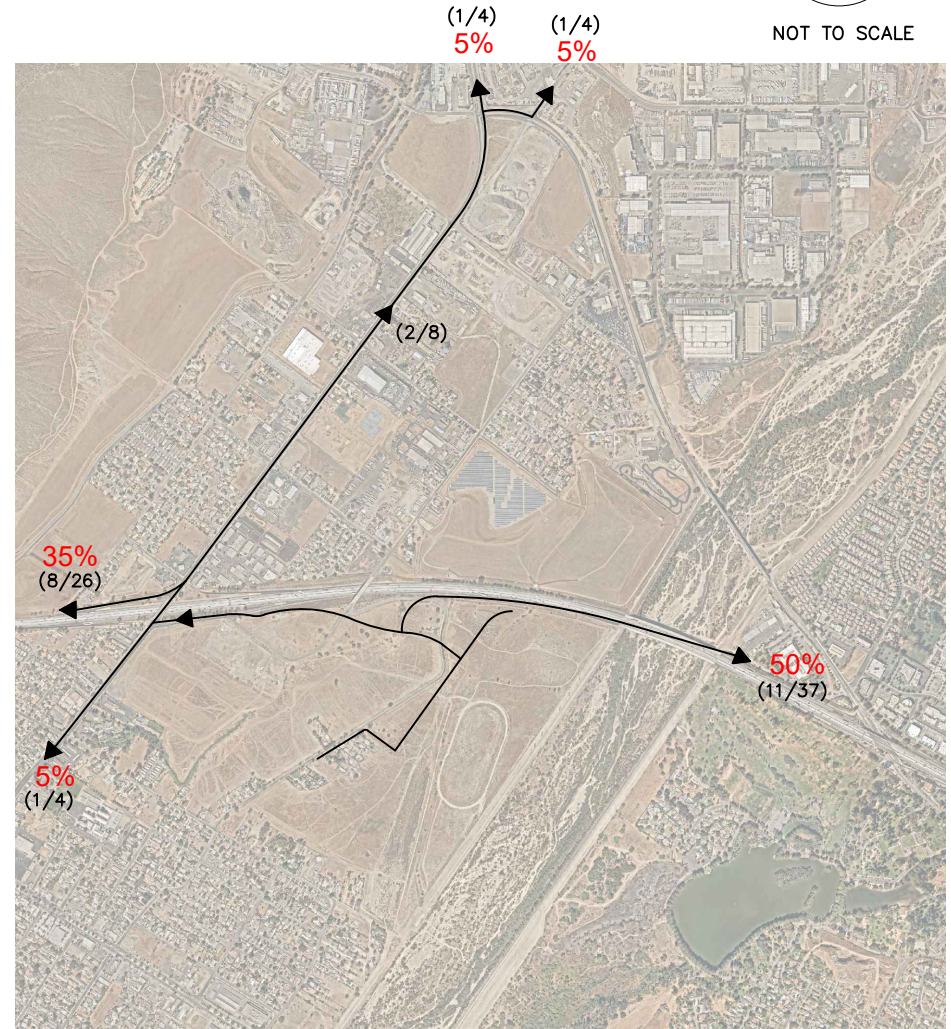




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WITHOUT HOOK RAMP
(PHASE 1 AND 2)



WITH HOOK RAMP (PHASE 2)

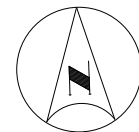
FIGURE 6E
TRUCK ACCESS AND CIRCULATION (OUTBOUND OPTION 1)

LEGEND:

X% ← = Truck Distribution

(XX/YY) = AM/PM Peak Hour Truck Volumes





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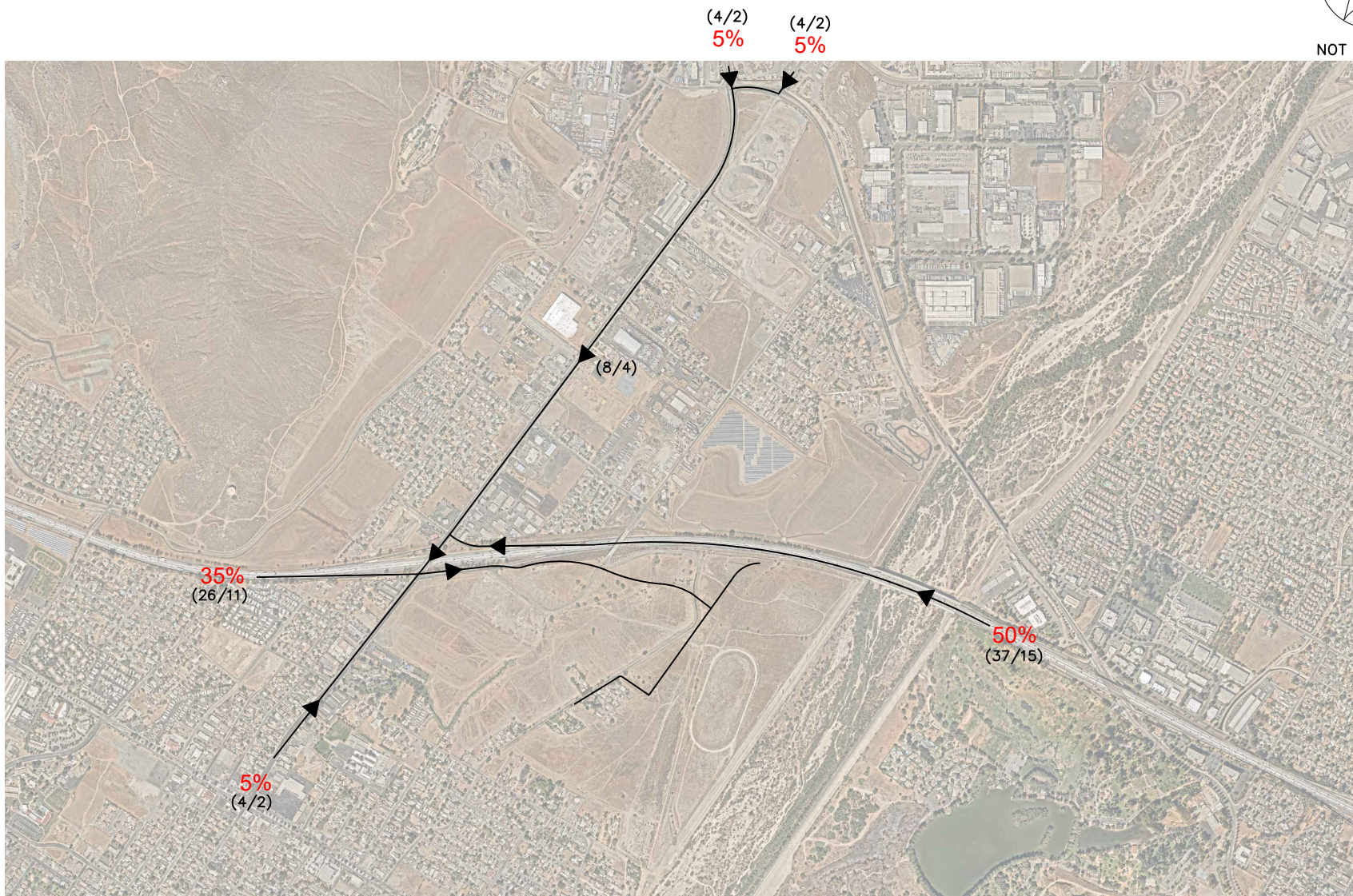


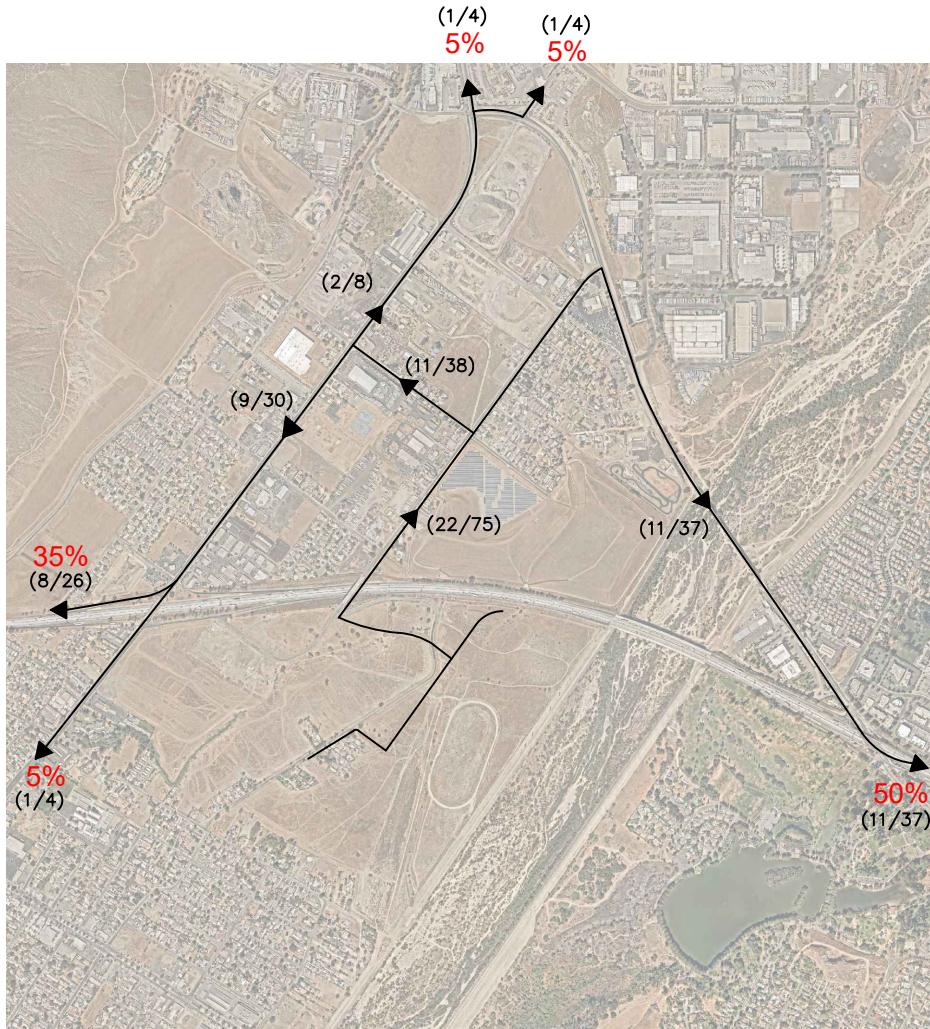
FIGURE 6F
TRUCK ACCESS AND CIRCULATION (INBOUND OPTION 1)

LEGEND:
X% ← = Truck Distribution
(XX/YY) = AM/PM Peak Hour Truck Volumes

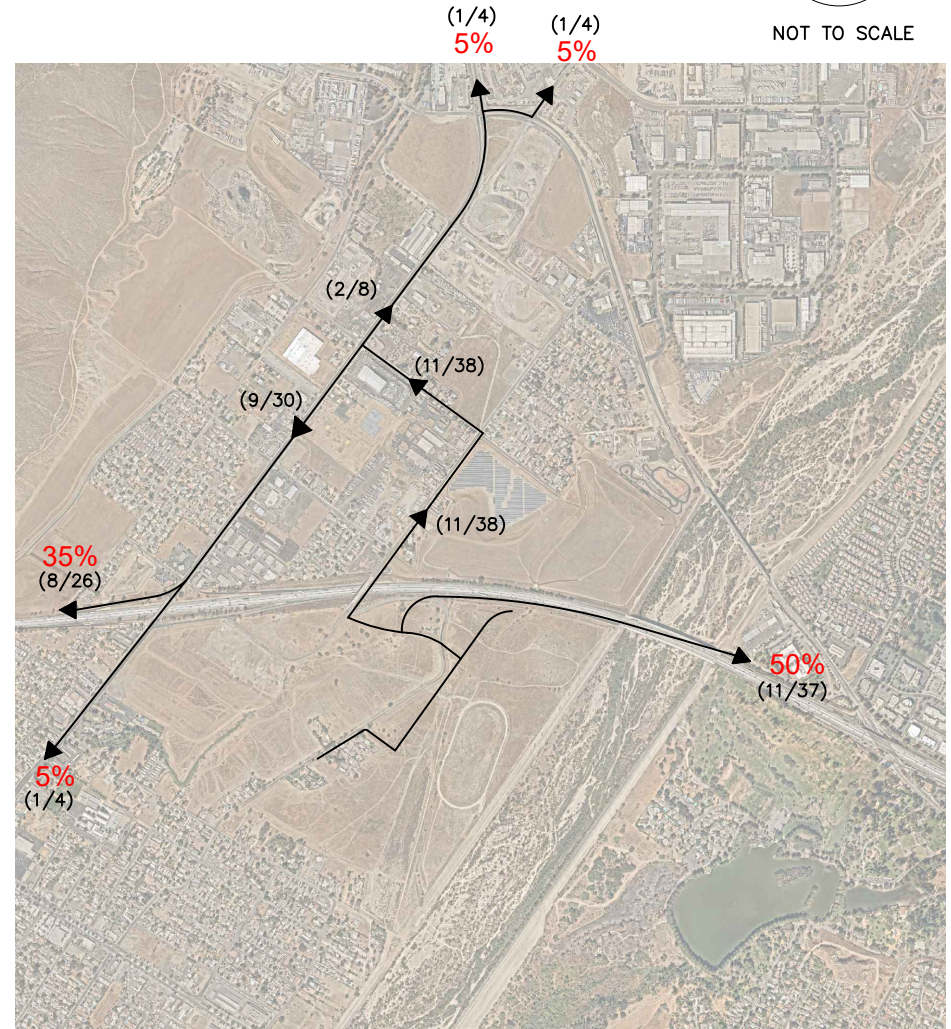




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WITHOUT HOOK RAMP
(PHASE 1 AND 2)

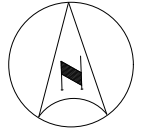


WITH HOOK RAMP (PHASE 2)

FIGURE 6G
TRUCK ACCESS AND CIRCULATION (OUTBOUND OPTION 2)

LEGEND:
 X% ← = Truck Distribution
 (XX/YY) = AM/PM Peak Hour Truck Volumes





NOT TO SCALE

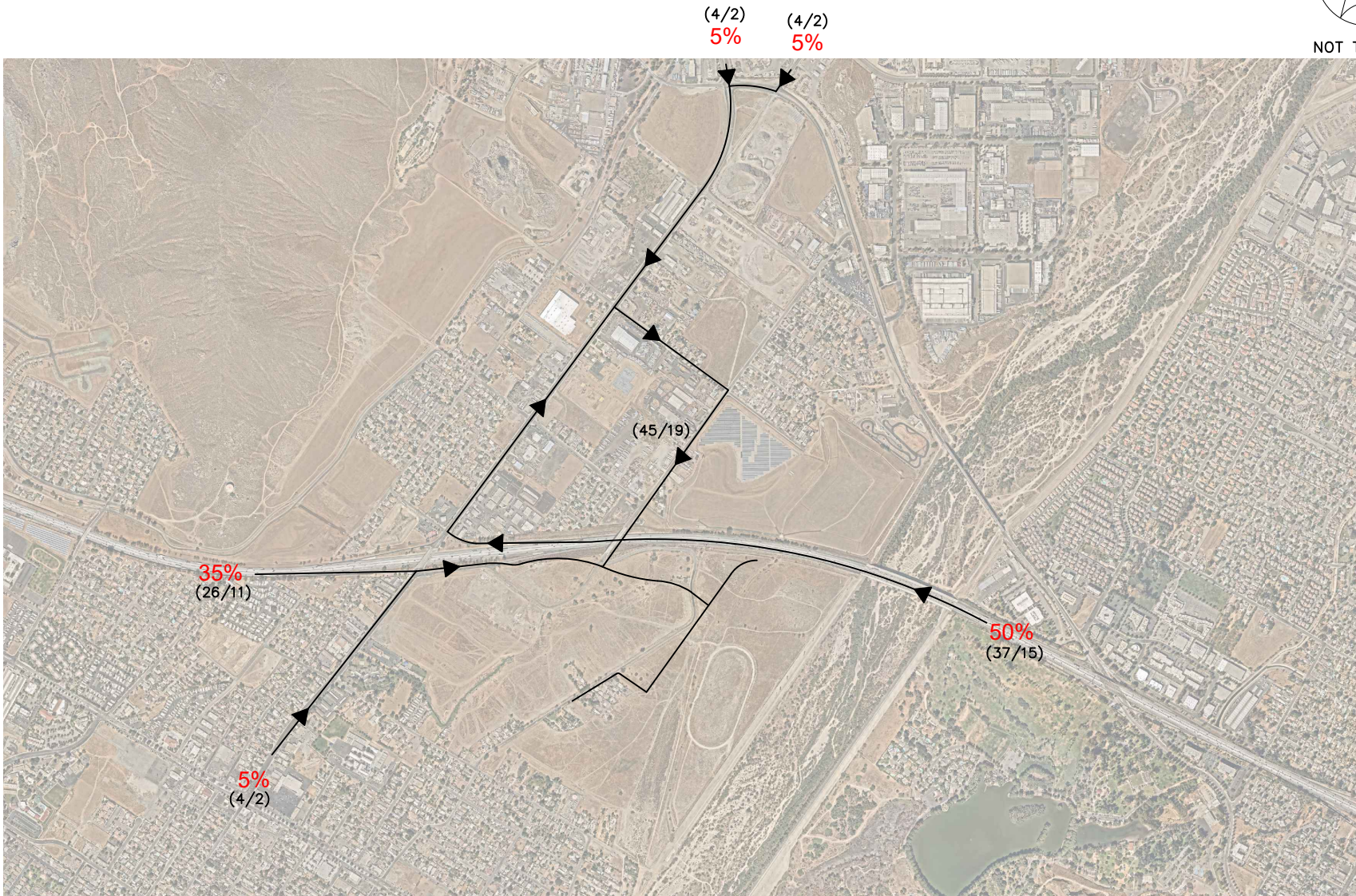


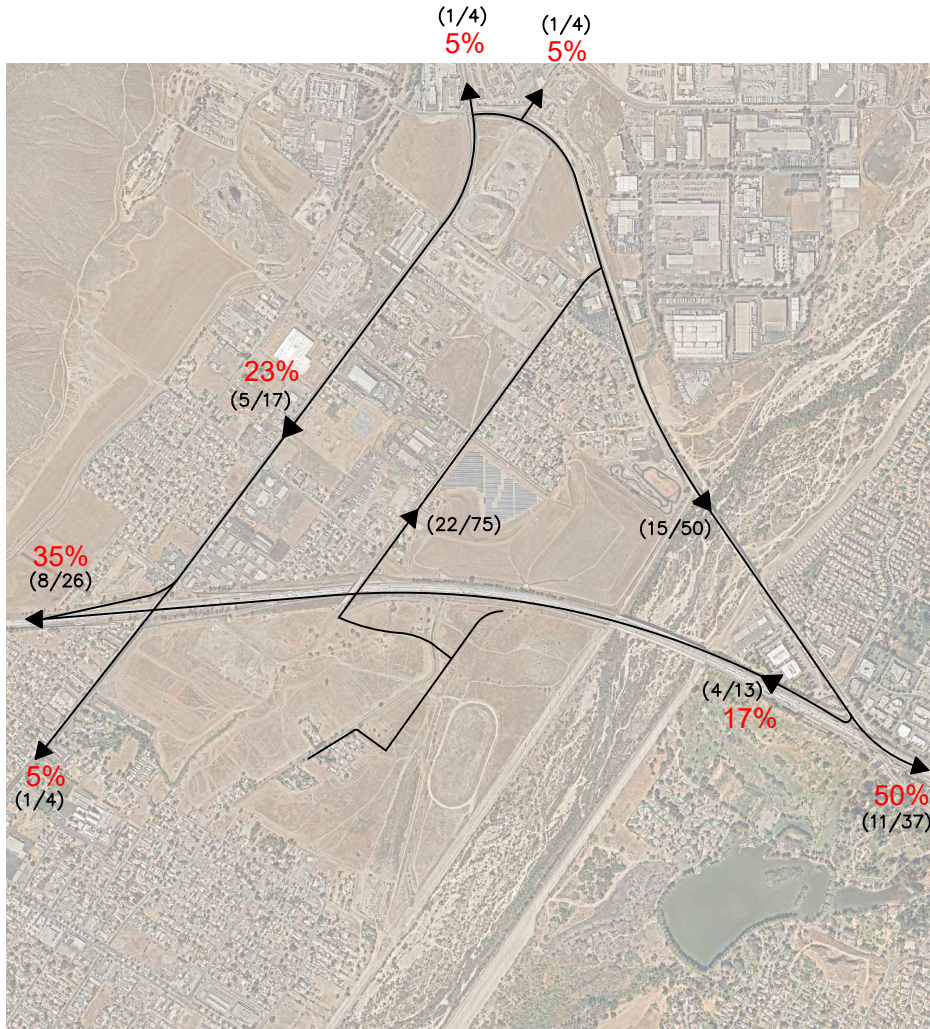
FIGURE 6H
TRUCK ACCESS AND CIRCULATION (INBOUND OPTION 2)

LEGEND:
X% ← = Truck Distribution
(XX/YY) = AM/PM Peak Hour Truck Volumes

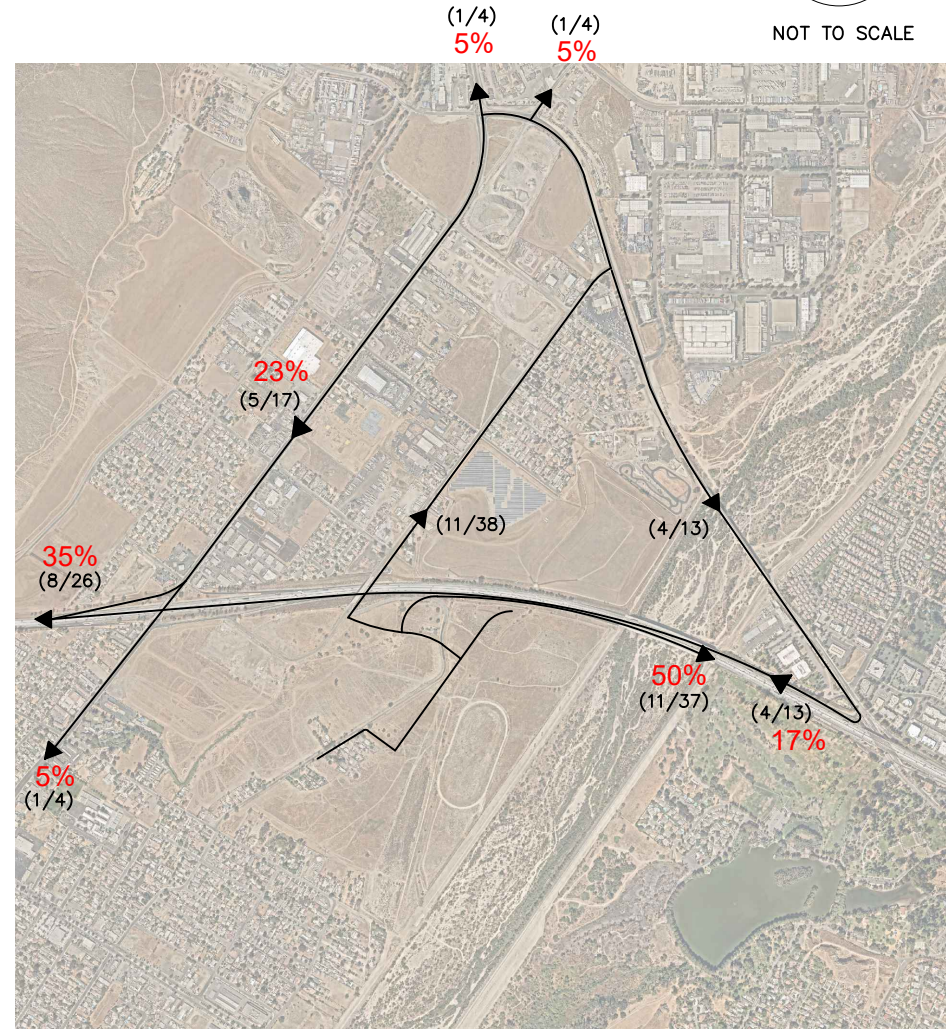




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WITHOUT HOOK RAMP
(PHASE 1 AND 2)



WITH HOOK RAMP (PHASE 2)

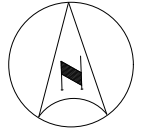
FIGURE 6I
TRUCK ACCESS AND CIRCULATION (OUTBOUND OPTION 3)

LEGEND:

X% ← = Truck Distribution

(XX/YY) = AM/PM Peak Hour Truck Volumes





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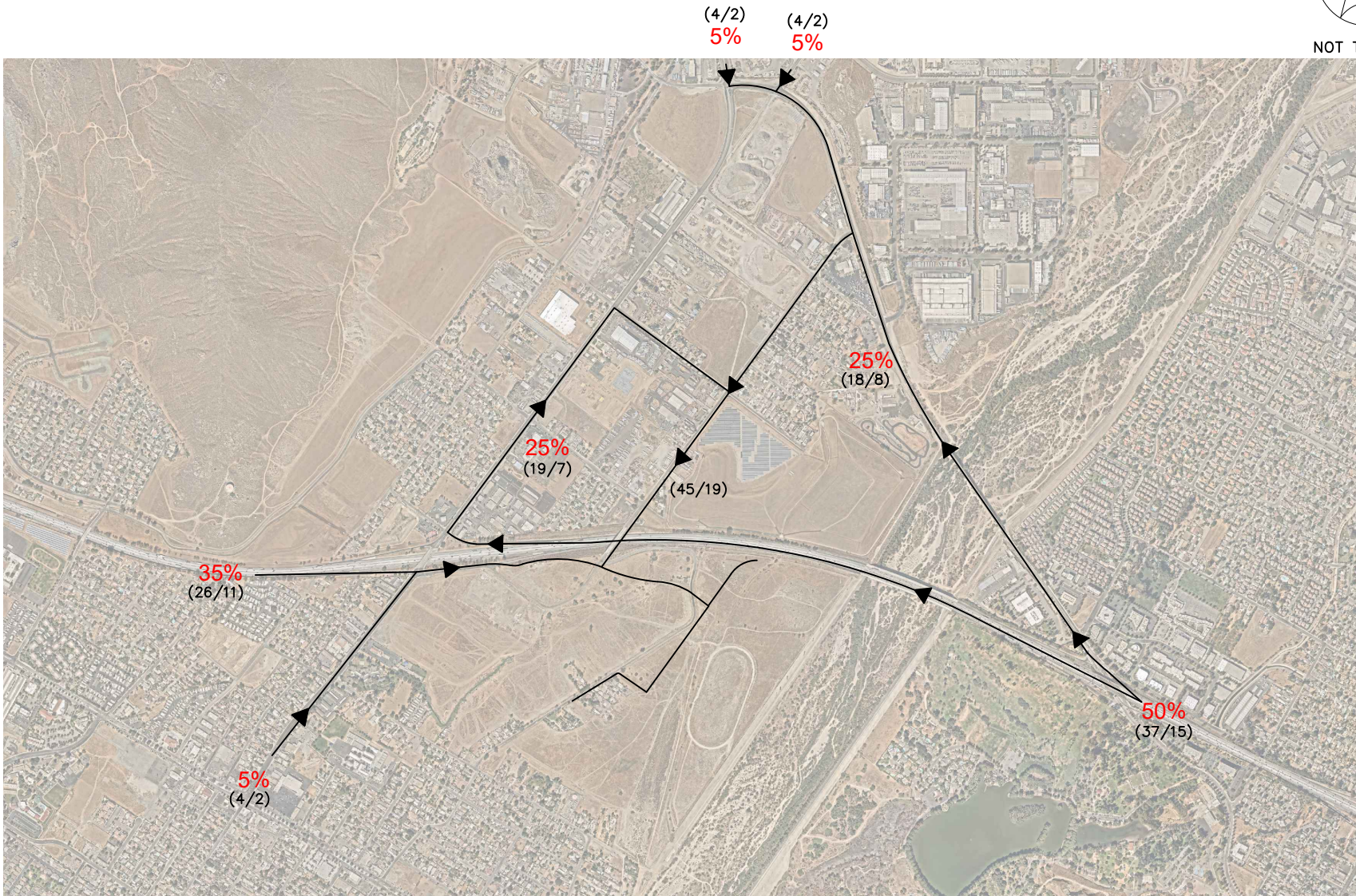
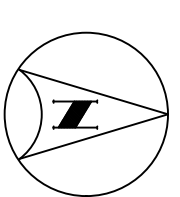


FIGURE 6J
TRUCK ACCESS AND CIRCULATION (INBOUND OPTION 3)

LEGEND:

- X% ← = Truck Distribution
- (XX/YY) = AM/PM Peak Hour Truck Volumes



NOT TO SCALE






1. Ceder Ave at Slover Ave	21/21 ← 14/14 ↖ ↗ ↘ ↙ 9/9 11/11 6/6	14/14 ↖ 9/9 11/11 6/6	49/49 ←	7/7 ←	63/63 ←	77/77 ←	77/77 ←	77/77 ←	77/77 ←
2. Cedar Ave at Santa Ana Ave	49/49 ←	7/7 ←	7/7 ↖ 5/5 29/29 5/5	7/7 ↖ 5/5 39/39 5/5	77/77 ←	77/77 ←	77/77 ←	77/77 ←	77/77 ←
3. Cedar Ave at Jurupa Ave	63/63 ←	7/7 ←	7/7 ↖ 5/5 39/39 5/5	7/7 ↖ 5/5 39/39 5/5	77/77 ←	77/77 ←	77/77 ←	77/77 ←	77/77 ←
4. Cedar Ave at Tarragona Dr/El Rivino Rd	77/77 ←	77/77 ←	77/77 ←	77/77 ←	77/77 ←	77/77 ←	77/77 ←	77/77 ←	77/77 ←
5. Rubidoux Blvd at Agua Mansa Commerce Park Driveway	77/77 ←	77/77 ←	77/77 ←	77/77 ←	77/77 ←	77/77 ←	77/77 ←	77/77 ←	77/77 ←
6. Rubidoux Blvd at Market St/20th St	77/77 ←	77/77 ←	77/77 ←	77/77 ←	77/77 ←	77/77 ←	77/77 ←	77/77 ←	77/77 ←
7. Agua Mansa Rd at Market St	77/77 ←	77/77 ←	77/77 ←	77/77 ←	77/77 ←	77/77 ←	77/77 ←	77/77 ←	77/77 ←
8. Rubidoux Blvd at 24th St	77/77 ←	77/77 ←	77/77 ←	77/77 ←	77/77 ←	77/77 ←	77/77 ←	77/77 ←	77/77 ←
9. Market St at Hall Ave	77/77 ←	77/77 ←	77/77 ←	77/77 ←	77/77 ←	77/77 ←	77/77 ←	77/77 ←	77/77 ←
10. Hall Ave at 24th Street	24/24 ←	8/8 ←	8/8 ↖ 8/8 ↘	8/8 ↖ 8/8 ↘	8/8 ←	8/8 ←	8/8 ←	8/8 ←	8/8 ←
11. Market St at 24th St/Via Cerro	49/49 ←	8/8 ↖ 8/8 ↘	8/8 ↖ 8/8 ↘	8/8 ←	8/8 ←	8/8 ←	8/8 ←	8/8 ←	8/8 ←
12. Rubidoux Blvd at 26th St	115/115 ←	76/76 →	76/76 →	76/76 →	76/76 →	76/76 →	76/76 →	76/76 →	76/76 →
13. Hall Ave at 26th St	32/32 ←	53/53 →	53/53 →	53/53 →	53/53 →	53/53 →	53/53 →	53/53 →	53/53 →
14. Rubidoux Blvd at 28th St	101/101 ← 14/14 ↖ 5/5 ↘	2/2 ↖ 21/21 ↘ 9/9 71/71 ↖ 5/5 ↘	2/2 ↖ 21/21 ↘ 9/9 71/71 ↖ 5/5 ↘	2/2 ↖ 21/21 ↘ 9/9 71/71 ↖ 5/5 ↘	2/2 ↖ 21/21 ↘ 9/9 71/71 ↖ 5/5 ↘	2/2 ↖ 21/21 ↘ 9/9 71/71 ↖ 5/5 ↘	2/2 ↖ 21/21 ↘ 9/9 71/71 ↖ 5/5 ↘	2/2 ↖ 21/21 ↘ 9/9 71/71 ↖ 5/5 ↘	2/2 ↖ 21/21 ↘ 9/9 71/71 ↖ 5/5 ↘
15. Hall Ave at 28th St	32/32 ←	16/16 ↖ 5/5 ↘ 53/53 ↖ 5/5 ↘	16/16 ↖ 5/5 ↘ 53/53 ↖ 5/5 ↘	16/16 ↖ 5/5 ↘ 53/53 ↖ 5/5 ↘	16/16 ↖ 5/5 ↘ 53/53 ↖ 5/5 ↘	16/16 ↖ 5/5 ↘ 53/53 ↖ 5/5 ↘	16/16 ↖ 5/5 ↘ 53/53 ↖ 5/5 ↘	16/16 ↖ 5/5 ↘ 53/53 ↖ 5/5 ↘	16/16 ↖ 5/5 ↘ 53/53 ↖ 5/5 ↘
16. Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp	122/122 ←	80/80 →	80/80 →	80/80 →	80/80 →	80/80 →	80/80 →	80/80 →	80/80 →
17. Rubidoux Blvd at SR-60 WB On-Ramp	431/431 ←	91/91 ↖ 80/80 ↘	91/91 ↖ 80/80 ↘	91/91 ↖ 80/80 ↘	91/91 ↖ 80/80 ↘	91/91 ↖ 80/80 ↘	91/91 ↖ 80/80 ↘	91/91 ↖ 80/80 ↘	91/91 ↖ 80/80 ↘
18. Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd	24/24 ←	8/8 ←	8/8 ←	8/8 ←	8/8 ←	8/8 ←	8/8 ←	8/8 ←	8/8 ←
19. 30th St at Frontage Rd/SR-60 EB On-Ramp	49/49 ←	8/8 ↖ 8/8 ↘	8/8 ↖ 8/8 ↘	8/8 ←	8/8 ←	8/8 ←	8/8 ←	8/8 ←	8/8 ←
20. Market St at Rivera St	49/49 ←	12/12 ↖ 16/16 ↘ 10/10 ↖ 10/10 ↘	12/12 ↖ 16/16 ↘ 10/10 ↖ 10/10 ↘	12/12 ↖ 16/16 ↘ 10/10 ↖ 10/10 ↘	12/12 ↖ 16/16 ↘ 10/10 ↖ 10/10 ↘	12/12 ↖ 16/16 ↘ 10/10 ↖ 10/10 ↘	12/12 ↖ 16/16 ↘ 10/10 ↖ 10/10 ↘	12/12 ↖ 16/16 ↘ 10/10 ↖ 10/10 ↘	12/12 ↖ 16/16 ↘ 10/10 ↖ 10/10 ↘
21. Market St at SR-60 WB Ramps	12/12 ↖ 49/49 ↘	17/17 ↖ 26/26 ↘	17/17 ↖ 26/26 ↘	17/17 ↖ 26/26 ↘	17/17 ↖ 26/26 ↘	17/17 ↖ 26/26 ↘	17/17 ↖ 26/26 ↘	17/17 ↖ 26/26 ↘	17/17 ↖ 26/26 ↘
22. Market St at SR-60 EB Ramps	10/10 ↖ 4/4 ↘ 45/45 ↖ 11/11 ↘	10/10 ↖ 4/4 ↘ 45/45 ↖ 11/11 ↘	10/10 ↖ 4/4 ↘ 45/45 ↖ 11/11 ↘	10/10 ↖ 4/4 ↘ 45/45 ↖ 11/11 ↘	10/10 ↖ 4/4 ↘ 45/45 ↖ 11/11 ↘	10/10 ↖ 4/4 ↘ 45/45 ↖ 11/11 ↘	10/10 ↖ 4/4 ↘ 45/45 ↖ 11/11 ↘	10/10 ↖ 4/4 ↘ 45/45 ↖ 11/11 ↘	10/10 ↖ 4/4 ↘ 45/45 ↖ 11/11 ↘
23. Rubidoux at 34th St	102/102 ←	172/172 →	172/172 →	172/172 →	172/172 →	172/172 →	172/172 →	172/172 →	172/172 →
24. Wallace St at 34th St	7/7 ←	28/28 →	28/28 →	28/28 →	28/28 →	28/28 →	28/28 →	28/28 →	28/28 →
128/128 ↖ 75/75 ↘	160/160 ↖ 271/271 ↘ 75/75 ↖ 22/22 ↘	100/100 ↖ 389/389 ↘	60/60 →	128/128 ↖ 75/75 ↘	128/128 ↖ 75/75 ↘	128/128 ↖ 75/75 ↘	128/128 ↖ 75/75 ↘	128/128 ↖ 75/75 ↘	128/128 ↖ 75/75 ↘

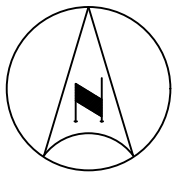
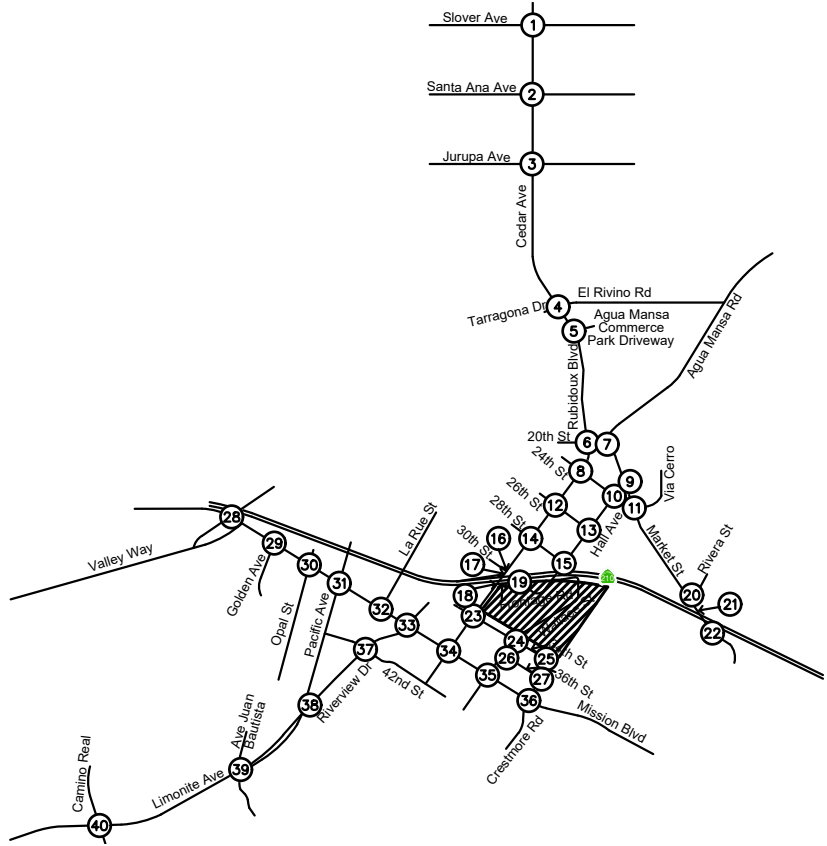
Note: Volumes reflect PCE adjustments.

FIGURE 7A
PROJECT-RELATED TRAFFIC VOLUMES (PHASE 1)
- OPTION 1

LEGEND:

-  = Project Site
-  = Study Intersection
-  = AM/PM Volumes





NOT TO SCALE

25. Crestmore Rd at 34th St		26. Wallace St at 36th St		27. Crestmore Rd at 36th St		28. Valley Way at Mission Blvd									
← 21/21		← 7/7		← 21/21		← 12/12 ← 10/10 ← 13/13									
19/19 →		28/28 →		19/19 →		24/24 →									
29. Golden Ave at Mission Blvd		30. Opal St at Mission Blvd		31. Pacific Ave at Mission Blvd		32. La Rue St at Mission Blvd		33. Riverview Dr at Mission Blvd							
← 23/23 ← 6/6		← 29/29 ← 5/5		← 17/17 ← 14/14 ← 34/34		← 48/48		← 48/48 ← 45/45							
36/36 → 10/10 ↗		46/46 → 8/8 ↗		54/54 →		71/71 →		71/71 → 84/84 ↗							
34. Rubidoux Blvd at Mission Blvd		35. Wallace St at Mission Blvd		36. Crestmore Rd at Mission Blvd		37. Riverview Dr at 42nd St		38. Riverview Dr/Limonite Ave at Pacific Ave		39. Limonite Ave at Avenue San Juan Bautista		40. Camino Real at Limonite Ave		41. Hall Ave at "A" St	
← 93/93 ← 9/9		← 7/7 ← 28/28		← 2/2 ← 19/19 ← 13/13 ← 23/23		← 6/6 ← 39/39		← 39/39		← 8/8 ← 23/23 ← 8/8 ← 13/13		← 23/23		← 48/48 ← 58/58 ← 60/60	
155/155 → 17/17 →				3/3 → 4/4 ↘ 5/5 → 6/6 →		11/11 ↗ 73/73 →		73/73 →		17/17 ↗ 43/43 →		43/43 →		389/389 →	
42. SR-60 SB On-Ramp at "A" St		43. Rubidoux Blvd at "B" St		44. Wallace St at "B" St		45. Rubidoux Blvd at Project Driveway		46. Industrial Driveway at "B" St		47. "A" St at "B" St					
← 118/118		← 31/31 ← 11/11 ← 66/66 ← 11/11		← 37/-44 ← 279/286 ← 202/230 ← 137/127		← 214/232 ← 14/14 ← 17/17 ← 119/119 ← 2/2		← 15/15 ← 1/1 ← 6/6 ← 18/18 ← 81/81		← 16/16 ← 22/22 ← 92/92 ← 14/14					
437/437 →		211/211 → 119/119 → 108/108 → 22/22 → 39/39 → 39/39 →		57/53 → 115/119 →		0/212 → 161/161 → 32/32 → 6/6 →		57/57 → 31/31 → 6/6 → 21/21 → 7/7 →		8/8 → 4/4 → 78/78 →					

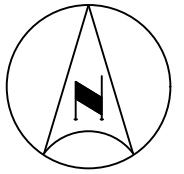
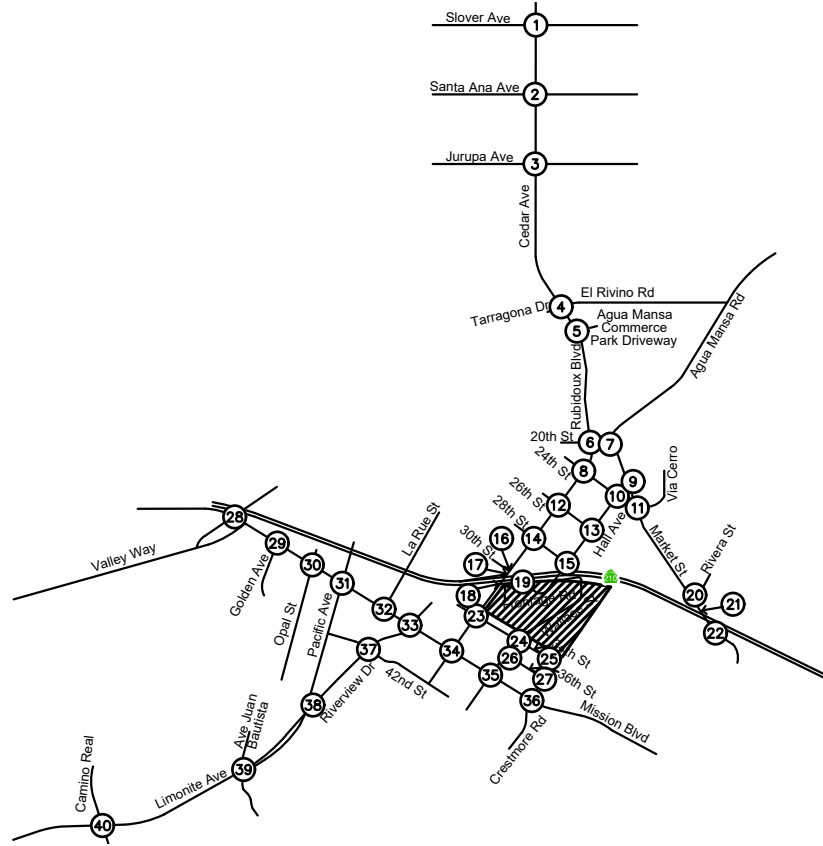
LEGEND:

- = Project Site
- = Study Intersection
- xx/yy = AM/PM Volumes

Note: Volumes reflect PCE adjustments.

FIGURE 7B
PROJECT-RELATED TRAFFIC VOLUMES (PHASE 1)
- OPTION 1

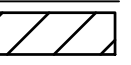





NOT TO SCALE

25. Crestmore Rd at 34th St		26. Wallace St at 36th St		27. Crestmore Rd at 36th St		28. Valley Way at Mission Blvd	
←21/41	19/16 →	←7/13	28/27 →	←21/41	19/16 →	←12/15	24/22 →
29. Golden Ave at Mission Blvd		30. Opal St at Mission Blvd		31. Pacific Ave at Mission Blvd		32. La Rue St at Mission Blvd	
←23/42	36/37 →	←29/54	46/46 →	←17/21	54/54 →	←48/85	71/75 →
6/12	10/9 ↗	5/9	8/8 ↗	14/22	8/8 ↗	34/63	84/73 ↗
34. Rubidoux Blvd at Mission Blvd		35. Wallace St at Mission Blvd		36. Crestmore Rd at Mission Blvd		37. Riverview Dr at 42nd St	
←93/179	155/148 ↗	←7/13	28/27 ↗	←2/6	3/7 →	←6/12	11/10 ↗
9/19	17/15 →	28/27 ↗	19/35 ↗	13/12	4/6 ↘	39/82	73/63 →
				23/21	5/6 →		
				6/4 →			
42. SR-60 SB On-Ramp at "A" St		43. Rubidoux Blvd at "B" St		44. Wallace St at "B" St		45. Rubidoux Blvd at Project Driveway	
←102/375	437/230 →	←55/122	211/109 ↗	←37/-30	201/239 ↗	←214/300	161/150 ↗
		19/71 ↗	119/70 →	279/304 ↗	32/9 ↘	14/21 ↗	6/26 ↗
		33/146 ↗	108/52 ↘	218/361 ↗	0/1 ↗	17/21 ↗	0/1 ↗
		19/71 ↗	39/25 ↗	137/209 ↗		135/244 ↗	
			39/25 ↗			2/1 ↗	
46. Industrial Driveway at "B" St		47. "A" St at "B" St					
←31/121	57/35 ↗	←16/8	8/16 ↗				
1/3 ↗	31/91 →	38/147 ↗	4/2 ↗				
6/23 ↗	6/10 ↘	92/39 ↗	78/49 →				
18/12 ↗	21/23 ↗	26/91 ↗					
81/35 ↗	7/4 →						

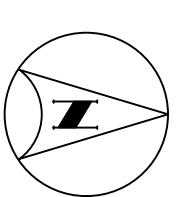
LEGEND:

-  = Project Site
-  = Study Intersection
- xx/yy = AM/PM Volumes

Note: Volumes reflect PCE adjustments.

FIGURE 7D
PROJECT-RELATED TRAFFIC VOLUMES (PHASE 1)
- OPTION 2





NOT TO SCALE






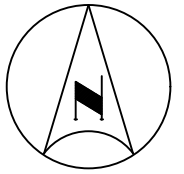
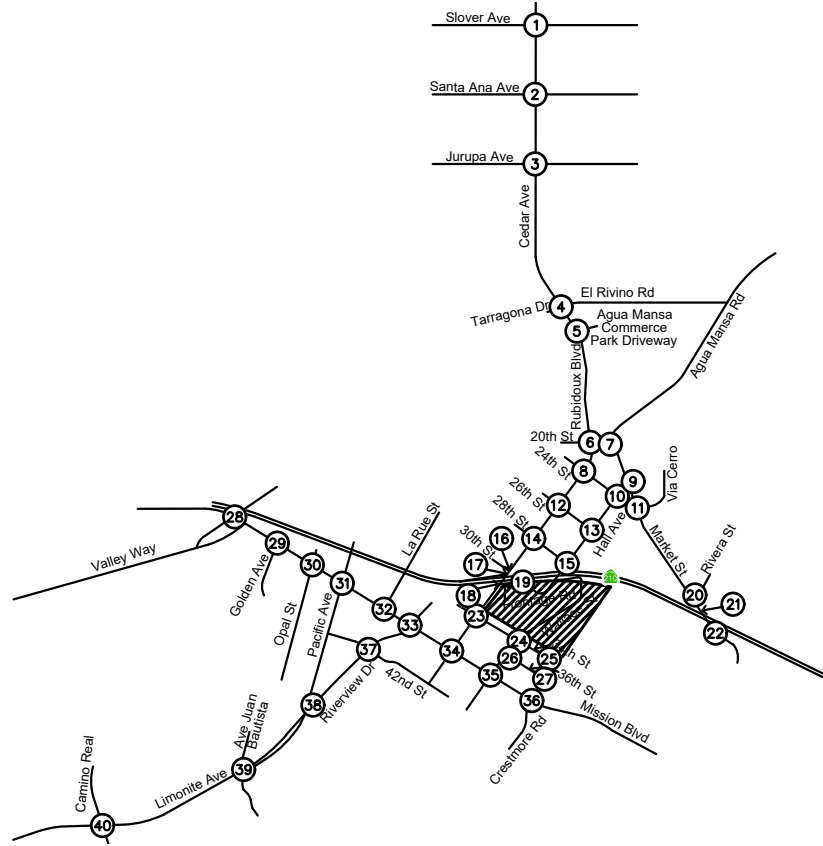
1. Cedar Ave at Slover Ave	2. Cedar Ave at Santa Ana Ave	3. Cedar Ave at Jurupa Ave	4. Cedar Ave at Tarragona Dr/El Rivino Rd	9. Market St at Hall Ave																										
<table border="1"> <tr><td>← 21/14</td><td>← 14/13</td></tr> <tr><td>↖ 9/17</td><td>↖ 11/23</td></tr> <tr><td>↗ 9/17</td><td>↗ 9/17</td></tr> </table>	← 21/14	← 14/13	↖ 9/17	↖ 11/23	↗ 9/17	↗ 9/17	<table border="1"> <tr><td>← 49/40</td><td>← 7/7</td></tr> <tr><td>↖ 5/9</td><td>↖ 29/57</td></tr> <tr><td>↗ 5/9</td><td>↗ 5/9</td></tr> </table>	← 49/40	← 7/7	↖ 5/9	↖ 29/57	↗ 5/9	↗ 5/9	<table border="1"> <tr><td>← 63/54</td><td>← 7/7</td></tr> <tr><td>↖ 5/9</td><td>↖ 39/75</td></tr> <tr><td>↗ 5/9</td><td>↗ 5/9</td></tr> </table>	← 63/54	← 7/7	↖ 5/9	↖ 39/75	↗ 5/9	↗ 5/9	<table border="1"> <tr><td>← 77/68</td><td>← 49/93</td></tr> </table>	← 77/68	← 49/93	<table border="1"> <tr><td>← 54/24</td><td>← 58/238</td></tr> <tr><td>↖ 34/109</td><td>↖ 34/17</td></tr> <tr><td>↗ 58/238</td><td>↗ 58/238</td></tr> </table>	← 54/24	← 58/238	↖ 34/109	↖ 34/17	↗ 58/238	↗ 58/238
← 21/14	← 14/13																													
↖ 9/17	↖ 11/23																													
↗ 9/17	↗ 9/17																													
← 49/40	← 7/7																													
↖ 5/9	↖ 29/57																													
↗ 5/9	↗ 5/9																													
← 63/54	← 7/7																													
↖ 5/9	↖ 39/75																													
↗ 5/9	↗ 5/9																													
← 77/68	← 49/93																													
← 54/24	← 58/238																													
↖ 34/109	↖ 34/17																													
↗ 58/238	↗ 58/238																													
5. Rubidoux Blvd at Agua Mansa Commerce Park Driveway	6. Rubidoux Blvd at Market St/20th St	7. Agua Mansa Rd at Market St	8. Rubidoux Blvd at 24th St	17. Rubidoux Blvd at SR-60 WB On-Ramp																										
<table border="1"> <tr><td>← 77/68</td><td>← 49/93</td></tr> </table>	← 77/68	← 49/93	<table border="1"> <tr><td>← 68/64</td><td>← 15/43</td></tr> <tr><td>↖ 9/4</td><td>↖ 24/56</td></tr> <tr><td>↗ 14/22</td><td>↗ 34/50</td></tr> <tr><td>↘ 10/16</td><td>↘ 10/16</td></tr> </table>	← 68/64	← 15/43	↖ 9/4	↖ 24/56	↗ 14/22	↗ 34/50	↘ 10/16	↘ 10/16	<table border="1"> <tr><td>← 12/15</td><td>← 25/13</td></tr> <tr><td>↖ 10/16</td><td>↖ 7/25</td></tr> <tr><td>↗ 9/4</td><td>↗ 27/84</td></tr> </table>	← 12/15	← 25/13	↖ 10/16	↖ 7/25	↗ 9/4	↗ 27/84	<table border="1"> <tr><td>← 109/141</td><td>← 58/88</td></tr> </table>	← 109/141	← 58/88	<table border="1"> <tr><td>← 9/32</td><td>← 324/297</td></tr> <tr><td>↖ 73/141</td><td>↖ 57/85</td></tr> <tr><td>↗ 57/85</td><td>↗ 57/85</td></tr> </table>	← 9/32	← 324/297	↖ 73/141	↖ 57/85	↗ 57/85	↗ 57/85		
← 77/68	← 49/93																													
← 68/64	← 15/43																													
↖ 9/4	↖ 24/56																													
↗ 14/22	↗ 34/50																													
↘ 10/16	↘ 10/16																													
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↖ 10/16	↖ 7/25																													
↗ 9/4	↗ 27/84																													
← 109/141	← 58/88																													
← 9/32	← 324/297																													
↖ 73/141	↖ 57/85																													
↗ 57/85	↗ 57/85																													
10. Hall Ave at 24th Street	11. Market St at 24th St/Via Cerro	12. Rubidoux Blvd at 26th St	13. Hall Ave at 26th St	14. Rubidoux Blvd at 28th St																										
<table border="1"> <tr><td>← 88/41</td><td>← 8/5</td></tr> <tr><td>↖ 92/347</td><td>↖ 8/5</td></tr> </table>	← 88/41	← 8/5	↖ 92/347	↖ 8/5	<table border="1"> <tr><td>← 58/238</td><td>← 8/5</td></tr> <tr><td>↖ 54/24</td><td>↖ 54/24</td></tr> </table>	← 58/238	← 8/5	↖ 54/24	↖ 54/24	<table border="1"> <tr><td>← 109/141</td><td>← 58/88</td></tr> <tr><td>↖ 46/20</td><td>↖ 46/20</td></tr> </table>	← 109/141	← 58/88	↖ 46/20	↖ 46/20	<table border="1"> <tr><td>← 96/46</td><td>← 92/347</td></tr> </table>	← 96/46	← 92/347	<table border="1"> <tr><td>← 95/129</td><td>← 5/10</td></tr> <tr><td>↖ 14/12</td><td>↖ 5/18</td></tr> <tr><td>↗ 4/7</td><td>↗ 99/98</td></tr> </table>	← 95/129	← 5/10	↖ 14/12	↖ 5/18	↗ 4/7	↗ 99/98						
← 88/41	← 8/5																													
↖ 92/347	↖ 8/5																													
← 58/238	← 8/5																													
↖ 54/24	↖ 54/24																													
← 109/141	← 58/88																													
↖ 46/20	↖ 46/20																													
← 96/46	← 92/347																													
← 95/129	← 5/10																													
↖ 14/12	↖ 5/18																													
↗ 4/7	↗ 99/98																													
18. Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd	19. 30th St at Frontage Rd/SR-60 EB On-Ramp	20. Market St at Rivera St	21. Market St at SR-60 WB Ramps	22. Market St at SR-60 EB Ramps																										
<table border="1"> <tr><td>← 163/194</td><td>← 128/64</td></tr> <tr><td>↖ 161/103</td><td>↖ 75/75</td></tr> <tr><td>↗ 110/206</td><td>↗ 129/168</td></tr> </table>	← 163/194	← 128/64	↖ 161/103	↖ 75/75	↗ 110/206	↗ 129/168	<table border="1"> <tr><td>← 100/144</td><td>← 279/152</td></tr> </table>	← 100/144	← 279/152	<table border="1"> <tr><td>← 58/238</td><td>← 12/15</td></tr> <tr><td>↖ 62/29</td><td>↖ 10/16</td></tr> </table>	← 58/238	← 12/15	↖ 62/29	↖ 10/16	<table border="1"> <tr><td>← 21/47</td><td>← 46/20</td></tr> <tr><td>↖ 49/206</td><td>↖ 17/18</td></tr> <tr><td>↗ 26/25</td><td>↗ 26/25</td></tr> </table>	← 21/47	← 46/20	↖ 49/206	↖ 17/18	↗ 26/25	↗ 26/25	<table border="1"> <tr><td>← 10/16</td><td>← 11/21</td></tr> <tr><td>↖ 4/16</td><td>↖ 45/190</td></tr> <tr><td>↗ 33/27</td><td>↗ 33/27</td></tr> </table>	← 10/16	← 11/21	↖ 4/16	↖ 45/190	↗ 33/27	↗ 33/27		
← 163/194	← 128/64																													
↖ 161/103	↖ 75/75																													
↗ 110/206	↗ 129/168																													
← 100/144	← 279/152																													
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↗ 26/25	↗ 26/25																													
← 10/16	← 11/21																													
↖ 4/16	↖ 45/190																													
↗ 33/27	↗ 33/27																													
23. Rubidoux at 34th St	24. Wallace St at 34th St	25. Rubidoux Blvd at 26th St	26. Market St at 26th St	27. Rubidoux Blvd at 26th St																										
<table border="1"> <tr><td>← 102/198</td><td>← 172/163</td></tr> </table>	← 102/198	← 172/163	<table border="1"> <tr><td>← 7/13</td><td>← 28/27</td></tr> </table>	← 7/13	← 28/27	<table border="1"> <tr><td>← 142/65</td><td>← 16/13</td></tr> <tr><td>↖ 10/28</td><td>↖ 92/347</td></tr> </table>	← 142/65	← 16/13	↖ 10/28	↖ 92/347	<table border="1"> <tr><td>← 116/144</td><td>← 46/20</td></tr> <tr><td>↖ 217/165</td><td>↖ 57/85</td></tr> </table>	← 116/144	← 46/20	↖ 217/165	↖ 57/85	<table border="1"> <tr><td>← 54/24</td><td>← 58/238</td></tr> <tr><td>↖ 34/109</td><td>↖ 34/17</td></tr> <tr><td>↗ 58/238</td><td>↗ 58/238</td></tr> </table>	← 54/24	← 58/238	↖ 34/109	↖ 34/17	↗ 58/238	↗ 58/238								
← 102/198	← 172/163																													
← 7/13	← 28/27																													
← 142/65	← 16/13																													
↖ 10/28	↖ 92/347																													
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↖ 217/165	↖ 57/85																													
← 54/24	← 58/238																													
↖ 34/109	↖ 34/17																													
↗ 58/238	↗ 58/238																													

Note: Volumes reflect PCE adjustments.

FIGURE 7E
PROJECT-RELATED TRAFFIC VOLUMES (PHASE 1)
- OPTION 3

LEGEND:

-  = Project Site
-  = Study Intersection
-  = AM/PM Volumes



NOT TO SCALE

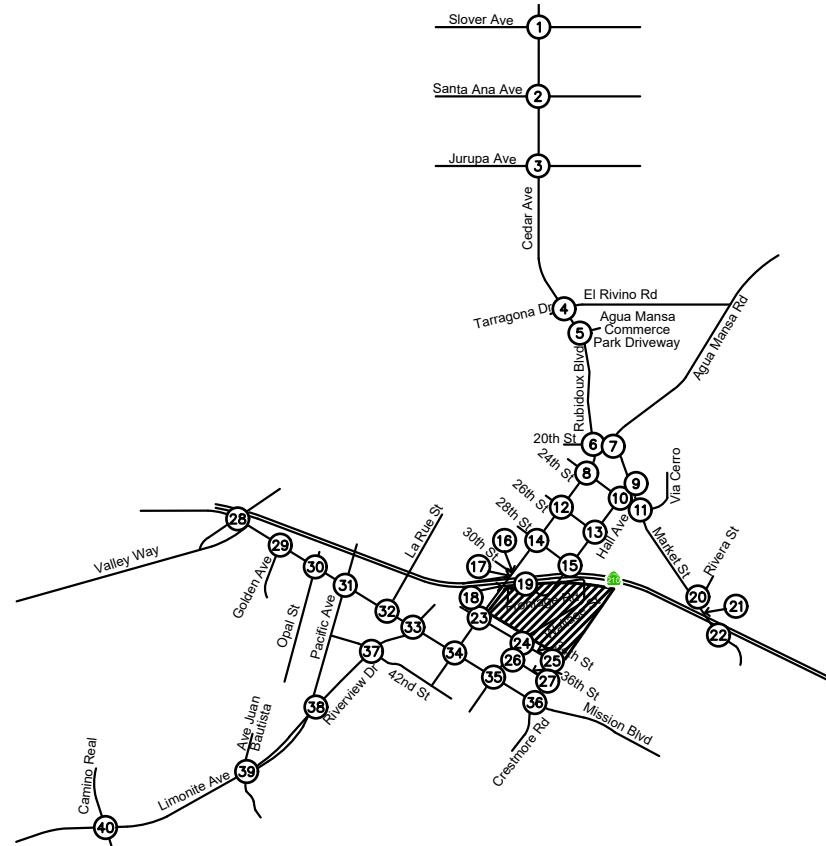
25. Crestmore Rd at 34th St		26. Wallace St at 36th St		27. Crestmore Rd at 36th St		28. Valley Way at Mission Blvd									
← 21/41		← 7/13		← 21/41		← 12/15 ← 10/16 ← 13/26									
19/16 →		28/27 →		19/16 →		24/22 →									
29. Golden Ave at Mission Blvd		30. Opal St at Mission Blvd		31. Pacific Ave at Mission Blvd		32. La Rue St at Mission Blvd		33. Riverview Dr at Mission Blvd							
← 23/42 ← 6/12		← 29/54 ← 5/9		← 17/21 ← 14/22 ← 34/63		← 48/85		← 48/85 ← 45/94							
36/37 → 10/9 ↗		46/46 → 8/8 ↗		54/54 →		71/75 →		71/75 → 84/73 ↗							
34. Rubidoux Blvd at Mission Blvd		35. Wallace St at Mission Blvd		36. Crestmore Rd at Mission Blvd		37. Riverview Dr at 42nd St		38. Riverview Dr/Limonite Ave at Pacific Ave		39. Limonite Ave at Avenue San Juan Bautista		40. Camino Real at Limonite Ave		41. Hall Ave at "A" St	
← 93/179 ← 9/19		← 7/13 ← 28/27		← 2/6 ← 19/35 ← 13/12 ← 23/21		← 6/12 ← 39/82		← 39/82		← 8/19 ← 23/48 ← 8/15 ← 13/13		← 23/48		← 158/78 ← 102/375	
155/148 ↗ 17/15 →				3/7 → 4/6 ↘ 5/6 → 6/4 →		11/10 ↗ 73/63 →		73/63 →		17/15 ↗ 43/35 →		43/35 →		279/152 →	
42. SR-60 SB On-Ramp at "A" St		43. Rubidoux Blvd at "B" St		44. Wallace St at "B" St		45. Rubidoux Blvd at Project Driveway		46. Industrial Driveway at "B" St		47. "A" St at "B" St					
← 102/375		← 55/122 ← 19/71 ← 33/146 ← 19/71		← 37/-30 ← 279/304 ← 218/361 ← 137/209		← 214/300 ← 14/21 ← 17/21 ← 135/244 ← 2/1		← 31/121 ← 1/3 ← 6/23 ← 18/12 ← 81/35		← 16/8 ← 38/147 ← 92/39 ← 26/91					
437/230 →		211/109 ↗ 119/70 → 108/52 ↘ 34/107 ↗ 39/25 → 39/25 ↗		57/69 ↗ 115/94 ↗		201/239 ↗ 161/150 → 32/9 ↘ 6/26 ↗ 0/1 ↗		57/35 ↗ 31/91 → 6/10 ↘ 21/23 ↗ 7/4 →		8/16 ↗ 4/2 ↗ 78/49 →					

LEGEND:

- = Project Site
- = Study Intersection
- xx/yy = AM/PM Volumes

Note: Volumes reflect PCE adjustments.

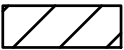

FIGURE 7F
PROJECT-RELATED TRAFFIC VOLUMES (PHASE 1)
- OPTION 3



NOT TO SCALE

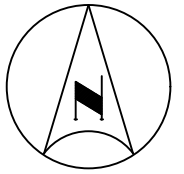
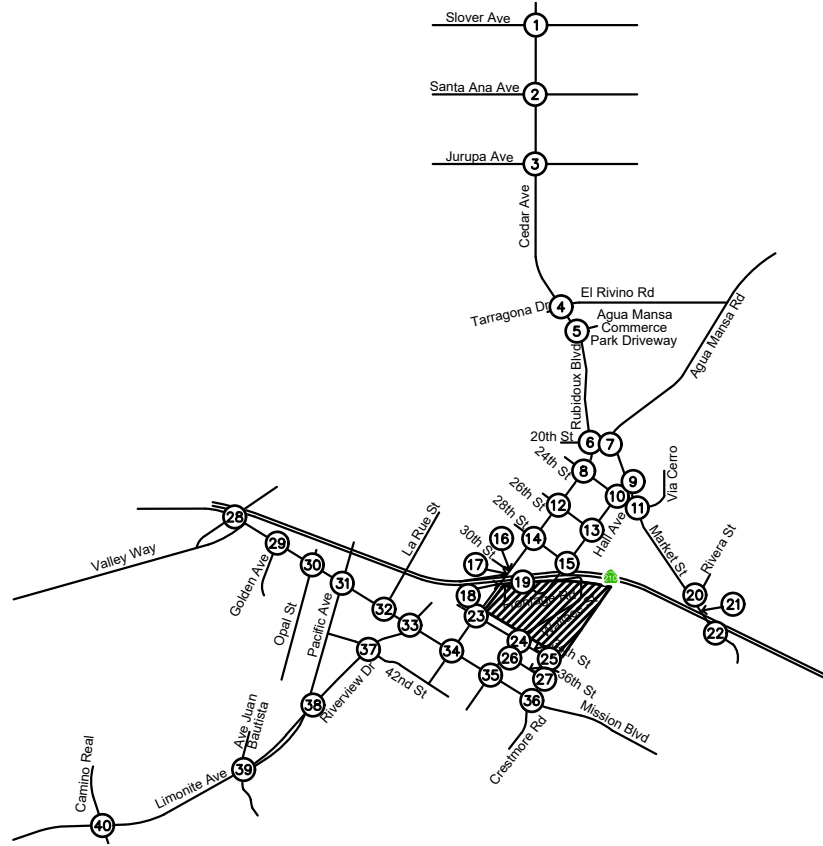
25. Crestmore Rd at 34th St		26. Wallace St at 36th St		27. Crestmore Rd at 36th St		28. Valley Way at Mission Blvd									
← 38/38		← 10/10		← 38/38		← 15/15 ← 12/12 ← 30/30									
22/22 →		39/39 →		22/22 →		33/33 →									
29. Golden Ave at Mission Blvd		30. Opal St at Mission Blvd		31. Pacific Ave at Mission Blvd		32. La Rue St at Mission Blvd		33. Riverview Dr at Mission Blvd							
← 42/42 ← 8/8		← 50/50 ← 6/6		← 21/21 ← 17/17 ← 56/56		← 73/73		← 73/73 ← 72/72							
48/48 →		61/61 →		70/70 →		91/91 →		91/91 → 103/103 →							
13/13 →		9/9 →													
34. Rubidoux Blvd at Mission Blvd		35. Wallace St at Mission Blvd		36. Crestmore Rd at Mission Blvd		37. Riverview Dr at 42nd St		38. Riverview Dr/Limonite Ave at Pacific Ave		39. Limonite Ave at Avenue San Juan Bautista		40. Camino Real at Limonite Ave		41. Hall Ave at "A" St	
← 145/145 ← 12/12		← 10/10 ← 39/39		← 2/2 ← 36/36 ← 16/16 ← 33/33		← 7/7 ← 65/65		← 65/65		← 9/9 ← 47/47 ← 9/9 ← 15/15		← 47/47		← 53/53 ← 9/9 ← 60/60	
194/194 →		22/22 →		5/5 → 5/5 → 6/6 → 6/6 →		12/12 → 91/91 →		19/19 → 57/57 →		57/57 →		389/389 →			
22/22 →															
42. SR-60 SB On-Ramp at "A" St		43. Rubidoux Blvd at "B" St		44. Wallace St at "B" St		45. Rubidoux Blvd at Project Driveway		46. Industrial Driveway at "B" St		47. "A" St at "B" St					
← 49/49 ← 69/69		← 55/55 ← 11/11 ← 29/29 ← 11/11		← 31/-61 ← 458/488 ← 463/486 ← 186/220		← 0/289 ← 17/17 ← 21/21 ← 387/387 ← 3/3		← 15/15 ← 1/1 ← 11/11 ← 18/18 ← 310/310		← 16/16 ← 27/27 ← 92/92 ← 26/26					
442/442 →		211/211 → 119/119 → 113/113 → 34/34 → 39/39 → 39/39 →		80/60 → 136/156 →		225/275 → 303/303 → 66/66 → 30/30 → 2/2 →		57/57 → 86/86 → 9/9 → 32/32 → 7/7 →		8/8 → 4/4 → 78/78 →					

LEGEND:

-  = Project Site
-  = Study Intersection
- xx/yy = AM/PM Volumes

Note: Volumes reflect PCE adjustments.

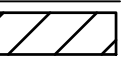

FIGURE 8B
PROJECT-RELATED TRAFFIC VOLUMES (PHASE 2)
- OPTION 1



NOT TO SCALE

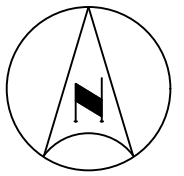
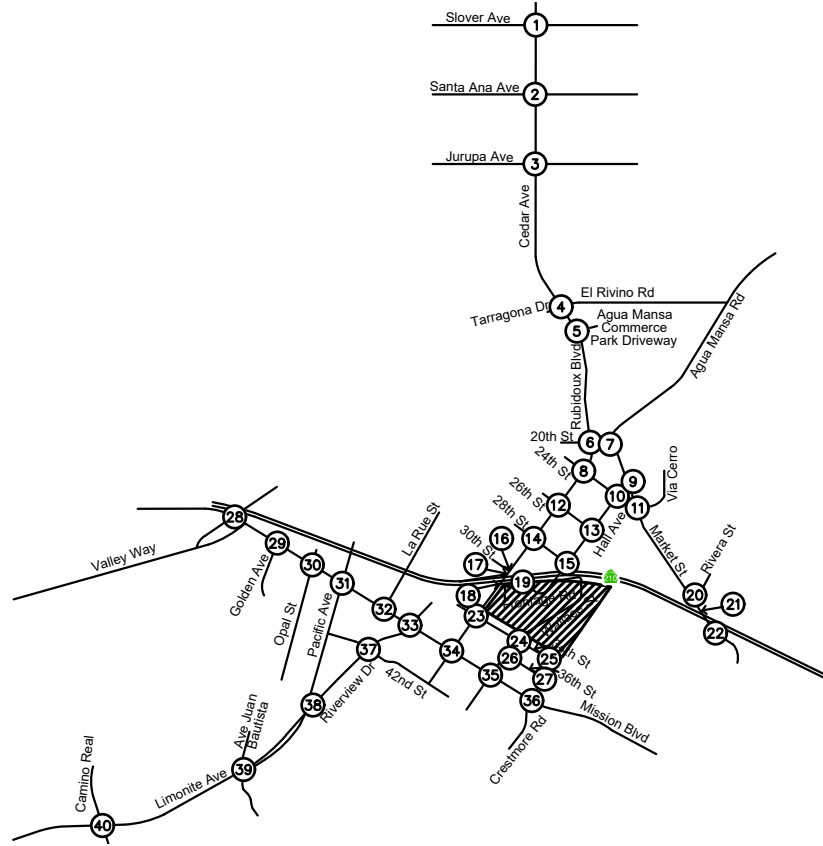
25. Crestmore Rd at 34th St	26. Wallace St at 36th St	27. Crestmore Rd at 36th St	28. Valley Way at Mission Blvd				
←38/65 22/27 →	←10/18 39/53 →	←38/65 22/27 →	←15/20 12/21 ←30/45 33/45 →				
29. Golden Ave at Mission Blvd	30. Opal St at Mission Blvd	31. Pacific Ave at Mission Blvd	32. La Rue St at Mission Blvd	33. Riverview Dr at Mission Blvd			
←42/66 8/19 48/65 → 13/17 ↗	←50/85 6/11 61/82 → 9/10 ↗	←21/28 17/29 ←56/96 70/92 →	←73/125 91/120 →	←73/125 72/131 91/120 → 103/119 ↗			
34. Rubidoux Blvd at Mission Blvd	35. Wallace St at Mission Blvd	36. Crestmore Rd at Mission Blvd	37. Riverview Dr at 42nd St	38. Riverview Dr/Limonite Ave at Pacific Ave	39. Limonite Ave at Avenue San Juan Bautista	40. Camino Real at Limonite Ave	41. Hall Ave at "A" St
←145/256 ←12/31 194/239 → 22/26 →	←10/18 39/53 ↗	←2/6 ←36/59 16/23 ←33/45 5/10 → 5/8 ↘ 6/8 → 6/4 →	←7/14 ←65/117 12/12 → 91/107 →	←65/117 91/107 →	←9/22 ←47/77 9/18 ↗ 15/16 ↗ 19/18 → 57/73 →	←47/77 57/73 →	←163/88 53/169 ↗ 279/152 →
42. SR-60 SB On-Ramp at "A" St	43. Rubidoux Blvd at "B" St	44. Wallace St at "B" St	45. Rubidoux Blvd at Project Driveway	46. Industrial Driveway at "B" St	47. "A" St at "B" St		
←49/206 ←53/169 442/240 →	←47/180 ←19/71 ←21/89 ←19/71 211/109 → 119/70 → 113/62 → 34/107 → 39/25 → 39/25 →	←31/-43 ←458/817 479/748 ←186/332 80/90 → 136/175 →	←232/397 ←17/28 ←21/28 ←403/628 ←3/2 225/319 → 303/631 → 66/42 → 30/55 → 2/3 →	←31/121 ←1/3 ←11/33 18/12 ←310/142 57/35 → 86/315 → 9/15 → 32/49 → 7/4 →	←16/8 ←43/157 ←92/39 26/91 8/16 → 4/2 → 78/49 →		

LEGEND:

-  = Project Site
-  = Study Intersection
- xx/yy = AM/PM Volumes

Note: Volumes reflect PCE adjustments.

FIGURE 8D
PROJECT-RELATED TRAFFIC VOLUMES (PHASE 2)
- OPTION 2



NOT TO SCALE

25. Crestmore Rd at 34th St		26. Wallace St at 36th St		27. Crestmore Rd at 36th St		28. Valley Way at Mission Blvd									
←38/65		←10/18		←38/65		←15/20 ←12/21 ←30/45									
22/27 →		39/53 →		22/27 →		33/45 →									
29. Golden Ave at Mission Blvd		30. Opal St at Mission Blvd		31. Pacific Ave at Mission Blvd		32. La Rue St at Mission Blvd		33. Riverview Dr at Mission Blvd							
←42/66 ←8/19		←50/85 ←6/11		←21/28 ←17/29 ←56/96		←73/125		←73/125 ←72/131							
48/65 → 13/17 ↗		61/82 → 9/10 ↗		70/92 →		91/120 →		91/120 → 103/119 ↗							
34. Rubidoux Blvd at Mission Blvd		35. Wallace St at Mission Blvd		36. Crestmore Rd at Mission Blvd		37. Riverview Dr at 42nd St		38. Riverview Dr/Limonite Ave at Pacific Ave		39. Limonite Ave at Avenue San Juan Bautista		40. Camino Real at Limonite Ave		41. Hall Ave at "A" St	
←145/256 ←12/31		←10/18 ↗39/53		←2/6 ↗36/59 ↗16/23 ←33/45		↗7/14 ↗65/117		←65/117		↗9/22 ↗47/77 ↗9/18 ↗15/16		←47/77		↗163/88 ↗53/169	
194/239 → 22/26 →				5/10 → 5/8 ↘ 6/8 → 6/4 →		12/12 → 91/107 →		91/107 →		19/18 → 57/73 →		57/73 →		279/152 →	
42. SR-60 SB On-Ramp at "A" St		43. Rubidoux Blvd at "B" St		44. Wallace St at "B" St		45. Rubidoux Blvd at Project Driveway		46. Industrial Driveway at "B" St		47. "A" St at "B" St					
↗49/206 ←53/169		↗47/180 ↗19/71 ←21/89 ←19/71		←31/-43 ←458/817 ↗479/748 ↗186/332		↗232/0 ↗17/28 ↗21/28 ←403/628 ↗3/2		↗31/121 ↗1/3 ↗11/33 ↗18/12 ←310/142		↗16/8 ↗43/157 ↗92/39 ↗26/91					
442/240 →		211/109 → 119/70 → 113/62 → 34/107 → 39/25 → 39/25 →		80/90 → 136/175 →		225/319 → 303/631 → 66/42 → 30/55 → 2/3 →		57/35 → 86/315 → 9/15 → 32/49 → 7/4 →		8/16 → 4/2 → 78/49 →					

LEGEND:

- = Project Site
- = Study Intersection
- xx/yy = AM/PM Volumes

Note: Volumes reflect PCE adjustments.

FIGURE 8F
PROJECT-RELATED TRAFFIC VOLUMES (PHASE 2)
- OPTION 3



FUTURE CONDITIONS

Opening Year 2023 Cumulative

The Project Phase 1 Opening Year (the year the project would be constructed and occupied) is anticipated to be Year 2023. Based on consultation with City staff, an ambient growth rate of 2.0% per year to Opening Year 2023 was applied to existing traffic volumes. Cumulative Project traffic was also added to Opening Year 2023 volumes and is explained below.

Cumulative Projects

Information about Cumulative Projects in the area was provided by the City of Jurupa Valley. Cumulative Projects consist of any project that has been approved but is not yet constructed/occupied, and projects that are in various stages of the application and approval process but have not yet been approved. A summary of Cumulative Projects in the project vicinity and the trip generation associated with each is provided on Table 3. The locations of the Cumulative Projects are shown on Figure 9.

Cumulative Projects Trip Generation

Trip generation information for Cumulative Projects was derived either from approved traffic studies, where available; or developed by Kimley-Horn if approved traffic studies were not available.

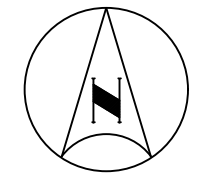
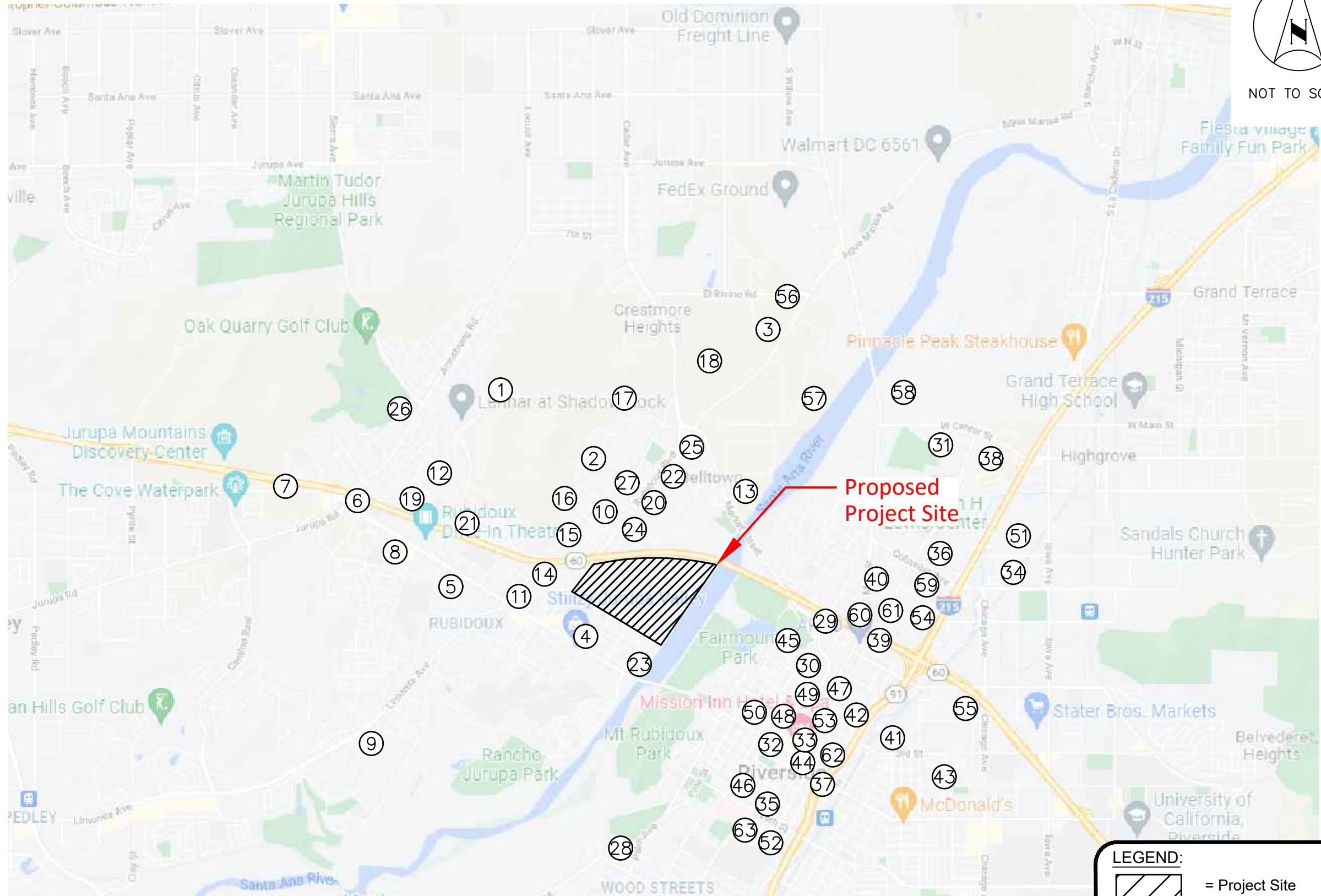
Cumulative Projects Trip Distribution and Assignment

Likewise, trip distribution and assignment for the Cumulative Projects were either derived from approved traffic studies, where available; or were developed by Kimley-Horn if approved traffic studies were not available. Project information and trip distribution assumptions for Cumulative Projects are provided in *Appendix E*.

Ambient growth and Cumulative Project trips were added to existing traffic to develop Opening Year 2023 Cumulative forecasts. The resulting peak hour turning movement volumes at the study locations are shown in Figure 10.

TABLE 3 SUMMARY OF CUMULATIVE PROJECTS												
Proj #	Project Name/Number	Land Use	Quantity	Units	Trip Generation Estimates							
					AM Peak Hour			PM Peak Hour				
					Daily	In	Out	Total	In	Out	Total	
1	New Rio Vista Specific Plan	Single-Family Detached Housing	579	DU	5,460	105	300	405	343	201	544	
		Single-Family Attached Housing	290	DU	2,088	43	96	139	94	71	165	
		Multifamily Housing (Low-Rise)	346	DU	2,332	33	105	138	111	65	176	
		Public Park	22.2	Acre	17	0	0	0	1	1	2	
		Middle School/Junior High School	600	Student	1,260	217	185	402	43	47	90	
2	Proficiency Rubidoux (or Captial)	Warehousing	1,300,000	KSF	3,686	178	49	227	73	205	278	
3	Agua Mansa Development Project	Warehousing	335,000	KSF	573	44	13	57	17	44	61	
4	Neighborhood Commercial	Strip Retail Plaza (<40K)	12,180	KSF	663	17	11	28	40	40	80	
5	Mondragon Auto Repair	Coffee/Donut Shop w/ D.T.	2,400	KSF	1,281	105	101	206	47	47	94	
6	MA20084	Fast-Food Restaurant w/ Drive-thru	8,300	KSF	3,880	189	181	370	143	132	275	
7	MA20132	Automobile Sales (Used)	3,165	KSF	86	5	2	7	6	6	12	
8	MA21214	Strip Retail Plaza (<40K)	50,000	KSF	2,723	71	47	118	165	165	330	
9	Saddlehorn Ranch	Single-Family Detached Housing	31	DU	292	6	16	22	18	11	29	
10	Havana Investment Spec Building	Warehousing	72,288	KSF	124	9	3	12	4	9	13	
11	Action Plumbing	Strip Retail Plaza (<40K)	9,736	KSF	530	14	9	23	32	32	64	
12	Highland Park	Single-Family Detached Housing	97	DU	915	18	50	68	57	34	91	
13	Market Street Commercial	Convenience Store/Gasoline Station	3,098	KSF	1,934	63	63	126	75	75	150	
		High-Turnover (Sit-Down) Restaurant	4,750	KSF	509	25	20	45	26	17	43	
		Fast-Food Restaurant w/ Drive-thru	2,860	KSF	1,337	65	63	128	49	45	94	
		Automated Car Wash	2,850	KSF	0	0	0	0	20	20	40	
14	Avalon Court	Single-Family Detached Housing	24	DU	226	4	12	16	14	8	22	
15	Emerald Ridge South	Single-Family Detached Housing	97	DU	915	18	50	68	57	34	91	
		Single-Family Attached Housing	118	DU	850	18	39	57	38	29	67	
16	Emerald Ridge North	Single-Family Detached Housing	184	DU	1,735	33	95	128	109	64	173	
17	Rubidoux Commercial Development LLC	Business Park	306,894	KSF	3,818	352	62	414	97	277	374	
18	Agua Mansa Commerce Park	High-Cube Transload and Short-Term Storage	4,277,000	KSF								
		Multifamily Housing (Low-Rise)	150	DU	11,376	581	165	746	231	637	868	
		Shopping Plaza (40-150K)	25,000	KSF								
19	MA17099	Single-Family Detached Housing	48	DU	453	9	25	34	28	17	45	
20	Bailey Building	Warehousing	32,700	KSF	56	4	1	5	2	4	6	
21	La Rue Apartments	Multifamily Housing (Low-Rise)	80	DU	539	8	24	32	26	15	41	
22	Kiewit Infrastructure West	Warehousing	63,000	KSF	108	8	2	10	3	8	11	
23	Mission Gateway Plaza & Mission Gateway Villas	Shopping Center (<150K)	31,375	KSF	1,161	16	10	26	51	55	106	
		Multifamily Housing (Low-Rise)	68	DU	458	7	21	28	22	13	35	
24	Karcher Industrial Project	Warehousing	190,594	KSF	326	25	7	32	10	25	35	
25	Wheeler Trucking Inc.	Warehousing	25,910	KSF	44	3	1	4	1	3	4	
26	Commercial Center	Strip Retail Plaza (<40K)	18,800	KSF	1,024	27	18	45	62	62	124	
		Fast-Food Restaurant w/ Drive-thru	5,910	KSF	2,763	134	129	263	102	94	196	
27	West Coast Cold Storage	High-Cube Cold Storage Warehouse	122,000	KSF	259	10	3	13	4	10	14	
28	P12-0799	Single-Family Detached Housing	7	DU	66	1	4	5	4	2	6	
29	P13-0087	Senior Adult Housing-Multifamily	67	Occ. DU	217	5	9	14	10	7	17	
30	P14-0183	Multifamily Housing (Mid-Rise)	146	DU	663	12	42	54	35	22	57	
31	P14-1033	Warehousing	308,000	KSF	527	40	12	52	15	40	55	
32	P15-0535	Hotel	239	Room	1,910	62	48	110	72	69	141	
33	P16-0321	Multifamily Housing (Low-Rise)	165	DU	1,112	16	50	66	53	31	84	
		Strip Retail Plaza (<40K)	22,000	KSF	1,198	31	21	52	72	72	144	
34	P16-0620	Automobile Parts and Service Center	3,008	KSF	50	4	2	6	2	4	6	
35	P16-0862	High-Turnover (Sit-Down) Restaurant	4,525	KSF	485	24	19	43	25	16	41	
36	P17-0001	Single-Family Detached Housing	7	DU	66	1	4	5	4	2	6	
37	P17-0030	Affordable Housing	72	DU	346	7	18	25	20	14	34	
		General Office Building	42,400	KSF	460	57	8	65	10	51	61	
38	P18-0020	Mobile Home Park	104	Occ. DU	740	9	32	41	37	23	60	
39	P18-0091	Multifamily Housing (Mid-Rise)	482	DU	2,188	41	137	178	115	73	188	
		Shopping Plaza (40-150K)	44,500	KSF	4,205	97	60	157	193	209	402	
		Convenience Store/Gasoline Station	16	FP	4,242	128	128	256	147	147	294	
		Hotel	229	Room	1,830	59	46	105	69	66	135	
40	P18-0122	Senior Adult Housing-Multifamily	58	Occ. DU	188	4	8	12	9	6	15	
41	P18-0199	Warehousing	26,076	KSF	45	3	1	4	1	3	4	
42	P19-0089	Affordable Housing	10	DU	48	1	3	4	3	2	5	
43	P19-0420	Multifamily Housing (Low-Rise)	33	DU	222	3	10	13	11	6	17	
44	P19-0560	Hotel	225	Room	1,798	58	45	103	68	65	133	
45	P19-0620	Single-Family Attached Housing	17	DU	122	3	6	9	6	4	10	
46	P19-0665	General Office Building	128,000	KSF	1,388	171	23	194	31	153	184	
47	P19-0694	Multifamily Housing (Mid-Rise)	116	DU	527	10	33	43	28	18	46	
48	P19-0869	Strip Retail Plaza (<40K)	3,400	KSF	185	5	3	8	11	11	22	
49	P20-0035	Affordable Housing	33	DU	159	3	8	11	9	6	15	
50	P20-0239	Single-Family Detached Housing	8	DU	75	1	4	5	5	3	8	
51	P20-0487	Warehousing	27,860	KSF	48	4	1	5	1	4	5	
52	PR-2020-000105	General Office Building	48,000	KSF	520	64	9	73	12	57	69	
53	PR-2020-000241	General Office Building	2,050	KSF	22	3	0	3	1	2	3	
54	PR-2021-001052	Multifamily Housing (Low-Rise)	115,000	DU	775	11	35	46	37	22	59	
55	PR-2020-000429	General Office Building	6,000	KSF	65	8	1	9	1	7	8	
56	SB2	High-Cube Fulfillment Center Warehouse	506,000	KSF	916	62	15	77	31	50	81	
57	Holly Street Truck Terminal	Warehousing	450,000	KSF	770	59	18	77	23	59	82	
58	COL3	High-Cube Fulfillment Center Warehouse	447,330	KSF	810	55	13	68	28	44	72	
59	P06-0782	Single-Family Detached Housing	15	DU	141	3	8	11	9	5	14	
60	P05-0269	Single-Family Detached Housing	9	DU	85	2	5	7	5	3	8	
61	P06-1031	Single-Family Detached Housing	7	DU	66	1	4	5	4	2	6	
62	P09-0835	General Office Building	132,136	KSF	1,432	177	24	201	32	158	190	
63	P06-1237	Medical-Dental Office Building	65,281	KSF	2,350	160	42	202	77	180	257	
Total Project Trips						88,863	3,998	3,017	7,015	3,703	4,485	8,188

DU = Dwelling Unit, KSF = 1,000 square feet, FP = Fueling Position



NOT TO SCALE

LEGEND:



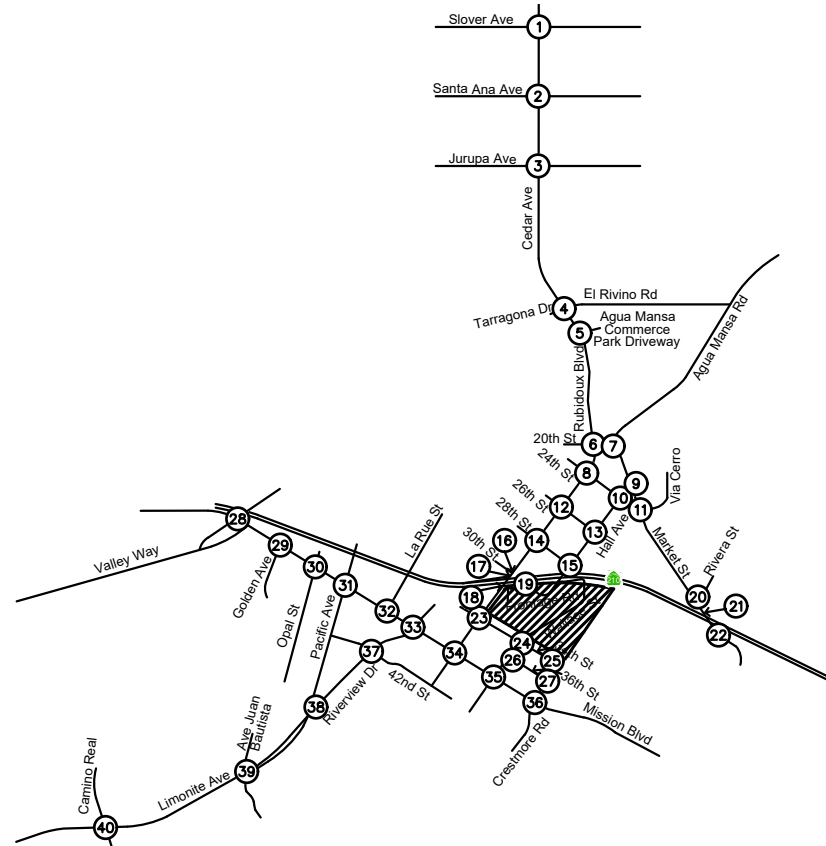
-  = Project Site
-  = Cumulative Project

FIGURE 9
LOCATION OF CUMULATIVE PROJECTS



NOT TO SCALE

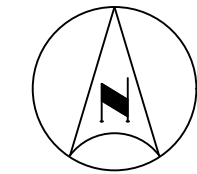
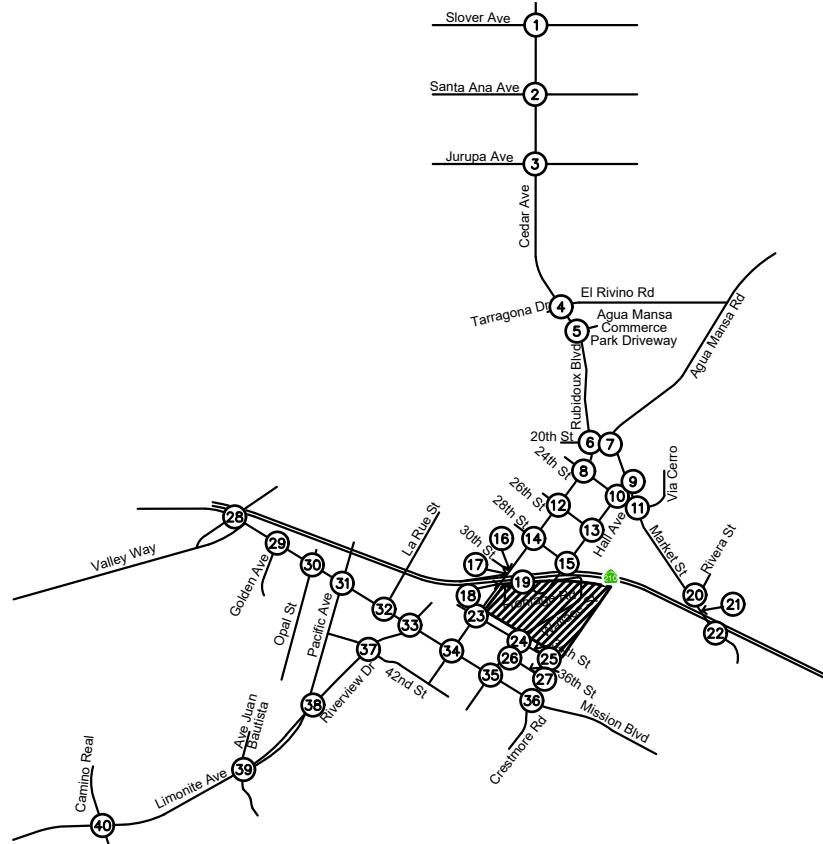
<p>1. Cedar Ave at Slover Ave</p> <p>118/80 962/738 118/132 146/107 149/231 42/38</p> <p>199/198 151/394 79/143</p> <p>154/153 869/561 23/67</p>		<p>2. Cedar Ave at Santa Ana Ave</p> <p>57/71 811/813 52/52 40/29 105/122 36/28</p> <p>59/82 94/107 67/112</p> <p>106/150 799/770 19/38</p>		<p>3. Cedar Ave at Jurupa Ave</p> <p>24/37 904/896 80/87 135/48 86/73 41/46</p> <p>34/32 77/182 26/48</p> <p>31/65 757/808 44/82</p>		<p>4. Cedar Ave at Tarragona Dr/El Rivino Rd</p> <p>3/20 976/922 102/134 54/167 1/4 106/175</p> <p>12/9 2/4 21/7</p> <p>3/4 549/781 120/90</p>	
<p>5. Rubidoux Blvd at Agua Mansa Commerce Park Driveway</p> <p>1115/1077</p> <p>885/1006</p>		<p>6. Rubidoux Blvd at Market St/20th St</p> <p>124/43 629/635 473/516 383/464 216/92 313/371</p> <p>57/85 87/215 61/144</p> <p>162/62 290/382 349/401</p>		<p>7. Agua Mansa Rd at Market St</p> <p>247/359 1/0 112/178 185/217 633/528 20/0</p> <p>303/470 593/618 41/1</p> <p>9/0 1/3 14/1</p>		<p>8. Rubidoux Blvd at 24th St</p> <p>0/4 871/1053 110/113 18/32 3/6 8/33</p> <p>0/1 3/18 4/10</p> <p>7/20 781/806 18/50</p>	
<p>9. Market St at Hall Ave</p> <p>686/728 19/23</p> <p>593/598 15/25</p> <p>21/16 8/20</p>		<p>10. Hall Ave at 24th Street</p> <p>6/12 9/40 14/5 4/1 10/30 15/62</p> <p>1/8 120/156 4/22</p> <p>10/28 14/29 33/93</p>		<p>11. Market St at 24th St/Via Cerro</p> <p>1/1 668/896 22/22 11/32 7/40 119/242</p> <p>11/4 33/31 128/225</p> <p>27/56 818/702 161/108</p>		<p>12. Rubidoux Blvd at 26th St</p> <p>0/1 764/984 10/14 9/11 2/1 4/15</p> <p>2/2 0/2 9/6</p> <p>8/2 916/861 7/27</p>	
<p>13. Hall Ave at 26th St</p> <p>3/4 86/99 1/12 6/3 0/1 9/5</p> <p>3/21 0/2 5/9</p> <p>2/14 74/97 8/1</p>		<p>14. Rubidoux Blvd at 28th St</p> <p>19/39 931/1142 17/22 5/10 10/23 55/67</p> <p>36/46 9/25 88/86</p> <p>58/112 878/856 58/71</p>		<p>15. Hall Ave at 28th St</p> <p>48/59 68/55 1/0</p> <p>30/45 1/1 24/31</p> <p>6/17 47/119 1/1</p>		<p>16. Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp</p> <p>29/30 1075/1474 136/168 77/125 678/817</p> <p>47/38 259/219</p> <p>103/112 1049/937</p>	
<p>17. Rubidoux Blvd at SR-60 WB On-Ramp</p> <p>771/923 1232/1548</p> <p>389/299 1133/1031</p>		<p>18. Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd</p> <p>988/1404 246/167 22/23 26/36</p> <p>733/674 11/48 253/467</p> <p>754/747 941/584</p>		<p>19. 30th St at Frontage Rd/SR-60 EB On-Ramp</p> <p>734/322 27/81</p> <p>43/7</p>		<p>20. Market St at Rivera St</p> <p>5/0 859/1176 62/119 76/96 262/219</p> <p>3/2 0/15 12/58</p> <p>25/5 1029/993 318/227</p>	
<p>21. Market St at SR-60 WB Ramps</p> <p>197/211 960/1203 979/772 118/138</p> <p>196/385 446/446</p>		<p>22. Market St at SR-60 EB Ramps</p> <p>446/719 631/596</p> <p>162/156 564/847</p> <p>508/700 201/118</p>		<p>23. Rubidoux at 34th St</p> <p>51/130 1162/1541 53/187 116/66 7/20 20/22</p> <p>134/111 33/45 20/31</p> <p>23/25 1381/1148 43/97</p>		<p>24. Wallace St at 34th St</p> <p>3/9 37/35 12/29 8/28 59/56 5/5</p> <p>4/16 53/190 60/98</p> <p>49/28 24/16 3/5</p>	

LEGEND:

- = Project Site
- = Study Intersection
- xx/yy = AM/PM Volumes

Note: Volumes reflect PCE adjustments.

FIGURE 10A
OPENING YEAR 2023 PLUS CUMULATIVE
PROJECT TRAFFIC VOLUMES



NOT TO SCALE

		25. Crestmore Rd at 34th St		26. Wallace St at 36th St		27. Crestmore Rd at 36th St		28. Valley Way at Mission Blvd			
		29. Golden Ave at Mission Blvd		30. Opal St at Mission Blvd		31. Pacific Ave at Mission Blvd		32. La Rue St at Mission Blvd		33. Riverview Dr at Mission Blvd	
34. Rubidoux Blvd at Mission Blvd		35. Wallace St at Mission Blvd		36. Crestmore Rd at Mission Blvd		37. Riverview Dr at 42nd St		38. Riverview Dr/Limonite Ave at Pacific Ave		39. Limonite Ave at Avenue San Juan Bautista	
40. Camino Real at Limonite Ave		41. Hall Ave at "A" St									
										FUTURE INTERSECTION	
42. SR-60 SB On-Ramp at "A" St		43. Rubidoux Blvd at "B" St		44. Wallace St at "B" St		45. Rubidoux Blvd at Project Driveway		46. Industrial Driveway at "B" St		47. "A" St at "B" St	
FUTURE INTERSECTION		FUTURE INTERSECTION		FUTURE INTERSECTION		FUTURE INTERSECTION		FUTURE INTERSECTION		FUTURE INTERSECTION	

LEGEND:

- = Project Site
- = Study Intersection
- xx/yy = AM/PM Volumes

Note: Volumes reflect PCE adjustments.

FIGURE 10B
OPENING YEAR 2023 PLUS CUMULATIVE
PROJECT TRAFFIC VOLUMES

Peak Hour Operating Conditions

Intersection Level of Service analysis was conducted for the morning and evening peak hours for the Opening Year 2023 Cumulative conditions. The results are shown on Table 4. Intersection analysis worksheets are provided in *Appendix C*.

Review of this table indicates that, with the addition of ambient growth and cumulative project traffic, the following study intersections would operate at an unacceptable Level of Service:

- #6 – Rubidoux Blvd at Market St/20th St: AM – LOS F, PM – LOS F
- #8 – Rubidoux Blvd at 24th St: AM – LOS F, PM – LOS F
- #9 – Market St at Hall Ave: AM – LOS E
- #11 – Market St at 24th St/Via Cerro: PM – LOS E
- #12 – Rubidoux Blvd at 26th St: AM – LOS F, PM – LOS F
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp: AM – LOS F, PM – LOS F
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp: AM – LOS F, PM – LOS F
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd: AM – LOS F, PM – LOS F
- #33 – Riverview Dr at Mission Blvd: AM – LOS E, PM – LOS F
- #34 – Rubidoux Blvd at Mission Blvd: AM – LOS E, PM – LOS F

TABLE 4
SUMMARY OF INTERSECTION OPERATION
OPENING YEAR 2023 CUMULATIVE

Int. #	Intersection	Traffic Control	AM Peak Hour		PM Peak Hour	
			Delay	LOS	Delay	LOS
1	Cedar Ave at Slover Ave	S	27.4	C	28.6	C
2	Cedar Ave at Santa Ana Ave	S	13.8	B	15.7	B
3	Cedar Ave at Jurupa Ave	S	14.2	B	14.4	B
4	Cedar Ave at Tarragona Dr/El Rivino Rd	S	10.9	B	15.1	B
5	Rubidoux Blvd at Agua Mansa Commerce Park Dwy	S	0.6	A	0.7	A
6	Rubidoux Blvd at Market St/20th St	S	83.2	F	117.4	F
7	Agua Mansa Rd at Market St	S	22.7	C	45.0	D
8	Rubidoux Blvd at 24th St	U	125.4	F	200.0	F
9	Market St at Hall Ave	U	36.1	E	33.4	D
10	Hall Ave at 24th St	U	7.9	A	9.2	A
11	Market St at 24th St/Via Cerro	S	30.1	C	56.2	E
12	Rubidoux Blvd at 26th St	U	54.7	F	72.6	F
13	Hall Ave at 26th St	U	10.0	A	11.5	B
14	Rubidoux Blvd at 28th St	S	10.2	B	12.3	B
15	Hall Ave at 28th St	U	7.4	A	8.0	A
16	Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp	S	226.2	F	98.1	F
17	Rubidoux Blvd at SR-60 WB On-Ramp	U	434.7	F	831.1	F
18	Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd	S	220.6	F	93.7	F
19	Frontage Rd at SR-60 EB On-Ramp	U	15.4	C	10.7	B
20	Market St at Rivera St	S	14.8	B	18.4	B
21	Market St at SR-60 WB Ramps	S	11.3	B	20.5	C
22	Market St at SR-60 EB Ramps	S	28.1	C	37.6	D
23	Rubidoux Blvd at 34th St	S	13.8	B	15.8	B
24	Wallace St at 34th St	U	7.9	A	9.2	A
25	Crestmore Rd at 34th St	U	8.9	A	9.6	A
26	Wallace St at 36th St	U	9.8	A	9.4	A
27	Crestmore Rd at 36th St	U	9.1	A	8.6	A
28	Valley Way at Mission Blvd	S	35.7	D	41.7	D
29	Golden Ave at Mission Blvd	S	12.9	B	12.8	B
30	Opal St at Mission Blvd	S	21.2	C	14.3	B
31	Pacific Ave at Mission Blvd	S	25.7	C	20.4	C
32	La Rue St at Mission Blvd	S	18.6	B	9.4	A

TABLE 4
SUMMARY OF INTERSECTION OPERATION
OPENING YEAR 2023 CUMULATIVE

Int. #	Intersection	Traffic Control	AM Peak Hour		PM Peak Hour	
			Delay	LOS	Delay	LOS
33	Riverview Dr at Mission Blvd	S	68.6	E	92.8	F
34	Rubidoux Blvd at Mission Blvd	S	76.7	E	86.4	F
35	Wallace St at Mission Blvd	S	11.3	B	17.7	B
36	Crestmore Rd at Mission Blvd	S	22.1	C	53.6	D
37	Riverview Dr at 42nd St	S	20.6	C	21.6	C
38	Riverview Dr/Limonite Ave at Pacific Ave	S	11.4	B	11.6	B
39	Limonite Ave at Avenue San Juan Bautista	S	22.9	C	23.9	C
40	Camino Real at Limonite Ave	S	36.8	D	39.5	D

Notes:

- Bold values indicate intersections operating at an unacceptable Level of Service
- Intersection operation is based on average intersection delay for signalized intersections.
- Delay values for unsignalized intersections represent the average vehicle delay on the worst (highest delay) intersection approach.

FUTURE CONDITIONS PLUS PROJECT

Opening Year 2023 (Phase 1) Cumulative Plus Project – Option 1

Phase 1 – Option 1 project-related traffic was added to the Opening Year 2023 Cumulative traffic volumes, and the resulting peak hour turning movement volumes at the study intersections are shown on Figure 11.

Peak Hour Operating Conditions – Option 1

Intersection Level of Service analysis was conducted for the morning and evening peak hours for the Opening Year 2023 (Phase 1) Cumulative Plus Project – Option 1 conditions. The results of the intersection analysis are shown on Table 5. Copies of intersection analysis worksheets for this scenario are provided in *Appendix C*.

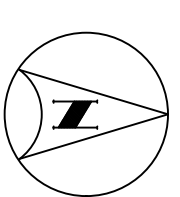
Review of this table indicates that, with the addition project traffic, the following study intersections would continue to operate at an unacceptable Level of Service:

- #6 – Rubidoux Blvd at Market St/20th St: AM – LOS F, PM – LOS F
- #8 – Rubidoux Blvd at 24th St: AM – LOS F, PM – LOS F
- #9 – Market St at Hall Ave: AM – LOS E, PM – LOS E
- #11 – Market St at 24th St/Via Cerro: PM – LOS E
- #12 – Rubidoux Blvd at 26th St: AM – LOS F, PM – LOS F
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp: AM – LOS F, PM – LOS F
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp: AM – LOS F, PM – LOS F
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd: AM – LOS F, PM – LOS F
- #33 – Riverview Dr at Mission Blvd: AM – LOS F, PM – LOS F
- #34 – Rubidoux Blvd at Mission Blvd: AM – LOS F, PM – LOS F

Based on the significance thresholds presented earlier in this report, the following intersection would experience a project-related effect due to the increase in delay caused by the addition of project traffic:

- #6 – Rubidoux Blvd at Market St/20th St
- #8 – Rubidoux Blvd at 24th St
- #9 – Market St at Hall Ave
- #11 – Market St at 24th St/Via Cerro
- #12 – Rubidoux Blvd at 26th St
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd
- #33 – Riverview Dr at Mission Blvd
- #34 – Rubidoux Blvd at Mission Blvd

Recommended Improvements are presented in the Recommended Improvement section of this report.



NOT TO SCALE

<p>1. Cedar Ave at Slover Ave</p> <p>118/80 983/759 118/132</p> <p>146/107 149/231 56/52</p> <p>199/198 151/394 93/157</p> <p>163/162 880/572 32/76</p>	<p>2. Cedar Ave at Santa Ana Ave</p> <p>57/71 960/862 52/52</p> <p>40/29 105/122 43/35</p> <p>50/82 94/107 74/119</p> <p>111/155 828/799 24/43</p>	<p>3. Cedar Ave at Jurupa Ave</p> <p>24/37 967/959 80/87</p> <p>135/48 86/73 48/53</p> <p>34/32 77/182 33/55</p> <p>36/70 796/847 49/87</p>	<p>4. Cedar Ave at Tarragona Dr/El Rivino Rd</p> <p>3/20 1053/999 102/134</p> <p>54/167 1/4 106/175</p> <p>12/9 2/4 21/7</p> <p>3/4 598/830 120/90</p>	<p>5. Rubidoux Blvd at Agua Mansa Commerce Park Driveway</p> <p>1192/1154</p> <p>934/1055</p>	<p>6. Rubidoux Blvd at Market St/20th St</p> <p>57/85 87/215 78/161</p> <p>124/43 706/712 473/516</p> <p>176/76 339/431 362/414</p> <p>383/464 216/92 334/392</p>	<p>7. Agua Mansa Rd at Market St</p> <p>268/380 0/0 128/194</p> <p>189/221 633/528 20/0</p> <p>316/483 593/618 41/1</p> <p>9/0 0/3 1/4</p>	<p>8. Rubidoux Blvd at 24th St</p> <p>0/4 0/0 986/1168 110/113</p> <p>18/32 3/6 8/33</p> <p>0/1 3/18 4/10</p> <p>7/20 857/882 18/50</p>	<p>9. Market St at Hall Ave</p> <p>593/598 31/41</p> <p>25/20 57/69</p> <p>686/728 27/31</p>	<p>10. Hall Ave at 24th Street</p> <p>6/12 33/64 14/5</p> <p>4/1 10/30 23/70</p> <p>120/156 4/22</p> <p>10/28 67/82 33/93</p>	<p>11. Market St at 24th St/Via Cerro</p> <p>1/1 717/945 22/22</p> <p>11/32 7/40 119/242</p> <p>11/4 33/31 128/225</p> <p>35/64 826/710 161/108</p>	<p>12. Rubidoux Blvd at 26th St</p> <p>0/1 879/1099 10/14</p> <p>9/11 2/1 4/15</p> <p>2/2 0/2 9/6</p> <p>8/2 992/937 7/27</p>	<p>13. Hall Ave at 26th St</p> <p>3/4 118/131 1/12</p> <p>6/3 0/1 9/5</p> <p>3/21 0/2 5/9</p> <p>2/14 127/150 8/1</p>	<p>14. Rubidoux Blvd at 28th St</p> <p>19/39 1032/1243 31/36</p> <p>10/15 10/23 55/67</p> <p>36/46 11/27 109/107</p> <p>67/121 949/927 58/71</p>	<p>15. Hall Ave at 28th St</p> <p>48/59 90/87</p> <p>30/45 1/1 40/47</p> <p>11/22 100/172 1/1</p>	<p>16. Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp</p> <p>29/30 1197/1596</p> <p>136/168 77/125 987/1126</p> <p>47/38 259/219</p> <p>103/112 1129/1017</p>	<p>17. Rubidoux Blvd at SR-60 WB On-Ramp</p> <p>771/923 1663/1979</p> <p>480/390 1213/1111</p>	<p>18. Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd</p> <p>1167/1583 498/419</p> <p>79/80 29/39</p> <p>733/674 139/176 328/542</p> <p>868/861 1050/693</p>	<p>19. 30th St at Frontage Rd/SR-60 EB On-Ramp</p> <p>11/32 7/40 119/242</p> <p>3/2 0/2 9/6</p> <p>8/2 992/937 7/27</p>	<p>20. Market St at Rivera St</p> <p>5/0 908/1225 62/119</p> <p>76/96 274/231</p> <p>3/2 0/15 12/58</p> <p>25/5 1045/1009 328/237</p>	<p>21. Market St at SR-60 WB Ramps</p> <p>209/223 1009/1252</p> <p>979/772 118/138</p>	<p>22. Market St at SR-60 EB Ramps</p> <p>172/166 450/723 676/641</p> <p>575/858</p> <p>541/733 201/118</p>	<p>23. Rubidoux at 34th St</p> <p>51/130 1264/1643 53/187</p> <p>116/66 7/20 20/22</p> <p>134/111 33/45 20/31</p> <p>23/25 1553/1320 43/97</p>	<p>24. Wallace St at 34th St</p> <p>3/9 44/42 12/29</p> <p>8/28 59/56 5/5</p> <p>4/16 53/190 60/98</p> <p>49/28 52/44 3/5</p>
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Note: Volumes reflect PCE adjustments.

FIGURE 11A
OPENING YEAR 2023 (PHASE 1) PLUS CUMULATIVE
PROJECTS PLUS PROJECT TRAFFIC VOLUMES - OPTION 1

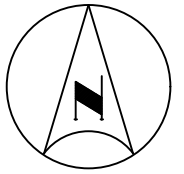
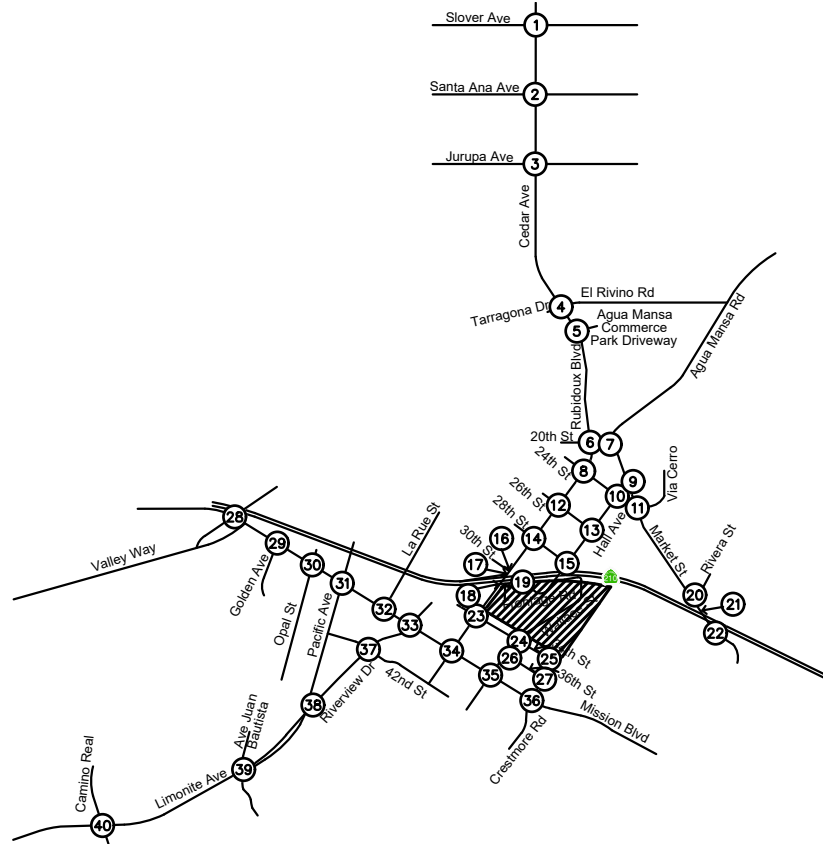
LEGEND:

= Project Site

= Study Intersection

= AM/PM Volumes





NOT TO SCALE

		25. Crestmore Rd at 34th St		26. Wallace St at 36th St		27. Crestmore Rd at 36th St		28. Valley Way at Mission Blvd			
		29. Golden Ave at Mission Blvd		30. Opal St at Mission Blvd		31. Pacific Ave at Mission Blvd		32. La Rue St at Mission Blvd		33. Riverview Dr at Mission Blvd	
34. Rubidoux Blvd at Mission Blvd		35. Wallace St at Mission Blvd		36. Crestmore Rd at Mission Blvd		37. Riverview Dr at 42nd St		38. Riverview Dr/Limonite Ave at Pacific Ave		39. Limonite Ave at Avenue San Juan Bautista	
40. Camino Real at Limonite Ave		41. Hall Ave at "A" St		42. SR-60 SB On-Ramp at "A" St		43. Rubidoux Blvd at "B" St		44. Wallace St at "B" St		45. Rubidoux Blvd at Project Driveway	
46. Industrial Driveway at "B" St		47. "A" St at "B" St									

LEGEND:

- = Project Site
- = Study Intersection
- xx/yy = AM/PM Volumes

Note: Volumes reflect PCE adjustments.

FIGURE 11B
OPENING YEAR 2023 (PHASE 1) PLUS CUMULATIVE
PROJECTS PLUS PROJECT TRAFFIC VOLUMES - OPTION 1



TABLE 5
SUMMARY OF INTERSECTION OPERATION
OPENING YEAR 2023 CUMULATIVE PLUS PROJECT OPTION 1 (RUBIDOUX BLVD)

Int. #	Intersection	Traffic Control	AM Peak Hour						PM Peak Hour					
			Without Project		With Project		Change in Delay	Project-Related Effect?	Without Project		With Project		Change in Delay	Project-Related Effect?
			Delay	LOS	Delay	LOS			Delay	LOS	Delay	LOS		
1	Cedar Ave at Slover Ave	S	27.4	C	28.0	C	0.6	No	28.6	C	29.3	C	0.7	No
2	Cedar Ave at Santa Ana Ave	S	13.8	B	14.2	B	0.4	No	15.7	B	16.1	B	0.4	No
3	Cedar Ave at Jurupa Ave	S	14.2	B	14.7	B	0.5	No	14.4	B	14.9	B	0.5	No
4	Cedar Ave at Tarragona Dr/El Rivino Rd	S	10.9	B	10.9	B	0.0	No	15.1	B	15.4	B	0.3	No
5	Rubidoux Blvd at Agua Mansa Commerce Park Dwy	S	0.6	A	0.7	A	0.1	No	0.7	A	0.7	A	0.0	No
6	Rubidoux Blvd at Market St/20th St	S	83.2	F	89.3	F	6.1	Yes	117.4	F	122.2	F	4.8	Yes
7	Agua Mansa Rd at Market St	S	22.7	C	24.1	C	1.4	No	45.0	D	48.0	D	3.0	No
8	Rubidoux Blvd at 24th St	U	125.4	F	189.4	F	64.0	Yes	200.0	F	200.0	F	0.0	No
9	Market St at Hall Ave	U	36.1	E	39.5	E	3.4	No	33.4	D	35.8	E	2.4	Yes
10	Hall Ave at 24th St	U	7.9	A	8.3	A	0.4	No	9.2	A	9.9	A	0.7	No
11	Market St at 24th St/Via Cerro	S	30.1	C	30.7	C	0.6	No	56.2	E	60.1	E	3.9	Yes
12	Rubidoux Blvd at 26th St	U	54.7	F	72.2	F	17.5	Yes	72.6	F	98.5	F	25.9	Yes
13	Hall Ave at 26th St	U	10.0	A	10.8	B	0.8	No	11.5	B	12.5	B	1.0	No
14	Rubidoux Blvd at 28th St	S	10.2	B	11.3	B	1.1	No	12.3	B	13.4	B	1.1	No
15	Hall Ave at 28th St	U	7.4	A	7.8	A	0.4	No	8.0	A	8.6	A	0.6	No
16	Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp	S	226.2	F	353.2	F	127.0	Yes	98.1	F	201.2	F	103.1	Yes
17	Rubidoux Blvd at SR-60 WB On-Ramp	U	434.7	F	1176.4	F	741.7	Yes	831.1	F	2074.4	F	1243.3	Yes
18	Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd	S	220.6	F	286.5	F	65.9	Yes	93.7	F	193.1	F	99.4	Yes
19	Frontage Rd at SR-60 EB On-Ramp	U	15.4	C	22.4	C	7.0	No	10.7	B	12.6	B	1.9	No
20	Market St at Rivera St	S	14.8	B	14.9	B	0.1	No	18.4	B	18.6	B	0.2	No
21	Market St at SR-60 WB Ramps	S	11.3	B	11.7	B	0.4	No	20.5	C	21.7	C	1.2	No
22	Market St at SR-60 EB Ramps	S	28.1	C	30.5	C	2.4	No	37.6	D	40.9	D	3.3	No
23	Rubidoux Blvd at 34th St	S	13.8	B	15.6	B	1.8	No	15.8	B	17.1	B	1.3	No
24	Wallace St at 34th St	U	7.9	A	8.1	A	0.2	No	9.2	A	9.4	A	0.2	No
25	Crestmore Rd at 34th St	U	8.9	A	9.6	A	0.7	No	9.6	A	10.6	B	1.0	No

TABLE 5
SUMMARY OF INTERSECTION OPERATION
OPENING YEAR 2023 CUMULATIVE PLUS PROJECT OPTION 1 (RUBIDOUX BLVD)

Int. #	Intersection	Traffic Control	AM Peak Hour						PM Peak Hour					
			Without Project		With Project		Change in Delay	Project-Related Effect?	Without Project		With Project		Change in Delay	Project-Related Effect?
			Delay	LOS	Delay	LOS			Delay	LOS	Delay	LOS		
26	Wallace St at 36th St	U	9.8	A	10.1	B	0.3	No	9.4	A	9.6	A	0.2	No
27	Crestmore Rd at 36th St	U	9.1	A	9.4	A	0.3	No	8.6	A	8.7	A	0.1	No
28	Valley Way at Mission Blvd	S	35.7	D	36.0	D	0.3	No	41.7	D	42.1	D	0.4	No
29	Golden Ave at Mission Blvd	S	12.9	B	13.3	B	0.4	No	12.8	B	12.9	B	0.1	No
30	Opal St at Mission Blvd	S	21.2	C	22.4	C	1.2	No	14.3	B	14.9	B	0.6	No
31	Pacific Ave at Mission Blvd	S	25.7	C	26.3	C	0.6	No	20.4	C	21.2	C	0.8	No
32	La Rue St at Mission Blvd	S	18.6	B	19.1	B	0.5	No	9.4	A	9.5	A	0.1	No
33	Riverview Dr at Mission Blvd	S	68.6	E	94.7	F	26.1	Yes	92.8	F	130.8	F	38.0	Yes
34	Rubidoux Blvd at Mission Blvd	S	76.7	E	101.4	F	24.7	Yes	86.4	F	107.6	F	21.2	Yes
35	Wallace St at Mission Blvd	S	11.3	B	11.4	B	0.1	No	17.7	B	17.7	B	0.0	No
36	Crestmore Rd at Mission Blvd	S	22.1	C	22.1	C	0.0	No	53.6	D	53.7	D	0.1	No
37	Riverview Dr at 42nd St	S	20.6	C	21.1	C	0.5	No	21.6	C	21.8	C	0.2	No
38	Riverview Dr/Limonite Ave at Pacific Ave	S	11.4	B	11.4	B	0.0	No	11.6	B	11.6	B	0.0	No
39	Limonite Ave at Avenue San Juan Bautista	S	22.9	C	22.9	C	0.0	No	23.9	C	24.5	C	0.6	No
40	Camino Real at Limonite Ave	S	36.8	D	38.3	D	1.5	No	39.5	D	42.1	D	2.6	No
41	Hall Ave at "A" St	U	--	--	12.2	B	--	--	--	--	12.2	B	--	--
42	SR-60 SB On-Ramp at "A" St	U	--	--	0.0	A	--	--	--	--	0.0	A	--	--
43	"A" St at "B" St	U	--	--	9.4	A	--	--	--	--	9.4	A	--	--
44	Rubidoux Blvd at "B" St	S	--	--	13.0	B	--	--	--	--	12.0	B	--	--
45	Project Dwy at "B" St	S	--	--	14.6	B	--	--	--	--	19.0	B	--	--
46	Wallace St at "B" St	U	--	--	3.2	A	--	--	--	--	3.0	A	--	--
47	"B" St at Industrial Dwy	U	--	--	11.0	B	--	--	--	--	11.0	B	--	--

Notes:
- Bold values indicate intersections operating at an unacceptable Level of Service
- Intersection operation is based on average intersection delay for signalized intersections.
- Delay values for unsignalized intersections represent the average vehicle delay on the worst (highest delay) intersection approach.

Opening Year 2023 (Phase 1) Cumulative Plus Project – Option 2

Phase 1 – Option 2 project-related traffic was added to the Opening Year 2023 Cumulative traffic volumes, and the resulting peak hour turning movement volumes at the study intersections are shown on Figure 12.

Peak Hour Operating Conditions – Option 2

Intersection Level of Service analysis was conducted for the morning and evening peak hours for the Opening Year 2023 (Phase 1) Cumulative Plus Project – Option 2 conditions. The results of the intersection analysis are shown on Table 6. Copies of intersection analysis worksheets for this scenario are provided in *Appendix C*.

Review of this table indicates that, with the addition project traffic, the following study intersections would continue to operate at an unacceptable Level of Service:

- #6 – Rubidoux Blvd at Market St/20th St: AM – LOS F, PM – LOS F
- #7 – Agua Mansa Rd at Market St: PM – LOS F
- #8 – Rubidoux Blvd at 24th St: AM – LOS F, PM – LOS F
- #9 – Market St at Hall Ave: AM – LOS E, PM – LOS E
- #11 – Market St at 24th St/Via Cerro: PM – LOS F
- #12 – Rubidoux Blvd at 26th St: AM – LOS F, PM – LOS F
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp: AM – LOS F, PM – LOS F
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp: AM – LOS F, PM – LOS F
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd: AM – LOS F, PM – LOS F
- #22 – Market St at SR-60 EB Ramps: PM – LOS E
- #33 – Riverview Dr at Mission Blvd: AM – LOS F, PM – LOS F
- #34 – Rubidoux Blvd at Mission Blvd: AM – LOS F, PM – LOS F

Based on the significance thresholds presented earlier in this report, the following intersection would experience a project-related effect due to the increase in delay caused by the addition of project traffic:

- #6 – Rubidoux Blvd at Market St/20th St
- #7 – Agua Mansa Rd at Market St
- #8 – Rubidoux Blvd at 24th St
- #9 – Market St at Hall Ave
- #11 – Market St at 24th St/Via Cerro
- #12 – Rubidoux Blvd at 26th St
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd
- #22 – Market St at SR-60 EB Ramps

- #33 – Riverview Dr at Mission Blvd
- #34 – Rubidoux Blvd at Mission Blvd

Recommended Improvements are presented in the Recommended Improvement section of this report.



1. Cedar Ave at Slover Ave 118/80 983/752 118/132 146/107 149/231 56/51 163/170 880/584 32/84	2. Cedar Ave at Santa Ana Ave 57/71 960/853 52/52 40/29 105/122 43/35 111/159 828/827 24/47	3. Cedar Ave at Jurupa Ave 24/37 967/950 80/87 135/48 86/73 48/53 36/74 796/883 49/91	4. Cedar Ave at Tarragona Dr/El Rivino Rd 3/20 1053/990 102/134 54/167 1/4 106/175 12/9 2/4 21/7 3/4 598/874 120/90	5. Rubidoux Blvd at Agua Mansa Commerce Park Driveway 1192/1145 934/1099	6. Rubidoux Blvd at Market St/20th St 57/85 87/215 78/165 124/43 706/703 473/516 176/84 339/475 362/426 383/464 216/92 334/390	7. Agua Mansa Rd at Market St 34/32 77/182 33/55 268/378 1/0 128/187 189/233 633/528 20/0 316/495 593/618 41/1 9/0 3/3 1/4	8. Rubidoux Blvd at 24th St 0/4 986/1161 110/113 0/1 3/18 4/10 7/20 857/945 18/50 19/34 3/6 8/33	9. Market St at Hall Ave 593/598 31/34 25/32 57/226 686/728 27/28	10. Hall Ave at 24th Street 6/12 33/54 14/5 4/1 10/30 23/67 11/32 7/40 119/242 11/4 33/31 128/225 35/61 826/707 161/108	11. Market St at 24th St/Via Cerro 1/1 717/1102 22/22 11/32 7/40 119/242 0/1 861/1084 28/22 27/62 2/1 25/88 2/2 0/2 9/6 8/2 974/949 99/66	12. Rubidoux Blvd at 26th St 3/21 0/2 115/56 3/4 118/117 1/12 6/3 0/1 9/5 41/138 128/321 8/1	13. Hall Ave at 26th St 36/46 11/26 109/101 19/39 1035/1303 31/34 10/20 15/41 55/67 62/119 1023/973 58/71	14. Rubidoux Blvd at 28th St 30/45 1/1 40/44 48/59 200/120 1/0 16/45 139/466 1/1	15. Hall Ave at 28th St 47/38 29/30 1200/1650 259/219 103/112 1106/1022	16. Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp 228/207 77/125 895/1002 789/987 1556/1845 462/440 1190/1116	17. Rubidoux Blvd at SR-60 WB On-Ramp 789/987 1556/1845 462/440 1190/1116	18. Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd 120/156 4/22 11/30 67/251 33/93 1170/1617 388/251 22/23 26/36 733/674 139/112 328/542	19. 30th St at Frontage Rd/SR-60 EB On-Ramp 11/4 33/31 128/225 35/61 826/707 161/108 834/466 306/233	20. Market St at Rivera St 3/2 0/15 12/58 5/0 908/1382 62/119 76/96 274/234 25/5 1045/1002 328/243	21. Market St at SR-60 WB Ramps 209/226 1009/1409 979/772 118/138 213/403 472/471	22. Market St at SR-60 EB Ramps 172/172 450/735 676/786 575/868 541/727 201/118	23. Rubidoux at 34th St 134/111 33/45 20/31 51/130 1264/1739 53/187 116/66 7/20 20/22 23/25 1553/1311 43/97	24. Wallace St at 34th St 4/16 53/190 60/98 3/9 44/48 12/29 8/28 59/56 5/5 49/28 52/43 3/5
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Note: Volumes reflect PCE adjustments.

FIGURE 12A
OPENING YEAR 2023 (PHASE 1) PLUS CUMULATIVE
PROJECTS PLUS PROJECT TRAFFIC VOLUMES - OPTION 2

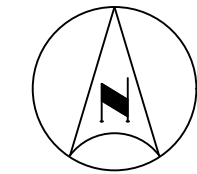
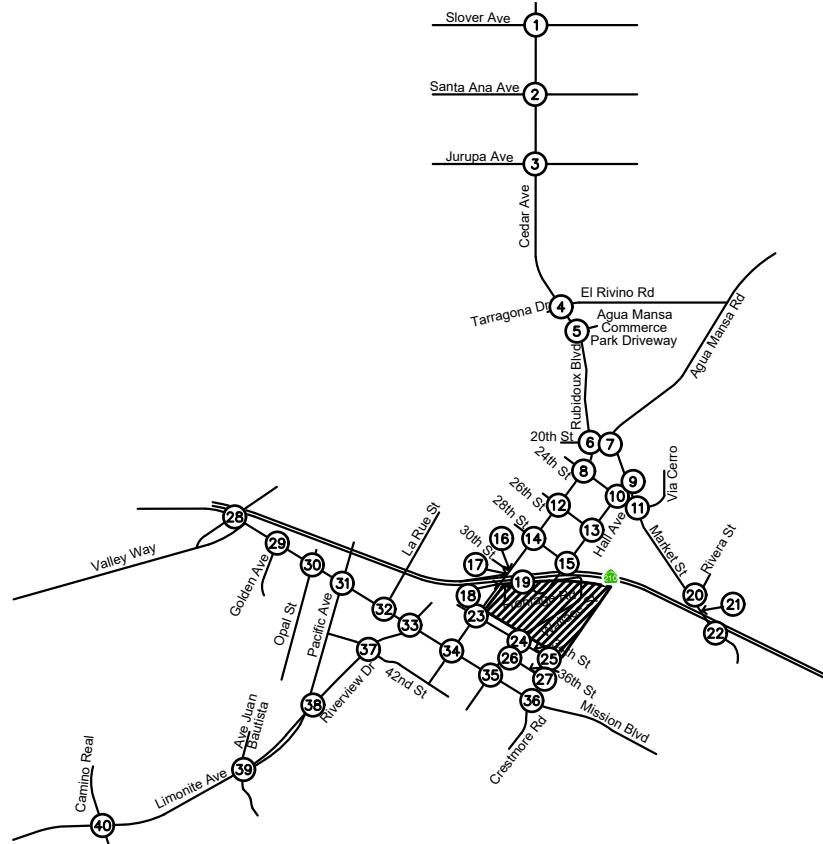
LEGEND:

= Project Site

= Study Intersection

= AM/PM Volumes





NOT TO SCALE

		25. Crestmore Rd at 34th St		26. Wallace St at 36th St		27. Crestmore Rd at 36th St		28. Valley Way at Mission Blvd			
		29. Golden Ave at Mission Blvd		30. Opal St at Mission Blvd		31. Pacific Ave at Mission Blvd		32. La Rue St at Mission Blvd		33. Riverview Dr at Mission Blvd	
34. Rubidoux Blvd at Mission Blvd		35. Wallace St at Mission Blvd		36. Crestmore Rd at Mission Blvd		37. Riverview Dr at 42nd St		38. Riverview Dr/Limonite Ave at Pacific Ave		39. Limonite Ave at Avenue San Juan Bautista	
40. Camino Real at Limonite Ave		41. Hall Ave at "A" St		42. SR-60 SB On-Ramp at "A" St		43. Rubidoux Blvd at "B" St		44. Wallace St at "B" St		45. Rubidoux Blvd at Project Driveway	
46. Industrial Driveway at "B" St		47. "A" St at "B" St		48. Industrial Driveway at "B" St		49. "A" St at "B" St		50. Industrial Driveway at "B" St		51. "A" St at "B" St	

LEGEND:

- = Project Site
- = Study Intersection
- xx/yy = AM/PM Volumes

Note: Volumes reflect PCE adjustments.

FIGURE 12B
OPENING YEAR 2023 (PHASE 1) PLUS CUMULATIVE
PROJECTS PLUS PROJECT TRAFFIC VOLUMES - OPTION 2

TABLE 6
SUMMARY OF INTERSECTION OPERATION
OPENING YEAR 2023 CUMULATIVE PLUS PROJECT OPTION 2 (HALL AVE/26TH ST)

Int. #	Intersection	Traffic Control	AM Peak Hour						PM Peak Hour					
			Without Project		With Project		Change in Delay	Project-Related Effect?	Without Project		With Project		Change in Delay	Project-Related Effect?
			Delay	LOS	Delay	LOS			Delay	LOS	Delay	LOS		
1	Cedar Ave at Slover Ave	S	27.4	C	28.0	C	0.6	No	28.6	C	29.6	C	1.0	No
2	Cedar Ave at Santa Ana Ave	S	13.8	B	14.2	B	0.4	No	15.7	B	16.2	B	0.5	No
3	Cedar Ave at Jurupa Ave	S	14.2	B	14.7	B	0.5	No	14.4	B	15.0	B	0.6	No
4	Cedar Ave at Tarragona Dr/El Rivino Rd	S	10.9	B	10.9	B	0.0	No	15.1	B	15.6	B	0.5	No
5	Rubidoux Blvd at Agua Mansa Commerce Park Dwy	S	0.6	A	0.7	A	0.1	No	0.7	A	0.8	A	0.1	No
6	Rubidoux Blvd at Market St/20th St	S	83.2	F	89.3	F	6.1	Yes	117.4	F	124.2	F	6.8	Yes
7	Agua Mansa Rd at Market St	S	22.7	C	24.1	C	1.4	No	45.0	D	126.6	F	81.6	Yes
8	Rubidoux Blvd at 24th St	U	125.4	F	188.9	F	63.5	Yes	200.0	F	200.0	F	0.0	No
9	Market St at Hall Ave	U	36.1	E	39.5	E	3.4	No	33.4	D	38.5	E	5.1	Yes
10	Hall Ave at 24th St	U	7.9	A	8.3	A	0.4	No	9.2	A	13.1	B	3.9	No
11	Market St at 24th St/Via Cerro	S	30.1	C	30.7	C	0.6	No	56.2	E	80.4	F	24.2	Yes
12	Rubidoux Blvd at 26th St	U	54.7	F	104.4	F	49.7	Yes	72.6	F	460.9	F	388.3	Yes
13	Hall Ave at 26th St	U	10.0	A	14.0	B	4.0	No	11.5	B	25.0	C	13.5	No
14	Rubidoux Blvd at 28th St	S	10.2	B	11.3	B	1.1	No	12.3	B	13.5	B	1.2	No
15	Hall Ave at 28th St	U	7.4	A	8.7	A	1.3	No	8.0	A	15.8	C	7.8	No
16	Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp	S	226.2	F	258.0	F	31.8	Yes	98.1	F	305.6	F	207.5	Yes
17	Rubidoux Blvd at SR-60 WB On-Ramp	U	434.7	F	988.9	F	554.2	Yes	831.1	F	2190.2	F	1359.1	Yes
18	Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd	S	220.6	F	269.3	F	48.7	Yes	93.7	F	210.4	F	116.7	Yes
19	Frontage Rd at SR-60 EB On-Ramp	U	15.4	C	--	--	--	--	10.7	B	--	--	--	--
20	Market St at Rivera St	S	14.8	B	14.9	B	0.1	No	18.4	B	18.9	B	0.5	No
21	Market St at SR-60 WB Ramps	S	11.3	B	11.7	B	0.4	No	20.5	C	24.9	C	4.4	No
22	Market St at SR-60 EB Ramps	S	28.1	C	30.5	C	2.4	No	37.6	D	55.4	E	17.8	Yes
23	Rubidoux Blvd at 34th St	S	13.8	B	15.6	B	1.8	No	15.8	B	17.7	B	1.9	No
24	Wallace St at 34th St	U	7.9	A	8.1	A	0.2	No	9.2	A	9.4	A	0.2	No
25	Crestmore Rd at 34th St	U	8.9	A	9.6	A	0.7	No	9.6	A	10.8	B	1.2	No

TABLE 6
SUMMARY OF INTERSECTION OPERATION
OPENING YEAR 2023 CUMULATIVE PLUS PROJECT OPTION 2 (HALL AVE/26TH ST)

Int. #	Intersection	Traffic Control	AM Peak Hour						PM Peak Hour					
			Without Project		With Project		Change in Delay	Project-Related Effect?	Without Project		With Project		Change in Delay	Project-Related Effect?
			Delay	LOS	Delay	LOS			Delay	LOS	Delay	LOS		
26	Wallace St at 36th St	U	9.8	A	10.1	B	0.3	No	9.4	A	9.6	A	0.2	No
27	Crestmore Rd at 36th St	U	9.1	A	9.4	A	0.3	No	8.6	A	8.8	A	0.2	No
28	Valley Way at Mission Blvd	S	35.7	D	36.0	D	0.3	No	41.7	D	42.3	D	0.6	No
29	Golden Ave at Mission Blvd	S	12.9	B	13.3	B	0.4	No	12.8	B	13.2	B	0.4	No
30	Opal St at Mission Blvd	S	21.2	C	22.4	C	1.2	No	14.3	B	14.9	B	0.6	No
31	Pacific Ave at Mission Blvd	S	25.7	C	26.3	C	0.6	No	20.4	C	21.2	C	0.8	No
32	La Rue St at Mission Blvd	S	18.6	B	19.1	B	0.5	No	9.4	A	9.6	A	0.2	No
33	Riverview Dr at Mission Blvd	S	68.6	E	94.7	F	26.1	Yes	92.8	F	132.2	F	39.4	Yes
34	Rubidoux Blvd at Mission Blvd	S	76.7	E	101.4	F	24.7	Yes	86.4	F	123.9	F	37.5	Yes
35	Wallace St at Mission Blvd	S	11.3	B	11.4	B	0.1	No	17.7	B	17.8	B	0.1	No
36	Crestmore Rd at Mission Blvd	S	22.1	C	22.1	C	0.0	No	53.6	D	54.5	D	0.9	No
37	Riverview Dr at 42nd St	S	20.6	C	21.1	C	0.5	No	21.6	C	22.1	C	0.5	No
38	Riverview Dr/Limonite Ave at Pacific Ave	S	11.4	B	11.4	B	0.0	No	11.6	B	11.6	B	0.0	No
39	Limonite Ave at Avenue San Juan Bautista	S	22.9	C	22.9	C	0.0	No	23.9	C	24.4	C	0.5	No
40	Camino Real at Limonite Ave	S	36.8	D	38.3	D	1.5	No	39.5	D	41.9	D	2.4	No
41	Hall Ave at "A" St	U	--	--	11.5	B	--	--	--	--	9.7	A	--	--
42	SR-60 SB On-Ramp at "A" St	U	--	--	0.0	A	--	--	--	--	0.0	A	--	--
43	"A" St at "B" St	U	--	--	9.4	A	--	--	--	--	11.3	B	--	--
44	Rubidoux Blvd at "B" St	S	--	--	13.2	B	--	--	--	--	14.6	B	--	--
45	Project Dwy at "B" St	S	--	--	19.2	B	--	--	--	--	19.5	B	--	--
46	Wallace St at "B" St	U	--	--	3.0	A	--	--	--	--	3.3	A	--	--
47	"B" St at Industrial Dwy	U	--	--	11.3	B	--	--	--	--	11.6	B	--	--

Notes:
- Bold values indicate intersections operating at an unacceptable Level of Service
- Intersection operation is based on average intersection delay for signalized intersections.
- Delay values for unsignalized intersections represent the average vehicle delay on the worst (highest delay) intersection approach.

Opening Year 2023 (Phase 1) Cumulative Plus Project – Option 3

Phase 1 – Option 3 project-related traffic was added to the Opening Year 2023 Cumulative traffic volumes, and the resulting peak hour turning movement volumes at the study intersections are shown on Figure 13.

Peak Hour Operating Conditions – Option 3

Intersection Level of Service analysis was conducted for the morning and evening peak hours for the Opening Year 2023 (Phase 1) Cumulative Plus Project – Option 3 conditions. The results of the intersection analysis are shown on Table 7. Copies of intersection analysis worksheets for this scenario are provided in *Appendix C*.

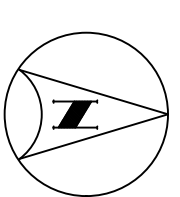
Review of this table indicates that, with the addition project traffic, the following study intersections would continue to operate at an unacceptable Level of Service:

- #6 – Rubidoux Blvd at Market St/20th St: AM – LOS F, PM – LOS F
- #8 – Rubidoux Blvd at 24th St: AM – LOS F, PM – LOS F
- #9 – Market St at Hall Ave: AM – LOS E, PM – LOS E
- #11 – Market St at 24th St/Via Cerro: PM – LOS F
- #12 – Rubidoux Blvd at 26th St: AM – LOS F, PM – LOS F
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp: AM – LOS F, PM – LOS F
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp: AM – LOS F, PM – LOS F
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd: AM – LOS F, PM – LOS F
- #22 – Market St at SR-60 EB Ramps: PM – LOS E
- #33 – Riverview Dr at Mission Blvd: AM – LOS F, PM – LOS F
- #34 – Rubidoux Blvd at Mission Blvd: AM – LOS F, PM – LOS F

Based on the significance thresholds presented earlier in this report, the following intersection would experience a project-related effect due to the increase in delay caused by the addition of project traffic:

- #6 – Rubidoux Blvd at Market St/20th St
- #8 – Rubidoux Blvd at 24th St
- #9 – Market St at Hall Ave
- #11 – Market St at 24th St/Via Cerro
- #12 – Rubidoux Blvd at 26th St
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd
- #22 – Market St at SR-60 EB Ramps
- #33 – Riverview Dr at Mission Blvd
- #34 – Rubidoux Blvd at Mission Blvd

Recommended Improvements are presented in the Recommended Improvement section of this report.



NOT TO SCALE

<p>1. Cedar Ave at Slover Ave</p> <p>118/80 983/752 118/132</p> <p>146/107 149/231 56/51</p> <p>199/198 151/394 93/156</p> <p>163/170 880/584 32/84</p>	<p>2. Cedar Ave at Santa Ana Ave</p> <p>57/71 960/853 52/52</p> <p>40/29 105/122 43/35</p> <p>50/82 94/107 74/119</p> <p>111/159 828/827 24/47</p>	<p>3. Cedar Ave at Jurupa Ave</p> <p>24/37 967/950 80/87</p> <p>135/48 86/73 48/53</p> <p>34/32 77/182 33/55</p> <p>36/74 796/883 49/91</p>	<p>4. Cedar Ave at Tarragona Dr/El Rivino Rd</p> <p>3/20 1053/990 102/134</p> <p>54/167 1/4 106/175</p> <p>12/9 2/4 21/7</p> <p>3/4 598/874 120/90</p>	<p>5. Rubidoux Blvd at Agua Mansa Commerce Park Driveway</p> <p>1192/1145</p> <p>934/1099</p>	<p>6. Rubidoux Blvd at Market St/20th St</p> <p>57/85 87/215 78/165</p> <p>124/43 697/699 482/520</p> <p>176/84 324/432 359/417</p> <p>398/507 216/92 337/427</p>	<p>7. Agua Mansa Rd at Market St</p> <p>259/374 1/0 137/191</p> <p>192/242 660/612 20/0</p> <p>313/486 602/622 41/1</p> <p>9/0 9/3 1/4</p>	<p>8. Rubidoux Blvd at 24th St</p> <p>0/4 980/1194 110/113</p> <p>18/32 3/6 8/33</p> <p>0/1 3/18 4/10</p> <p>7/20 839/894 18/50</p>	<p>9. Market St at Hall Ave</p> <p>593/598 49/42</p> <p>666/728 73/47</p> <p>55/125 66/258</p>	<p>10. Hall Ave at 24th Street</p> <p>6/12 97/81 14/5</p> <p>4/1 10/30 23/67</p> <p>120/156 4/22</p> <p>10/28 106/376 33/93</p>	<p>11. Market St at 24th St/Via Cerro</p> <p>1/1 726/1134 22/22</p> <p>11/32 7/40 119/242</p> <p>11/4 33/31 128/225</p> <p>35/61 872/726 161/108</p>	<p>12. Rubidoux Blvd at 26th St</p> <p>0/1 873/1125 10/14</p> <p>9/11 2/1 4/15</p> <p>2/2 0/2 9/6</p> <p>8/2 974/949 53/47</p>	<p>13. Hall Ave at 26th St</p> <p>3/4 182/145 1/12</p> <p>6/3 0/1 9/5</p> <p>3/21 0/2 51/29</p> <p>2/14 166/444 8/1</p>	<p>14. Rubidoux Blvd at 28th St</p> <p>19/39 1026/1271 31/34</p> <p>10/20 15/41 55/67</p> <p>36/46 11/26 109/101</p> <p>62/119 977/954 58/71</p>	<p>15. Hall Ave at 28th St</p> <p>48/59 200/120</p> <p>1/0</p> <p>30/45 1/1 40/44</p> <p>16/45 139/466 1/1</p>	<p>16. Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp</p> <p>29/30 1191/1618</p> <p>182/188 77/125 895/1002</p> <p>47/38 259/219</p> <p>103/112 1106/1022</p>	<p>17. Rubidoux Blvd at SR-60 WB On-Ramp</p> <p>780/955 1556/1845</p> <p>462/440 1190/1116</p>	<p>18. Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd</p> <p>1170/1617 388/251</p> <p>884/973 1050/732</p> <p>733/674 139/112 328/542</p>	<p>19. 30th St at Frontage Rd/SR-60 EB On-Ramp</p> <p>834/466 306/233</p>	<p>20. Market St at Rivera St</p> <p>5/0 917/1414 62/119</p> <p>76/96 274/234</p> <p>3/2 0/15 12/58</p> <p>25/5 1091/1022 328/243</p>	<p>21. Market St at SR-60 WB Ramps</p> <p>218/258 1009/1409</p> <p>1025/792 118/138</p> <p>213/403 472/471</p>	<p>22. Market St at SR-60 EB Ramps</p> <p>450/735 676/786</p> <p>172/172 575/868</p> <p>541/727 201/118</p>	<p>23. Rubidoux at 34th St</p> <p>51/130 1264/1739 53/187</p> <p>116/66 7/20 20/22</p> <p>134/111 33/45 20/31</p> <p>23/25 1553/1311 43/97</p>	<p>24. Wallace St at 34th St</p> <p>3/9 44/48 12/29</p> <p>8/28 59/56 5/5</p> <p>4/16 53/190 60/98</p> <p>49/28 52/43 3/5</p>
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Note: Volumes reflect PCE adjustments.

FIGURE 13A
OPENING YEAR 2023 (PHASE 1) PLUS CUMULATIVE
PROJECTS PLUS PROJECT TRAFFIC VOLUMES - OPTION 3

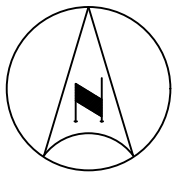
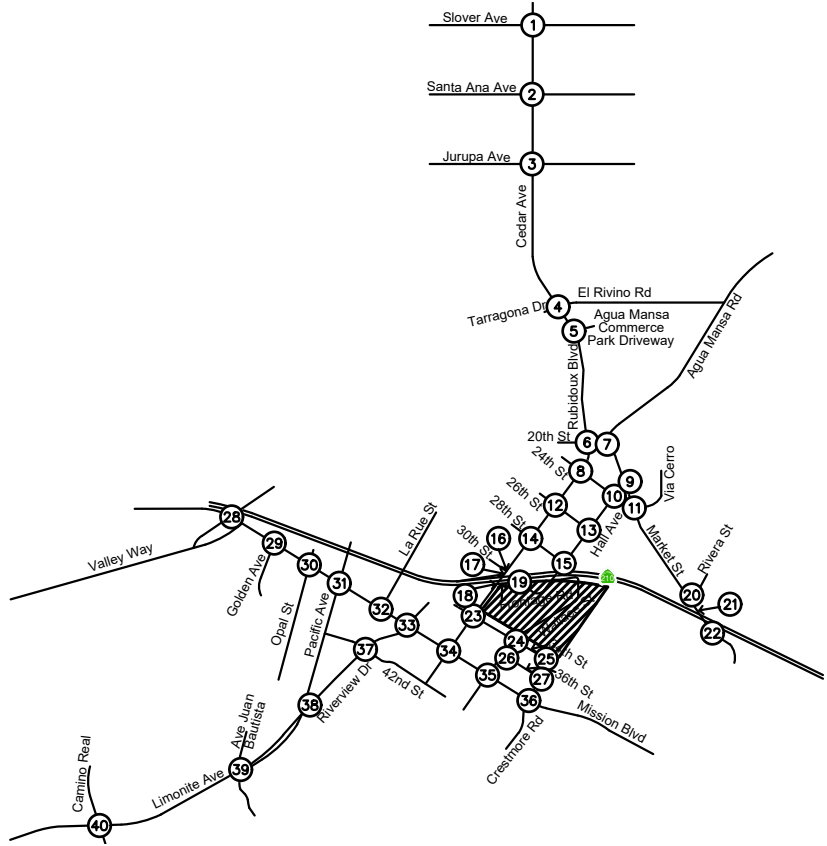
LEGEND:

= Project Site

= Study Intersection

= AM/PM Volumes





NOT TO SCALE

25. Crestmore Rd at 34th St	26. Wallace St at 36th St	27. Crestmore Rd at 36th St	28. Valley Way at Mission Blvd				
<p>↓ 21/41</p> <p>← 2/3</p> <p>↖ 2/1</p> <p>↗ 3/1</p> <p>↘ 42/184</p> <p>↖ 42/62</p> <p>↗ 19/16</p> <p>↘ 3/3</p>	<p>↓ 94/77</p> <p>↖ 5/11</p> <p>↗ 7/3</p> <p>↘ 9/6</p> <p>↖ 95/85</p> <p>↗ 8/6</p>	<p>↓ 62/98</p> <p>↖ 1/0</p> <p>↘ 4/5</p> <p>↗ 77/146</p>	<p>↖ 323/310</p> <p>↘ 336/394</p> <p>↗ 453/456</p> <p>↖ 656/581</p> <p>↘ 272/251</p> <p>↗ 60/50</p> <p>↖ 376/742</p> <p>↘ 507/908</p> <p>↗ 22/35</p> <p>↖ 16/20</p> <p>↘ 402/477</p> <p>↗ 33/63</p>				
29. Golden Ave at Mission Blvd	30. Opal St at Mission Blvd	31. Pacific Ave at Mission Blvd	32. La Rue St at Mission Blvd	33. Riverview Dr at Mission Blvd			
<p>↖ 3/33</p> <p>↘ 0/106</p> <p>↗ 4/235</p> <p>↖ 1099/1458</p> <p>↘ 34/24</p> <p>↖ 17/66</p> <p>↘ 1076/835</p> <p>↗ 85/1</p> <p>↖ 239/0</p> <p>↘ 0/2</p> <p>↗ 54/11</p>	<p>↖ 141/12</p> <p>↘ 34/10</p> <p>↗ 97/12</p> <p>↖ 52/11</p> <p>↘ 901/863</p> <p>↗ 243/166</p> <p>↖ 85/40</p> <p>↘ 937/1347</p> <p>↗ 86/94</p> <p>↖ 106/66</p> <p>↘ 16/9</p> <p>↗ 167/96</p>	<p>↖ 124/83</p> <p>↘ 62/41</p> <p>↗ 80/79</p> <p>↖ 54/102</p> <p>↘ 950/885</p> <p>↗ 69/137</p> <p>↖ 123/147</p> <p>↘ 929/1496</p> <p>↗ 53/151</p> <p>↖ 162/63</p> <p>↘ 50/26</p> <p>↗ 73/52</p>	<p>↖ 110/48</p> <p>↘ 152/81</p> <p>↗ 190/73</p> <p>↘ 1030/988</p> <p>↖ 252/113</p> <p>↘ 1070/1310</p>	<p>↖ 30/28</p> <p>↘ 53/53</p> <p>↗ 28/52</p> <p>↖ 28/67</p> <p>↘ 837/888</p> <p>↗ 450/625</p> <p>↖ 38/67</p> <p>↘ 780/1392</p> <p>↗ 221/232</p> <p>↖ 295/227</p> <p>↘ 69/64</p> <p>↗ 546/427</p>			
34. Rubidoux Blvd at Mission Blvd	35. Wallace St at Mission Blvd	36. Crestmore Rd at Mission Blvd	37. Riverview Dr at 42nd St	38. Riverview Dr/Limonite Ave at Pacific Ave	39. Limonite Ave at Avenue San Juan Bautista	40. Camino Real at Limonite Ave	41. Hall Ave at "A" St
<p>↖ 641/789</p> <p>↘ 130/180</p> <p>↗ 269/363</p> <p>↖ 267/283</p> <p>↘ 582/739</p> <p>↗ 109/196</p> <p>↖ 739/673</p> <p>↘ 584/1208</p> <p>↗ 10/25</p> <p>↖ 24/44</p> <p>↘ 178/120</p> <p>↗ 44/61</p>	<p>↖ 102/77</p> <p>↘ 7/26</p> <p>↗ 14/52</p> <p>↖ 33/46</p> <p>↘ 685/885</p> <p>↗ 35/74</p> <p>↖ 95/133</p> <p>↘ 740/1521</p> <p>↗ 48/127</p> <p>↖ 63/109</p> <p>↘ 6/12</p> <p>↗ 25/84</p>	<p>↖ 19/10</p> <p>↘ 13/46</p> <p>↗ 59/181</p> <p>↖ 24/67</p> <p>↘ 633/912</p> <p>↗ 153/369</p> <p>↖ 7/8</p> <p>↘ 672/1531</p> <p>↗ 40/126</p> <p>↖ 66/82</p> <p>↘ 21/25</p> <p>↗ 316/364</p>	<p>↖ 29/48</p> <p>↘ 681/783</p> <p>↗ 52/63</p> <p>↖ 149/26</p> <p>↘ 57/77</p> <p>↗ 116/102</p> <p>↖ 22/29</p> <p>↘ 62/111</p> <p>↗ 16/45</p> <p>↖ 12/31</p> <p>↘ 819/715</p> <p>↗ 120/129</p>	<p>↖ 115/58</p> <p>↘ 614/864</p> <p>↗ 81/69</p> <p>↖ 110/133</p> <p>↖ 174/201</p> <p>↘ 807/1002</p>	<p>↖ 59/98</p> <p>↘ 812/1149</p> <p>↗ 66/124</p> <p>↖ 107/109</p> <p>↘ 16/11</p> <p>↗ 17/19</p> <p>↖ 57/65</p> <p>↘ 5/7</p> <p>↗ 9/4</p> <p>↖ 22/21</p> <p>↘ 742/906</p> <p>↗ 12/23</p>	<p>↖ 240/231</p> <p>↘ 78/129</p> <p>↗ 76/64</p> <p>↖ 71/52</p> <p>↘ 951/885</p> <p>↗ 102/144</p> <p>↖ 151/249</p> <p>↘ 837/1222</p> <p>↗ 72/120</p> <p>↖ 119/83</p> <p>↘ 70/106</p> <p>↗ 132/188</p>	<p>↖ 158/78</p> <p>↗ 102/375</p> <p>↖ 279/152</p>
42. SR-60 SB On-Ramp at "A" St	43. Rubidoux Blvd at "B" St	44. Wallace St at "B" St	45. Rubidoux Blvd at Project Driveway	46. Industrial Driveway at "B" St	47. "A" St at "B" St		
<p>← 102/375</p> <p>↖ 437/230</p>	<p>↖ 55/122</p> <p>↘ 19/71</p> <p>↗ 33/146</p> <p>↘ 19/71</p> <p>↖ 211/109</p> <p>↘ 119/70</p> <p>↗ 108/52</p> <p>↖ 34/107</p> <p>↘ 39/25</p> <p>↗ 39/25</p>	<p>↖ 830/1213</p> <p>↘ 279/304</p> <p>↗ 218/361</p> <p>↘ 137/209</p> <p>↖ 1103/927</p> <p>↘ 115/94</p>	<p>↖ 214/300</p> <p>↘ 14/21</p> <p>↗ 17/21</p> <p>↘ 135/244</p> <p>↗ 2/1</p> <p>↖ 201/239</p> <p>↘ 161/150</p> <p>↗ 32/9</p> <p>↖ 6/26</p> <p>↘ 0/1</p>	<p>↖ 31/121</p> <p>↘ 1/3</p> <p>↗ 6/23</p> <p>↖ 18/12</p> <p>↘ 81/35</p> <p>↖ 57/35</p> <p>↘ 31/91</p> <p>↗ 6/10</p> <p>↖ 21/23</p> <p>↘ 7/4</p>	<p>↖ 16/8</p> <p>↘ 35/147</p> <p>↗ 92/39</p> <p>↖ 26/91</p> <p>↖ 8/16</p> <p>↘ 4/2</p> <p>↗ 78/49</p>		

LEGEND:

- = Project Site
- = Study Intersection
- xx/yy = AM/PM Volumes

Note: Volumes reflect PCE adjustments.

FIGURE 13B
OPENING YEAR 2023 (PHASE 1) PLUS CUMULATIVE
PROJECTS PLUS PROJECT TRAFFIC VOLUMES - OPTION 3



TABLE 7
SUMMARY OF INTERSECTION OPERATION
OPENING YEAR 2023 CUMULATIVE PLUS PROJECT OPTION 3 (HALL AVE/MARKET ST/RUBIDOUX BLVD)

Int. #	Intersection	Traffic Control	AM Peak Hour						PM Peak Hour					
			Without Project		With Project		Change in Delay	Project-Related Effect?	Without Project		With Project		Change in Delay	Project-Related Effect?
			Delay	LOS	Delay	LOS			Delay	LOS	Delay	LOS		
1	Cedar Ave at Slover Ave	S	27.4	C	28.0	C	0.6	No	28.6	C	29.6	C	1.0	No
2	Cedar Ave at Santa Ana Ave	S	13.8	B	14.2	B	0.4	No	15.7	B	16.2	B	0.5	No
3	Cedar Ave at Jurupa Ave	S	14.2	B	14.7	B	0.5	No	14.4	B	15.0	B	0.6	No
4	Cedar Ave at Tarragona Dr/El Rivino Rd	S	10.9	B	10.9	B	0.0	No	15.1	B	15.6	B	0.5	No
5	Rubidoux Blvd at Agua Mansa Commerce Park Dwy	S	0.6	A	0.7	A	0.1	No	0.7	A	0.8	A	0.1	No
6	Rubidoux Blvd at Market St/20th St	S	83.2	F	92.2	F	9.0	Yes	117.4	F	134.7	F	17.3	Yes
7	Agua Mansa Rd at Market St	S	22.7	C	24.7	C	2.0	No	45.0	D	48.9	D	3.9	No
8	Rubidoux Blvd at 24th St	U	125.4	F	178.5	F	53.1	Yes	200.0	F	10000.0	F	9800.0	No
9	Market St at Hall Ave	U	36.1	E	77.4	F	41.3	Yes	33.4	D	146.0	F	112.6	Yes
10	Hall Ave at 24th St	U	7.9	A	8.8	A	0.9	No	9.2	A	21.4	C	12.2	No
11	Market St at 24th St/Via Cerro	S	30.1	C	32.4	C	2.3	No	56.2	E	86.4	F	30.2	Yes
12	Rubidoux Blvd at 26th St	U	54.7	F	72.2	F	17.5	Yes	72.6	F	106.9	F	34.3	Yes
13	Hall Ave at 26th St	U	10.0	A	12.9	B	2.9	No	11.5	B	18.9	C	7.4	No
14	Rubidoux Blvd at 28th St	S	10.2	B	11.2	B	1.0	No	12.3	B	13.4	B	1.1	No
15	Hall Ave at 28th St	U	7.4	A	8.7	A	1.3	No	8.0	A	15.8	C	7.8	No
16	Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp	S	226.2	F	258.0	F	31.8	Yes	98.1	F	305.6	F	207.5	Yes
17	Rubidoux Blvd at SR-60 WB On-Ramp	U	434.7	F	977.2	F	542.5	Yes	831.1	F	2107.7	F	1276.6	Yes
18	Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd	S	220.6	F	269.3	F	48.7	Yes	93.7	F	210.4	F	116.7	Yes
19	Frontage Rd at SR-60 EB On-Ramp	U	15.4	C	--	--	--	--	10.7	B	--	--	--	--
20	Market St at Rivera St	S	14.8	B	15.0	B	0.2	No	18.4	B	19.0	B	0.6	No
21	Market St at SR-60 WB Ramps	S	11.3	B	11.7	B	0.4	No	20.5	C	24.8	C	4.3	No
22	Market St at SR-60 EB Ramps	S	28.1	C	30.5	C	2.4	No	37.6	D	55.4	E	17.8	Yes
23	Rubidoux Blvd at 34th St	S	13.8	B	15.6	B	1.8	No	15.8	B	17.7	B	1.9	No
24	Wallace St at 34th St	U	7.9	A	8.1	A	0.2	No	9.2	A	9.4	A	0.2	No
25	Crestmore Rd at 34th St	U	8.9	A	9.6	A	0.7	No	9.6	A	10.8	B	1.2	No

TABLE 7
SUMMARY OF INTERSECTION OPERATION
OPENING YEAR 2023 CUMULATIVE PLUS PROJECT OPTION 3 (HALL AVE/MARKET ST/RUBIDOUX BLVD)

Int. #	Intersection	Traffic Control	AM Peak Hour						PM Peak Hour					
			Without Project		With Project		Change in Delay	Project-Related Effect?	Without Project		With Project		Change in Delay	Project-Related Effect?
			Delay	LOS	Delay	LOS			Delay	LOS	Delay	LOS		
26	Wallace St at 36th St	U	9.8	A	10.1	B	0.3	No	9.4	A	9.6	A	0.2	No
27	Crestmore Rd at 36th St	U	9.1	A	9.4	A	0.3	No	8.6	A	8.8	A	0.2	No
28	Valley Way at Mission Blvd	S	35.7	D	36.0	D	0.3	No	41.7	D	42.3	D	0.6	No
29	Golden Ave at Mission Blvd	S	12.9	B	13.3	B	0.4	No	12.8	B	13.2	B	0.4	No
30	Opal St at Mission Blvd	S	21.2	C	22.4	C	1.2	No	14.3	B	14.9	B	0.6	No
31	Pacific Ave at Mission Blvd	S	25.7	C	26.3	C	0.6	No	20.4	C	21.2	C	0.8	No
32	La Rue St at Mission Blvd	S	18.6	B	19.1	B	0.5	No	9.4	A	9.6	A	0.2	No
33	Riverview Dr at Mission Blvd	S	68.6	E	94.7	F	26.1	Yes	92.8	F	132.2	F	39.4	Yes
34	Rubidoux Blvd at Mission Blvd	S	76.7	E	101.4	F	24.7	Yes	86.4	F	123.9	F	37.5	Yes
35	Wallace St at Mission Blvd	S	11.3	B	11.4	B	0.1	No	17.7	B	17.8	B	0.1	No
36	Crestmore Rd at Mission Blvd	S	22.1	C	22.1	C	0.0	No	53.6	D	54.5	D	0.9	No
37	Riverview Dr at 42nd St	S	20.6	C	21.1	C	0.5	No	21.6	C	22.1	C	0.5	No
38	Riverview Dr/Limonite Ave at Pacific Ave	S	11.4	B	11.4	B	0.0	No	11.6	B	11.6	B	0.0	No
39	Limonite Ave at Avenue San Juan Bautista	S	22.9	C	22.9	C	0.0	No	23.9	C	24.4	C	0.5	No
40	Camino Real at Limonite Ave	S	36.8	D	38.3	D	1.5	No	39.5	D	41.9	D	2.4	No
41	Hall Ave at "A" St	U	--	--	11.5	B	--	--	--	--	9.7	A	--	--
42	SR-60 SB On-Ramp at "A" St	U	--	--	0.0	A	--	--	--	--	0.0	A	--	--
43	"A" St at "B" St	U	--	--	9.4	A	--	--	--	--	11.3	B	--	--
44	Rubidoux Blvd at "B" St	S	--	--	13.2	B	--	--	--	--	14.6	B	--	--
45	Project Dwy at "B" St	S	--	--	19.2	B	--	--	--	--	19.4	B	--	--
46	Wallace St at "B" St	U	--	--	3.0	A	--	--	--	--	3.3	A	--	--
47	"B" St at Industrial Dwy	U	--	--	11.3	B	--	--	--	--	11.6	B	--	--

Notes:
- Bold values indicate intersections operating at an unacceptable Level of Service
- Intersection operation is based on average intersection delay for signalized intersections.
- Delay values for unsignalized intersections represent the average vehicle delay on the worst (highest delay) intersection approach.

Opening Year 2026 Cumulative

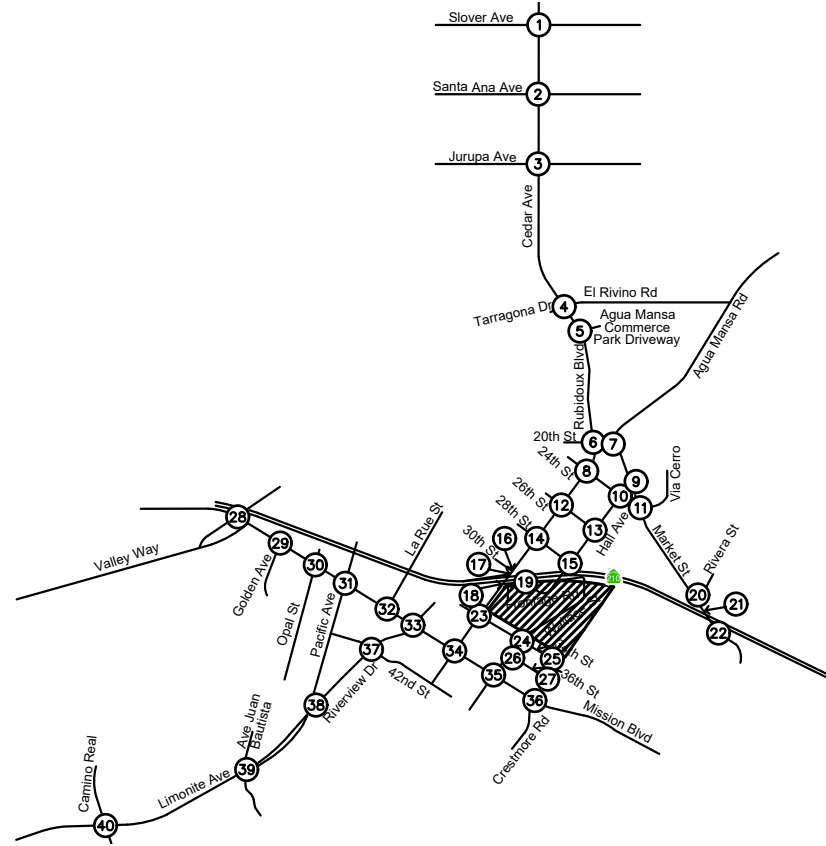
The Project Phase 2 Opening Year (the year the project would be constructed and occupied) is anticipated to be Year 2026. Based on consultation with City staff, an ambient growth rate of 2.0% per year to Opening Year 2026 was applied to existing traffic volumes. Cumulative Project traffic was also added to Opening Year 2026 and was previously explained, the resulting peak hour turning movement volumes at the study intersections are shown on Figure 14.

Peak Hour Operating Conditions

Intersection Level of Service analysis was conducted for the morning and evening peak hours for the Opening Year 2026 Cumulative conditions. The results are shown on Table 8. Intersection analysis worksheets are provided in *Appendix C*.

Review of this table indicates that, with the addition of ambient growth and cumulative project traffic, the following study intersections would operate at an unacceptable Level of Service:

- #6 – Rubidoux Blvd at Market St/20th St: AM – LOS F, PM – LOS F
- #8 – Rubidoux Blvd at 24th St: AM – LOS F, PM – LOS F
- #9 – Market St at Hall Ave: AM – LOS E, PM – LOS E
- #11 – Market St at 24th St/Via Cerro: PM – LOS E
- #12 – Rubidoux Blvd at 26th St: AM – LOS F, PM – LOS F
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp: AM – LOS F, PM – LOS F
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp: AM – LOS F, PM – LOS F
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd: AM – LOS F, PM – LOS F
- #33 – Riverview Dr at Mission Blvd: AM – LOS F, PM – LOS F
- #34 – Rubidoux Blvd at Mission Blvd: AM – LOS F, PM – LOS F
- #36 – Crestmore Rd at Mission Blvd: PM – LOS E



NOT TO SCALE

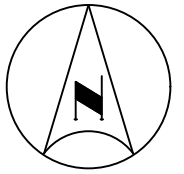
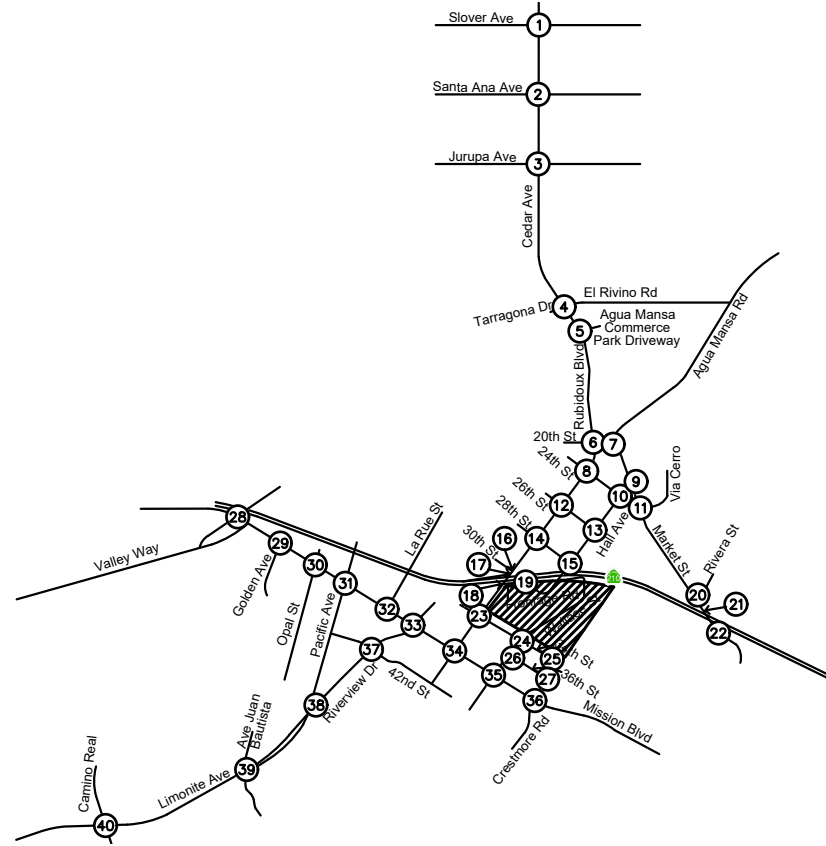
1. Cedar Ave at Slover Ave		2. Cedar Ave at Santa Ana Ave		3. Cedar Ave at Jurupa Ave		4. Cedar Ave at Tarragona Dr/El Rivino Rd									
$\begin{matrix} \leftarrow 124/85 \\ \leftarrow 1015/779 \\ \leftarrow 124/140 \\ \leftarrow 154/113 \\ \leftarrow 157/244 \\ \leftarrow 43/39 \end{matrix}$		$\begin{matrix} \leftarrow 61/75 \\ \leftarrow 958/856 \\ \leftarrow 55/55 \\ \leftarrow 42/31 \\ \leftarrow 111/129 \\ \leftarrow 38/30 \end{matrix}$		$\begin{matrix} \leftarrow 25/40 \\ \leftarrow 952/944 \\ \leftarrow 85/92 \\ \leftarrow 143/51 \\ \leftarrow 91/77 \\ \leftarrow 43/48 \end{matrix}$		$\begin{matrix} \leftarrow 3/21 \\ \leftarrow 1028/972 \\ \leftarrow 108/142 \\ \leftarrow 57/177 \\ \leftarrow 1/4 \\ \leftarrow 112/185 \end{matrix}$									
$\begin{matrix} 210/209 \rightarrow \\ 160/417 \rightarrow \\ 82/150 \rightarrow \\ 162/160 \rightarrow \\ 917/591 \rightarrow \\ 24/69 \rightarrow \end{matrix}$		$\begin{matrix} 63/87 \rightarrow \\ 99/113 \rightarrow \\ 70/119 \rightarrow \\ 112/158 \rightarrow \\ 842/810 \rightarrow \\ 20/41 \rightarrow \end{matrix}$		$\begin{matrix} 36/34 \rightarrow \\ 81/193 \rightarrow \\ 27/50 \rightarrow \\ 33/69 \rightarrow \\ 798/849 \rightarrow \\ 46/87 \rightarrow \end{matrix}$		$\begin{matrix} 13/10 \rightarrow \\ 2/4 \rightarrow \\ 22/8 \rightarrow \\ 3/4 \rightarrow \\ 578/821 \rightarrow \\ 127/96 \rightarrow \end{matrix}$									
5. Rubidoux Blvd at Agua Mansa Commerce Park Driveway		6. Rubidoux Blvd at Market St/20th St		7. Agua Mansa Rd at Market St		8. Rubidoux Blvd at 24th St		9. Market St at Hall Ave							
$\begin{matrix} \leftarrow 1174/1136 \end{matrix}$		$\begin{matrix} \leftarrow 128/45 \\ \leftarrow 664/670 \\ \leftarrow 499/545 \\ \leftarrow 404/490 \\ \leftarrow 220/95 \\ \leftarrow 330/389 \end{matrix}$		$\begin{matrix} \leftarrow 261/378 \\ \leftarrow 1/0 \\ \leftarrow 118/187 \\ \leftarrow 195/229 \\ \leftarrow 659/555 \\ \leftarrow 21/0 \end{matrix}$		$\begin{matrix} \leftarrow 0/4 \\ \leftarrow 917/1102 \\ \leftarrow 117/120 \\ \leftarrow 19/34 \\ \leftarrow 3/7 \\ \leftarrow 9/35 \end{matrix}$		$\begin{matrix} \leftarrow 726/770 \\ \leftarrow 20/24 \end{matrix}$							
$\begin{matrix} 934/1059 \rightarrow \end{matrix}$		$\begin{matrix} 60/87 \rightarrow \\ 91/221 \rightarrow \\ 64/146 \rightarrow \\ 163/63 \rightarrow \\ 306/402 \rightarrow \\ 366/422 \rightarrow \end{matrix}$		$\begin{matrix} 319/496 \rightarrow \\ 625/646 \rightarrow \\ 43/1 \rightarrow \\ 10/0 \rightarrow \\ 1/3 \rightarrow \\ 14/1 \rightarrow \end{matrix}$		$\begin{matrix} 0/1 \rightarrow \\ 3/19 \rightarrow \\ 4/11 \rightarrow \\ 8/21 \rightarrow \\ 814/847 \rightarrow \\ 19/53 \rightarrow \end{matrix}$		$\begin{matrix} 627/633 \rightarrow \\ 15/26 \rightarrow \\ 22/17 \rightarrow \\ 9/21 \rightarrow \end{matrix}$							
10. Hall Ave at 24th Street		11. Market St at 24th St/Via Cerro		12. Rubidoux Blvd at 26th St		13. Hall Ave at 26th St		14. Rubidoux Blvd at 28th St		15. Hall Ave at 28th St		16. Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp		17. Rubidoux Blvd at SR-60 WB On-Ramp	
$\begin{matrix} \leftarrow 7/13 \\ \leftarrow 10/42 \\ \leftarrow 14/6 \\ \leftarrow 4/1 \\ \leftarrow 11/32 \\ \leftarrow 15/66 \end{matrix}$		$\begin{matrix} \leftarrow 1/1 \\ \leftarrow 702/937 \\ \leftarrow 23/23 \\ \leftarrow 12/34 \\ \leftarrow 8/42 \\ \leftarrow 125/256 \end{matrix}$		$\begin{matrix} \leftarrow 0/1 \\ \leftarrow 804/1028 \\ \leftarrow 11/14 \\ \leftarrow 10/12 \\ \leftarrow 2/1 \\ \leftarrow 4/15 \end{matrix}$		$\begin{matrix} \leftarrow 3/4 \\ \leftarrow 91/105 \\ \leftarrow 1/13 \\ \leftarrow 7/3 \\ \leftarrow 0/1 \\ \leftarrow 10/6 \end{matrix}$		$\begin{matrix} \leftarrow 20/40 \\ \leftarrow 979/1193 \\ \leftarrow 18/23 \\ \leftarrow 6/11 \\ \leftarrow 11/24 \\ \leftarrow 58/70 \end{matrix}$		$\begin{matrix} \leftarrow 51/63 \\ \leftarrow 62/58 \\ \leftarrow 1/0 \end{matrix}$		$\begin{matrix} \leftarrow 30/31 \\ \leftarrow 1125/1530 \\ \leftarrow 141/175 \\ \leftarrow 80/130 \\ \leftarrow 702/843 \end{matrix}$		$\begin{matrix} \leftarrow 808/959 \\ \leftarrow 1279/1602 \end{matrix}$	
$\begin{matrix} 1/9 \rightarrow \\ 127/165 \rightarrow \\ 4/23 \rightarrow \\ 11/30 \rightarrow \\ 14/31 \rightarrow \\ 35/98 \rightarrow \end{matrix}$		$\begin{matrix} 12/4 \rightarrow \\ 35/33 \rightarrow \\ 135/238 \rightarrow \\ 29/59 \rightarrow \\ 854/737 \rightarrow \\ 171/114 \rightarrow \end{matrix}$		$\begin{matrix} 2/2 \rightarrow \\ 0/2 \rightarrow \\ 10/7 \rightarrow \\ 9/2 \rightarrow \\ 956/905 \rightarrow \\ 8/29 \rightarrow \end{matrix}$		$\begin{matrix} 3/22 \rightarrow \\ 0/2 \rightarrow \\ 6/10 \rightarrow \\ 2/14 \rightarrow \\ 78/102 \rightarrow \\ 9/1 \rightarrow \end{matrix}$		$\begin{matrix} 37/48 \rightarrow \\ 10/26 \rightarrow \\ 89/89 \rightarrow \\ 60/114 \rightarrow \\ 911/898 \rightarrow \\ 62/75 \rightarrow \end{matrix}$		$\begin{matrix} 32/47 \rightarrow \\ 1/1 \rightarrow \\ 25/33 \rightarrow \\ 7/18 \rightarrow \\ 50/125 \rightarrow \\ 1/1 \rightarrow \end{matrix}$		$\begin{matrix} 48/39 \rightarrow \\ 271/229 \rightarrow \\ 105/115 \rightarrow \\ 1086/980 \rightarrow \end{matrix}$		$\begin{matrix} 407/312 \rightarrow \\ 1172/1075 \rightarrow \end{matrix}$	
18. Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd		19. 30th St at Frontage Rd/SR-60 EB On-Ramp		20. Market St at Rivera St		21. Market St at SR-60 WB Ramps		22. Market St at SR-60 EB Ramps		23. Rubidoux at 34th St		24. Wallace St at 34th St			
$\begin{matrix} \leftarrow 1026/1455 \\ \leftarrow 256/171 \\ \leftarrow 22/24 \\ \leftarrow 27/37 \end{matrix}$		$\begin{matrix} \leftarrow 6/0 \\ \leftarrow 901/1231 \\ \leftarrow 64/125 \\ \leftarrow 78/100 \\ \leftarrow 277/232 \end{matrix}$		$\begin{matrix} \leftarrow 206/221 \\ \leftarrow 1010/1260 \\ \leftarrow 1027/812 \\ \leftarrow 122/143 \end{matrix}$		$\begin{matrix} \leftarrow 467/753 \\ \leftarrow 664/622 \end{matrix}$		$\begin{matrix} \leftarrow 54/136 \\ \leftarrow 1207/1595 \\ \leftarrow 56/198 \\ \leftarrow 123/69 \\ \leftarrow 8/21 \\ \leftarrow 21/23 \end{matrix}$		$\begin{matrix} \leftarrow 3/10 \\ \leftarrow 40/37 \\ \leftarrow 13/31 \\ \leftarrow 9/30 \\ \leftarrow 63/59 \\ \leftarrow 6/6 \end{matrix}$					
$\begin{matrix} 758/704 \rightarrow \\ 12/51 \rightarrow \\ 265/487 \rightarrow \\ 784/781 \rightarrow \\ 973/599 \rightarrow \end{matrix}$		$\begin{matrix} 3/2 \rightarrow \\ 0/15 \rightarrow \\ 13/62 \rightarrow \\ 26/6 \rightarrow \\ 1074/1041 \rightarrow \\ 337/240 \rightarrow \end{matrix}$		$\begin{matrix} 169/163 \rightarrow \\ 594/893 \rightarrow \\ 530/734 \rightarrow \\ 209/122 \rightarrow \end{matrix}$		$\begin{matrix} 141/117 \rightarrow \\ 35/47 \rightarrow \\ 21/33 \rightarrow \\ 24/26 \rightarrow \\ 1427/1188 \rightarrow \\ 45/102 \rightarrow \end{matrix}$		$\begin{matrix} 4/17 \rightarrow \\ 56/201 \rightarrow \\ 64/103 \rightarrow \\ 4/17 \rightarrow \\ 52/30 \rightarrow \\ 25/17 \rightarrow \\ 3/6 \rightarrow \end{matrix}$		$\begin{matrix} 777/341 \rightarrow \\ 29/86 \rightarrow \\ 45/8 \rightarrow \end{matrix}$					

LEGEND:

- = Project Site
- = Study Intersection
- xx/yy = AM/PM Volumes

Note: Volumes reflect PCE adjustments.

FIGURE 14A
OPENING YEAR 2026 PLUS CUMULATIVE
PROJECT TRAFFIC VOLUMES



NOT TO SCALE

25. Crestmore Rd at 34th St		26. Wallace St at 36th St		27. Crestmore Rd at 36th St		28. Valley Way at Mission Blvd	
29. Golden Ave at Mission Blvd		30. Opal St at Mission Blvd		31. Pacific Ave at Mission Blvd		32. La Rue St at Mission Blvd	
33. Riverview Dr at Mission Blvd		34. Rubidoux Blvd at Mission Blvd		35. Wallace St at Mission Blvd		36. Crestmore Rd at Mission Blvd	
37. Riverview Dr at 42nd St		38. Riverview Dr/Limonite Ave at Pacific Ave		39. Limonite Ave at Avenue San Juan Bautista		40. Camino Real at Limonite Ave	
41. Hall Ave at "A" St		42. SR-60 SB On-Ramp at "A" St		43. Rubidoux Blvd at "B" St		44. Wallace St at "B" St	
45. Rubidoux Blvd at Project Driveway		46. Industrial Driveway at "B" St		47. "A" St at "B" St		FUTURE INTERSECTION	

LEGEND:

- = Project Site
- = Study Intersection
- xx/yy = AM/PM Volumes

Note: Volumes reflect PCE adjustments.

FIGURE 14B
OPENING YEAR 2026 PLUS CUMULATIVE
PROJECT TRAFFIC VOLUMES

TABLE 8
SUMMARY OF INTERSECTION OPERATION
OPENING YEAR 2026 CUMULATIVE

Int. #	Intersection	Traffic Control	AM Peak Hour		PM Peak Hour	
			Delay	LOS	Delay	LOS
1	Cedar Ave at Slover Ave	S	29.0	C	29.9	C
2	Cedar Ave at Santa Ana Ave	S	14.4	B	16.5	B
3	Cedar Ave at Jurupa Ave	S	14.9	B	15.1	B
4	Cedar Ave at Tarragona Dr/El Rivino Rd	S	11.4	B	16.1	B
5	Rubidoux Blvd at Agua Mansa Commerce Park Dwy	S	0.7	A	0.7	A
6	Rubidoux Blvd at Market St/20th St	S	95.7	F	131.8	F
7	Agua Mansa Rd at Market St	S	24.5	C	28.9	C
8	Rubidoux Blvd at 24th St	U	159.9	F	200.0	F
9	Market St at Hall Ave	U	41.3	E	37.7	E
10	Hall Ave at 24th St	U	8.0	A	9.5	A
11	Market St at 24th St/Via Cerro	S	33.8	C	69.8	E
12	Rubidoux Blvd at 26th St	U	62.2	F	83.6	F
13	Hall Ave at 26th St	U	10.1	B	11.7	B
14	Rubidoux Blvd at 28th St	S	10.4	B	12.6	B
15	Hall Ave at 28th St	U	7.5	A	8.1	A
16	Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp	S	166.4	F	75.5	E
17	Rubidoux Blvd at SR-60 WB On-Ramp	U	547.5	F	1004.7	F
18	Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd	S	242.3	F	68.1	E
19	Frontage Rd at SR-60 EB On-Ramp	U	16.5	C	10.9	B
20	Market St at Rivera St	S	15.2	B	19.2	B
21	Market St at SR-60 WB Ramps	S	11.7	B	23.9	C
22	Market St at SR-60 EB Ramps	S	30.5	C	42.6	D
23	Rubidoux Blvd at 34th St	S	15.5	B	18.0	B
24	Wallace St at 34th St	U	8.0	A	9.4	A
25	Crestmore Rd at 34th St	U	8.9	A	9.7	A
26	Wallace St at 36th St	U	9.9	A	9.5	A
27	Crestmore Rd at 36th St	U	9.1	A	8.6	A
28	Valley Way at Mission Blvd	S	33.2	C	39.8	D
29	Golden Ave at Mission Blvd	S	13.9	B	14.0	B
30	Opal St at Mission Blvd	S	23.9	C	15.2	B
31	Pacific Ave at Mission Blvd	S	27.6	C	23.2	C
32	La Rue St at Mission Blvd	S	20.8	C	9.8	A

TABLE 8
SUMMARY OF INTERSECTION OPERATION
OPENING YEAR 2026 CUMULATIVE

Int. #	Intersection	Traffic Control	AM Peak Hour		PM Peak Hour	
			Delay	LOS	Delay	LOS
33	Riverview Dr at Mission Blvd	S	75.8	F	120.3	F
34	Rubidoux Blvd at Mission Blvd	S	79.1	E	96.8	F
35	Wallace St at Mission Blvd	S	11.6	B	21.0	C
36	Crestmore Rd at Mission Blvd	S	22.1	C	65.5	E
37	Riverview Dr at 42nd St	S	20.7	C	21.8	C
38	Riverview Dr/Limonite Ave at Pacific Ave	S	11.8	B	12.1	B
39	Limonite Ave at Avenue San Juan Bautista	S	23.0	C	25.1	C
40	Camino Real at Limonite Ave	S	40.7	D	49.9	D

Notes:

- Bold values indicate intersections operating at an unacceptable Level of Service
- Intersection operation is based on average intersection delay for signalized intersections.
- Delay values for unsignalized intersections represent the average vehicle delay on the worst (highest delay) intersection approach.

Opening Year 2026 (Phase 2) Cumulative No Ramp Plus Project- Option 1

Phase 2 – Option 1 project-related traffic was added to the Opening Year 2026 Cumulative traffic volumes, and the resulting peak hour turning movement volumes at the study intersections are shown on Figure 15.

Peak Hour Operating Conditions – Option 1

Intersection Level of Service analysis was conducted for the morning and evening peak hours for the Opening Year 2026 (Phase 2) Cumulative Plus Project – Option 1 conditions. The results of the intersection analysis are shown on Table 9. Copies of intersection analysis worksheets for this scenario are provided in *Appendix C*.

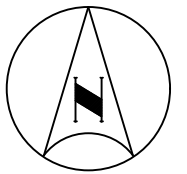
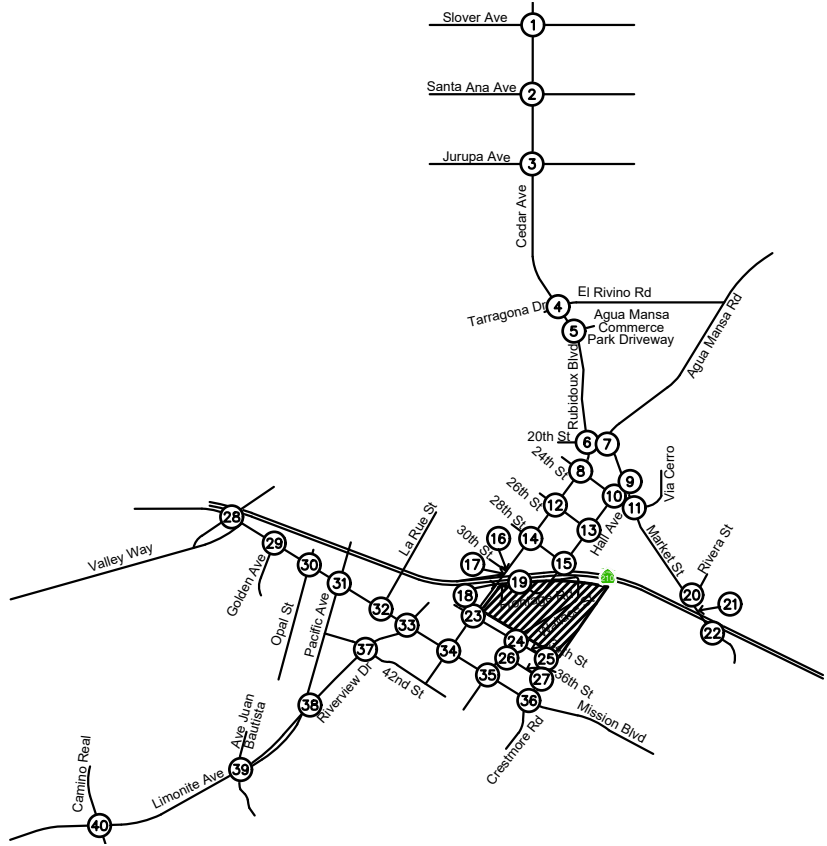
Review of this table indicates that, with the addition project traffic, the following study intersections would continue to operate at an unacceptable Level of Service:

- #6 – Rubidoux Blvd at Market St/20th St: AM – LOS F, PM – LOS F
- #8 – Rubidoux Blvd at 24th St: AM – LOS F, PM – LOS F
- #9 – Market St at Hall Ave: AM – LOS E, PM – LOS E
- #11 – Market St at 24th St/Via Cerro: PM – LOS E
- #12 – Rubidoux Blvd at 26th St: AM – LOS F, PM – LOS F
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp: AM – LOS F, PM – LOS F
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp: AM – LOS F, PM – LOS F
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd: AM – LOS F, PM – LOS F
- #19 – Frontage Rd at SR-60 EB On-Ramp: AM – LOS F
- #33 – Riverview Dr at Mission Blvd: AM – LOS F, PM – LOS F
- #34 – Rubidoux Blvd at Mission Blvd: AM – LOS F, PM – LOS F
- #36 – Crestmore Rd at Mission Blvd: PM – LOS E

Based on the significance thresholds presented earlier in this report, the following intersection would experience a project-related effect due to the increase in delay caused by the addition of project traffic:

- #6 – Rubidoux Blvd at Market St/20th St
- #8 – Rubidoux Blvd at 24th St
- #11 – Market St at 24th St/Via Cerro
- #12 – Rubidoux Blvd at 26th St
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd
- #19 – Frontage Rd at SR-60 EB On-Ramp
- #33 – Riverview Dr at Mission Blvd
- #34 – Rubidoux Blvd at Mission Blvd

Recommended Improvements are presented in the Recommended Improvement section of this report.



NOT TO SCALE

1. Cedar Ave at Slover Ave		2. Cedar Ave at Santa Ana Ave		3. Cedar Ave at Jurupa Ave		4. Cedar Ave at Tarragona Dr/El Rivino Rd	
5. Rubidoux Blvd at Agua Mansa Commerce Park Driveway		6. Rubidoux Blvd at Market St/20th St		7. Agua Mansa Rd at Market St		8. Rubidoux Blvd at 24th St	
9. Market St at Hall Ave		10. Hall Ave at 24th Street		11. Market St at 24th St/Via Cerro		12. Rubidoux Blvd at 26th St	
13. Hall Ave at 26th St		14. Rubidoux Blvd at 28th St		15. Hall Ave at 28th St		16. Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp	
17. Rubidoux Blvd at SR-60 WB On-Ramp		18. Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd		19. 30th St at Frontage Rd/SR-60 EB On-Ramp		20. Market St at Rivera St	
21. Market St at SR-60 WB Ramps		22. Market St at SR-60 EB Ramps		23. Rubidoux at 34th St		24. Wallace St at 34th St	

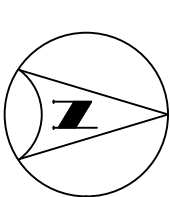
LEGEND:

- = Project Site
- = Study Intersection
- xx/yy = AM/PM Volumes

Note: Volumes reflect PCE adjustments.

FIGURE 15A
OPENING YEAR 2026 (PHASE 2) NO RAMP PLUS CUMULATIVE
PROJECTS PLUS PROJECT TRAFFIC VOLUMES - OPTION 1





NOT TO SCALE

25. Crestmore Rd at 34th St	26. Wallace St at 36th St	27. Crestmore Rd at 36th St	28. Valley Way at Mission Blvd	29. Golden Ave at Mission Blvd	30. Opal St at Mission Blvd	31. Pacific Ave at Mission Blvd	32. La Rue St at Mission Blvd	33. Riverview Dr at Mission Blvd												
<p>5/38 ←</p> <p>←2/3</p> <p>←2/1</p> <p>3/1 →</p> <p>44/195 →</p> <p>44/66 ↑</p> <p>5/22 ↓</p> <p>3/3 ↓</p> <p>4/249 ←</p> <p>←131/1527</p> <p>←30/21</p> <p>3/35 ↓</p> <p>0/112 ↓</p> <p>18/69 →</p> <p>1091/880 →</p> <p>90/1 →</p> <p>253/0 ↑</p> <p>0/2 ↓</p> <p>46/15 ↓</p> <p>92/78 ↓</p> <p>6/12 ↓</p> <p>8/3 ↓</p> <p>←10/7</p> <p>70/101 ↑</p> <p>9/7 ↓</p> <p>1/0 →</p> <p>48/99 ↓</p> <p>4/6 →</p> <p>67/160 ↓</p> <p>392/776 →</p> <p>507/962 →</p> <p>23/37 →</p> <p>342/323 ↓</p> <p>352/414 ↓</p> <p>463/480 ↓</p> <p>17/21 ↑</p> <p>423/501 ↑</p> <p>35/67 ↓</p> <p>681/601 ↑</p> <p>←278/266</p> <p>←64/53</p> <p>201/777 ←</p> <p>←1028/1009</p> <p>117/51 ↓</p> <p>160/85 ↓</p> <p>41/70 →</p> <p>741/1472 →</p> <p>228/240 →</p> <p>32/30 ↓</p> <p>56/56 ↓</p> <p>29/53 ↓</p> <p>29/69 ←</p> <p>←827/908</p> <p>←434/630</p> <p>307/234 ↑</p> <p>72/68 ↓</p> <p>492/474 ↓</p>	<p>12/32 →</p> <p>66/118 →</p> <p>17/47 →</p> <p>24/46 ↓</p> <p>678/798 ↓</p> <p>55/67 ↓</p> <p>157/28 ←</p> <p>←61/81</p> <p>←123/108</p> <p>86/73 →</p> <p>117/141 →</p> <p>184/212 ↑</p> <p>775/1075 ↑</p> <p>42/72 →</p> <p>6/8 →</p> <p>10/4 →</p> <p>54/93 ↓</p> <p>834/1202 ↓</p> <p>62/125 ↓</p> <p>99/116 ←</p> <p>←17/12</p> <p>←18/20</p> <p>23/22 ↑</p> <p>739/969 ↑</p> <p>13/24 ↓</p> <p>160/263 →</p> <p>840/1304 →</p> <p>76/127 →</p> <p>254/244 ↓</p> <p>83/136 ↓</p> <p>80/68 ↓</p> <p>75/55 ←</p> <p>←980/924</p> <p>←108/152</p> <p>0/389 →</p> <p>5/53 ↓</p> <p>0/58 ←</p> <p>←0/60</p>	<p>8/9 →</p> <p>701/1611 →</p> <p>39/132 →</p> <p>20/11 ↓</p> <p>12/44 ↓</p> <p>47/190 ↓</p> <p>17/74 ↓</p> <p>←640/969</p> <p>←162/391</p> <p>65/86 ↑</p> <p>15/28 ↓</p> <p>334/385 ↓</p> <p>8/9 →</p> <p>866/1254 ↓</p> <p>129/488 ↓</p> <p>115/486 ←</p> <p>←61/220</p> <p>1073/968 ↑</p> <p>46/156 ↓</p>	<p>12/32 →</p> <p>66/118 →</p> <p>17/47 →</p> <p>24/46 ↓</p> <p>678/798 ↓</p> <p>55/67 ↓</p> <p>157/28 ←</p> <p>←61/81</p> <p>←123/108</p> <p>86/73 →</p> <p>117/141 →</p> <p>184/212 ↑</p> <p>775/1075 ↑</p> <p>42/72 →</p> <p>6/8 →</p> <p>10/4 →</p> <p>54/93 ↓</p> <p>834/1202 ↓</p> <p>62/125 ↓</p> <p>99/116 ←</p> <p>←17/12</p> <p>←18/20</p> <p>23/22 ↑</p> <p>739/969 ↑</p> <p>13/24 ↓</p> <p>160/263 →</p> <p>840/1304 →</p> <p>76/127 →</p> <p>254/244 ↓</p> <p>83/136 ↓</p> <p>80/68 ↓</p> <p>75/55 ←</p> <p>←980/924</p> <p>←108/152</p> <p>0/389 →</p> <p>5/53 ↓</p> <p>0/58 ←</p> <p>←0/60</p>	<p>18/69 →</p> <p>1091/880 →</p> <p>90/1 →</p> <p>3/35 ↓</p> <p>0/112 ↓</p> <p>4/249 ←</p> <p>←131/1527</p> <p>←30/21</p> <p>18/69 →</p> <p>1091/880 →</p> <p>90/1 →</p> <p>3/35 ↓</p> <p>0/112 ↓</p> <p>4/249 ←</p> <p>←131/1527</p> <p>←30/21</p> <p>90/42 →</p> <p>933/423 →</p> <p>91/99 →</p> <p>150/13 ↓</p> <p>36/11 ↓</p> <p>102/13 ↓</p> <p>55/12 ←</p> <p>←914/890</p> <p>←252/172</p> <p>130/155 →</p> <p>916/1581 →</p> <p>56/160 →</p> <p>131/88 ↓</p> <p>66/43 ↓</p> <p>64/81 ↓</p> <p>41/99 ←</p> <p>←960/910</p> <p>←73/145</p> <p>172/67 ↑</p> <p>53/28 ↓</p> <p>77/55 ↓</p> <p>266/120 →</p> <p>1044/1381 →</p> <p>41/70 →</p> <p>741/1472 →</p> <p>228/240 →</p> <p>32/30 ↓</p> <p>56/56 ↓</p> <p>29/53 ↓</p> <p>29/69 ←</p> <p>←827/908</p> <p>←434/630</p> <p>307/234 ↑</p> <p>72/68 ↓</p> <p>492/474 ↓</p>	<p>619/738 →</p> <p>612/1272 →</p> <p>11/26 →</p> <p>582/778 ↓</p> <p>128/183 ↓</p> <p>283/382 ↓</p> <p>282/297 ←</p> <p>←611/775</p> <p>←116/207</p> <p>100/139 →</p> <p>776/1603 →</p> <p>51/134 →</p> <p>107/79 ↓</p> <p>8/28 ↓</p> <p>8/51 ↓</p> <p>5/59 ←</p> <p>←720/929</p> <p>←37/78</p> <p>67/116 ↑</p> <p>7/13 ↓</p> <p>26/89 ↓</p> <p>8/9 →</p> <p>701/1611 →</p> <p>39/132 →</p> <p>20/11 ↓</p> <p>12/44 ↓</p> <p>47/190 ↓</p> <p>17/74 ↓</p> <p>←640/969</p> <p>←162/391</p> <p>65/86 ↑</p> <p>15/28 ↓</p> <p>334/385 ↓</p> <p>8/9 →</p> <p>866/1254 ↓</p> <p>129/488 ↓</p> <p>115/486 ←</p> <p>←61/220</p> <p>1073/968 ↑</p> <p>46/156 ↓</p>	<p>34. Rubidoux Blvd at Mission Blvd</p>	35. Wallace St at Mission Blvd	36. Crestmore Rd at Mission Blvd	37. Riverview Dr at 42nd St	38. Riverview Dr/Limonite Ave at Pacific Ave	39. Limonite Ave at Avenue San Juan Bautista	40. Camino Real at Limonite Ave	41. Hall Ave at "A" St							
<p>619/738 →</p> <p>612/1272 →</p> <p>11/26 →</p> <p>582/778 ↓</p> <p>128/183 ↓</p> <p>283/382 ↓</p> <p>282/297 ←</p> <p>←611/775</p> <p>←116/207</p> <p>100/139 →</p> <p>776/1603 →</p> <p>51/134 →</p> <p>107/79 ↓</p> <p>8/28 ↓</p> <p>8/51 ↓</p> <p>5/59 ←</p> <p>←720/929</p> <p>←37/78</p> <p>67/116 ↑</p> <p>7/13 ↓</p> <p>26/89 ↓</p> <p>8/9 →</p> <p>701/1611 →</p> <p>39/132 →</p> <p>20/11 ↓</p> <p>12/44 ↓</p> <p>47/190 ↓</p> <p>17/74 ↓</p> <p>←640/969</p> <p>←162/391</p> <p>65/86 ↑</p> <p>15/28 ↓</p> <p>334/385 ↓</p> <p>8/9 →</p> <p>866/1254 ↓</p> <p>129/488 ↓</p> <p>115/486 ←</p> <p>←61/220</p> <p>1073/968 ↑</p> <p>46/156 ↓</p>	<p>0/211 →</p> <p>0/119 →</p> <p>5/113 →</p> <p>0/55 ↓</p> <p>0/11 ↓</p> <p>←0/42</p> <p>←0/11</p> <p>0/21 →</p> <p>0/119 →</p> <p>5/113 →</p> <p>0/22 ↓</p> <p>0/39 ↓</p> <p>0/39 ↓</p>	<p>8/9 →</p> <p>701/1611 →</p> <p>39/132 →</p> <p>20/11 ↓</p> <p>12/44 ↓</p> <p>47/190 ↓</p> <p>17/74 ↓</p> <p>←640/969</p> <p>←162/391</p> <p>65/86 ↑</p> <p>15/28 ↓</p> <p>334/385 ↓</p> <p>8/9 →</p> <p>866/1254 ↓</p> <p>129/488 ↓</p> <p>115/486 ←</p> <p>←61/220</p> <p>1073/968 ↑</p> <p>46/156 ↓</p>	<p>12/32 →</p> <p>66/118 →</p> <p>17/47 →</p> <p>24/46 ↓</p> <p>678/798 ↓</p> <p>55/67 ↓</p> <p>157/28 ←</p> <p>←61/81</p> <p>←123/108</p> <p>86/73 →</p> <p>117/141 →</p> <p>184/212 ↑</p> <p>775/1075 ↑</p> <p>42/72 →</p> <p>6/8 →</p> <p>10/4 →</p> <p>54/93 ↓</p> <p>834/1202 ↓</p> <p>62/125 ↓</p> <p>99/116 ←</p> <p>←17/12</p> <p>←18/20</p> <p>23/22 ↑</p> <p>739/969 ↑</p> <p>13/24 ↓</p> <p>160/263 →</p> <p>840/1304 →</p> <p>76/127 →</p> <p>254/244 ↓</p> <p>83/136 ↓</p> <p>80/68 ↓</p> <p>75/55 ←</p> <p>←980/924</p> <p>←108/152</p> <p>0/389 →</p> <p>5/53 ↓</p> <p>0/58 ←</p> <p>←0/60</p>	<p>18/69 →</p> <p>1091/880 →</p> <p>90/1 →</p> <p>3/35 ↓</p> <p>0/112 ↓</p> <p>4/249 ←</p> <p>←131/1527</p> <p>←30/21</p> <p>18/69 →</p> <p>1091/880 →</p> <p>90/1 →</p> <p>3/35 ↓</p> <p>0/112 ↓</p> <p>4/249 ←</p> <p>←131/1527</p> <p>←30/21</p> <p>90/42 →</p> <p>933/423 →</p> <p>91/99 →</p> 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↓</p>	<p>12/32 →</p> <p>66/118 →</p> <p>17/47 →</p> <p>24/46 ↓</p> <p>678/798 ↓</p> <p>55/67 ↓</p> <p>157/28 ←</p> <p>←61/81</p> <p>←123/108</p> <p>86/73 →</p> <p>117/141 →</p> <p>184/212 ↑</p> <p>775/1075 ↑</p> <p>42/72 →</p> <p>6/8 →</p> <p>10/4 →</p> <p>54/93 ↓</p> <p>834/1202 ↓</p> <p>62/125 ↓</p> <p>99/116 ←</p> <p>←17/12</p> <p>←18/20</p> <p>23/22 ↑</p> <p>739/969 ↑</p> <p>13/24 ↓</p> <p>160/263 →</p> <p>840/1304 →</p> <p>76/127 →</p> <p>254/244 ↓</p> <p>83/136 ↓</p> <p>80/68 ↓</p> <p>75/55 ←</p> <p>←980/924</p> <p>←108/152</p> <p>0/389 →</p> <p>5/53 ↓</p> <p>0/58 ←</p> <p>←0/60</p>	<p>18/69 →</p> <p>1091/880 →</p> <p>90/1 →</p> <p>3/35 ↓</p> <p>0/112 ↓</p> <p>4/249 ←</p> <p>←131/1527</p> <p>←30/21</p> <p>18/69 →</p> <p>1091/880 →</p> <p>90/1 →</p> <p>3/35 ↓</p> <p>0/112 ↓</p> <p>4/249 ←</p> <p>←131/1527</p> <p>←30/21</p> <p>90/42 →</p> <p>933/423 →</p> <p>91/99 →</p> <p>150/13 ↓</p> <p>36/11 ↓</p> <p>102/13 ↓</p> <p>55/12 ←</p> <p>←914/890</p> <p>←252/172</p> <p>130/155 →</p> <p>916/1581 →</p> <p>56/160 →</p> <p>131/88 ↓</p> <p>66/43 ↓</p> <p>64/81 ↓</p> <p>41/99 ←</p> <p>←960/910</p> <p>←73/145</p> <p>172/67 ↑</p> <p>53/28 ↓</p> <p>77/55 ↓</p> <p>266/120 →</p> <p>1044/1381 →</p> <p>41/70 →</p> <p>741/1472 →</p> <p>228/240 →</p> <p>32/30 ↓</p> <p>56/56 ↓</p> <p>29/53 ↓</p> <p>29/69 ←</p> <p>←827/908</p> <p>←434/630</p> <p>307/234 ↑</p> <p>72/68 ↓</p> <p>492/474 ↓</p>	<p>0/211 →</p> <p>0/119 →</p> <p>5/113 →</p> <p>0/55 ↓</p> <p>0/11 ↓</p> <p>←0/42</p> <p>←0/11</p> <p>0/21 →</p> <p>0/119 →</p> <p>5/113 →</p> <p>0/22 ↓</p> <p>0/39 ↓</p> <p>0/39 ↓</p>	<p>8/9 →</p> <p>701/1611 →</p> <p>39/132 →</p> <p>20/11 ↓</p> <p>12/44 ↓</p> <p>47/190 ↓</p> <p>17/74 ↓</p> <p>←640/969</p> <p>←162/391</p> <p>65/86 ↑</p> <p>15/28 ↓</p> <p>334/385 ↓</p> <p>8/9 →</p> <p>866/1254 ↓</p> <p>129/488 ↓</p> <p>115/486 ←</p> <p>←61/220</p> <p>1073/968 ↑</p> <p>46/156 ↓</p>	<p>12/32 →</p> <p>66/118 →</p> <p>17/47 →</p> <p>24/46 ↓</p> <p>678/798 ↓</p> <p>55/67 ↓</p> <p>157/28 ←</p> <p>←61/81</p> <p>←123/108</p> <p>86/73 →</p> <p>117/141 →</p> <p>184/212 ↑</p> <p>775/1075 ↑</p> <p>42/72 →</p> <p>6/8 →</p> <p>10/4 →</p> <p>54/93 ↓</p> <p>834/1202 ↓</p> <p>62/125 ↓</p> <p>99/116 ←</p> <p>←17/12</p> <p>←18/20</p> <p>23/22 ↑</p> <p>739/969 ↑</p> <p>13/24 ↓</p> <p>160/263 →</p> <p>840/1304 →</p> <p>76/127 →</p> <p>254/244 ↓</p> <p>83/136 ↓</p> <p>80/68 ↓</p> <p>75/55 ←</p> <p>←980/924</p> <p>←108/152</p> <p>0/389 →</p> <p>5/53 ↓</p> <p>0/58 ←</p> <p>←0/60</p>	<p>18/69 →</p> <p>1091/880 →</p> <p>90/1 →</p> <p>3/35 ↓</p> <p>0/112 ↓</p> <p>4/249 ←</p> <p>←131/1527</p> <p>←30/21</p> <p>18/69 →</p> <p>1091/880 →</p> <p>90/1 →</p> <p>3/35 ↓</p> <p>0/112 ↓</p> <p>4/249 ←</p> <p>←131/1527</p> <p>←30/21</p> <p>90/42 →</p> <p>933/423 →</p> <p>91/99 →</p> <p>150/13 ↓</p> <p>36/11 ↓</p> <p>102/13 ↓</p> <p>55/12 ←</p> <p>←914/890</p> <p>←252/172</p> <p>130/155 →</p> <p>916/1581 →</p> <p>56/160 →</p> <p>131/88 ↓</p> <p>66/43 ↓</p> <p>64/81 ↓</p> <p>41/99 ←</p> <p>←960/910</p> <p>←73/145</p> <p>172/67 ↑</p> <p>53/28 ↓</p> <p>77/55 ↓</p> <p>266/120 →</p> <p>1044/1381 →</p> <p>41/70 →</p> <p>741/1472 →</p> <p>228/240 →</p> <p>32/30 ↓</p> <p>56/56 ↓</p> <p>29/53 ↓</p> <p>29/69 ←</p> <p>←827/908</p> <p>←434/630</p> <p>307/234 ↑</p> <p>72/68 ↓</p> <p>492/474 ↓</p>	<p>0/211 →</p> <p>0/119 →</p> <p>5/113 →</p> <p>0/55 ↓</p> <p>0/11 ↓</p> <p>←0/42</p> <p>←0/11</p> <p>0/21 →</p> <p>0/119 →</p> <p>5/113 →</p> <p>0/22 ↓</p> <p>0/39 ↓</p> <p>0/39 ↓</p>	<p>8/9 →</p> <p>701/1611 →</p> <p>39/132 →</p> <p>20/11 ↓</p> <p>12/44 ↓</p> <p>47/190 ↓</p> <p>17/74 ↓</p> <p>←640/969</p> <p>←162/391</p> <p>65/86 ↑</p> <p>15/28 ↓</p> <p>334/385 ↓</p> <p>8/9 →</p> <p>866/1254 ↓</p> <p>129/488 ↓</p> <p>115/486 ←</p> <p>←61/220</p> <p>1073/968 ↑</p> <p>46/156 ↓</p>	<p>12/32 →</p> <p>66/118 →</p> <p>17/47 →</p> <p>24/46 ↓</p> <p>678/798 ↓</p> <p>55/67 ↓</p> <p>157/28 ←</p> <p>←61/81</p> <p>←123/108</p> <p>86/73 →</p> <p>117/141 →</p> <p>184/212 ↑</p> <p>775/1075 ↑</p> <p>42/72 →</p> <p>6/8 →</p> <p>10/4 →</p> <p>54/93 ↓</p> <p>834/1202 ↓</p> <p>62/125 ↓</p> <p>99/116 ←</p> <p>←17/12</p> <p>←18/20</p> <p>23/22 ↑</p> <p>739/969 ↑</p> <p>13/24 ↓</p> <p>160/263 →</p> <p>840/1304 →</p> <p>76/127 →</p> <p>254/244 ↓</p> <p>83/136 ↓</p> <p>80/68 ↓</p> <p>75/55 ←</p> <p>←980/924</p> <p>←108/152</p> <p>0/389 →</p> <p>5/53 ↓</p> <p>0/58 ←</p> <p>←0/60</p>	<p>18/69 →</p> <p>1091/880 →</p> <p>90/1 →</p> <p>3/35 ↓</p> <p>0/112 ↓</p> <p>4/249 ←</p> <p>←131/1527</p> <p>←30/21</p> <p>18/69 →</p> <p>1091/880 →</p> <p>90/1 →</p> <p>3/35 ↓</p> <p>0/112 ↓</p> <p>4/249 ←</p> <p>←131/1527</p> <p>←30/21</p> <p>90/42 →</p> <p>933/423 →</p> <p>91/99 →</p> <p>150/13 ↓</p> <p>36/11 ↓</p> <p>102/13 ↓</p> <p>55/12 ←</p> <p>←914/890</p> <p>←252/172</p> <p>130/155 →</p> <p>916/1581 →</p> <p>56/160 →</p> <p>131/88 ↓</p> <p>66/43 ↓</p> <p>64/81 ↓</p> <p>41/99 ←</p> <p>←960/910</p> <p>←73/145</p> <p>172/67 ↑</p> <p>53/28 ↓</p> <p>77/55 ↓</p> <p>266/120 →</p> <p>1044/1381 →</p> <p>41/70 →</p> <p>741/1472 →</p> <p>228/240 →</p> <p>32/30 ↓</p> <p>56/56 ↓</p> <p>29/53 ↓</p> <p>29/69 ←</p> <p>←827/908</p> <p>←434/630</p> <p>307/234 ↑</p> <p>72/68 ↓</p> <p>492/474 ↓</p>	<p>0/211 →</p> <p>0/119 →</p> <p>5/113 →</p> <p>0/55 ↓</p> <p>0/11 ↓</p> <p>←0/42</p> <p>←0/11</p> <p>0/21 →</p> <p>0/119 →</p> <p>5/113 →</p> <p>0/22 ↓</p> <p>0/39 ↓</p> <p>0/39 ↓</p>	<p>8/9 →</p> <p>701/1611 →</p> <p>39/132 →</p> <p>20/11 ↓</p> <p>12/44 ↓</p> <p>47/190 ↓</p> <p>17/74 ↓</p> <p>←640/969</p> <p>←162/391</p> <p>65/86 ↑</p> <p>15/28 ↓</p> <p>334/385 ↓</p> <p>8/9 →</p> <p>866/1254 ↓</p> <p>129/488 ↓</p> <p>115/486 ←</p> <p>←61/220</p> <p>1073/968 ↑</p> <p>46/156 ↓</p>	<p>12/32 →</p> <p>66/118 →</p> <p>17/47 →</p> <p>24/46 ↓</p> <p>678/798 ↓</p> <p>55/67 ↓</p> <p>157/28 ←</p> <p>←61/81</p> <p>←123/108</p> <p>86/73 →</p> <p>117/141 →</p> <p>184/212 ↑</p> <p>775/1075 ↑</p> <p>42/72 →</p> <p>6/8 →</p> <p>10/4 →</p> <p>54/93 ↓</p> <p>834/1202 ↓</p> <p>62/125 ↓</p> <p>99/116 ←</p> <p>←17/12</p> <p>←18/20</p> <p>23/22 ↑</p> <p>739/969 ↑</p> <p>13/24 ↓</p> <p>160/263 →</p> <p>840/1304 →</p> <p>76/127 →</p> <p>254/244 ↓</p> <p>83/136 ↓</p> <p>80/68 ↓</p> <p>75/55 ←</p> <p>←980/924</p> <p>←108/152</p> <p>0/389 →</p> <p>5/53 ↓</p> <p>0/58 ←</p> <p>←0/60</p>	<p>18/69 →</p> <p>1091/880 →</p> <p>90/1 →</p> <p>3/35 ↓</p> <p>0/112 ↓</p> <p>4/249 ←</p> <p>←131/1527</p> <p>←30/21</p> <p>18/69 →</p> <p>1091/880 →</p> <p>90/1 →</p> <p>3/35 ↓</p> <p>0/112 ↓</p> <p>4/249 ←</p> <p>←131/1527</p> <p>←30/21</p> <p>90/42 →</p> <p>933/423 →</p> <p>91/99 →</p> <p>150/13 ↓</p> <p>36/11 ↓</p> <p>102/13 ↓</p> <p>55/12 ←</p> <p>←914/890</p> <p>←252/172</p> <p>130/155 →</p> <p>916/1581 →</p> <p>56/160 →</p> <p>131/88 ↓</p> <p>66/43 ↓</p> <p>64/81 ↓</p> <p>41/99 ←</p> <p>←960/910</p> <p>←73/145</p> <p>172/67 ↑</p> <p>53/28 ↓</p> <p>77/55 ↓</p> <p>266/120 →</p> <p>1044/1381 →</p> <p>41/70 →</p> <p>741/1472 →</p> <p>228/240</p>

TABLE 9
SUMMARY OF INTERSECTION OPERATION
OPENING YEAR 2026 CUMULATIVE NO RAMP PLUS PROJECT OPTION 1 (RUBIDOUX BLVD)

Int. #	Intersection	Traffic Control	AM Peak Hour						PM Peak Hour					
			Without Project		With Project		Change in Delay	Project-Related Effect?	Without Project		With Project		Change in Delay	Project-Related Effect?
			Delay	LOS	Delay	LOS			Delay	LOS	Delay	LOS		
1	Cedar Ave at Slover Ave	S	29.0	C	30.1	C	1.1	No	29.9	C	31.3	C	1.4	No
2	Cedar Ave at Santa Ana Ave	S	14.4	B	15.1	B	0.7	No	16.5	B	17.3	B	0.8	No
3	Cedar Ave at Jurupa Ave	S	14.9	B	15.9	B	1.0	No	15.1	B	16.0	B	0.9	No
4	Cedar Ave at Tarragona Dr/El Rivino Rd	S	11.4	B	11.4	B	0.0	No	16.1	B	16.8	B	0.7	No
5	Rubidoux Blvd at Agua Mansa Commerce Park Dwy	S	0.7	A	0.7	A	0.0	No	0.7	A	0.8	A	0.1	No
6	Rubidoux Blvd at Market St/20th St	S	95.7	F	102.0	F	6.3	Yes	131.8	F	136.3	F	4.5	Yes
7	Agua Mansa Rd at Market St	S	24.5	C	26.8	C	2.3	No	28.9	C	32.9	C	4.0	No
8	Rubidoux Blvd at 24th St	U	159.9	F	315.9	F	156.0	Yes	200.0	F	200.0	F	0.0	No
9	Market St at Hall Ave	U	41.3	E	45.6	E	4.3	No	37.7	E	40.7	E	3.0	No
10	Hall Ave at 24th St	U	8.0	A	8.4	A	0.4	No	9.5	A	10.2	B	0.7	No
11	Market St at 24th St/Via Cerro	S	33.8	C	34.6	C	0.8	No	69.8	E	73.8	E	4.0	Yes
12	Rubidoux Blvd at 26th St	U	62.2	F	93.7	F	31.5	Yes	83.6	F	132.6	F	49.0	Yes
13	Hall Ave at 26th St	U	10.1	B	10.9	B	0.8	No	11.7	B	12.7	B	1.0	No
14	Rubidoux Blvd at 28th St	S	10.4	B	11.9	B	1.5	No	12.6	B	14.0	B	1.4	No
15	Hall Ave at 28th St	U	7.5	A	7.9	A	0.4	No	8.1	A	8.8	A	0.7	No
16	Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp	S	166.4	F	653.6	F	487.2	Yes	75.5	E	196.7	F	121.2	Yes
17	Rubidoux Blvd at SR-60 WB On-Ramp	U	547.5	F	2003.7	F	1456.2	Yes	1004.7	F	3520.5	F	2515.8	Yes
18	Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd	S	242.3	F	631.1	F	388.8	Yes	68.1	E	208.2	F	140.1	Yes
19	Frontage Rd at SR-60 EB On-Ramp	U	16.5	C	52.7	F	36.2	Yes	10.9	B	20.8	C	9.9	No
20	Market St at Rivera St	S	15.2	B	15.4	B	0.2	No	19.2	B	19.5	B	0.3	No
21	Market St at SR-60 WB Ramps	S	11.7	B	12.4	B	0.7	No	23.9	C	25.6	C	1.7	No
22	Market St at SR-60 EB Ramps	S	30.5	C	33.2	C	2.7	No	42.6	D	48.6	D	6.0	No
23	Rubidoux Blvd at 34th St	S	15.5	B	18.0	B	2.5	No	18.0	B	20.3	C	2.3	No
24	Wallace St at 34th St	U	8.0	A	8.2	A	0.2	No	9.4	A	9.7	A	0.3	No
25	Crestmore Rd at 34th St	U	8.9	A	9.6	A	0.7	No	9.7	A	10.8	B	1.1	No

TABLE 9
SUMMARY OF INTERSECTION OPERATION
OPENING YEAR 2026 CUMULATIVE NO RAMP PLUS PROJECT OPTION 1 (RUBIDOUX BLVD)

Int. #	Intersection	Traffic Control	AM Peak Hour						PM Peak Hour					
			Without Project		With Project		Change in Delay	Project-Related Effect?	Without Project		With Project		Change in Delay	Project-Related Effect?
			Delay	LOS	Delay	LOS			Delay	LOS	Delay	LOS		
26	Wallace St at 36th St	U	9.9	A	10.4	B	0.5	No	9.5	A	9.8	A	0.3	No
27	Crestmore Rd at 36th St	U	9.1	A	9.5	A	0.4	No	8.6	A	8.8	A	0.2	No
28	Valley Way at Mission Blvd	S	33.2	C	33.7	C	0.5	No	39.8	D	40.5	D	0.7	No
29	Golden Ave at Mission Blvd	S	13.9	B	14.5	B	0.6	No	14.0	B	15.1	B	1.1	No
30	Opal St at Mission Blvd	S	23.9	C	26.7	C	2.8	No	15.2	B	16.2	B	1.0	No
31	Pacific Ave at Mission Blvd	S	27.6	C	29.8	C	2.2	No	23.2	C	24.4	C	1.2	No
32	La Rue St at Mission Blvd	S	20.8	C	21.6	C	0.8	No	9.8	A	10.1	B	0.3	No
33	Riverview Dr at Mission Blvd	S	75.8	F	112.1	F	36.3	Yes	120.3	F	163.9	F	43.6	Yes
34	Rubidoux Blvd at Mission Blvd	S	79.1	E	133.6	F	54.5	Yes	96.8	F	138.8	F	42.0	Yes
35	Wallace St at Mission Blvd	S	11.6	B	11.8	B	0.2	No	21.0	C	21.2	C	0.2	No
36	Crestmore Rd at Mission Blvd	S	22.1	C	22.1	C	0.0	No	65.5	E	66.0	E	0.5	No
37	Riverview Dr at 42nd St	S	20.7	C	22.7	C	2.0	No	21.8	C	22.4	C	0.6	No
38	Riverview Dr/Limonite Ave at Pacific Ave	S	11.8	B	11.8	B	0.0	No	12.1	B	12.1	B	0.0	No
39	Limonite Ave at Avenue San Juan Bautista	S	23.0	C	24.2	C	1.2	No	25.1	C	25.1	C	0.0	No
40	Camino Real at Limonite Ave	S	40.7	D	41.7	D	1.0	No	49.9	D	52.2	D	2.3	No
41	Hall Ave at "A" St	U	--	--	12.3	B	--	--	--	--	12.3	B	--	--
42	SR-60 SB On-Ramp at "A" St	U	--	--	0.0	A	--	--	--	--	0.0	A	--	--
43	"A" St at "B" St	U	--	--	9.4	A	--	--	--	--	9.4	A	--	--
44	Rubidoux Blvd at "B" St	S	--	--	19.8	B	--	--	--	--	19.5	B	--	--
45	Project Dwy at "B" St	S	--	--	15.8	B	--	--	--	--	20.3	C	--	--
46	Wallace St at "B" St	U	--	--	3.6	A	--	--	--	--	3.6	A	--	--
47	"B" St at Industrial Dwy	U	--	--	11.0	B	--	--	--	--	11.0	B	--	--

Notes:
- Bold values indicate intersections operating at an unacceptable Level of Service
- Intersection operation is based on average intersection delay for signalized intersections.
- Delay values for unsignalized intersections represent the average vehicle delay on the worst (highest delay) intersection approach.

Opening Year 2026 (Phase 2) Cumulative No Ramp Plus Project – Option 2

Phase 2 – Option 2 project-related traffic was added to the Opening Year 2026 Cumulative traffic volumes, and the resulting peak hour turning movement volumes at the study intersections are shown on Figure 16.

Peak Hour Operating Conditions – Option 2

Intersection Level of Service analysis was conducted for the morning and evening peak hours for the Opening Year 2026 (Phase 2) Cumulative Plus Project – Option 2 conditions. The results of the intersection analysis are shown on Table 10. Copies of intersection analysis worksheets for this scenario are provided in *Appendix C*.

Review of this table indicates that, with the addition project traffic, the following study intersections would continue to operate at an unacceptable Level of Service:

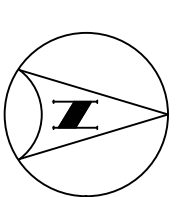
- #6 – Rubidoux Blvd at Market St/20th St: AM – LOS F, PM – LOS F
- #8 – Rubidoux Blvd at 24th St: AM – LOS F, PM – LOS F
- #9 – Market St at Hall Ave: AM – LOS E, PM – LOS E
- #11 – Market St at 24th St/Via Cerro: PM – LOS F
- #12 – Rubidoux Blvd at 26th St: AM – LOS F, PM – LOS F
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp: AM – LOS F, PM – LOS F
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp: AM – LOS F, PM – LOS F
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd: AM – LOS F, PM – LOS F
- #22 – Market St at SR-60 EB Ramps: PM – LOS E
- #33 – Riverview Dr at Mission Blvd: AM – LOS F, PM – LOS F
- #34 – Rubidoux Blvd at Mission Blvd: AM – LOS F, PM – LOS F
- #36 – Crestmore Rd at Mission Blvd: PM – LOS E

Based on the significance thresholds presented earlier in this report, the following intersection would experience a project-related effect due to the increase in delay caused by the addition of project traffic:

- #6 – Rubidoux Blvd at Market St/20th St
- #8 – Rubidoux Blvd at 24th St
- #9 – Market St at Hall Ave
- #11 – Market St at 24th St/Via Cerro
- #12 – Rubidoux Blvd at 26th St
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd
- #22 – Market St at SR-60 EB Ramps
- #33 – Riverview Dr at Mission Blvd

- #34 – Rubidoux Blvd at Mission Blvd

Recommended Improvements are presented in the Recommended Improvement section of this report.



NOT TO SCALE


<p>1. Cedar Ave at Slover Ave</p> <p>124/85 1041/808 124/140</p> <p>154/113 157/244 62/65</p> <p>210/209 160/417 101/176</p> <p>179/186 937/624 41/95</p>	<p>2. Cedar Ave at Santa Ana Ave</p> <p>61/75 1022/937 55/55</p> <p>42/31 111/129 50/46</p> <p>63/87 99/113 82/135</p> <p>120/174 896/895 28/57</p>	<p>3. Cedar Ave at Jurupa Ave</p> <p>25/40 1040/1057 85/92</p> <p>143/51 91/77 55/64</p> <p>36/34 81/193 39/66</p> <p>41/85 868/966 54/103</p>	<p>4. Cedar Ave at Tarragona Dr/El Rvino Rd</p> <p>3/21 1140/1117 108/142</p> <p>57/177 1/4 112/185</p> <p>13/10 2/4 22/8</p> <p>3/4 664/970 127/96</p>	<p>5. Rubidoux Blvd at Agua Mansa Commerce Park Driveway</p> <p>1286/1281</p> <p>1020/1208</p>	<p>6. Rubidoux Blvd at Market St/20th St</p> <p>60/87 91/221 85/174</p> <p>128/45 776/815 499/545</p> <p>180/92 392/551 381/452</p> <p>404/490 220/95 354/413</p>	<p>7. Agua Mansa Rd at Market St</p> <p>285/402 1/0 134/196</p> <p>199/245 659/555 21/0</p> <p>334/526 625/646 43/1</p> <p>10/0 1/3 1/4</p>	<p>8. Rubidoux Blvd at 24th St</p> <p>0/4 1074/1299 117/120</p> <p>31/68 3/7 9/35</p> <p>0/1 3/19 4/11</p> <p>8/21 920/1021 19/53</p>	<p>9. Market St at Hall Ave</p> <p>726/770 28/29</p> <p>627/633 31/35</p> <p>26/33 58/227</p>	<p>10. Hall Ave at 24th Street</p> <p>7/13 34/56 14/6</p> <p>4/1 11/32 23/71</p> <p>127/165 4/23</p> <p>23/64 67/253 35/98</p>	<p>11. Market St at 24th St/Via Cerro</p> <p>1/1 751/1143 23/23</p> <p>12/34 8/42 125/256</p> <p>12/4 35/33 135/238</p> <p>37/64 862/742 171/114</p>	<p>12. Rubidoux Blvd at 26th St</p> <p>0/1 943/1217 29/22</p> <p>16/30 2/1 25/88</p> <p>2/2 0/2 10/7</p> <p>9/2 1056/1061 100/88</p>	<p>13. Hall Ave at 26th St</p> <p>3/4 123/123 1/13</p> <p>7/3 0/1 10/6</p> <p>3/22 0/2 116/57</p> <p>29/105 143/358 9/1</p>	<p>14. Rubidoux Blvd at 28th St</p> <p>20/40 1120/1433 37/45</p> <p>11/21 16/42 58/70</p> <p>37/48 12/27 113/112</p> <p>66/128 1098/1083 62/75</p>	<p>15. Hall Ave at 28th St</p> <p>51/63 204/123</p> <p>1/0</p> <p>32/47 1/1 46/56</p> <p>17/46 142/472 1/1</p>	<p>16. Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp</p> <p>30/31 1290/1793</p> <p>233/214 80/130 1004/1263</p> <p>48/39 271/229</p> <p>105/115 1187/1140</p>	<p>17. Rubidoux Blvd at SR-60 WB On-Ramp</p> <p>826/1023 1728/2221</p> <p>576/606 1273/1235</p>	<p>18. Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd</p> <p>1333/1990 398/255</p> <p>1054/1235 1213/936</p>	<p>19. 30th St at Frontage Rd/SR-60 EB On-Ramp</p> <p>1008/674 308/238</p>	<p>20. Market St at Rivera St</p> <p>6/0 950/1437 64/125</p> <p>78/100 292/252</p> <p>3/2 0/15 13/62</p> <p>26/6 1090/1050 349/261</p>	<p>21. Market St at SR-60 WB Ramps</p> <p>221/241 1059/1466</p> <p>1027/812 122/143</p>	<p>22. Market St at SR-60 EB Ramps</p> <p>471/769 709/812</p> <p>181/184 610/934</p> <p>571/781 209/122</p>	<p>23. Rubidoux at 34th St</p> <p>54/136 1364/1882 56/198</p> <p>123/69 8/21 21/23</p> <p>141/117 35/47 21/33</p> <p>24/26 1643/1453 45/102</p>	<p>24. Wallace St at 34th St</p> <p>3/10 50/55 13/31</p> <p>9/30 63/59 6/6</p> <p>4/17 56/201 64/103</p> <p>52/30 64/70 3/6</p>
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Note: Volumes reflect PCE adjustments.


FIGURE 16A
OPENING YEAR 2026 (PHASE 2) NO RAMP PLUS CUMULATIVE
PROJECTS PLUS PROJECT TRAFFIC VOLUMES - OPTION 2

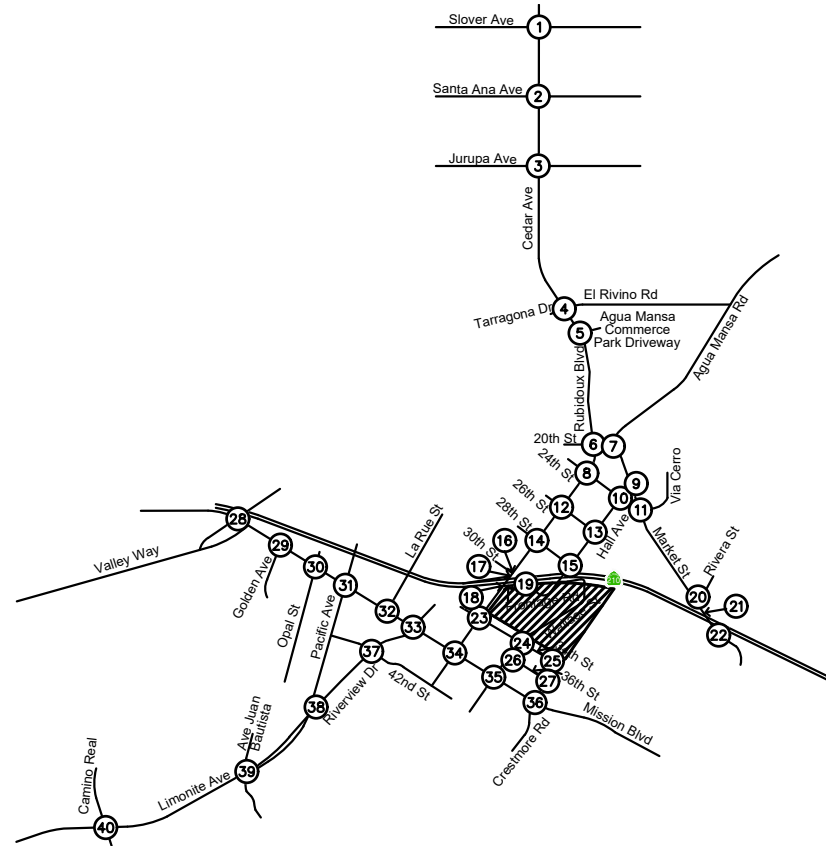


LEGEND:

 = Project Site

 = Study Intersection

 = AM/PM Volumes



NOT TO SCALE

25. Crestmore Rd at 34th St		26. Wallace St at 36th St		27. Crestmore Rd at 36th St		28. Valley Way at Mission Blvd									
<p>← 38/65</p> <p>← 2/3</p> <p>← 2/1</p> <p>3/1 →</p> <p>44/195 →</p> <p>44/66 →</p> <p>22/27 →</p> <p>3/3 →</p>		<p>← 102/86</p> <p>← 6/12</p> <p>8/3 →</p> <p>10/7 →</p> <p>109/115 →</p> <p>9/7 →</p>		<p>← 81/126</p> <p>1/0 →</p> <p>4/6 →</p> <p>84/165 →</p>		<p>← 342/323</p> <p>← 352/414</p> <p>← 478/485</p> <p>← 693/610</p> <p>← 303/281</p> <p>← 64/53</p> <p>392/776 →</p> <p>535/974 →</p> <p>23/37 →</p> <p>17/21 →</p> <p>423/501 →</p> <p>35/67 →</p>									
29. Golden Ave at Mission Blvd		30. Opal St at Mission Blvd		31. Pacific Ave at Mission Blvd		32. La Rue St at Mission Blvd		33. Riverview Dr at Mission Blvd							
<p>← 3/35</p> <p>← 0/112</p> <p>4/249 →</p> <p>← 1168/1551</p> <p>38/32 →</p> <p>18/69 →</p> <p>1134/897 →</p> <p>90/1 →</p> <p>253/0 →</p> <p>0/2 →</p> <p>59/19 →</p>		<p>← 150/13</p> <p>← 36/11</p> <p>102/13 →</p> <p>55/12 →</p> <p>← 959/925</p> <p>258/177 →</p> <p>90/42 →</p> <p>989/1444 →</p> <p>91/99 →</p> <p>112/69 →</p> <p>17/10 →</p> <p>177/104 →</p>		<p>← 131/88</p> <p>← 66/43</p> <p>← 85/88</p> <p>58/111 →</p> <p>← 1011/950</p> <p>73/145 →</p> <p>130/155 →</p> <p>981/1603 →</p> <p>56/160 →</p> <p>172/67 →</p> <p>53/28 →</p> <p>77/55 →</p>		<p>← 117/51</p> <p>← 160/85</p> <p>201/77 →</p> <p>← 1096/1061</p> <p>266/120 →</p> <p>1130/1410 →</p>		<p>← 32/30</p> <p>← 56/56</p> <p>← 29/53</p> <p>29/69 →</p> <p>← 895/960</p> <p>499/689 →</p> <p>41/70 →</p> <p>827/1501 →</p> <p>228/240 →</p> <p>307/234 →</p> <p>72/68 →</p> <p>588/490 →</p>							
34. Rubidoux Blvd at Mission Blvd		35. Wallace St at Mission Blvd		36. Crestmore Rd at Mission Blvd		37. Riverview Dr at 42nd St		38. Riverview Dr/Limonite Ave at Pacific Ave		39. Limonite Ave at Avenue San Juan Bautista		40. Camino Real at Limonite Ave		41. Hall Ave at "A" St	
<p>← 715/889</p> <p>← 140/202</p> <p>← 283/382</p> <p>← 282/297</p> <p>← 611/775</p> <p>← 116/207</p> <p>801/783 →</p> <p>612/1272 →</p> <p>11/26 →</p> <p>25/46 →</p> <p>193/137 →</p> <p>46/65 →</p>		<p>← 107/79</p> <p>← 8/28</p> <p>← 18/59</p> <p>44/73 →</p> <p>← 720/929</p> <p>37/78 →</p> <p>100/139 →</p> <p>776/1603 →</p> <p>51/134 →</p> <p>67/116 →</p> <p>7/13 →</p> <p>26/89 →</p>		<p>← 20/11</p> <p>← 14/48</p> <p>← 78/213</p> <p>28/81 →</p> <p>← 673/981</p> <p>162/391 →</p> <p>8/9 →</p> <p>706/1616 →</p> <p>44/135 →</p> <p>71/88 →</p> <p>21/26 →</p> <p>334/385 →</p>		<p>← 31/53</p> <p>← 736/850</p> <p>← 55/67</p> <p>157/28 →</p> <p>← 61/81</p> <p>123/108 →</p> <p>24/32 →</p> <p>66/118 →</p> <p>17/47 →</p> <p>13/33 →</p> <p>872/788 →</p> <p>127/136 →</p>		<p>← 122/62</p> <p>← 665/936</p> <p>86/73 →</p> <p>117/141 →</p> <p>184/212 →</p> <p>859/1091 →</p>		<p>← 63/106</p> <p>← 874/1232</p> <p>← 71/134</p> <p>114/117 →</p> <p>← 17/12</p> <p>18/20 →</p> <p>61/71 →</p> <p>6/8 →</p> <p>10/4 →</p> <p>23/22 →</p> <p>789/985 →</p> <p>13/24 →</p>		<p>← 254/244</p> <p>← 83/136</p> <p>← 80/68</p> <p>75/55 →</p> <p>← 1020/954</p> <p>108/152 →</p> <p>160/263 →</p> <p>890/1320 →</p> <p>76/127 →</p> <p>125/88 →</p> <p>74/112 →</p> <p>140/199 →</p>		<p>← 163/88</p> <p>102/375 →</p> <p>279/152 →</p>	
42. SR-60 SB On-Ramp at "A" St		43. Rubidoux Blvd at "B" St		44. Wallace St at "B" St		45. Rubidoux Blvd at Project Driveway		46. Industrial Driveway at "B" St		47. "A" St at "B" St					
<p>← 102/375</p> <p>442/240 →</p>		<p>← 47/180</p> <p>← 19/71</p> <p>← 34/134</p> <p>← 19/71</p> <p>211/109 →</p> <p>119/70 →</p> <p>113/62 →</p> <p>22/62 →</p> <p>39/25 →</p> <p>39/25 →</p>		<p>← 886/1272</p> <p>← 458/817</p> <p>479/748 →</p> <p>186/332 →</p> <p>1187/998 →</p> <p>136/175 →</p>		<p>← 232/397</p> <p>← 17/28</p> <p>← 21/28</p> <p>← 403/628</p> <p>3/2 →</p> <p>225/319 →</p> <p>303/631 →</p> <p>66/42 →</p> <p>30/55 →</p> <p>2/3 →</p>		<p>← 31/121</p> <p>← 1/3</p> <p>← 11/33</p> <p>18/12 →</p> <p>← 310/142</p> <p>57/35 →</p> <p>86/315 →</p> <p>9/15 →</p> <p>32/49 →</p> <p>7/4 →</p>		<p>← 16/8</p> <p>← 43/157</p> <p>← 92/39</p> <p>14/46 →</p> <p>8/16 →</p> <p>4/2 →</p> <p>78/49 →</p>					

LEGEND:

- = Project Site
- = Study Intersection
- = AM/PM Volumes

Note: Volumes reflect PCE adjustments.

FIGURE 16B
OPENING YEAR 2026 (PHASE 2) NO RAMP PLUS CUMULATIVE
PROJECTS PLUS PROJECT TRAFFIC VOLUMES - OPTION 2



TABLE 10
SUMMARY OF INTERSECTION OPERATION
OPENING YEAR 2026 CUMULATIVE NO RAMP PLUS PROJECT OPTION 2 (HALL AVE/26TH ST)

Int. #	Intersection	Traffic Control	AM Peak Hour						PM Peak Hour					
			Without Project		With Project		Change in Delay	Project-Related Effect?	Without Project		With Project		Change in Delay	Project-Related Effect?
			Delay	LOS	Delay	LOS			Delay	LOS	Delay	LOS		
1	Cedar Ave at Slover Ave	S	29.0	C	30.1	C	1.1	No	29.9	C	32.3	C	2.4	No
2	Cedar Ave at Santa Ana Ave	S	14.4	B	15.1	B	0.7	No	16.5	B	17.7	B	1.2	No
3	Cedar Ave at Jurupa Ave	S	14.9	B	15.9	B	1.0	No	15.1	B	16.6	B	1.5	No
4	Cedar Ave at Tarragona Dr/El Rivino Rd	S	11.4	B	11.4	B	0.0	No	16.1	B	17.4	B	1.3	No
5	Rubidoux Blvd at Agua Mansa Commerce Park Dwy	S	0.7	A	0.7	A	0.0	No	0.7	A	0.8	A	0.1	No
6	Rubidoux Blvd at Market St/20th St	S	95.7	F	102.0	F	6.3	Yes	131.8	F	138.4	F	6.6	Yes
7	Agua Mansa Rd at Market St	S	24.5	C	26.8	C	2.3	No	28.9	C	34.7	C	5.8	No
8	Rubidoux Blvd at 24th St	U	159.9	F	293.0	F	133.1	Yes	200.0	F	200.0	F	0.0	No
9	Market St at Hall Ave	U	41.3	E	45.6	E	4.3	No	37.7	E	44.4	E	6.7	Yes
10	Hall Ave at 24th St	U	8.0	A	8.5	A	0.5	No	9.5	A	15.2	C	5.7	No
11	Market St at 24th St/Via Cerro	S	33.8	C	34.6	C	0.8	No	69.8	E	92.7	F	22.9	Yes
12	Rubidoux Blvd at 26th St	U	62.2	F	154.0	F	91.8	Yes	83.6	F	782.4	F	698.8	Yes
13	Hall Ave at 26th St	U	10.1	B	14.0	B	3.9	No	11.7	B	24.0	C	12.3	No
14	Rubidoux Blvd at 28th St	S	10.4	B	11.9	B	1.5	No	12.6	B	14.8	B	2.2	No
15	Hall Ave at 28th St	U	7.5	A	8.8	A	1.3	No	8.1	A	16.7	C	8.6	No
16	Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp	S	166.4	F	325.0	F	158.6	Yes	75.5	E	441.5	F	366.0	Yes
17	Rubidoux Blvd at SR-60 WB On-Ramp	U	547.5	F	1729.2	F	1181.7	Yes	1004.7	F	5008.7	F	4004.0	Yes
18	Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd	S	242.3	F	358.1	F	115.8	Yes	68.1	E	329.9	F	261.8	Yes
19	Frontage Rd at SR-60 EB On-Ramp	U	16.5	C	--	--	--	--	10.9	B	--	--	--	--
20	Market St at Rivera St	S	15.2	B	15.4	B	0.2	No	19.2	B	19.7	B	0.5	No
21	Market St at SR-60 WB Ramps	S	11.7	B	12.4	B	0.7	No	23.9	C	30.3	C	6.4	No
22	Market St at SR-60 EB Ramps	S	30.5	C	33.2	C	2.7	No	42.6	D	70.6	E	28.0	Yes
23	Rubidoux Blvd at 34th St	S	15.5	B	18.0	B	2.5	No	18.0	B	22.2	C	4.2	No
24	Wallace St at 34th St	U	8.0	A	8.2	A	0.2	No	9.4	A	9.9	A	0.5	No
25	Crestmore Rd at 34th St	U	8.9	A	9.6	A	0.7	No	9.7	A	11.1	B	1.4	No

TABLE 10
SUMMARY OF INTERSECTION OPERATION
OPENING YEAR 2026 CUMULATIVE NO RAMP PLUS PROJECT OPTION 2 (HALL AVE/26TH ST)

Int. #	Intersection	Traffic Control	AM Peak Hour						PM Peak Hour					
			Without Project		With Project		Change in Delay	Project-Related Effect?	Without Project		With Project		Change in Delay	Project-Related Effect?
			Delay	LOS	Delay	LOS			Delay	LOS	Delay	LOS		
26	Wallace St at 36th St	U	9.9	A	10.4	B	0.5	No	9.5	A	9.9	A	0.4	No
27	Crestmore Rd at 36th St	U	9.1	A	9.5	A	0.4	No	8.6	A	9.0	A	0.4	No
28	Valley Way at Mission Blvd	S	33.2	C	33.7	C	0.5	No	39.8	D	41.0	D	1.2	No
29	Golden Ave at Mission Blvd	S	13.9	B	14.5	B	0.6	No	14.0	B	15.7	B	1.7	No
30	Opal St at Mission Blvd	S	23.9	C	26.7	C	2.8	No	15.2	B	16.6	B	1.4	No
31	Pacific Ave at Mission Blvd	S	27.6	C	29.8	C	2.2	No	23.2	C	24.8	C	1.6	No
32	La Rue St at Mission Blvd	S	20.8	C	21.6	C	0.8	No	9.8	A	10.3	B	0.5	No
33	Riverview Dr at Mission Blvd	S	75.8	F	112.1	F	36.3	Yes	120.3	F	176.7	F	56.4	Yes
34	Rubidoux Blvd at Mission Blvd	S	79.1	E	117.8	F	38.7	Yes	96.8	F	167.8	F	71.0	Yes
35	Wallace St at Mission Blvd	S	11.6	B	11.8	B	0.2	No	21.0	C	21.4	C	0.4	No
36	Crestmore Rd at Mission Blvd	S	22.1	C	22.1	C	0.0	No	65.5	E	67.0	E	1.5	No
37	Riverview Dr at 42nd St	S	20.7	C	22.7	C	2.0	No	21.8	C	23.1	C	1.3	No
38	Riverview Dr/Limonite Ave at Pacific Ave	S	11.8	B	11.8	B	0.0	No	12.1	B	12.1	B	0.0	No
39	Limonite Ave at Avenue San Juan Bautista	S	23.0	C	24.2	C	1.2	No	25.1	C	25.1	C	0.0	No
40	Camino Real at Limonite Ave	S	40.7	D	41.7	D	1.0	No	49.9	D	51.9	D	2.0	No
41	Hall Ave at "A" St	U	--	--	12.9	B	--	--	--	--	9.8	A	--	--
42	SR-60 SB On-Ramp at "A" St	U	--	--	0.0	A	--	--	--	--	0.0	A	--	--
43	"A" St at "B" St	U	--	--	9.4	A	--	--	--	--	11.4	B	--	--
44	Rubidoux Blvd at "B" St	S	--	--	20.1	C	--	--	--	--	23.1	C	--	--
45	Project Dwy at "B" St	S	--	--	13.7	B	--	--	--	--	15.1	B	--	--
46	Wallace St at "B" St	U	--	--	3.7	A	--	--	--	--	3.9	A	--	--
47	"B" St at Industrial Dwy	U	--	--	11.2	B	--	--	--	--	11.2	B	--	--

Notes:
- Bold values indicate intersections operating at an unacceptable Level of Service
- Intersection operation is based on average intersection delay for signalized intersections.
- Delay values for unsignalized intersections represent the average vehicle delay on the worst (highest delay) intersection approach.

Opening Year 2026 (Phase 2) Cumulative No Ramp Plus Project – Option 3

Phase 2 – Option 3 project-related traffic was added to the Opening Year 2026 Cumulative traffic volumes, and the resulting peak hour turning movement volumes at the study intersections are shown on Figure 17.

Peak Hour Operating Conditions – Option 3

Intersection Level of Service analysis was conducted for the morning and evening peak hours for the Opening Year 2026 (Phase 2) Cumulative Plus Project – Option 3 conditions. The results of the intersection analysis are shown on Table 11. Copies of intersection analysis worksheets for this scenario are provided in *Appendix C*.

Review of this table indicates that, with the addition project traffic, the following study intersections would continue to operate at an unacceptable Level of Service:

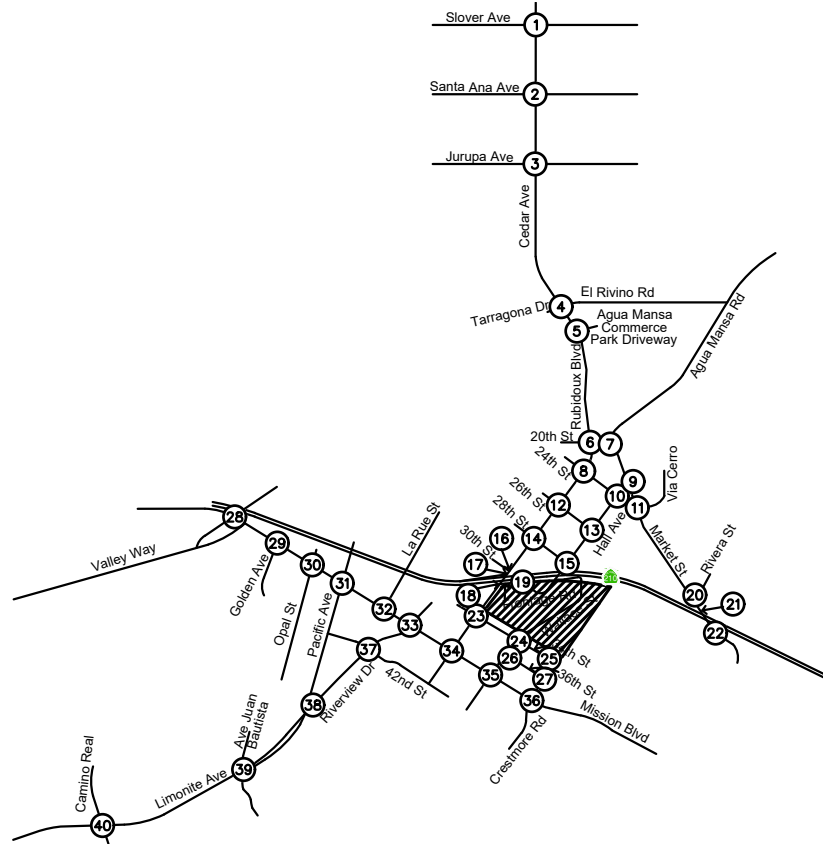
- #6 – Rubidoux Blvd at Market St/20th St: AM – LOS F, PM – LOS F
- #8 – Rubidoux Blvd at 24th St: AM – LOS F, PM – LOS F
- #9 – Market St at Hall Ave: AM – LOS F, PM – LOS F
- #11 – Market St at 24th St/Via Cerro: PM – LOS F
- #12 – Rubidoux Blvd at 26th St: AM – LOS F, PM – LOS F
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp: AM – LOS F, PM – LOS F
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp: AM – LOS F, PM – LOS F
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd: AM – LOS F, PM – LOS F
- #22 – Market St at SR-60 EB Ramps: PM – LOS E
- #33 – Riverview Dr at Mission Blvd: AM – LOS F, PM – LOS F
- #34 – Rubidoux Blvd at Mission Blvd: AM – LOS F, PM – LOS F
- #36 – Crestmore Rd at Mission Blvd: PM – LOS E

Based on the significance thresholds presented earlier in this report, the following intersection would experience a project-related effect due to the increase in delay caused by the addition of project traffic:

- #6 – Rubidoux Blvd at Market St/20th St
- #8 – Rubidoux Blvd at 24th St
- #9 – Market St at Hall Ave
- #11 – Market St at 24th St/Via Cerro
- #12 – Rubidoux Blvd at 26th St
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd
- #22 – Market St at SR-60 EB Ramps
- #33 – Riverview Dr at Mission Blvd

- #34 – Rubidoux Blvd at Mission Blvd

Recommended Improvements are presented in the Recommended Improvement section of this report.



NOT TO SCALE

1. Cedar Ave at Slover Ave		2. Cedar Ave at Santa Ana Ave		3. Cedar Ave at Jurupa Ave		4. Cedar Ave at Tarragona Dr/El Rivino Rd									
$\begin{matrix} \leftarrow 124/85 \\ \leftarrow 1041/808 \\ \leftarrow 124/140 \\ \leftarrow 154/113 \\ \leftarrow 157/244 \\ \leftarrow 62/65 \end{matrix}$		$\begin{matrix} \leftarrow 61/75 \\ \leftarrow 1022/937 \\ \leftarrow 55/55 \\ \leftarrow 42/31 \\ \leftarrow 111/129 \\ \leftarrow 50/46 \end{matrix}$		$\begin{matrix} \leftarrow 25/40 \\ \leftarrow 1040/1057 \\ \leftarrow 85/92 \\ \leftarrow 143/51 \\ \leftarrow 91/77 \\ \leftarrow 55/64 \end{matrix}$		$\begin{matrix} \leftarrow 3/21 \\ \leftarrow 1140/1117 \\ \leftarrow 108/142 \\ \leftarrow 57/177 \\ \leftarrow 1/4 \\ \leftarrow 112/185 \end{matrix}$									
$\begin{matrix} 210/209 \rightarrow \\ 160/417 \rightarrow \\ 101/176 \rightarrow \\ 179/186 \rightarrow \\ 937/624 \rightarrow \\ 41/95 \rightarrow \end{matrix}$		$\begin{matrix} 63/87 \rightarrow \\ 99/113 \rightarrow \\ 82/135 \rightarrow \\ 120/174 \rightarrow \\ 896/895 \rightarrow \\ 28/57 \rightarrow \end{matrix}$		$\begin{matrix} 36/34 \rightarrow \\ 81/193 \rightarrow \\ 39/66 \rightarrow \\ 41/85 \rightarrow \\ 868/966 \rightarrow \\ 54/103 \rightarrow \end{matrix}$		$\begin{matrix} 13/10 \rightarrow \\ 2/4 \rightarrow \\ 22/8 \rightarrow \\ 3/4 \rightarrow \\ 664/970 \rightarrow \\ 127/96 \rightarrow \end{matrix}$									
5. Rubidoux Blvd at Agua Mansa Commerce Park Driveway		6. Rubidoux Blvd at Market St/20th St		7. Agua Mansa Rd at Market St		8. Rubidoux Blvd at 24th St		9. Market St at Hall Ave							
$\begin{matrix} \leftarrow 1286/1281 \\ \leftarrow 1020/1208 \rightarrow \end{matrix}$		$\begin{matrix} \leftarrow 128/45 \\ \leftarrow 767/811 \\ \leftarrow 508/549 \\ \leftarrow 419/533 \\ \leftarrow 220/95 \\ \leftarrow 357/450 \end{matrix}$		$\begin{matrix} \leftarrow 276/398 \\ \leftarrow 1/0 \\ \leftarrow 143/200 \\ \leftarrow 202/254 \\ \leftarrow 686/639 \\ \leftarrow 21/0 \end{matrix}$		$\begin{matrix} \leftarrow 0/4 \\ \leftarrow 1068/1332 \\ \leftarrow 117/120 \\ \leftarrow 19/34 \\ \leftarrow 3/7 \\ \leftarrow 9/35 \end{matrix}$		$\begin{matrix} \leftarrow 726/770 \\ \leftarrow 74/48 \end{matrix}$							
$\begin{matrix} 60/87 \rightarrow \\ 91/221 \rightarrow \\ 85/174 \rightarrow \\ 180/92 \rightarrow \\ 377/508 \rightarrow \\ 378/443 \rightarrow \end{matrix}$		$\begin{matrix} 331/517 \rightarrow \\ 634/650 \rightarrow \\ 43/1 \rightarrow \\ 10/0 \rightarrow \\ 1/3 \rightarrow \\ 14/1 \rightarrow \end{matrix}$		$\begin{matrix} 0/1 \rightarrow \\ 3/19 \rightarrow \\ 4/11 \rightarrow \\ 8/21 \rightarrow \\ 914/1003 \rightarrow \\ 19/53 \rightarrow \end{matrix}$		$\begin{matrix} 627/633 \rightarrow \\ 49/43 \rightarrow \\ 56/126 \rightarrow \\ 67/259 \rightarrow \end{matrix}$		$\begin{matrix} 627/633 \rightarrow \\ 49/43 \rightarrow \\ 56/126 \rightarrow \\ 67/259 \rightarrow \end{matrix}$							
10. Hall Ave at 24th Street		11. Market St at 24th St/Via Cerro		12. Rubidoux Blvd at 26th St		13. Hall Ave at 26th St		14. Rubidoux Blvd at 28th St		15. Hall Ave at 28th St		16. Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp		17. Rubidoux Blvd at SR-60 WB On-Ramp	
$\begin{matrix} \leftarrow 7/13 \\ \leftarrow 98/83 \\ \leftarrow 14/6 \\ \leftarrow 4/1 \\ \leftarrow 11/32 \\ \leftarrow 23/71 \end{matrix}$		$\begin{matrix} \leftarrow 1/1 \\ \leftarrow 760/1175 \\ \leftarrow 23/23 \\ \leftarrow 12/34 \\ \leftarrow 8/42 \\ \leftarrow 125/256 \end{matrix}$		$\begin{matrix} \leftarrow 0/1 \\ \leftarrow 955/1258 \\ \leftarrow 11/14 \\ \leftarrow 10/12 \\ \leftarrow 2/1 \\ \leftarrow 4/15 \end{matrix}$		$\begin{matrix} \leftarrow 3/4 \\ \leftarrow 187/151 \\ \leftarrow 1/13 \\ \leftarrow 7/3 \\ \leftarrow 0/1 \\ \leftarrow 10/6 \end{matrix}$		$\begin{matrix} \leftarrow 20/40 \\ \leftarrow 1111/1401 \\ \leftarrow 37/45 \\ \leftarrow 11/21 \\ \leftarrow 16/42 \\ \leftarrow 58/70 \end{matrix}$		$\begin{matrix} \leftarrow 51/63 \\ \leftarrow 204/123 \\ \leftarrow 1/0 \end{matrix}$		$\begin{matrix} \leftarrow 30/31 \\ \leftarrow 1281/1761 \\ \leftarrow 187/195 \\ \leftarrow 80/130 \\ \leftarrow 1004/1263 \end{matrix}$		$\begin{matrix} \leftarrow 817/991 \\ \leftarrow 1728/2221 \end{matrix}$	
$\begin{matrix} 1/9 \rightarrow \\ 127/165 \rightarrow \\ 4/23 \rightarrow \\ 11/30 \rightarrow \\ 106/378 \rightarrow \\ 35/98 \rightarrow \end{matrix}$		$\begin{matrix} 12/4 \rightarrow \\ 35/33 \rightarrow \\ 135/238 \rightarrow \\ 37/64 \rightarrow \\ 908/761 \rightarrow \\ 171/114 \rightarrow \end{matrix}$		$\begin{matrix} 2/2 \rightarrow \\ 0/2 \rightarrow \\ 10/7 \rightarrow \\ 9/2 \rightarrow \\ 1056/1061 \rightarrow \\ 54/49 \rightarrow \end{matrix}$		$\begin{matrix} 3/22 \rightarrow \\ 0/2 \rightarrow \\ 52/30 \rightarrow \\ 2/14 \rightarrow \\ 170/449 \rightarrow \\ 9/1 \rightarrow \end{matrix}$		$\begin{matrix} 37/48 \rightarrow \\ 12/27 \rightarrow \\ 113/112 \rightarrow \\ 66/128 \rightarrow \\ 1052/1064 \rightarrow \\ 62/75 \rightarrow \end{matrix}$		$\begin{matrix} 32/47 \rightarrow \\ 1/1 \rightarrow \\ 46/56 \rightarrow \\ 17/46 \rightarrow \\ 142/472 \rightarrow \\ 1/1 \rightarrow \end{matrix}$		$\begin{matrix} 48/39 \rightarrow \\ 271/229 \rightarrow \\ 105/115 \rightarrow \\ 1187/1140 \rightarrow \end{matrix}$		$\begin{matrix} 576/606 \rightarrow \\ 1273/1235 \rightarrow \end{matrix}$	
18. Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd		19. 30th St at Frontage Rd/SR-60 EB On-Ramp		20. Market St at Rivera St		21. Market St at SR-60 WB Ramps		22. Market St at SR-60 EB Ramps		23. Rubidoux at 34th St		24. Wallace St at 34th St			
$\begin{matrix} \leftarrow 1333/1990 \\ \leftarrow 398/255 \end{matrix}$				$\begin{matrix} \leftarrow 6/0 \\ \leftarrow 959/1469 \\ \leftarrow 64/125 \\ \leftarrow 78/100 \\ \leftarrow 292/252 \end{matrix}$		$\begin{matrix} \leftarrow 230/273 \\ \leftarrow 1059/1466 \\ \leftarrow 1073/832 \\ \leftarrow 122/143 \end{matrix}$		$\begin{matrix} \leftarrow 471/769 \\ \leftarrow 709/812 \end{matrix}$		$\begin{matrix} \leftarrow 54/136 \\ \leftarrow 1364/1882 \\ \leftarrow 56/198 \\ \leftarrow 123/69 \\ \leftarrow 8/21 \\ \leftarrow 21/23 \end{matrix}$		$\begin{matrix} \leftarrow 3/10 \\ \leftarrow 50/55 \\ \leftarrow 13/31 \\ \leftarrow 9/30 \\ \leftarrow 63/59 \\ \leftarrow 6/6 \end{matrix}$			
$\begin{matrix} 758/704 \rightarrow \\ 140/115 \rightarrow \\ 404/745 \rightarrow \\ 1054/1235 \rightarrow \\ 1213/936 \rightarrow \end{matrix}$		$\begin{matrix} 1008/674 \rightarrow \\ 308/238 \rightarrow \end{matrix}$		$\begin{matrix} 3/2 \rightarrow \\ 0/15 \rightarrow \\ 13/62 \rightarrow \\ 26/6 \rightarrow \\ 1136/1070 \rightarrow \\ 349/261 \rightarrow \end{matrix}$		$\begin{matrix} 229/442 \rightarrow \\ 493/496 \rightarrow \end{matrix}$		$\begin{matrix} 181/184 \rightarrow \\ 610/934 \rightarrow \\ 571/781 \rightarrow \\ 209/122 \rightarrow \end{matrix}$		$\begin{matrix} 141/117 \rightarrow \\ 35/47 \rightarrow \\ 21/33 \rightarrow \\ 24/26 \rightarrow \\ 1643/1453 \rightarrow \\ 45/102 \rightarrow \end{matrix}$		$\begin{matrix} 4/17 \rightarrow \\ 56/201 \rightarrow \\ 64/103 \rightarrow \\ 52/30 \rightarrow \\ 64/70 \rightarrow \\ 3/6 \rightarrow \end{matrix}$			

LEGEND:

- = Project Site
- = Study Intersection
- = AM/PM Volumes

Note: Volumes reflect PCE adjustments.

FIGURE 17A
OPENING YEAR 2026 (PHASE 2) NO RAMP PLUS CUMULATIVE
PROJECTS PLUS PROJECT TRAFFIC VOLUMES - OPTION 3



TABLE 11
SUMMARY OF INTERSECTION OPERATION
OPENING YEAR 2026 CUMULATIVE NO RAMP PLUS PROJECT OPTION 3 (HALL AVE/MARKET ST/RUBIDOUX BLVD)

Int. #	Intersection	Traffic Control	AM Peak Hour						PM Peak Hour					
			Without Project		With Project		Change in Delay	Project-Related Effect?	Without Project		With Project		Change in Delay	Project-Related Effect?
			Delay	LOS	Delay	LOS			Delay	LOS	Delay	LOS		
1	Cedar Ave at Slover Ave	S	29.0	C	30.1	C	1.1	No	29.9	C	32.3	C	2.4	No
2	Cedar Ave at Santa Ana Ave	S	14.4	B	15.1	B	0.7	No	16.5	B	17.7	B	1.2	No
3	Cedar Ave at Jurupa Ave	S	14.9	B	15.9	B	1.0	No	15.1	B	16.6	B	1.5	No
4	Cedar Ave at Tarragona Dr/El Rivino Rd	S	11.4	B	11.4	B	0.0	No	16.1	B	17.4	B	1.3	No
5	Rubidoux Blvd at Agua Mansa Commerce Park Dwy	S	0.7	A	0.7	A	0.0	No	0.7	A	0.8	A	0.1	No
6	Rubidoux Blvd at Market St/20th St	S	95.7	F	104.6	F	8.9	Yes	131.8	F	149.2	F	17.4	Yes
7	Agua Mansa Rd at Market St	S	24.5	C	28.6	C	4.1	No	28.9	C	39.5	D	10.6	No
8	Rubidoux Blvd at 24th St	U	159.9	F	295.4	F	135.5	Yes	200.0	F	200.0	F	0.0	No
9	Market St at Hall Ave	U	41.3	E	98.6	F	57.3	Yes	37.7	E	198.5	F	160.8	Yes
10	Hall Ave at 24th St	U	8.0	A	8.9	A	0.9	No	9.5	A	23.6	C	14.1	No
11	Market St at 24th St/Via Cerro	S	33.8	C	37.8	D	4.0	No	69.8	E	98.3	F	28.5	Yes
12	Rubidoux Blvd at 26th St	U	62.2	F	93.6	F	31.4	Yes	83.6	F	164.8	F	81.2	Yes
13	Hall Ave at 26th St	U	10.1	B	13.1	B	3.0	No	11.7	B	19.4	C	7.7	No
14	Rubidoux Blvd at 28th St	S	10.4	B	11.8	B	1.4	No	12.6	B	14.6	B	2.0	No
15	Hall Ave at 28th St	U	7.5	A	8.8	A	1.3	No	8.1	A	16.7	C	8.6	No
16	Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp	S	166.4	F	325.0	F	158.6	Yes	75.5	E	451.5	F	376.0	Yes
17	Rubidoux Blvd at SR-60 WB On-Ramp	U	547.5	F	1709.2	F	1161.7	Yes	1004.7	F	4835.4	F	3830.7	Yes
18	Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd	S	242.3	F	358.1	F	115.8	Yes	68.1	E	329.9	F	261.8	Yes
19	Frontage Rd at SR-60 EB On-Ramp	U	16.5	C	--	--	--	--	10.9	B	--	--	--	--
20	Market St at Rivera St	S	15.2	B	15.4	B	0.2	No	19.2	B	19.8	B	0.6	No
21	Market St at SR-60 WB Ramps	S	11.7	B	12.4	B	0.7	No	23.9	C	30.2	C	6.3	No
22	Market St at SR-60 EB Ramps	S	30.5	C	33.2	C	2.7	No	42.6	D	70.6	E	28.0	Yes
23	Rubidoux Blvd at 34th St	S	15.5	B	18.0	B	2.5	No	18.0	B	22.2	C	4.2	No
24	Wallace St at 34th St	U	8.0	A	8.2	A	0.2	No	9.4	A	9.9	A	0.5	No
25	Crestmore Rd at 34th St	U	8.9	A	9.6	A	0.7	No	9.7	A	11.1	B	1.4	No

TABLE 11
SUMMARY OF INTERSECTION OPERATION
OPENING YEAR 2026 CUMULATIVE NO RAMP PLUS PROJECT OPTION 3 (HALL AVE/MARKET ST/RUBIDOUX BLVD)

Int. #	Intersection	Traffic Control	AM Peak Hour						PM Peak Hour					
			Without Project		With Project		Change in Delay	Project-Related Effect?	Without Project		With Project		Change in Delay	Project-Related Effect?
			Delay	LOS	Delay	LOS			Delay	LOS	Delay	LOS		
26	Wallace St at 36th St	U	9.9	A	10.4	B	0.5	No	9.5	A	9.9	A	0.4	No
27	Crestmore Rd at 36th St	U	9.1	A	9.5	A	0.4	No	8.6	A	9.0	A	0.4	No
28	Valley Way at Mission Blvd	S	33.2	C	33.7	C	0.5	No	39.8	D	41.0	D	1.2	No
29	Golden Ave at Mission Blvd	S	13.9	B	14.5	B	0.6	No	14.0	B	15.7	B	1.7	No
30	Opal St at Mission Blvd	S	23.9	C	26.7	C	2.8	No	15.2	B	16.6	B	1.4	No
31	Pacific Ave at Mission Blvd	S	27.6	C	29.8	C	2.2	No	23.2	C	24.8	C	1.6	No
32	La Rue St at Mission Blvd	S	20.8	C	21.6	C	0.8	No	9.8	A	10.6	B	0.8	No
33	Riverview Dr at Mission Blvd	S	75.8	F	112.1	F	36.3	Yes	120.3	F	176.7	F	56.4	Yes
34	Rubidoux Blvd at Mission Blvd	S	79.1	E	117.8	F	38.7	Yes	96.8	F	114.4	F	17.6	Yes
35	Wallace St at Mission Blvd	S	11.6	B	11.8	B	0.2	No	21.0	C	21.4	C	0.4	No
36	Crestmore Rd at Mission Blvd	S	22.1	C	22.1	C	0.0	No	65.5	E	67.0	E	1.5	No
37	Riverview Dr at 42nd St	S	20.7	C	22.7	C	2.0	No	21.8	C	23.1	C	1.3	No
38	Riverview Dr/Limonite Ave at Pacific Ave	S	11.8	B	11.8	B	0.0	No	12.1	B	12.1	B	0.0	No
39	Limonite Ave at Avenue San Juan Bautista	S	23.0	C	24.2	C	1.2	No	25.1	C	25.1	C	0.0	No
40	Camino Real at Limonite Ave	S	40.7	D	41.7	D	1.0	No	49.9	D	51.9	D	2.0	No
41	Hall Ave at "A" St	U	--	--	11.6	B	--	--	--	--	9.8	A	--	--
42	SR-60 SB On-Ramp at "A" St	U	--	--	0.0	A	--	--	--	--	0.0	A	--	--
43	"A" St at "B" St	U	--	--	9.4	A	--	--	--	--	11.2	B	--	--
44	Rubidoux Blvd at "B" St	S	--	--	20.1	C	--	--	--	--	23.1	C	--	--
45	Project Dwy at "B" St	S	--	--	20.6	C	--	--	--	--	31.1	C	--	--
46	Wallace St at "B" St	U	--	--	3.7	A	--	--	--	--	3.9	A	--	--
47	"B" St at Industrial Dwy	U	--	--	11.3	B	--	--	--	--	11.7	B	--	--

Notes:
- Bold values indicate intersections operating at an unacceptable Level of Service
- Intersection operation is based on average intersection delay for signalized intersections.
- Delay values for unsignalized intersections represent the average vehicle delay on the worst (highest delay) intersection approach.

Opening Year 2026 (Phase 2) Cumulative Plus Project – Option 1

Phase 2 of the project includes the option to construct a SR-60 EB On-Ramp within the project site. This on-ramp is anticipated to serve most of the project traffic and about 30% non-project related traffic heading east on the SR-60. The project SR-60 EB On-Ramp was added to the network and the resulting Opening Year 2026 (Phase 2) Cumulative Plus Project – Option 1 peak hour turning movement volumes are shown on Figure 18.

Peak Hour Operating Conditions – Option 1

Intersection Level of Service analysis was conducted for the morning and evening peak hours for the Opening Year 2026 (Phase 2) Cumulative Plus Project – Option 1 conditions. The results of the intersection analysis are shown on Table 12. Copies of intersection analysis worksheets for this scenario are provided in *Appendix C*.

Review of this table indicates that, with the addition of the project on-ramp, the following study intersections would operate at an unacceptable Level of Service:

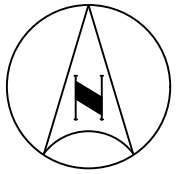
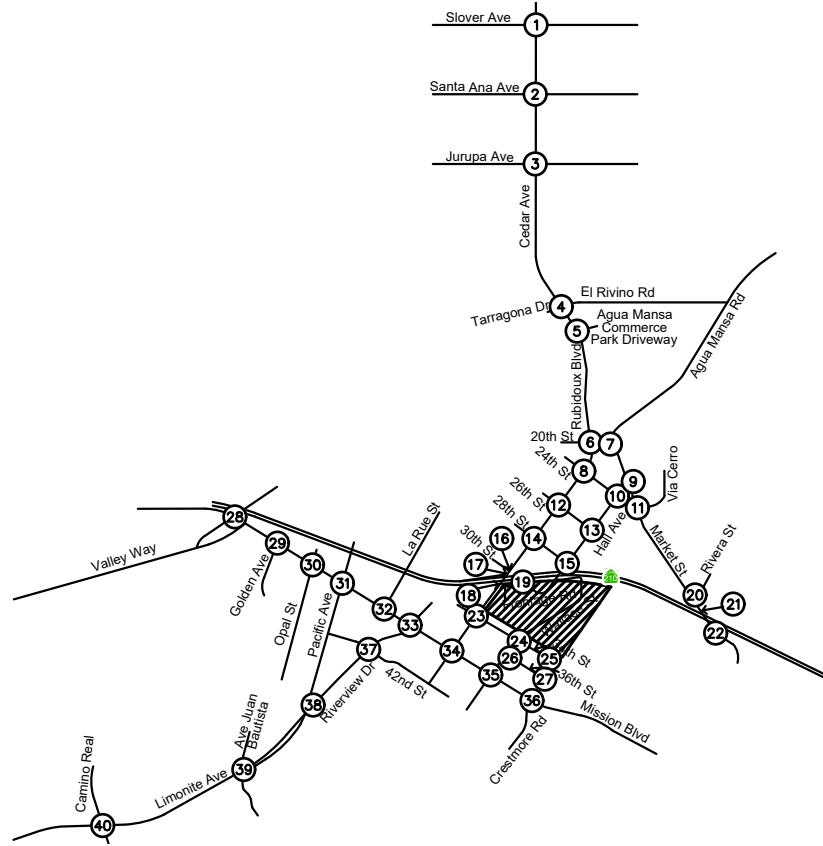
- #6 – Rubidoux Blvd at Market St/20th St: AM – LOS F, PM – LOS F
- #8 – Rubidoux Blvd at 24th St: AM – LOS F, PM – LOS F
- #9 – Market St at Hall Ave: AM – LOS E, PM – LOS E
- #11 – Market St at 24th St/Via Cerro: PM – LOS E
- #12 – Rubidoux Blvd at 26th St: AM – LOS F, PM – LOS F
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp: AM – LOS F, PM – LOS F
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp: AM – LOS F, PM – LOS F
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd: AM – LOS F, PM – LOS F
- #19 – Frontage Rd at SR-60 EB On-Ramp: AM – LOS F
- #33 – Riverview Dr at Mission Blvd: AM – LOS F, PM – LOS F
- #34 – Rubidoux Blvd at Mission Blvd: AM – LOS F, PM – LOS F
- #36 – Crestmore Rd at Mission Blvd: PM – LOS E

Based on the significance thresholds presented earlier in this report, the following intersection would experience a project-related effect due to the increase in delay caused by the addition of project traffic:

- #6 – Rubidoux Blvd at Market St/20th St
- #8 – Rubidoux Blvd at 24th St
- #12 – Rubidoux Blvd at 26th St
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd
- #19 – Frontage Rd at SR-60 EB On-Ramp
- #33 – Riverview Dr at Mission Blvd

- #34 – Rubidoux Blvd at Mission Blvd

Recommended Improvements are presented in the Recommended Improvement section of this report.



NOT TO SCALE

1. Cedar Ave at Slover Ave 		2. Cedar Ave at Santa Ana Ave 		3. Cedar Ave at Jurupa Ave 		4. Cedar Ave at Tarragona Dr/El Rivino Rd 									
5. Rubidoux Blvd at Agua Mansa Commerce Park Driveway 		6. Rubidoux Blvd at Market St/20th St 		7. Agua Mansa Rd at Market St 		8. Rubidoux Blvd at 24th St 		9. Market St at Hall Ave 							
10. Hall Ave at 24th Street 		11. Market St at 24th St/Via Cerro 		12. Rubidoux Blvd at 26th St 		13. Hall Ave at 26th St 		14. Rubidoux Blvd at 28th St 		15. Hall Ave at 28th St 		16. Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp 		17. Rubidoux Blvd at SR-60 WB On-Ramp 	
18. Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd 		19. 30th St at Frontage Rd/SR-60 EB On-Ramp 		20. Market St at Rivera St 		21. Market St at SR-60 WB Ramps 		22. Market St at SR-60 EB Ramps 		23. Rubidoux at 34th St 		24. Wallace St at 34th St 			

LEGEND:

- = Project Site
- = Study Intersection
- xx/yy = AM/PM Volumes

Note: Volumes reflect PCE adjustments.

FIGURE 18A
OPENING YEAR 2026 (PHASE 2) PLUS CUMULATIVE
PROJECTS PLUS PROJECT TRAFFIC VOLUMES - OPTION 1



TABLE 12
SUMMARY OF INTERSECTION OPERATION
OPENING YEAR 2026 CUMULATIVE PLUS PROJECT OPTION 1 (RUBIDOUX BLVD)

Int. #	Intersection	Traffic Control	AM Peak Hour						PM Peak Hour					
			Without Project		With Project		Change in Delay	Project-Related Effect?	Without Project		With Project		Change in Delay	Project-Related Effect?
			Delay	LOS	Delay	LOS			Delay	LOS	Delay	LOS		
1	Cedar Ave at Slover Ave	S	29.0	C	30.1	C	1.1	No	29.9	C	31.3	C	1.4	No
2	Cedar Ave at Santa Ana Ave	S	14.4	B	15.1	B	0.7	No	16.5	B	17.3	B	0.8	No
3	Cedar Ave at Jurupa Ave	S	14.9	B	15.9	B	1.0	No	15.1	B	16.0	B	0.9	No
4	Cedar Ave at Tarragona Dr/El Rivino Rd	S	11.4	B	11.4	B	0.0	No	16.1	B	16.8	B	0.7	No
5	Rubidoux Blvd at Agua Mansa Commerce Park Dwy	S	0.7	A	8.9	A	8.2	No	0.7	A	15.2	B	14.5	No
6	Rubidoux Blvd at Market St/20th St	S	95.7	F	102.0	F	6.3	Yes	131.8	F	136.3	F	4.5	Yes
7	Agua Mansa Rd at Market St	S	24.5	C	26.8	C	2.3	No	28.9	C	32.9	C	4.0	No
8	Rubidoux Blvd at 24th St	U	159.9	F	315.9	F	156.0	Yes	200.0	F	200.0	F	0.0	No
9	Market St at Hall Ave	U	41.3	E	45.6	E	4.3	No	37.7	E	40.7	E	3.0	No
10	Hall Ave at 24th St	U	8.0	A	8.1	A	0.1	No	9.5	A	9.7	A	0.2	No
11	Market St at 24th St/Via Cerro	S	33.8	C	34.6	C	0.8	No	69.8	E	70.7	E	0.9	No
12	Rubidoux Blvd at 26th St	U	62.2	F	93.7	F	31.5	Yes	83.6	F	132.6	F	49.0	Yes
13	Hall Ave at 26th St	U	10.1	B	10.4	B	0.3	No	11.7	B	12.1	B	0.4	No
14	Rubidoux Blvd at 28th St	S	10.4	B	11.9	B	1.5	No	12.6	B	14.0	B	1.4	No
15	Hall Ave at 28th St	U	7.5	A	7.7	A	0.2	No	8.1	A	8.4	A	0.3	No
16	Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp	S	166.4	F	322.0	F	155.6	Yes	75.5	E	196.7	F	121.2	Yes
17	Rubidoux Blvd at SR-60 WB On-Ramp	U	547.5	F	2003.7	F	1456.2	Yes	1004.7	F	3520.5	F	2515.8	Yes
18	Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd	S	242.3	F	372.3	F	130.0	Yes	68.1	E	208.2	F	140.1	Yes
19	Frontage Rd at SR-60 EB On-Ramp	U	16.5	C	52.8	F	36.3	Yes	10.9	B	17.7	C	6.8	No
20	Market St at Rivera St	S	15.2	B	15.4	B	0.2	No	19.2	B	19.5	B	0.3	No
21	Market St at SR-60 WB Ramps	S	11.7	B	12.2	B	0.5	No	23.9	C	24.9	C	1.0	No
22	Market St at SR-60 EB Ramps	S	30.5	C	31.3	C	0.8	No	42.6	D	45.7	D	3.1	No
23	Rubidoux Blvd at 34th St	S	15.5	B	18.0	B	2.5	No	18.0	B	20.3	C	2.3	No
24	Wallace St at 34th St	U	8.0	A	8.2	A	0.2	No	9.4	A	9.7	A	0.3	No
25	Crestmore Rd at 34th St	U	8.9	A	9.6	A	0.7	No	9.7	A	10.8	B	1.1	No

TABLE 12
SUMMARY OF INTERSECTION OPERATION
OPENING YEAR 2026 CUMULATIVE PLUS PROJECT OPTION 1 (RUBIDOUX BLVD)

Int. #	Intersection	Traffic Control	AM Peak Hour						PM Peak Hour					
			Without Project		With Project		Change in Delay	Project-Related Effect?	Without Project		With Project		Change in Delay	Project-Related Effect?
			Delay	LOS	Delay	LOS			Delay	LOS	Delay	LOS		
26	Wallace St at 36th St	U	9.9	A	10.4	B	0.5	No	9.5	A	9.8	A	0.3	No
27	Crestmore Rd at 36th St	U	9.1	A	9.5	A	0.4	No	8.6	A	8.8	A	0.2	No
28	Valley Way at Mission Blvd	S	33.2	C	33.7	C	0.5	No	39.8	D	40.5	D	0.7	No
29	Golden Ave at Mission Blvd	S	13.9	B	14.5	B	0.6	No	14.0	B	15.1	B	1.1	No
30	Opal St at Mission Blvd	S	23.9	C	26.8	C	2.9	No	15.2	B	16.2	B	1.0	No
31	Pacific Ave at Mission Blvd	S	27.6	C	29.8	C	2.2	No	23.2	C	24.4	C	1.2	No
32	La Rue St at Mission Blvd	S	20.8	C	21.6	C	0.8	No	9.8	A	10.1	B	0.3	No
33	Riverview Dr at Mission Blvd	S	75.8	F	112.1	F	36.3	Yes	120.3	F	163.9	F	43.6	Yes
34	Rubidoux Blvd at Mission Blvd	S	79.1	E	117.8	F	38.7	Yes	96.8	F	138.8	F	42.0	Yes
35	Wallace St at Mission Blvd	S	11.6	B	11.8	B	0.2	No	21.0	C	21.2	C	0.2	No
36	Crestmore Rd at Mission Blvd	S	22.1	C	22.1	C	0.0	No	65.5	E	66.0	E	0.5	No
37	Riverview Dr at 42nd St	S	20.7	C	22.7	C	2.0	No	21.8	C	22.4	C	0.6	No
38	Riverview Dr/Limonite Ave at Pacific Ave	S	11.8	B	11.8	B	0.0	No	12.1	B	12.1	B	0.0	No
39	Limonite Ave at Avenue San Juan Bautista	S	23.0	C	24.2	C	1.2	No	25.1	C	25.1	C	0.0	No
40	Camino Real at Limonite Ave	S	40.7	D	41.7	D	1.0	No	49.9	D	52.2	D	2.3	No
41	Hall Ave at "A" St	U	--	--	16.6	C	--	--	--	--	14.8	B	--	--
42	SR-60 SB On-Ramp at "A" St	U	--	--	8.2	A	--	--	--	--	7.9	A	--	--
43	"A" St at "B" St	U	--	--	9.4	A	--	--	--	--	9.4	A	--	--
44	Rubidoux Blvd at "B" St	S	--	--	19.8	B	--	--	--	--	19.5	B	--	--
45	Project Dwy at "B" St	S	--	--	11.8	B	--	--	--	--	21.8	C	--	--
46	Wallace St at "B" St	U	--	--	3.6	A	--	--	--	--	3.6	A	--	--
47	"B" St at Industrial Dwy	U	--	--	11.2	B	--	--	--	--	11.2	B	--	--

Notes:
- Bold values indicate intersections operating at an unacceptable Level of Service
- Intersection operation is based on average intersection delay for signalized intersections.
- Delay values for unsignalized intersections represent the average vehicle delay on the worst (highest delay) intersection approach.

Opening Year 2026 (Phase 2) Cumulative Plus Project – Option 2

Phase 2 of the project includes the option to construct a SR-60 EB On-Ramp within the project site. This on-ramp is anticipated to serve most of the project traffic and about 30% non-project related traffic heading east on the SR-60. The project SR-60 EB On-Ramp was added to the network and the resulting Opening Year 2026 (Phase 2) Cumulative Plus Project – Option 2 peak hour turning movement volumes are shown on Figure 19.

Peak Hour Operating Conditions – Option 2

Intersection Level of Service analysis was conducted for the morning and evening peak hours for the Opening Year 2026 (Phase 2) Cumulative Plus Project – Option 2 conditions. The results of the intersection analysis are shown on Table 13. Copies of intersection analysis worksheets for this scenario are provided in *Appendix C*.

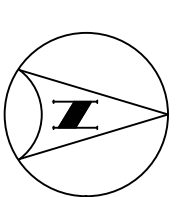
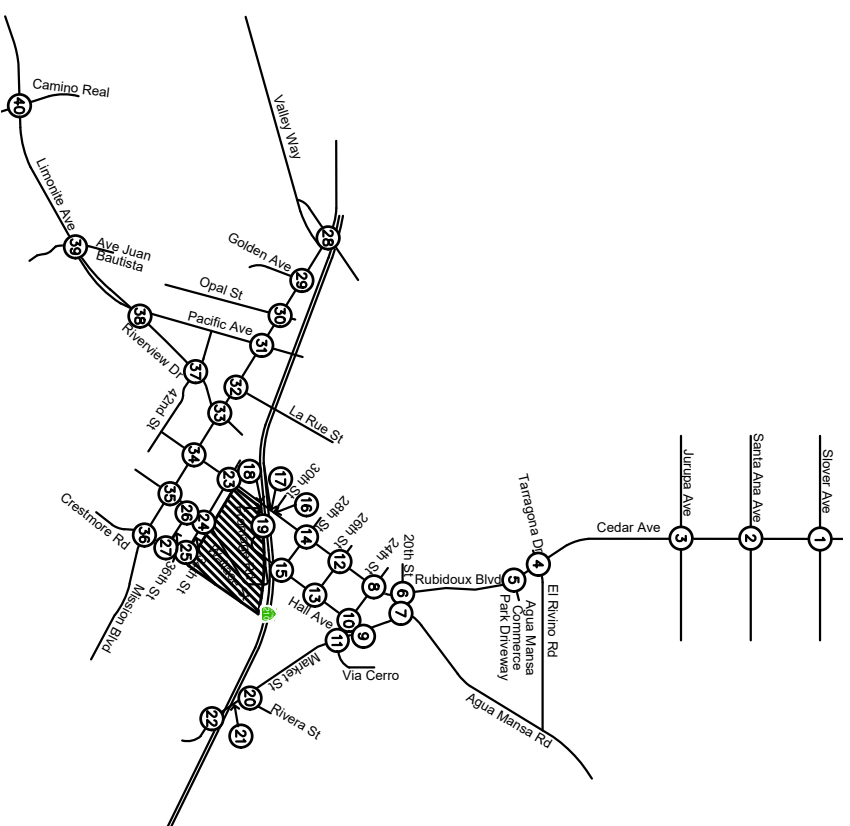
Review of this table indicates that, with the addition of the project on-ramp, the following study intersections would operate at an unacceptable Level of Service:

- #6 – Rubidoux Blvd at Market St/20th St: AM – LOS F, PM – LOS F
- #8 – Rubidoux Blvd at 24th St: AM – LOS F, PM – LOS F
- #9 – Market St at Hall Ave: AM – LOS E, PM – LOS E
- #11 – Market St at 24th St/Via Cerro: PM – LOS E
- #12 – Rubidoux Blvd at 26th St: AM – LOS F, PM – LOS F
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp: AM – LOS F, PM – LOS F
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp: AM – LOS F, PM – LOS F
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd: AM – LOS F, PM – LOS F
- #33 – Riverview Dr at Mission Blvd: AM – LOS F, PM – LOS F
- #34 – Rubidoux Blvd at Mission Blvd: AM – LOS F, PM – LOS F
- #36 – Crestmore Rd at Mission Blvd: PM – LOS E

Based on the significance thresholds presented earlier in this report, the following intersection would experience a project-related effect due to the increase in delay caused by the addition of project traffic:

- #6 – Rubidoux Blvd at Market St/20th St
- #8 – Rubidoux Blvd at 24th St
- #9 – Market St at Hall Ave
- #12 – Rubidoux Blvd at 26th St
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd
- #33 – Riverview Dr at Mission Blvd
- #34 – Rubidoux Blvd at Mission Blvd

Recommended Improvements are presented in the Recommended Improvement section of this report.



NOT TO SCALE

<p>1. Ceder Ave at Slover Ave</p> <p>124/85 1041/808 124/140</p> <p>154/113 157/244 62/65</p> <p>210/209 160/417 101/176</p> <p>179/186 937/624 41/95</p>	<p>2. Cedar Ave at Santa Ana Ave</p> <p>61/75 1022/937 55/55</p> <p>42/31 111/129 50/46</p> <p>63/87 99/113 82/135</p> <p>120/174 896/895 28/57</p>	<p>3. Cedar Ave at Jurupa Ave</p> <p>25/40 1040/1057 85/92</p> <p>143/51 91/77 55/64</p> <p>36/34 81/193 39/66</p> <p>41/85 868/966 54/103</p>	<p>4. Cedar Ave at Tarragona Dr/El Rvino Rd</p> <p>3/21 1140/1117 108/142</p> <p>57/177 1/4 112/185</p> <p>13/10 2/4 22/8</p> <p>3/4 664/970 127/96</p>	<p>5. Rubidoux Blvd at Agua Mansa Commerce Park Driveway</p> <p>1286/1281</p> <p>1020/1208</p>	<p>6. Rubidoux Blvd at Market St/20th St</p> <p>60/87 91/221 85/174</p> <p>128/45 776/815 499/545</p> <p>180/92 392/551 381/452</p> <p>404/490 220/95 354/413</p>	<p>7. Agua Mansa Rd at Market St</p> <p>285/402 1/0 134/196</p> <p>199/245 659/555 21/0</p> <p>334/526 625/646 43/1</p> <p>10/0 1/3 1/4</p>	<p>8. Rubidoux Blvd at 24th St</p> <p>0/4 1074/1299 117/120</p> <p>31/68 3/7 9/35</p> <p>0/1 3/19 4/11</p> <p>8/21 920/1021 19/53</p>	<p>9. Market St at Hall Ave</p> <p>726/770 28/29</p> <p>627/633 31/35</p> <p>26/33 9/21</p>	<p>10. Hall Ave at 24th Street</p> <p>7/13 34/56 14/6</p> <p>4/1 11/32 23/71</p> <p>127/165 4/23</p> <p>23/64 18/47 35/98</p>	<p>11. Market St at 24th St/Via Cerro</p> <p>1/1 702/937 23/23</p> <p>12/4 35/33 135/238</p> <p>12/34 8/42 125/256</p> <p>37/64 862/742 171/114</p>	<p>12. Rubidoux Blvd at 26th St</p> <p>0/1 943/1217 29/22</p> <p>16/30 2/1 25/88</p> <p>2/2 0/2 10/7</p> <p>9/2 1056/1061 100/88</p>	<p>13. Hall Ave at 26th St</p> <p>3/4 123/123 1/13</p> <p>7/3 0/1 10/6</p> <p>3/22 0/2 116/57</p> <p>29/105 94/152 9/9</p>	<p>14. Rubidoux Blvd at 28th St</p> <p>20/40 1120/1433 37/45</p> <p>11/21 16/42 58/70</p> <p>37/48 12/27 113/112</p> <p>66/128 1098/1083 62/75</p>	<p>15. Hall Ave at 28th St</p> <p>51/63 204/123</p> <p>1/0</p> <p>32/47 1/1 46/56</p> <p>17/46 99/266 93/266</p>	<p>16. Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp</p> <p>30/31 1290/1793</p> <p>233/214 80/130 1004/1263</p> <p>48/39 271/229</p> <p>105/115 1187/1140</p>	<p>17. Rubidoux Blvd at SR-60 WB On-Ramp</p> <p>826/1023 1728/2221</p> <p>576/606 1273/1235</p>	<p>18. Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd</p> <p>1333/1990 398/255</p> <p>1054/1235 1213/936</p>	<p>19. 30th St at Frontage Rd/SR-60 EB On-Ramp</p> <p>1008/454 308/458</p>	<p>20. Market St at Rivera St</p> <p>6/0 901/1231 64/125</p> <p>78/100 292/252</p> <p>3/2 0/15 13/62</p> <p>26/6 1090/1050 349/261</p>	<p>21. Market St at SR-60 WB Ramps</p> <p>221/241 1010/1260</p> <p>1027/812 122/143</p>	<p>22. Market St at SR-60 EB Ramps</p> <p>181/184 614/950</p> <p>571/781 209/122</p>	<p>23. Rubidoux at 34th St</p> <p>54/136 1364/1882 56/198</p> <p>123/69 8/21 21/23</p> <p>141/117 35/47 21/33</p> <p>24/26 1643/1453 45/102</p>	<p>24. Wallace St at 34th St</p> <p>3/10 50/55 13/31</p> <p>9/30 63/59 6/6</p> <p>4/17 56/201 64/103</p> <p>52/30 64/70 3/6</p>
---	---	--	---	--	---	---	---	---	---	---	--	--	--	--	--	---	--	--	--	---	--	---	---

Note: Volumes reflect PCE adjustments.

FIGURE 19A
OPENING YEAR 2026 (PHASE 2) PLUS CUMULATIVE
PROJECTS PLUS PROJECT TRAFFIC VOLUMES - OPTION 2

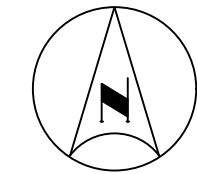
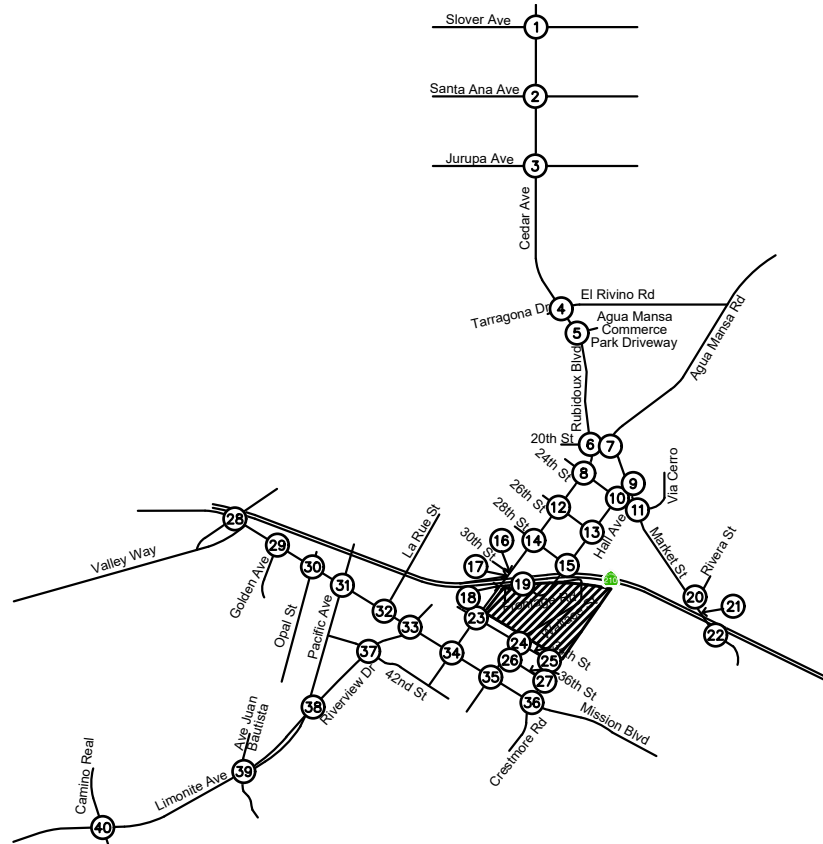
LEGEND:

= Project Site

= Study Intersection

= AM/PM Volumes





NOT TO SCALE

			<p>25. Crestmore Rd at 34th St</p> <p>← 38/65</p> <p>← 2/3</p> <p>← 2/1</p> <p>→ 3/1</p> <p>→ 44/195</p> <p>→ 44/66</p> <p>→ 22/27</p> <p>→ 3/3</p>	<p>26. Wallace St at 36th St</p> <p>← 102/86</p> <p>← 6/12</p> <p>→ 8/3</p> <p>→ 10/7</p> <p>→ 109/115</p> <p>→ 9/7</p>	<p>27. Crestmore Rd at 36th St</p> <p>← 81/126</p> <p>→ 1/0</p> <p>→ 4/6</p> <p>→ 84/165</p>	<p>28. Valley Way at Mission Blvd</p> <p>← 342/323</p> <p>← 352/414</p> <p>← 478/485</p> <p>→ 693/610</p> <p>→ 303/281</p> <p>→ 64/53</p> <p>→ 392/776</p> <p>→ 535/974</p> <p>→ 23/37</p> <p>→ 17/21</p> <p>→ 423/501</p> <p>→ 35/67</p>		
			<p>29. Golden Ave at Mission Blvd</p> <p>← 3/35</p> <p>← 0/112</p> <p>→ 4/249</p> <p>→ 1168/1551</p> <p>→ 38/32</p> <p>→ 18/69</p> <p>→ 1134/897</p> <p>→ 90/1</p> <p>→ 253/0</p> <p>→ 0/2</p> <p>→ 59/19</p>	<p>30. Opal St at Mission Blvd</p> <p>← 150/13</p> <p>← 36/11</p> <p>→ 102/13</p> <p>→ 55/12</p> <p>→ 959/925</p> <p>→ 258/177</p> <p>→ 90/42</p> <p>→ 989/1444</p> <p>→ 91/99</p> <p>→ 112/69</p> <p>→ 17/10</p> <p>→ 177/104</p>	<p>31. Pacific Ave at Mission Blvd</p> <p>← 131/88</p> <p>← 66/43</p> <p>→ 85/88</p> <p>→ 58/111</p> <p>→ 1011/950</p> <p>→ 73/145</p> <p>→ 130/155</p> <p>→ 981/1603</p> <p>→ 56/160</p> <p>→ 172/67</p> <p>→ 53/28</p> <p>→ 77/55</p>	<p>32. La Rue St at Mission Blvd</p> <p>← 117/51</p> <p>← 160/85</p> <p>→ 201/77</p> <p>→ 1096/1061</p> <p>→ 266/120</p> <p>→ 1130/1410</p>	<p>33. Riverview Dr at Mission Blvd</p> <p>← 32/30</p> <p>← 56/56</p> <p>→ 29/53</p> <p>→ 29/69</p> <p>→ 895/960</p> <p>→ 499/689</p> <p>→ 41/70</p> <p>→ 827/1501</p> <p>→ 228/240</p> <p>→ 307/234</p> <p>→ 72/68</p> <p>→ 588/490</p>	
<p>34. Rubidoux Blvd at Mission Blvd</p> <p>← 715/889</p> <p>← 140/202</p> <p>← 283/382</p> <p>→ 282/297</p> <p>→ 611/775</p> <p>→ 116/207</p> <p>→ 801/783</p> <p>→ 612/1272</p> <p>→ 11/26</p> <p>→ 25/46</p> <p>→ 193/137</p> <p>→ 46/65</p>	<p>35. Wallace St at Mission Blvd</p> <p>← 107/79</p> <p>← 8/28</p> <p>→ 18/59</p> <p>→ 44/73</p> <p>→ 720/929</p> <p>→ 37/78</p> <p>→ 100/139</p> <p>→ 776/1603</p> <p>→ 51/134</p> <p>→ 67/116</p> <p>→ 7/13</p> <p>→ 26/89</p>	<p>36. Crestmore Rd at Mission Blvd</p> <p>← 20/11</p> <p>← 14/48</p> <p>→ 78/213</p> <p>→ 28/81</p> <p>→ 673/981</p> <p>→ 162/391</p> <p>→ 8/9</p> <p>→ 706/1616</p> <p>→ 44/135</p> <p>→ 71/88</p> <p>→ 21/26</p> <p>→ 334/385</p>	<p>37. Riverview Dr at 42nd St</p> <p>← 31/53</p> <p>← 736/850</p> <p>→ 55/67</p> <p>→ 157/28</p> <p>→ 61/81</p> <p>→ 123/108</p> <p>→ 24/32</p> <p>→ 66/118</p> <p>→ 17/47</p> <p>→ 13/33</p> <p>→ 872/788</p> <p>→ 127/136</p>	<p>38. Riverview Dr/Limonite Ave at Pacific Ave</p> <p>← 122/62</p> <p>← 665/936</p> <p>→ 86/73</p> <p>→ 117/141</p> <p>→ 184/212</p> <p>→ 859/1091</p>	<p>39. Limonite Ave at Avenue San Juan Bautista</p> <p>← 63/106</p> <p>← 874/1232</p> <p>→ 71/134</p> <p>→ 114/117</p> <p>→ 17/12</p> <p>→ 18/20</p> <p>→ 61/71</p> <p>→ 6/8</p> <p>→ 10/4</p> <p>→ 23/22</p> <p>→ 789/985</p> <p>→ 13/24</p>	<p>40. Camino Real at Limonite Ave</p> <p>← 254/244</p> <p>← 83/136</p> <p>→ 80/68</p> <p>→ 75/55</p> <p>→ 1020/954</p> <p>→ 108/152</p> <p>→ 160/263</p> <p>→ 890/1320</p> <p>→ 76/127</p> <p>→ 125/88</p> <p>→ 74/112</p> <p>→ 140/199</p>	<p>41. Hall Ave at "A" St</p> <p>← 163/88</p> <p>→ 53/169</p> <p>→ 609/372</p>	
<p>42. SR-60 SB On-Ramp at "A" St</p> <p>→ 49/206</p> <p>← 53/169</p> <p>→ 330/220</p> <p>→ 442/240</p>	<p>43. Rubidoux Blvd at "B" St</p> <p>← 47/180</p> <p>← 19/71</p> <p>→ 21/89</p> <p>→ 19/71</p> <p>→ 211/109</p> <p>→ 119/70</p> <p>→ 113/62</p> <p>→ 34/107</p> <p>→ 39/25</p> <p>→ 39/25</p>	<p>44. Wallace St at "B" St</p> <p>← 886/1272</p> <p>← 458/817</p> <p>→ 479/748</p> <p>→ 186/332</p> <p>→ 1187/998</p> <p>→ 136/175</p>	<p>45. Rubidoux Blvd at Project Driveway</p> <p>← 232/397</p> <p>← 17/28</p> <p>→ 21/28</p> <p>→ 403/628</p> <p>→ 3/2</p> <p>→ 225/319</p> <p>→ 303/631</p> <p>→ 66/42</p> <p>→ 30/55</p> <p>→ 2/3</p>	<p>46. Industrial Driveway at "B" St</p> <p>← 31/121</p> <p>← 1/3</p> <p>→ 11/33</p> <p>→ 18/12</p> <p>→ 310/142</p> <p>→ 57/35</p> <p>→ 86/315</p> <p>→ 9/15</p> <p>→ 32/49</p> <p>→ 7/4</p>	<p>47. "A" St at "B" St</p> <p>← 16/8</p> <p>← 43/157</p> <p>→ 92/39</p> <p>→ 26/91</p> <p>→ 8/16</p> <p>→ 4/2</p> <p>→ 78/49</p>			

LEGEND:

- = Project Site
- = Study Intersection
- xx/yy = AM/PM Volumes

Note: Volumes reflect PCE adjustments.

FIGURE 19B
OPENING YEAR 2026 (PHASE 2) PLUS CUMULATIVE
PROJECTS PLUS PROJECT TRAFFIC VOLUMES - OPTION 2

TABLE 13
SUMMARY OF INTERSECTION OPERATION
OPENING YEAR 2026 CUMULATIVE PLUS PROJECT OPTION 2 (HALL AVE/26TH ST)

Int. #	Intersection	Traffic Control	AM Peak Hour						PM Peak Hour					
			Without Project		With Project		Change in Delay	Project-Related Effect?	Without Project		With Project		Change in Delay	Project-Related Effect?
			Delay	LOS	Delay	LOS			Delay	LOS	Delay	LOS		
1	Cedar Ave at Slover Ave	S	29.0	C	30.1	C	1.1	No	29.9	C	32.3	C	2.4	No
2	Cedar Ave at Santa Ana Ave	S	14.4	B	15.1	B	0.7	No	16.5	B	17.7	B	1.2	No
3	Cedar Ave at Jurupa Ave	S	14.9	B	15.9	B	1.0	No	15.1	B	16.6	B	1.5	No
4	Cedar Ave at Tarragona Dr/El Rivino Rd	S	11.4	B	11.4	B	0.0	No	16.1	B	17.4	B	1.3	No
5	Rubidoux Blvd at Agua Mansa Commerce Park Dwy	S	0.7	A	0.7	A	0.0	No	0.7	A	1.9	A	1.2	No
6	Rubidoux Blvd at Market St/20th St	S	95.7	F	102.0	F	6.3	Yes	131.8	F	138.4	F	6.6	Yes
7	Agua Mansa Rd at Market St	S	24.5	C	26.8	C	2.3	No	28.9	C	34.7	C	5.8	No
8	Rubidoux Blvd at 24th St	U	159.9	F	293.0	F	133.1	Yes	200.0	F	200.0	F	0.0	No
9	Market St at Hall Ave	U	41.3	E	45.6	E	4.3	No	37.7	E	44.4	E	6.7	Yes
10	Hall Ave at 24th St	U	8.0	A	8.2	A	0.2	No	9.5	A	10.2	B	0.7	No
11	Market St at 24th St/Via Cerro	S	33.8	C	34.6	C	0.8	No	69.8	E	70.3	E	0.5	No
12	Rubidoux Blvd at 26th St	U	62.2	F	154.0	F	91.8	Yes	83.6	F	782.4	F	698.8	Yes
13	Hall Ave at 26th St	U	10.1	B	13.2	B	3.1	No	11.7	B	17.2	C	5.5	No
14	Rubidoux Blvd at 28th St	S	10.4	B	11.9	B	1.5	No	12.6	B	14.8	B	2.2	No
15	Hall Ave at 28th St	U	7.5	A	8.6	A	1.1	No	8.1	A	10.2	B	2.1	No
16	Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp	S	166.4	F	315.3	F	148.9	Yes	75.5	E	441.5	F	366.0	Yes
17	Rubidoux Blvd at SR-60 WB On-Ramp	U	547.5	F	1729.2	F	1181.7	Yes	1004.7	F	5008.7	F	4004.0	Yes
18	Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd	S	242.3	F	358.1	F	115.8	Yes	68.1	E	329.9	F	261.8	Yes
19	Frontage Rd at SR-60 EB On-Ramp	U	16.5	C	--	--	--	--	10.9	B	0.0	--	--	--
20	Market St at Rivera St	S	15.2	B	15.4	B	0.2	No	19.2	B	19.5	B	0.3	No
21	Market St at SR-60 WB Ramps	S	11.7	B	12.2	B	0.5	No	23.9	C	25.7	C	1.8	No
22	Market St at SR-60 EB Ramps	S	30.5	C	31.3	C	0.8	No	42.6	D	51.5	D	8.9	No
23	Rubidoux Blvd at 34th St	S	15.5	B	18.0	B	2.5	No	18.0	B	22.2	C	4.2	No
24	Wallace St at 34th St	U	8.0	A	18.0	C	10.0	No	9.4	A	9.9	A	0.5	No
25	Crestmore Rd at 34th St	U	8.9	A	8.9	A	0.0	No	9.7	A	11.1	B	1.4	No

TABLE 13
SUMMARY OF INTERSECTION OPERATION
OPENING YEAR 2026 CUMULATIVE PLUS PROJECT OPTION 2 (HALL AVE/26TH ST)

Int. #	Intersection	Traffic Control	AM Peak Hour						PM Peak Hour					
			Without Project		With Project		Change in Delay	Project-Related Effect?	Without Project		With Project		Change in Delay	Project-Related Effect?
			Delay	LOS	Delay	LOS			Delay	LOS	Delay	LOS		
26	Wallace St at 36th St	U	9.9	A	9.9	A	0.0	No	9.5	A	9.9	A	0.4	No
27	Crestmore Rd at 36th St	U	9.1	A	9.5	A	0.4	No	8.6	A	9.0	A	0.4	No
28	Valley Way at Mission Blvd	S	33.2	C	33.7	C	0.5	No	39.8	D	41.0	D	1.2	No
29	Golden Ave at Mission Blvd	S	13.9	B	14.5	B	0.6	No	14.0	B	15.7	B	1.7	No
30	Opal St at Mission Blvd	S	23.9	C	26.7	C	2.8	No	15.2	B	16.6	B	1.4	No
31	Pacific Ave at Mission Blvd	S	27.6	C	29.8	C	2.2	No	23.2	C	24.8	C	1.6	No
32	La Rue St at Mission Blvd	S	20.8	C	21.6	C	0.8	No	9.8	A	10.3	B	0.5	No
33	Riverview Dr at Mission Blvd	S	75.8	F	112.1	F	36.3	Yes	120.3	F	176.7	F	56.4	Yes
34	Rubidoux Blvd at Mission Blvd	S	79.1	E	117.8	F	38.7	Yes	96.8	F	167.8	F	71.0	Yes
35	Wallace St at Mission Blvd	S	11.6	B	11.8	B	0.2	No	21.0	C	21.4	C	0.4	No
36	Crestmore Rd at Mission Blvd	S	22.1	C	22.1	C	0.0	No	65.5	E	67.0	E	1.5	No
37	Riverview Dr at 42nd St	S	20.7	C	22.7	C	2.0	No	21.8	C	23.1	C	1.3	No
38	Riverview Dr/Limonite Ave at Pacific Ave	S	11.8	B	11.8	B	0.0	No	12.1	B	12.1	B	0.0	No
39	Limonite Ave at Avenue San Juan Bautista	S	23.0	C	24.2	C	1.2	No	25.1	C	25.1	C	0.0	No
40	Camino Real at Limonite Ave	S	40.7	D	41.7	D	1.0	No	49.9	D	51.9	D	2.0	No
41	Hall Ave at "A" St	U	--	--	17.1	C	--	--	--	--	11.7	B	--	--
42	SR-60 SB On-Ramp at "A" St	U	--	--	8.1	A	--	--	--	--	8.7	A	--	--
43	"A" St at "B" St	U	--	--	9.4	A	--	--	--	--	11.2	B	--	--
44	Rubidoux Blvd at "B" St	S	--	--	20.1	C	--	--	--	--	23.1	C	--	--
45	Project Dwy at "B" St	S	--	--	13.7	B	--	--	--	--	15.1	B	--	--
46	Wallace St at "B" St	U	--	--	3.7	A	--	--	--	--	3.9	A	--	--
47	"B" St at Industrial Dwy	U	--	--	11.3	B	--	--	--	--	11.7	B	--	--

Notes:
- Bold values indicate intersections operating at an unacceptable Level of Service
- Intersection operation is based on average intersection delay for signalized intersections.
- Delay values for unsignalized intersections represent the average vehicle delay on the worst (highest delay) intersection approach.

Opening Year 2026 (Phase 2) Cumulative Plus Project – Option 3

Phase 2 of the project includes the option to construct a SR-60 EB On-Ramp within the project site. This on-ramp is anticipated to serve most of the project traffic and about 30% non-project related traffic heading east on the SR-60. The project SR-60 EB On-Ramp was added to the network and the resulting Opening Year 2026 (Phase 2) Cumulative Plus Project – Option 3 peak hour turning movement volumes are shown on Figure 20.

Peak Hour Operating Conditions – Option 3

Intersection Level of Service analysis was conducted for the morning and evening peak hours for the Opening Year 2026 (Phase 2) Cumulative Plus Project – Option 3 conditions. The results of the intersection analysis are shown on Table 14. Copies of intersection analysis worksheets for this scenario are provided in *Appendix C*.

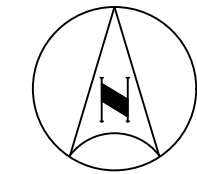
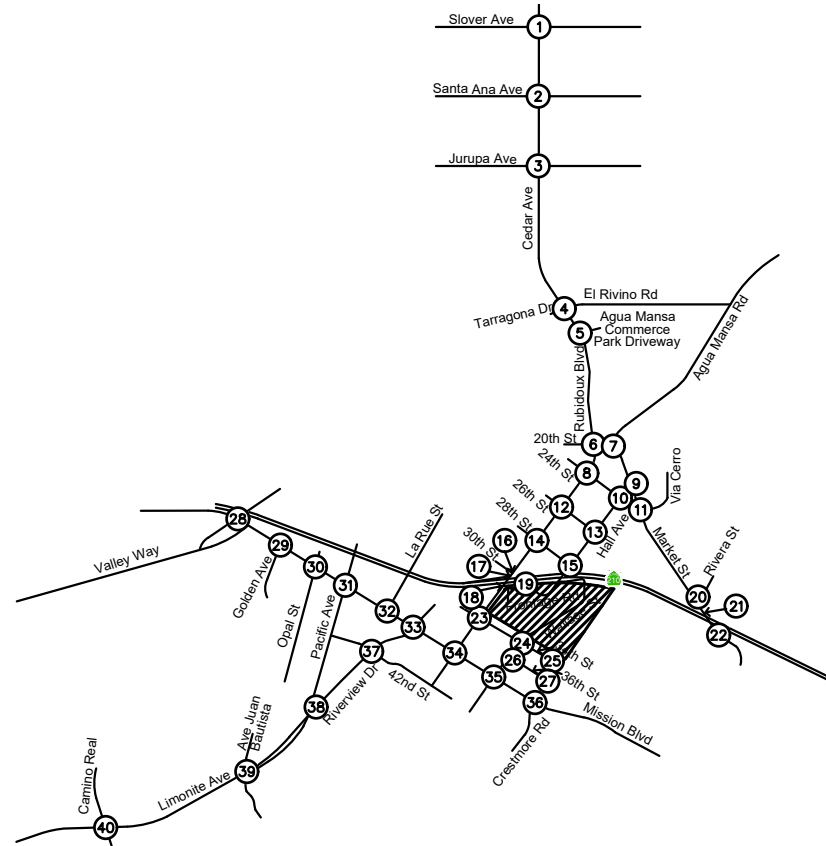
Review of this table indicates that, with the addition of the project on-ramp, the following study intersections would operate at an unacceptable Level of Service:

- #6 – Rubidoux Blvd at Market St/20th St: AM – LOS F, PM – LOS F
- #8 – Rubidoux Blvd at 24th St: AM – LOS F, PM – LOS F
- #9 – Market St at Hall Ave: AM – LOS F, PM – LOS F
- #11 – Market St at 24th St/Via Cerro: PM – LOS E
- #12 – Rubidoux Blvd at 26th St: AM – LOS F, PM – LOS F
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp: AM – LOS F, PM – LOS F
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp: AM – LOS F, PM – LOS F
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd: AM – LOS F, PM – LOS F
- #33 – Riverview Dr at Mission Blvd: AM – LOS F, PM – LOS F
- #34 – Rubidoux Blvd at Mission Blvd: AM – LOS F, PM – LOS F
- #36 – Crestmore Rd at Mission Blvd: PM – LOS E

Based on the significance thresholds presented earlier in this report, the following intersection would experience a project-related effect due to the increase in delay caused by the addition of project traffic:

- #6 – Rubidoux Blvd at Market St/20th St
- #8 – Rubidoux Blvd at 24th St
- #9 – Market St at Hall Ave
- #12 – Rubidoux Blvd at 26th St
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd
- #33 – Riverview Dr at Mission Blvd
- #34 – Rubidoux Blvd at Mission Blvd

Recommended Improvements are presented in the Recommended Improvement section of this report.



NOT TO SCALE

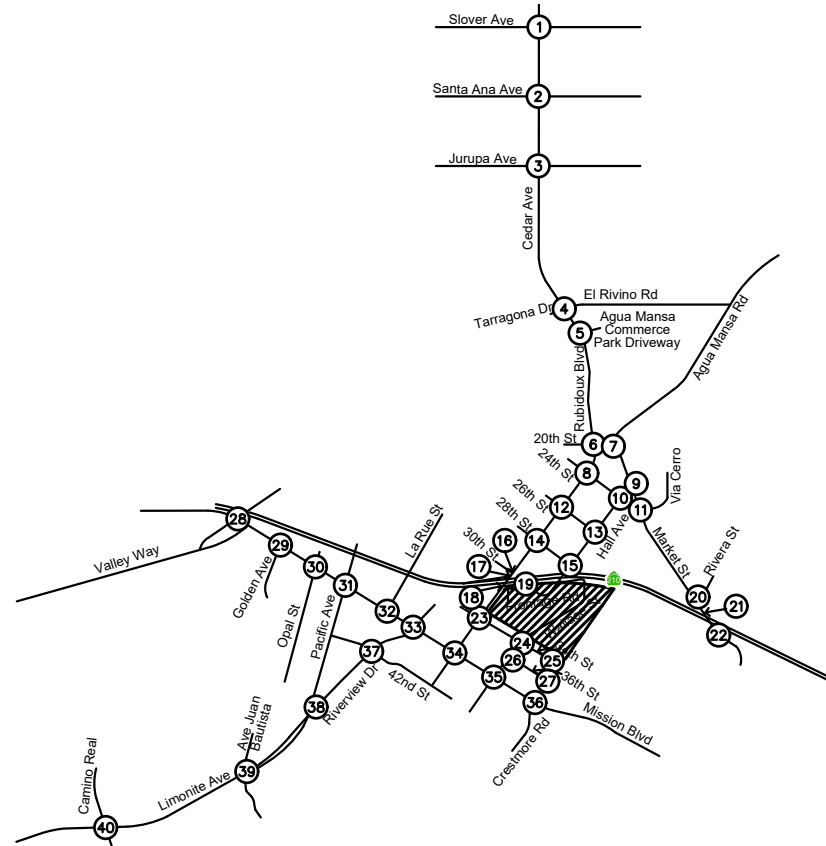
		1. Cedar Ave at Slover Ave		2. Cedar Ave at Santa Ana Ave		3. Cedar Ave at Jurupa Ave		4. Cedar Ave at Tarragona Dr/El Rivino Rd			
		5. Rubidoux Blvd at Agua Mansa Commerce Park Driveway		6. Rubidoux Blvd at Market St/20th St		7. Agua Mansa Rd at Market St		8. Rubidoux Blvd at 24th St		9. Market St at Hall Ave	
10. Hall Ave at 24th Street		11. Market St at 24th St/Via Cerro		12. Rubidoux Blvd at 26th St		13. Hall Ave at 26th St		14. Rubidoux Blvd at 28th St		15. Hall Ave at 28th St	
16. Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp		17. Rubidoux Blvd at SR-60 WB On-Ramp		18. Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd		19. 30th St at Frontage Rd/SR-60 EB On-Ramp		20. Market St at Rivera St		21. Market St at SR-60 WB Ramps	
22. Market St at SR-60 EB Ramps		23. Rubidoux at 34th St		24. Wallace St at 34th St							

LEGEND:

- = Project Site
- = Study Intersection
- xx/yy = AM/PM Volumes

Note: Volumes reflect PCE adjustments.

FIGURE 20A
OPENING YEAR 2026 (PHASE 2) PLUS CUMULATIVE
PROJECTS PLUS PROJECT TRAFFIC VOLUMES - OPTION 3



NOT TO SCALE

		25. Crestmore Rd at 34th St		26. Wallace St at 36th St		27. Crestmore Rd at 36th St		28. Valley Way at Mission Blvd			
		<p>← 38/65</p> <p>← 2/3</p> <p>← 2/1</p> <p>3/1 →</p> <p>44/195 →</p> <p>44/66 →</p> <p>22/27 →</p> <p>3/3 →</p>		<p>← 102/86</p> <p>← 6/12</p> <p>8/3 →</p> <p>10/7 →</p> <p>109/115 →</p> <p>9/7 →</p>		<p>← 81/126</p> <p>1/0 →</p> <p>4/6 →</p> <p>84/165 →</p>		<p>← 342/323</p> <p>← 352/414</p> <p>← 478/485</p> <p>← 693/610</p> <p>← 303/281</p> <p>← 64/53</p> <p>392/776 →</p> <p>535/974 →</p> <p>23/37 →</p> <p>17/21 →</p> <p>423/501 →</p> <p>35/67 →</p>			
		29. Golden Ave at Mission Blvd		30. Opal St at Mission Blvd		31. Pacific Ave at Mission Blvd		32. La Rue St at Mission Blvd		33. Riverview Dr at Mission Blvd	
		<p>← 3/35</p> <p>← 0/112</p> <p>4/249 →</p> <p>1168/1551 →</p> <p>38/32 →</p> <p>18/69 →</p> <p>1134/897 →</p> <p>90/1 →</p> <p>253/0 →</p> <p>0/2 →</p> <p>59/19 →</p>		<p>← 150/13</p> <p>← 36/11</p> <p>102/13 →</p> <p>55/12 →</p> <p>959/925 →</p> <p>258/177 →</p> <p>90/42 →</p> <p>989/1444 →</p> <p>91/99 →</p> <p>112/69 →</p> <p>17/10 →</p> <p>177/104 →</p>		<p>← 131/88</p> <p>← 66/43</p> <p>85/88 →</p> <p>58/111 →</p> <p>1011/950 →</p> <p>73/145 →</p> <p>130/155 →</p> <p>981/1603 →</p> <p>56/160 →</p> <p>172/67 →</p> <p>53/28 →</p> <p>77/55 →</p>		<p>← 117/51</p> <p>160/85 →</p> <p>201/77 →</p> <p>1096/1061 →</p> <p>266/120 →</p> <p>1130/1410 →</p>		<p>← 32/30</p> <p>← 56/56</p> <p>29/53 →</p> <p>29/69 →</p> <p>895/960 →</p> <p>499/689 →</p> <p>41/70 →</p> <p>827/1501 →</p> <p>228/240 →</p> <p>307/234 →</p> <p>72/68 →</p> <p>588/490 →</p>	
34. Rubidoux Blvd at Mission Blvd		35. Wallace St at Mission Blvd		36. Crestmore Rd at Mission Blvd		37. Riverview Dr at 42nd St		38. Riverview Dr/Limonite Ave at Pacific Ave		39. Limonite Ave at Avenue San Juan Bautista	
<p>← 715/889</p> <p>← 140/202</p> <p>← 283/382</p> <p>282/297 →</p> <p>611/775 →</p> <p>116/207 →</p> <p>801/783 →</p> <p>612/1272 →</p> <p>11/26 →</p> <p>25/46 →</p> <p>193/137 →</p> <p>46/65 →</p>		<p>← 107/79</p> <p>← 8/28</p> <p>18/59 →</p> <p>44/73 →</p> <p>720/929 →</p> <p>37/78 →</p> <p>100/139 →</p> <p>776/1603 →</p> <p>51/134 →</p> <p>67/116 →</p> <p>7/13 →</p> <p>26/89 →</p>		<p>← 20/11</p> <p>← 14/48</p> <p>78/213 →</p> <p>28/81 →</p> <p>673/981 →</p> <p>162/391 →</p> <p>8/9 →</p> <p>706/1616 →</p> <p>44/135 →</p> <p>71/88 →</p> <p>21/26 →</p> <p>334/385 →</p>		<p>← 31/53</p> <p>← 736/850</p> <p>55/67 →</p> <p>157/28 →</p> <p>61/81 →</p> <p>123/108 →</p> <p>24/32 →</p> <p>66/118 →</p> <p>17/47 →</p> <p>13/33 →</p> <p>872/788 →</p> <p>127/136 →</p>		<p>← 122/62</p> <p>← 665/936</p> <p>86/73 →</p> <p>117/141 →</p> <p>184/212 →</p> <p>859/1091 →</p>		<p>← 63/106</p> <p>← 874/1232</p> <p>71/134 →</p> <p>114/117 →</p> <p>17/12 →</p> <p>18/20 →</p> <p>61/71 →</p> <p>6/8 →</p> <p>10/4 →</p> <p>23/22 →</p> <p>789/985 →</p> <p>13/24 →</p>	
40. Camino Real at Limonite Ave		41. Hall Ave at "A" St		42. SR-60 SB On-Ramp at "A" St		43. Rubidoux Blvd at "B" St		44. Wallace St at "B" St		45. Rubidoux Blvd at Project Driveway	
<p>← 254/244</p> <p>← 83/136</p> <p>80/68 →</p> <p>75/55 →</p> <p>1020/954 →</p> <p>108/152 →</p> <p>160/263 →</p> <p>890/1320 →</p> <p>76/127 →</p> <p>125/88 →</p> <p>74/112 →</p> <p>140/199 →</p>		<p>← 163/88</p> <p>53/169 →</p> <p>609/383 →</p>		<p>← 49/206</p> <p>← 53/169</p> <p>330/231 →</p> <p>442/240 →</p>		<p>← 47/180</p> <p>← 19/71</p> <p>← 21/89</p> <p>19/71 →</p> <p>34/107 →</p> <p>39/25 →</p> <p>39/25 →</p>		<p>← 886/1272</p> <p>← 458/817</p> <p>479/748 →</p> <p>186/332 →</p> <p>1187/998 →</p> <p>136/175 →</p>		<p>← 232/0</p> <p>← 17/28</p> <p>← 21/28</p> <p>← 403/628</p> <p>3/2 →</p> <p>225/319 →</p> <p>303/631 →</p> <p>66/42 →</p> <p>30/55 →</p> <p>2/3 →</p>	
46. Industrial Driveway at "B" St		47. "A" St at "B" St		48. Industrial Driveway at "B" St		49. "A" St at "B" St		50. Industrial Driveway at "B" St		51. "A" St at "B" St	
<p>← 31/121</p> <p>← 1/3</p> <p>← 11/33</p> <p>18/12 →</p> <p>310/142 →</p> <p>57/35 →</p> <p>86/315 →</p> <p>9/15 →</p> <p>32/49 →</p> <p>7/4 →</p>		<p>← 16/8</p> <p>← 43/157</p> <p>92/39 →</p> <p>26/91 →</p> <p>8/16 →</p> <p>4/2 →</p> <p>78/49 →</p>									

LEGEND:

- = Project Site
- = Study Intersection
- xx/yy = AM/PM Volumes

Note: Volumes reflect PCE adjustments.

FIGURE 20B
OPENING YEAR 2026 (PHASE 2) PLUS CUMULATIVE
PROJECTS PLUS PROJECT TRAFFIC VOLUMES - OPTION 3



TABLE 14
SUMMARY OF INTERSECTION OPERATION
OPENING YEAR 2026 CUMULATIVE PLUS PROJECT OPTION 3 (HALL AVE/MARKET ST/RUBIDOUX BLVD)

Int. #	Intersection	Traffic Control	AM Peak Hour						PM Peak Hour					
			Without Project		With Project		Change in Delay	Project-Related Effect?	Without Project		With Project		Change in Delay	Project-Related Effect?
			Delay	LOS	Delay	LOS			Delay	LOS	Delay	LOS		
1	Cedar Ave at Slover Ave	S	29.0	C	30.1	C	1.1	No	29.9	C	32.3	C	2.4	No
2	Cedar Ave at Santa Ana Ave	S	14.4	B	15.1	B	0.7	No	16.5	B	17.7	B	1.2	No
3	Cedar Ave at Jurupa Ave	S	14.9	B	15.9	B	1.0	No	15.1	B	16.6	B	1.5	No
4	Cedar Ave at Tarragona Dr/El Rivino Rd	S	11.4	B	11.4	B	0.0	No	16.1	B	17.4	B	1.3	No
5	Rubidoux Blvd at Agua Mansa Commerce Park Dwy	S	0.7	A	0.7	A	0.0	No	0.7	A	0.8	A	0.1	No
6	Rubidoux Blvd at Market St/20th St	S	95.7	F	104.6	F	8.9	Yes	131.8	F	149.2	F	17.4	Yes
7	Agua Mansa Rd at Market St	S	24.5	C	28.6	C	4.1	No	28.9	C	39.3	D	10.4	No
8	Rubidoux Blvd at 24th St	U	159.9	F	295.4	F	135.5	Yes	200.0	F	200.0	F	0.0	No
9	Market St at Hall Ave	U	41.3	E	98.6	F	57.3	Yes	37.7	E	198.5	F	160.8	Yes
10	Hall Ave at 24th St	U	8.0	A	8.6	A	0.6	No	9.5	A	11.7	B	2.2	No
11	Market St at 24th St/Via Cerro	S	33.8	C	37.9	D	4.1	No	69.8	E	72.3	E	2.5	No
12	Rubidoux Blvd at 26th St	U	62.2	F	93.6	F	31.4	Yes	83.6	F	164.8	F	81.2	Yes
13	Hall Ave at 26th St	U	10.1	B	12.4	B	2.3	No	11.7	B	14.4	B	2.7	No
14	Rubidoux Blvd at 28th St	S	10.4	B	11.8	B	1.4	No	12.6	B	14.6	B	2.0	No
15	Hall Ave at 28th St	U	7.5	A	8.6	A	1.1	No	8.1	A	10.2	B	2.1	No
16	Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp	S	166.4	F	315.3	F	148.9	Yes	75.5	E	441.5	F	366.0	Yes
17	Rubidoux Blvd at SR-60 WB On-Ramp	U	547.5	F	1709.2	F	1161.7	Yes	1004.7	F	4835.4	F	3830.7	Yes
18	Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd	S	242.3	F	358.1	F	115.8	Yes	68.1	E	329.9	F	261.8	Yes
19	Frontage Rd at SR-60 EB On-Ramp	U	16.5	C	--	--	--	--	10.9	B	--	--	--	--
20	Market St at Rivera St	S	15.2	B	15.4	B	0.2	No	19.2	B	19.5	B	0.3	No
21	Market St at SR-60 WB Ramps	S	11.7	B	12.2	B	0.5	No	23.9	C	25.6	C	1.7	No
22	Market St at SR-60 EB Ramps	S	30.5	C	31.3	C	0.8	No	42.6	D	51.5	D	8.9	No
23	Rubidoux Blvd at 34th St	S	15.5	B	18.0	B	2.5	No	18.0	B	22.2	C	4.2	No
24	Wallace St at 34th St	U	8.0	A	8.2	A	0.2	No	9.4	A	9.9	A	0.5	No
25	Crestmore Rd at 34th St	U	8.9	A	9.6	A	0.7	No	9.7	A	11.1	B	1.4	No

TABLE 14
SUMMARY OF INTERSECTION OPERATION
OPENING YEAR 2026 CUMULATIVE PLUS PROJECT OPTION 3 (HALL AVE/MARKET ST/RUBIDOUX BLVD)

Int. #	Intersection	Traffic Control	AM Peak Hour						PM Peak Hour					
			Without Project		With Project		Change in Delay	Project-Related Effect?	Without Project		With Project		Change in Delay	Project-Related Effect?
			Delay	LOS	Delay	LOS			Delay	LOS	Delay	LOS		
26	Wallace St at 36th St	U	9.9	A	10.4	B	0.5	No	9.5	A	9.9	A	0.4	No
27	Crestmore Rd at 36th St	U	9.1	A	9.5	A	0.4	No	8.6	A	9.0	A	0.4	No
28	Valley Way at Mission Blvd	S	33.2	C	33.7	C	0.5	No	39.8	D	41.0	D	1.2	No
29	Golden Ave at Mission Blvd	S	13.9	B	14.5	B	0.6	No	14.0	B	15.7	B	1.7	No
30	Opal St at Mission Blvd	S	23.9	C	26.7	C	2.8	No	15.2	B	16.6	B	1.4	No
31	Pacific Ave at Mission Blvd	S	27.6	C	29.8	C	2.2	No	23.2	C	24.8	C	1.6	No
32	La Rue St at Mission Blvd	S	20.8	C	21.6	C	0.8	No	9.8	A	10.3	B	0.5	No
33	Riverview Dr at Mission Blvd	S	75.8	F	112.1	F	36.3	Yes	120.3	F	176.7	F	56.4	Yes
34	Rubidoux Blvd at Mission Blvd	S	79.1	E	117.8	F	38.7	Yes	96.8	F	167.8	F	71.0	Yes
35	Wallace St at Mission Blvd	S	11.6	B	11.8	B	0.2	No	21.0	C	21.4	C	0.4	No
36	Crestmore Rd at Mission Blvd	S	22.1	C	22.1	C	0.0	No	65.5	E	67.0	E	1.5	No
37	Riverview Dr at 42nd St	S	20.7	C	22.7	C	2.0	No	21.8	C	23.1	C	1.3	No
38	Riverview Dr/Limonite Ave at Pacific Ave	S	11.8	B	11.8	B	0.0	No	12.1	B	12.1	B	0.0	No
39	Limonite Ave at Avenue San Juan Bautista	S	23.0	C	24.2	C	1.2	No	25.1	C	25.1	C	0.0	No
40	Camino Real at Limonite Ave	S	40.7	D	41.7	D	1.0	No	49.9	D	51.9	D	2.0	No
41	Hall Ave at "A" St	U	--	--	17.1	C	--	--	--	--	11.8	B	--	--
42	SR-60 SB On-Ramp at "A" St	U	--	--	8.1	A	--	--	--	--	8.8	A	--	--
43	"A" St at "B" St	U	--	--	9.4	A	--	--	--	--	11.2	B	--	--
44	Rubidoux Blvd at "B" St	S	--	--	20.1	C	--	--	--	--	23.1	C	--	--
45	Project Dwy at "B" St	S	--	--	20.6	C	--	--	--	--	31.1	C	--	--
46	Wallace St at "B" St	U	--	--	3.7	A	--	--	--	--	3.9	A	--	--
47	"B" St at Industrial Dwy	U	--	--	11.3	B	--	--	--	--	11.7	B	--	--

Notes:
- Bold values indicate intersections operating at an unacceptable Level of Service
- Intersection operation is based on average intersection delay for signalized intersections.
- Delay values for unsignalized intersections represent the average vehicle delay on the worst (highest delay) intersection approach.

HORIZON YEAR CONDITIONS

Horizon Year 2045

To develop the Horizon Year 2045 intersection turning movement forecasts, the Riverside County Transportation Model (RIVCOM) Base Year 2018 and Horizon Year 2045 future traffic projections were used. The raw forecasts obtained from the model output were post-processed by determining the annual growth between the base model year and the future model year, and applying the resulting growth to existing count volumes. The B-Turns analysis worksheets, developed by the Federal Highway Administration (FHWA), translate the grown volumes into peak hour turning movements. As a conservative approach, if a turning movement volume produced by this model was less than Opening Year 2026 volumes for that movement, manual adjustments were made to assure that all forecast Horizon Year volumes would be equal to or greater than the Opening Year 2026 turning movement volumes. Both SBTAM Model plots and B-Turns analysis worksheets are provided in *Appendix F*. The resulting traffic volumes for Horizon Year 2045 condition are shown on Figure 21.

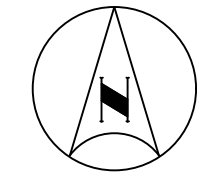
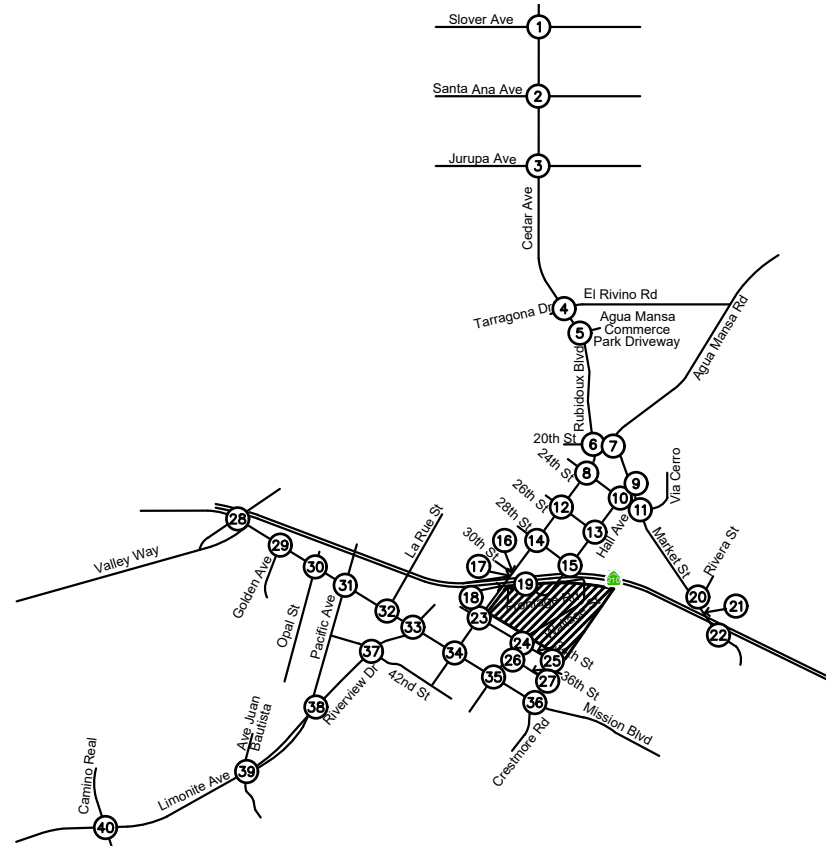
The Horizon Year Lane geometries for the study intersections and roadways are assumed to be the same as Existing conditions, previously shown on Figure 3.

Peak Hour Operating Conditions

Intersection Level of Service analysis was conducted for the morning and evening peak hours for the Horizon Year 2045 conditions. The results of the intersection analysis are shown on Table 15. Copies of intersection analysis worksheets for this scenario are provided in *Appendix C*.

Review of this table indicates that under Horizon Year 2045 conditions, the following study intersections would operate at an unacceptable Level of Service:

- #1 – Cedar Ave at Slover Ave: AM – LOS E
- #6 – Rubidoux Blvd at Market St/20th St: AM – LOS F, PM – LOS F
- #7 – Agua Mansa Rd at Market St: PM – LOS E
- #8 – Rubidoux Blvd at 24th St: AM – LOS F, PM – LOS F
- #9 – Market St at Hall Ave: AM – LOS F, PM – LOS F
- #11 – Market St at 24th St/Via Cerro: AM – LOS E, PM – LOS F
- #12 – Rubidoux Blvd at 26th St: AM – LOS F, PM – LOS F
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp: AM – LOS F, PM – LOS F
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp: AM – LOS F, PM – LOS F
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd: AM – LOS F, PM – LOS E
- #33 – Riverview Dr at Mission Blvd: AM – LOS F, PM – LOS F
- #34 – Rubidoux Blvd at Mission Blvd: AM – LOS F, PM – LOS F
- #36 – Crestmore Rd at Mission Blvd: PM – LOS F
- #40 – Camino real at Limonite Avenue: PM – LOS E



NOT TO SCALE

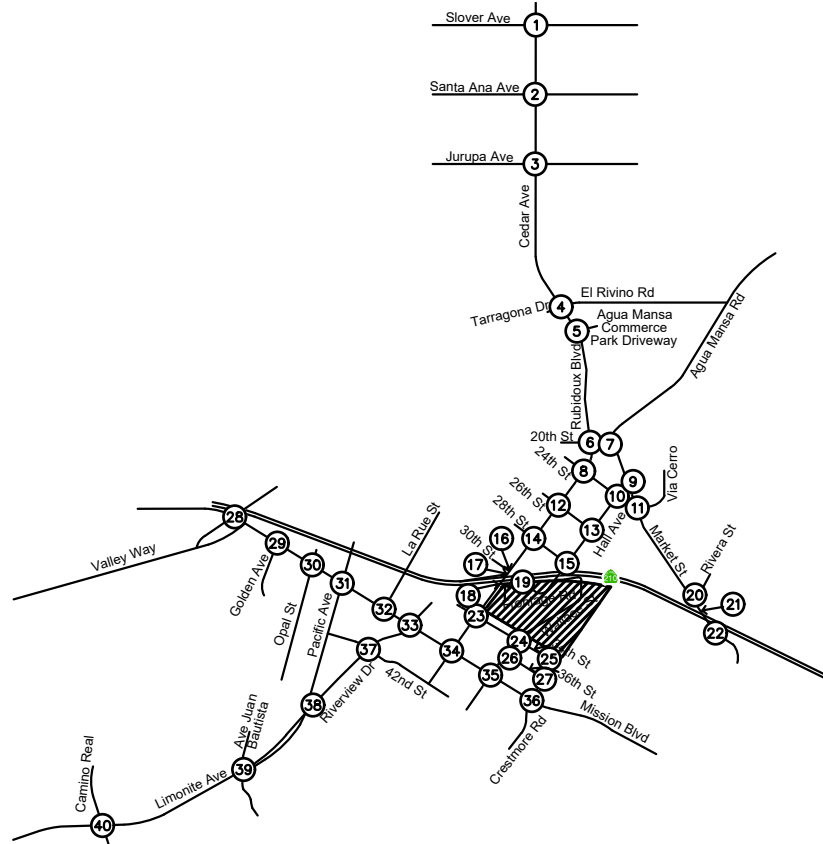
1. Cedar Ave at Slover Ave		2. Cedar Ave at Santa Ana Ave		3. Cedar Ave at Jurupa Ave		4. Cedar Ave at Tarragona Dr/El Rivino Rd	
5. Rubidoux Blvd at Agua Mansa Commerce Park Driveway		6. Rubidoux Blvd at Market St/20th St		7. Agua Mansa Rd at Market St		8. Rubidoux Blvd at 24th St	
9. Market St at Hall Ave		10. Hall Ave at 24th Street		11. Market St at 24th St/Via Cerro		12. Rubidoux Blvd at 26th St	
13. Hall Ave at 26th St		14. Rubidoux Blvd at 28th St		15. Hall Ave at 28th St		16. Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp	
17. Rubidoux Blvd at SR-60 WB On-Ramp		18. Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd		19. 30th St at Frontage Rd/SR-60 EB On-Ramp		20. Market St at Rivera St	
21. Market St at SR-60 WB Ramps		22. Market St at SR-60 EB Ramps		23. Rubidoux at 34th St		24. Wallace St at 34th St	

LEGEND:

- = Project Site
- = Study Intersection
- xx/yy = AM/PM Volumes

Note: Volumes reflect PCE adjustments.

FIGURE 21A
HORIZON YEAR 2045
TRAFFIC VOLUMES



NOT TO SCALE

		25. Crestmore Rd at 34th St		26. Wallace St at 36th St		27. Crestmore Rd at 36th St		28. Valley Way at Mission Blvd			
		29. Golden Ave at Mission Blvd		30. Opal St at Mission Blvd		31. Pacific Ave at Mission Blvd		32. La Rue St at Mission Blvd		33. Riverview Dr at Mission Blvd	
34. Rubidoux Blvd at Mission Blvd		35. Wallace St at Mission Blvd		36. Crestmore Rd at Mission Blvd		37. Riverview Dr at 42nd St		38. Riverview Dr/Limonite Ave at Pacific Ave		39. Limonite Ave at Avenue San Juan Bautista	
40. Camino Real at Limonite Ave		41. Hall Ave at "A" St									
										FUTURE INTERSECTION	
42. SR-60 SB On-Ramp at "A" St		43. Rubidoux Blvd at "B" St		44. Wallace St at "B" St		45. Rubidoux Blvd at Project Driveway		46. Industrial Driveway at "B" St		47. "A" St at "B" St	
FUTURE INTERSECTION		FUTURE INTERSECTION		FUTURE INTERSECTION		FUTURE INTERSECTION		FUTURE INTERSECTION		FUTURE INTERSECTION	

LEGEND:

- = Project Site
- = Study Intersection
- = AM/PM Volumes

Note: Volumes reflect PCE adjustments.

FIGURE 21B
HORIZON YEAR 2045
TRAFFIC VOLUMES

TABLE 15
SUMMARY OF INTERSECTION OPERATION
HORIZON YEAR 2045

Int. #	Intersection	Traffic Control	AM Peak Hour		PM Peak Hour	
			Delay	LOS	Delay	LOS
1	Cedar Ave at Slover Ave	S	79.1	E	46.1	D
2	Cedar Ave at Santa Ana Ave	S	15.6	B	16.8	B
3	Cedar Ave at Jurupa Ave	S	14.0	B	14.8	B
4	Cedar Ave at Tarragona Dr/El Rivino Rd	S	13.1	B	27.1	C
5	Rubidoux Blvd at Agua Mansa Commerce Park Dwy	S	9.1	A	13.7	B
6	Rubidoux Blvd at Market St/20th St	S	294.7	F	204.5	F
7	Agua Mansa Rd at Market St	S	37.6	D	72.9	E
8	Rubidoux Blvd at 24th St	U	200.0	F	200.0	F
9	Market St at Hall Ave	U	8685.2	F	726.0	F
10	Hall Ave at 24th St	U	14.7	B	20.2	C
11	Market St at 24th St/Via Cerro	S	68.0	E	83.0	F
12	Rubidoux Blvd at 26th St	U	266.6	F	990.2	F
13	Hall Ave at 26th St	U	11.7	B	12.6	B
14	Rubidoux Blvd at 28th St	S	10.6	B	14.6	B
15	Hall Ave at 28th St	U	10.4	B	18.2	C
16	Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp	S	199.1	F	97.7	F
17	Rubidoux Blvd at SR-60 WB On-Ramp	U	502.8	F	899.1	F
18	Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd	S	235.0	F	70.5	E
19	Frontage Rd at SR-60 EB On-Ramp	U	22.0	C	12.1	B
20	Market St at Rivera St	S	15.4	B	19.5	B
21	Market St at SR-60 WB Ramps	S	14.5	B	38.3	D
22	Market St at SR-60 EB Ramps	S	30.2	C	41.1	D
23	Rubidoux Blvd at 34th St	S	16.8	B	22.3	C
24	Wallace St at 34th St	U	8.0	A	10.3	B
25	Crestmore Rd at 34th St	U	9.1	A	9.5	A
26	Wallace St at 36th St	U	9.7	A	10.3	B
27	Crestmore Rd at 36th St	U	9.4	A	8.6	A
28	Valley Way at Mission Blvd	S	33.4	C	39.1	D
29	Golden Ave at Mission Blvd	S	15.1	B	16.1	B
30	Opal St at Mission Blvd	S	20.5	C	15.2	B
31	Pacific Ave at Mission Blvd	S	26.2	C	44.4	D
32	La Rue St at Mission Blvd	S	20.6	C	9.4	A

TABLE 15
SUMMARY OF INTERSECTION OPERATION
HORIZON YEAR 2045

Int. #	Intersection	Traffic Control	AM Peak Hour		PM Peak Hour	
			Delay	LOS	Delay	LOS
33	Riverview Dr at Mission Blvd	S	93.4	F	128.5	F
34	Rubidoux Blvd at Mission Blvd	S	112.3	F	134.8	F
35	Wallace St at Mission Blvd	S	12.2	B	20.4	C
36	Crestmore Rd at Mission Blvd	S	50.2	D	152.7	F
37	Riverview Dr at 42nd St	S	24.2	C	21.8	C
38	Riverview Dr/Limonite Ave at Pacific Ave	S	14.5	B	16.2	B
39	Limonite Ave at Avenue San Juan Bautista	S	23.8	C	25.7	C
40	Camino Real at Limonite Ave	S	42.8	D	56.3	E

Notes:

- Bold values indicate intersections operating at an unacceptable Level of Service
- Intersection operation is based on average intersection delay for signalized intersections.
- Delay values for unsignalized intersections represent the average vehicle delay on the worst (highest delay) intersection approach.

Horizon Year 2045 No Ramp Plus Project – Option 1

Option 1 project-related traffic was added to the Horizon Year 2045 traffic volumes. Horizon Year 2045 No Ramp Plus Project peak hour turning movement volumes at study intersections are shown on Figure 22.

Peak Hour Operating Conditions – Option 1

Intersection Level of Service analysis was conducted for the morning and evening peak hours for the Horizon Year 2045 No Ramp Plus Project – Option 1 conditions. The results of the intersection analysis are shown on Table 16. Copies of intersection analysis worksheets for this scenario are provided in *Appendix C*.

Review of this table indicates that, with the addition of project traffic, the following study intersections would operate at an unacceptable Level of Service:

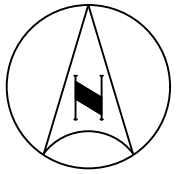
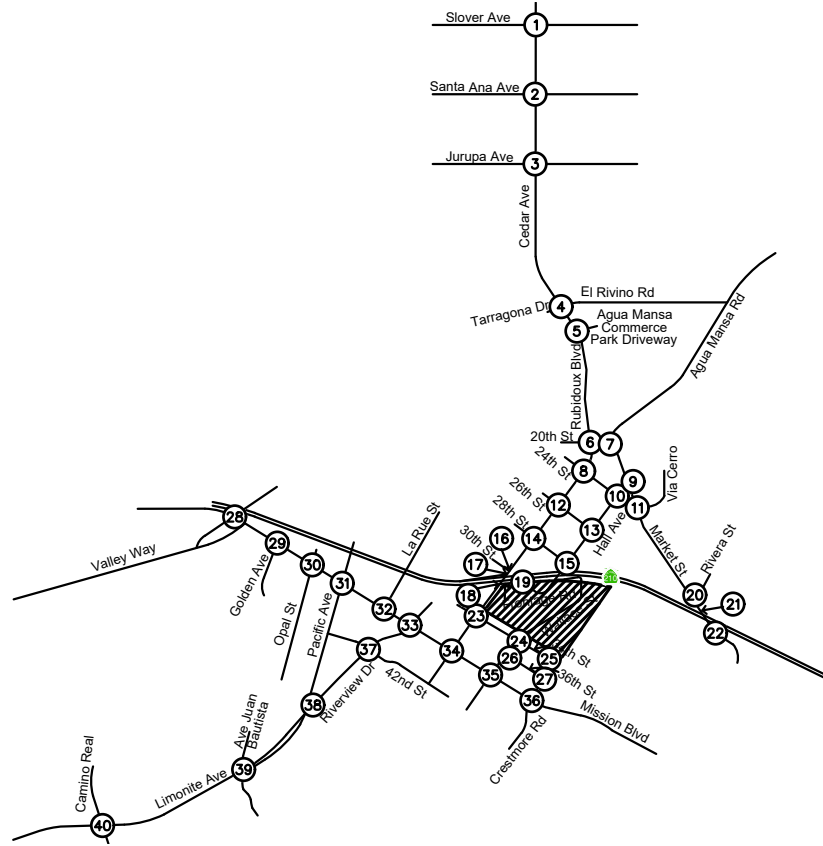
- #1 – Cedar Ave at Slover Ave: AM – LOS F
- #6 – Rubidoux Blvd at Market St/20th St: AM – LOS F, PM – LOS F
- #7 – Agua Mansa Rd at Market St: PM – LOS F
- #8 – Rubidoux Blvd at 24th St: AM – LOS F, PM – LOS F
- #9 – Market St at Hall Ave: AM – LOS F, PM – LOS F
- #11 – Market St at 24th St/Via Cerro: AM – LOS E, PM – LOS F
- #12 – Rubidoux Blvd at 26th St: AM – LOS F, PM – LOS F
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp: AM – LOS F, PM – LOS F
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp: AM – LOS F, PM – LOS F
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd: AM – LOS F, PM – LOS F
- #19 – Frontage Rd at SR-60 EB On-Ramp: AM – LOS F
- #33 – Riverview Dr at Mission Blvd: AM – LOS F, PM – LOS F
- #34 – Rubidoux Blvd at Mission Blvd: AM – LOS F, PM – LOS F
- #36 – Crestmore Rd at Mission Blvd: PM – LOS F
- #40 – Camino real at Limonite Avenue: PM – LOS E

Based on the significance thresholds presented earlier in this report, the following intersection would experience a project-related effect due to the increase in delay caused by the addition of project traffic:

- #1 – Cedar Ave at Slover Ave
- #6 – Rubidoux Blvd at Market St/20th St
- #7 – Agua Mansa Rd at Market St
- #9 – Market St at Hall Ave
- #11 – Market St at 24th St/Via Cerro
- #12 – Rubidoux Blvd at 26th St
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp

- #17 – Rubidoux Blvd at SR-60 WB On-Ramp
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd
- #19 – Frontage Rd at SR-60 EB On-Ramp
- #33 – Riverview Dr at Mission Blvd
- #34 – Rubidoux Blvd at Mission Blvd
- #40 – Camino Real at Limonite Ave

Recommended Improvements are presented in the Recommended Improvement section of this report.



NOT TO SCALE

1. Cedar Ave at Slover Ave 		2. Cedar Ave at Santa Ana Ave 		3. Cedar Ave at Jurupa Ave 		4. Cedar Ave at Tarragona Dr/El Rivino Rd 									
5. Rubidoux Blvd at Agua Mansa Commerce Park Driveway 		6. Rubidoux Blvd at Market St/20th St 		7. Agua Mansa Rd at Market St 		8. Rubidoux Blvd at 24th St 		9. Market St at Hall Ave 							
10. Hall Ave at 24th Street 		11. Market St at 24th St/Via Cerro 		12. Rubidoux Blvd at 26th St 		13. Hall Ave at 26th St 		14. Rubidoux Blvd at 28th St 		15. Hall Ave at 28th St 		16. Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp 		17. Rubidoux Blvd at SR-60 WB On-Ramp 	
18. Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd 		19. 30th St at Frontage Rd/SR-60 EB On-Ramp 		20. Market St at Rivera St 		21. Market St at SR-60 WB Ramps 		22. Market St at SR-60 EB Ramps 		23. Rubidoux at 34th St 		24. Wallace St at 34th St 			

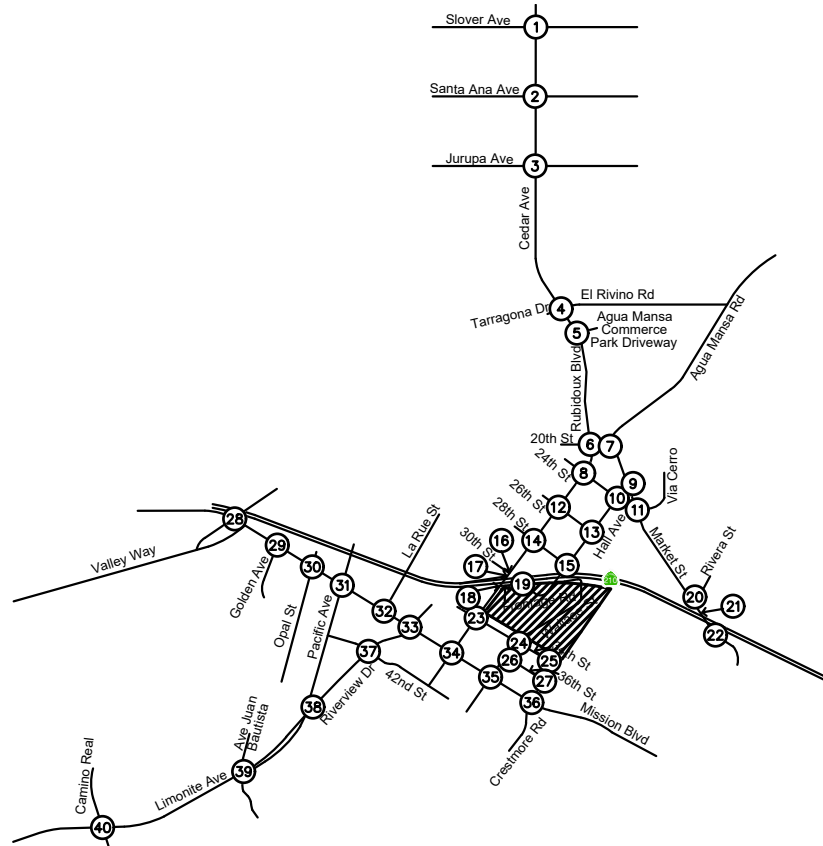
LEGEND:

- = Project Site
- = Study Intersection
- xx/yy = AM/PM Volumes

Note: Volumes reflect PCE adjustments.

FIGURE 22A
HORIZON YEAR 2045 NO RAMP
PLUS PROJECT TRAFFIC VOLUMES - OPTION 1





NOT TO SCALE

25. Crestmore Rd at 34th St		26. Wallace St at 36th St		27. Crestmore Rd at 36th St		28. Valley Way at Mission Blvd									
<p>← 38/38</p> <p>80/195 →</p> <p>3/1 →</p> <p>60/66 →</p> <p>22/22 →</p> <p>2/3 →</p> <p>2/1 →</p> <p>3/3 →</p>		<p>← 102/139</p> <p>122/165 →</p> <p>9/7 →</p> <p>8/3 →</p> <p>10/7 →</p>		<p>← 117/99</p> <p>1/0 →</p> <p>4/6 →</p> <p>98/160 →</p>		<p>← 342/323</p> <p>← 352/414</p> <p>← 478/480</p> <p>← 693/601</p> <p>← 303/266</p> <p>← 81/53</p> <p>392/776 →</p> <p>535/962 →</p> <p>46/62 →</p> <p>18/33 →</p> <p>423/501 →</p> <p>35/67 →</p>									
29. Golden Ave at Mission Blvd		30. Opal St at Mission Blvd		31. Pacific Ave at Mission Blvd		32. La Rue St at Mission Blvd		33. Riverview Dr at Mission Blvd							
<p>← 3/45</p> <p>18/71 →</p> <p>1134/880 →</p> <p>94/4 →</p> <p>0/112 →</p> <p>4/249 →</p> <p>1168/1527 →</p> <p>38/43 →</p> <p>287/0 →</p> <p>0/17 →</p> <p>59/22 →</p>		<p>← 150/13</p> <p>90/42 →</p> <p>989/1423 →</p> <p>91/99 →</p> <p>150/13 →</p> <p>36/11 →</p> <p>104/16 →</p> <p>58/14 →</p> <p>959/890 →</p> <p>258/172 →</p> <p>112/69 →</p> <p>17/10 →</p> <p>177/103 →</p>		<p>← 135/125</p> <p>163/173 →</p> <p>981/1581 →</p> <p>56/160 →</p> <p>179/163 →</p> <p>101/177 →</p> <p>156/125 →</p> <p>1011/910 →</p> <p>185/293 →</p> <p>172/67 →</p> <p>201/116 →</p> <p>216/182 →</p>		<p>← 117/51</p> <p>266/120 →</p> <p>1130/1381 →</p> <p>160/85 →</p> <p>201/77 →</p> <p>1096/1009 →</p>		<p>← 50/44</p> <p>68/92 →</p> <p>827/1472 →</p> <p>228/240 →</p> <p>56/56 →</p> <p>29/53 →</p> <p>29/69 →</p> <p>900/908 →</p> <p>527/713 →</p> <p>307/234 →</p> <p>72/68 →</p> <p>675/528 →</p>							
34. Rubidoux Blvd at Mission Blvd		35. Wallace St at Mission Blvd		36. Crestmore Rd at Mission Blvd		37. Riverview Dr at 42nd St		38. Riverview Dr/Limonite Ave at Pacific Ave		39. Limonite Ave at Avenue San Juan Bautista		40. Camino Real at Limonite Ave		41. Hall Ave at "A" St	
<p>← 743/861</p> <p>← 168/226</p> <p>← 298/423</p> <p>← 326/323</p> <p>← 611/775</p> <p>← 116/207</p> <p>888/792 →</p> <p>612/1272 →</p> <p>15/36 →</p> <p>61/48 →</p> <p>299/153 →</p> <p>51/65 →</p>		<p>← 107/79</p> <p>← 8/44</p> <p>← 18/76</p> <p>← 44/64</p> <p>← 1279/1255</p> <p>← 37/83</p> <p>100/142 →</p> <p>1305/1410 →</p> <p>51/134 →</p> <p>67/116 →</p> <p>8/23 →</p> <p>26/100 →</p>		<p>← 20/11</p> <p>← 24/44</p> <p>← 106/190</p> <p>← 36/74</p> <p>← 717/995</p> <p>← 350/621</p> <p>8/9 →</p> <p>721/1652 →</p> <p>44/139 →</p> <p>71/86 →</p> <p>34/28 →</p> <p>732/593 →</p>		<p>← 31/46</p> <p>← 764/881</p> <p>← 55/67</p> <p>← 157/28</p> <p>← 78/81</p> <p>← 192/142</p> <p>24/32 →</p> <p>66/135 →</p> <p>17/47 →</p> <p>13/33 →</p> <p>959/826 →</p> <p>166/169 →</p>		<p>← 162/78</p> <p>← 693/967</p> <p>147/95 →</p> <p>189/216 →</p> <p>234/299 →</p> <p>946/1129 →</p>		<p>← 65/93</p> <p>← 902/1285</p> <p>← 88/159</p> <p>← 164/139</p> <p>← 17/12</p> <p>← 18/20</p> <p>62/72 →</p> <p>6/8 →</p> <p>10/4 →</p> <p>23/22 →</p> <p>876/1023 →</p> <p>13/24 →</p>		<p>← 254/244</p> <p>← 83/184</p> <p>← 80/79</p> <p>← 92/63</p> <p>← 1048/1007</p> <p>← 119/210</p> <p>170/263 →</p> <p>977/1358 →</p> <p>76/145 →</p> <p>188/88 →</p> <p>135/125 →</p> <p>233/232 →</p>		<p>← 53/53</p> <p>← 58/58</p> <p>← 60/60</p> <p>389/389 →</p>	
42. SR-60 SB On-Ramp at "A" St		43. Rubidoux Blvd at "B" St		44. Wallace St at "B" St		45. Rubidoux Blvd at Project Driveway		46. Industrial Driveway at "B" St		47. "A" St at "B" St					
<p>← 118/118</p> <p>442/442 →</p>		<p>← 55/55</p> <p>← 11/11</p> <p>← 42/42</p> <p>← 11/11</p> <p>211/211 →</p> <p>119/119 →</p> <p>113/113 →</p> <p>22/22 →</p> <p>39/39 →</p> <p>39/39 →</p>		<p>← 1465/2255</p> <p>← 458/488</p> <p>← 463/486</p> <p>← 186/220</p> <p>2084/1659 →</p> <p>122/156 →</p>		<p>← 0/289</p> <p>← 17/17</p> <p>← 21/21</p> <p>← 387/387</p> <p>← 3/3</p> <p>225/275 →</p> <p>303/303 →</p> <p>66/66 →</p> <p>30/30 →</p> <p>2/2 →</p>		<p>← 15/15</p> <p>← 1/1</p> <p>← 11/11</p> <p>← 18/18</p> <p>← 310/310</p> <p>57/57 →</p> <p>86/86 →</p> <p>9/9 →</p> <p>32/32 →</p> <p>7/7 →</p>		<p>← 16/16</p> <p>← 27/27</p> <p>← 92/92</p> <p>← 14/14</p> <p>8/8 →</p> <p>4/4 →</p> <p>78/78 →</p>					

LEGEND:

- = Project Site
- = Study Intersection
- = AM/PM Volumes

Note: Volumes reflect PCE adjustments.

FIGURE 22B
HORIZON YEAR 2045 NO RAMP
PLUS PROJECT TRAFFIC VOLUMES - OPTION 1



TABLE 16
SUMMARY OF INTERSECTION OPERATION
HORIZON YEAR 2045 NO RAMP PLUS PROJECT OPTION 1 (RUBIDOUX BLVD)

Int. #	Intersection	Traffic Control	AM Peak Hour						PM Peak Hour					
			Without Project		With Project		Change in Delay	Project-Related Effect?	Without Project		With Project		Change in Delay	Project-Related Effect?
			Delay	LOS	Delay	LOS			Delay	LOS	Delay	LOS		
1	Cedar Ave at Slover Ave	S	79.1	E	83.3	F	4.2	Yes	46.1	D	48.3	D	2.2	No
2	Cedar Ave at Santa Ana Ave	S	15.6	B	16.3	B	0.7	No	16.8	B	17.6	B	0.8	No
3	Cedar Ave at Jurupa Ave	S	14.0	B	14.8	B	0.8	No	14.8	B	15.6	B	0.8	No
4	Cedar Ave at Tarragona Dr/El Rivino Rd	S	13.1	B	13.6	B	0.5	No	27.1	C	28.9	C	1.8	No
5	Rubidoux Blvd at Agua Mansa Commerce Park Dwy	S	9.1	A	9.1	A	0.0	No	13.7	B	14.1	B	0.4	No
6	Rubidoux Blvd at Market St/20th St	S	294.7	F	296.7	F	2.0	Yes	204.5	F	209.7	F	5.2	Yes
7	Agua Mansa Rd at Market St	S	37.6	D	48.8	D	11.2	No	72.9	E	81.9	F	9.0	Yes
8	Rubidoux Blvd at 24th St	U	200.0	F	200.0	F	0.0	No	200.0	F	200.0	F	0.0	No
9	Market St at Hall Ave	U	8685.2	F	10000.0	F	1314.8	Yes	726.0	F	921.0	F	195.0	Yes
10	Hall Ave at 24th St	U	14.7	B	16.4	C	1.7	No	20.2	C	25.0	C	4.8	No
11	Market St at 24th St/Via Cerro	S	68.0	E	69.2	E	1.2	No	83.0	F	91.4	F	8.4	Yes
12	Rubidoux Blvd at 26th St	U	266.6	F	463.9	F	197.3	Yes	990.2	F	1708.1	F	717.9	Yes
13	Hall Ave at 26th St	U	11.7	B	12.8	B	1.1	No	12.6	B	13.8	B	1.2	No
14	Rubidoux Blvd at 28th St	S	10.6	B	12.3	B	1.7	No	14.6	B	17.8	B	3.2	No
15	Hall Ave at 28th St	U	10.4	B	11.3	B	0.9	No	18.2	C	24.4	C	6.2	No
16	Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp	S	199.1	F	373.7	F	174.6	Yes	97.7	F	225.7	F	128.0	Yes
17	Rubidoux Blvd at SR-60 WB On-Ramp	U	502.8	F	1870.0	F	1367.2	Yes	899.1	F	3186.1	F	2287.0	Yes
18	Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd	S	235.0	F	364.9	F	129.9	Yes	70.5	E	214.4	F	143.9	Yes
19	Frontage Rd at SR-60 EB On-Ramp	U	22.0	C	153.9	F	131.9	Yes	12.1	B	27.4	D	15.3	No
20	Market St at Rivera St	S	15.4	B	15.6	B	0.2	No	19.5	B	19.8	B	0.3	No
21	Market St at SR-60 WB Ramps	S	14.5	B	15.5	B	1.0	No	38.3	D	41.0	D	2.7	No
22	Market St at SR-60 EB Ramps	S	30.2	C	32.5	C	2.3	No	41.1	D	48.0	D	6.9	No
23	Rubidoux Blvd at 34th St	S	16.8	B	19.6	B	2.8	No	22.3	C	25.4	C	3.1	No
24	Wallace St at 34th St	U	8.0	A	8.3	A	0.3	No	10.3	B	10.7	B	0.4	No
25	Crestmore Rd at 34th St	U	9.1	A	9.8	A	0.7	No	9.5	A	10.6	B	1.1	No

TABLE 16
SUMMARY OF INTERSECTION OPERATION
HORIZON YEAR 2045 NO RAMP PLUS PROJECT OPTION 1 (RUBIDOUX BLVD)

Int. #	Intersection	Traffic Control	AM Peak Hour						PM Peak Hour					
			Without Project		With Project		Change in Delay	Project-Related Effect?	Without Project		With Project		Change in Delay	Project-Related Effect?
			Delay	LOS	Delay	LOS			Delay	LOS	Delay	LOS		
26	Wallace St at 36th St	U	9.7	A	10.0	A	0.3	No	10.3	B	10.7	B	0.4	No
27	Crestmore Rd at 36th St	U	9.4	A	9.7	A	0.3	No	8.6	A	8.8	A	0.2	No
28	Valley Way at Mission Blvd	S	33.4	C	33.8	C	0.4	No	39.1	D	40.1	D	1.0	No
29	Golden Ave at Mission Blvd	S	15.1	B	15.7	B	0.6	No	16.1	B	17.6	B	1.5	No
30	Opal St at Mission Blvd	S	20.5	C	21.8	C	1.3	No	15.2	B	16.2	B	1.0	No
31	Pacific Ave at Mission Blvd	S	26.2	C	27.0	C	0.8	No	44.4	D	46.9	D	2.5	No
32	La Rue St at Mission Blvd	S	20.6	C	21.4	C	0.8	No	9.4	A	9.6	A	0.2	No
33	Riverview Dr at Mission Blvd	S	93.4	F	131.9	F	38.5	Yes	128.5	F	177.3	F	48.8	Yes
34	Rubidoux Blvd at Mission Blvd	S	112.3	F	156.3	F	44.0	Yes	134.8	F	193.7	F	58.9	Yes
35	Wallace St at Mission Blvd	S	12.2	B	12.4	B	0.2	No	20.4	C	20.4	C	0.0	No
36	Crestmore Rd at Mission Blvd	S	50.2	D	50.2	D	0.0	No	152.7	F	152.7	F	0.0	No
37	Riverview Dr at 42nd St	S	24.2	C	24.9	C	0.7	No	21.8	C	24.0	C	2.2	No
38	Riverview Dr/Limonite Ave at Pacific Ave	S	14.5	B	14.5	B	0.0	No	16.2	B	16.4	B	0.2	No
39	Limonite Ave at Avenue San Juan Bautista	S	23.8	C	23.8	C	0.0	No	25.7	C	25.7	C	0.0	No
40	Camino Real at Limonite Ave	S	42.8	D	45.1	D	2.3	No	56.3	E	61.9	E	5.6	Yes
41	Hall Ave at "A" St	U	--	--	12.6	B	--	--	--	--	12.6	B	--	--
42	SR-60 SB On-Ramp at "A" St	U	--	--	0.0	A	--	--	--	--	0.0	A	--	--
43	"A" St at "B" St	U	--	--	9.6	A	--	--	--	--	9.6	A	--	--
44	Rubidoux Blvd at "B" St	S	--	--	35.4	D	--	--	--	--	26.3	C	--	--
45	Project Dwy at "B" St	S	--	--	12.1	B	--	--	--	--	20.5	C	--	--
46	Wallace St at "B" St	U	--	--	3.7	A	--	--	--	--	3.7	A	--	--
47	"B" St at Industrial Dwy	U	--	--	11.2	B	--	--	--	--	11.2	B	--	--

Notes:
- Bold values indicate intersections operating at an unacceptable Level of Service
- Intersection operation is based on average intersection delay for signalized intersections.
- Delay values for unsignalized intersections represent the average vehicle delay on the worst (highest delay) intersection approach.

Horizon Year 2045 No Ramp Plus Project – Option 2

Option 2 project-related traffic was added to the Horizon Year 2045 traffic volumes. Horizon Year 2045 No Ramp Plus Project peak hour turning movement volumes at study intersections are shown on Figure 23.

Peak Hour Operating Conditions – Option 2

Intersection Level of Service analysis was conducted for the morning and evening peak hours for the Horizon Year 2045 No Ramp Plus Project – Option 2 conditions. The results of the intersection analysis are shown on Table 17. Copies of intersection analysis worksheets for this scenario are provided in *Appendix C*.

Review of this table indicates that, with the addition of project traffic, the following study intersections would operate at an unacceptable Level of Service:

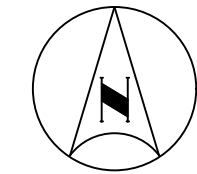
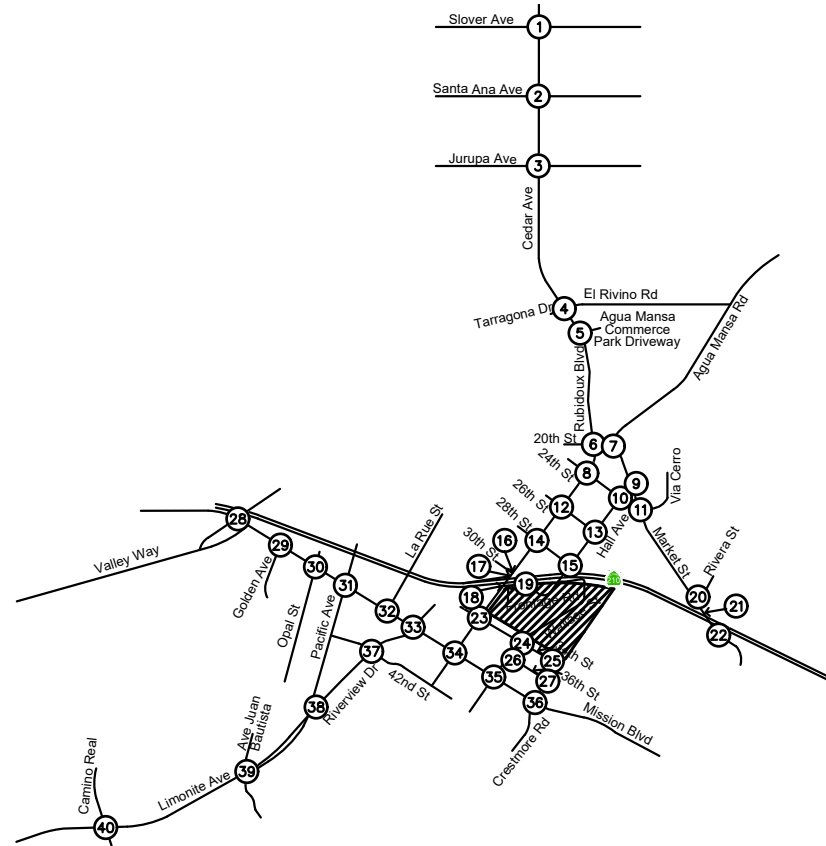
- #1 – Cedar Ave at Slover Ave: AM – LOS F
- #6 – Rubidoux Blvd at Market St/20th St: AM – LOS F, PM – LOS F
- #7 – Agua Mansa Rd at Market St: PM – LOS F
- #8 – Rubidoux Blvd at 24th St: AM – LOS F, PM – LOS F
- #9 – Market St at Hall Ave: AM – LOS F, PM – LOS F
- #10 – Hall Ave at 24th St: PM – LOS F
- #11 – Market St at 24th St/Via Cerro: AM – LOS E, PM – LOS F
- #12 – Rubidoux Blvd at 26th St: AM – LOS F, PM – LOS F
- #15 – Hall Ave at 28th St: PM – LOS F
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp: AM – LOS F, PM – LOS F
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp: AM – LOS F, PM – LOS F
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd: AM – LOS F, PM – LOS F
- #22 – Market St at SR-60 EB Ramps: PM – LOS E
- #33 – Riverview Dr at Mission Blvd: AM – LOS F, PM – LOS F
- #34 – Rubidoux Blvd at Mission Blvd: AM – LOS F, PM – LOS F
- #36 – Crestmore Rd at Mission Blvd: PM – LOS F
- #40 – Camino real at Limonite Avenue: PM – LOS E

Based on the significance thresholds presented earlier in this report, the following intersection would experience a project-related effect due to the increase in delay caused by the addition of project traffic:

- #1 – Cedar Ave at Slover Ave
- #6 – Rubidoux Blvd at Market St/20th St
- #7 – Agua Mansa Rd at Market St
- #9 – Market St at Hall Ave
- #10 – Hall Ave at 24th St

- #11 – Market St at 24th St/Via Cerro
- #12 – Rubidoux Blvd at 26th St
- #15 – Hall Ave at 28th St
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd
- #22 – Market St at SR-60 EB Ramps
- #33 – Riverview Dr at Mission Blvd
- #34 – Rubidoux Blvd at Mission Blvd
- #40 – Camino Real at Limonite Ave

Recommended Improvements are presented in the Recommended Improvement section of this report.



NOT TO SCALE

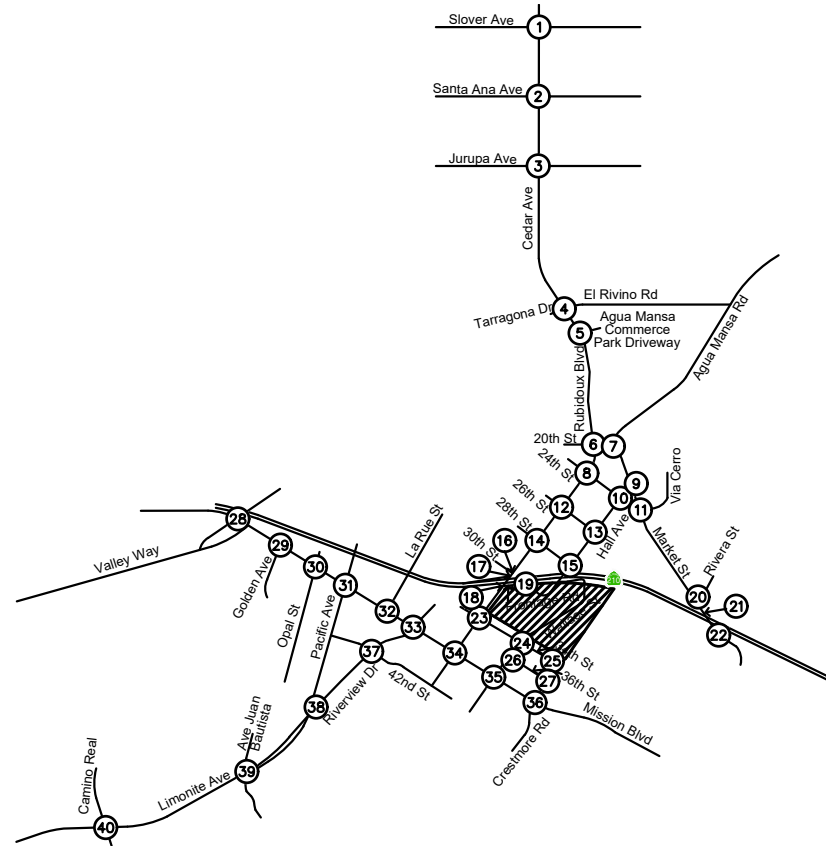
1. Cedar Ave at Slover Ave		2. Cedar Ave at Santa Ana Ave		3. Cedar Ave at Jurupa Ave		4. Cedar Ave at Tarragona Dr/El Rivino Rd									
301/200 ↓ 1050/811 ↓ 139/140 ↗ 166/113 ↖ 294/348 ↘ 65/66		61/75 ↓ 1039/944 ↓ 83/61 ↗ 113/57 ↖ 111/129 ↘ 50/46		25/40 ↓ 1057/1064 ↓ 85/92 ↗ 143/51 ↖ 91/77 ↘ 59/64		3/21 ↓ 1331/1241 ↓ 114/152 ↗ 67/177 ↖ 1/5 ↘ 143/300									
447/385 ↓ 272/508 ↓ 106/191 ↗ 264/243 ↖ 940/632 ↘ 42/98		63/87 ↓ 99/113 ↓ 82/135 ↗ 120/174 ↖ 901/912 ↘ 28/57		36/34 ↓ 81/193 ↓ 39/70 ↗ 41/85 ↖ 873/983 ↘ 81/104		13/10 ↓ 2/5 ↓ 22/9 ↗ 4/6 ↖ 745/1152 ↘ 203/178									
5. Rubidoux Blvd at Agua Mansa Commerce Park Driveway		6. Rubidoux Blvd at Market St/20th St		7. Agua Mansa Rd at Market St		8. Rubidoux Blvd at 24th St		9. Market St at Hall Ave							
1303/1337 ↓ 174/117 ↗ 58/165 ↖ 116/329		128/45 ↓ 909/1151 ↓ 1104/593 ↗ 409/700 ↖ 220/95 ↘ 380/639		285/402 ↓ 1/0 ↓ 192/361 ↗ 373/362 ↖ 832/792 ↘ 28/0		0/4 ↓ 1233/1644 ↓ 117/120 ↗ 31/68 ↖ 266/7 ↘ 9/35		1242/1016 ↓ 438/257							
6/23 ↓ 466/410 ↓ 29/49 ↗ 78/119 ↖ 67/253 ↘ 35/98		12/4 ↓ 35/33 ↓ 135/238 ↗ 37/64 ↖ 1101/869 ↘ 171/114		15/44 ↓ 0/2 ↓ 48/134 ↗ 137/51 ↖ 1405/1296 ↘ 100/68		0/1 ↓ 3/19 ↓ 8/22 ↗ 8/33 ↖ 1282/1298 ↘ 19/58		963/1024 ↓ 35/48 ↗ 46/35 ↖ 63/227							
10. Hall Ave at 24th Street		11. Market St at 24th St/Via Cerro		12. Rubidoux Blvd at 26th St		13. Hall Ave at 26th St		14. Rubidoux Blvd at 28th St		15. Hall Ave at 28th St		16. Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp		17. Rubidoux Blvd at SR-60 WB On-Ramp	
31/29 ↓ 34/56 ↓ 14/6 ↗ 5/2 ↖ 95/202 ↘ 30/95		1/1 ↓ 954/1333 ↓ 114/61 ↗ 102/117 ↖ 8/42 ↘ 125/256		43/17 ↓ 1059/1546 ↓ 29/22 ↗ 16/30 ↖ 2/1 ↘ 25/88		5/4 ↓ 186/183 ↓ 1/13 ↗ 11/6 ↖ 0/2 ↘ 49/31		20/40 ↓ 1274/1889 ↓ 37/45 ↗ 11/21 ↖ 16/42 ↘ 58/70		51/63 ↓ 265/196 ↗ 235/415 ↖ 46/0		30/31 ↓ 1290/1793 ↗ 358/328 ↖ 95/141 ↘ 1004/1263		950/1023 ↓ 1728/2221	
6/23 ↓ 466/410 ↓ 29/49 ↗ 78/119 ↖ 67/253 ↘ 35/98		12/4 ↓ 35/33 ↓ 135/238 ↗ 37/64 ↖ 1101/869 ↘ 171/114		15/44 ↓ 0/2 ↓ 48/134 ↗ 137/51 ↖ 1405/1296 ↘ 100/68		0/1 ↓ 3/19 ↓ 8/22 ↗ 8/33 ↖ 1282/1298 ↘ 19/58		963/1024 ↓ 35/48 ↗ 46/35 ↖ 63/227							
18. Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd		19. 30th St at Frontage Rd/SR-60 EB On-Ramp		20. Market St at Rivera St		21. Market St at SR-60 WB Ramps		22. Market St at SR-60 EB Ramps		23. Rubidoux at 34th St		24. Wallace St at 34th St			
1314/1971 ↓ 417/274				7/0 ↓ 1008/1602 ↓ 64/125 ↗ 78/100 ↖ 292/252		233/241 ↓ 1117/1631 ↗ 1132/882 ↖ 170/147		494/835 ↓ 763/911		54/136 ↓ 1407/2006 ↓ 56/250 ↗ 123/69 ↖ 8/21 ↘ 21/23		3/10 ↓ 50/65 ↓ 16/31 ↗ 10/30 ↖ 63/59 ↘ 9/6			
758/704 ↓ 143/117 ↓ 404/745 ↗ 1034/1215 ↖ 1233/956		1011/724 ↓ 308/238		4/2 ↓ 0/15 ↓ 13/62 ↗ 26/6 ↖ 1264/1167 ↘ 349/261		315/548 ↓ 563/543		181/184 ↓ 610/934 ↗ 641/828 ↖ 214/122		141/117 ↓ 40/55 ↓ 21/33 ↗ 25/26 ↖ 1774/1533 ↘ 56/139		4/17 ↓ 69/201 ↓ 64/150 ↗ 53/65 ↖ 68/91 ↘ 8/13			

LEGEND:

- = Project Site
- = Study Intersection
- = AM/PM Volumes

Note: Volumes reflect PCE adjustments.

FIGURE 23A
HORIZON YEAR 2045 NO RAMP
PLUS PROJECT TRAFFIC VOLUMES - OPTION 2



NOT TO SCALE

25. Crestmore Rd at 34th St		26. Wallace St at 36th St		27. Crestmore Rd at 36th St		28. Valley Way at Mission Blvd									
<p>← 38/65</p> <p>← 2/3</p> <p>← 2/1</p> <p>80/195 →</p> <p>3/1 →</p> <p>60/66 →</p> <p>22/27 →</p> <p>3/3 →</p>		<p>← 102/147</p> <p>← 6/12</p> <p>8/3</p> <p>10/7</p> <p>122/179 →</p> <p>9/7 →</p>		<p>← 117/126</p> <p>1/0 →</p> <p>4/6 →</p> <p>98/165 →</p>		<p>← 342/323</p> <p>← 352/414</p> <p>← 478/485</p> <p>← 693/610</p> <p>← 303/281</p> <p>← 81/53</p> <p>392/776 →</p> <p>535/974 →</p> <p>46/62 →</p> <p>18/33 →</p> <p>423/501 →</p> <p>35/67 →</p>									
29. Golden Ave at Mission Blvd		30. Opal St at Mission Blvd		31. Pacific Ave at Mission Blvd		32. La Rue St at Mission Blvd		33. Riverview Dr at Mission Blvd							
<p>← 3/45</p> <p>← 0/112</p> <p>← 4/249</p> <p>← 1168/1551</p> <p>← 38/54</p> <p>18/71 →</p> <p>1134/897 →</p> <p>94/4 →</p> <p>287/0 →</p> <p>0/17 →</p> <p>59/26 →</p>		<p>← 150/13</p> <p>← 36/11</p> <p>← 104/16</p> <p>← 58/14</p> <p>← 959/925</p> <p>← 258/177</p> <p>90/42 →</p> <p>989/1444 →</p> <p>91/99 →</p> <p>112/69 →</p> <p>17/10 →</p> <p>177/104 →</p>		<p>← 135/125</p> <p>← 179/163</p> <p>← 101/184</p> <p>← 156/137</p> <p>← 1011/950</p> <p>← 185/293</p> <p>163/173 →</p> <p>981/1603 →</p> <p>56/160 →</p> <p>172/67 →</p> <p>201/116 →</p> <p>216/182 →</p>		<p>← 117/51</p> <p>← 160/85</p> <p>← 201/77</p> <p>← 1096/1061</p> <p>266/120 →</p> <p>1130/1410 →</p>		<p>← 50/44</p> <p>← 56/56</p> <p>← 29/53</p> <p>← 29/69</p> <p>← 900/960</p> <p>← 527/772</p> <p>68/92 →</p> <p>827/1501 →</p> <p>228/240 →</p> <p>307/234 →</p> <p>72/68 →</p> <p>675/544 →</p>							
34. Rubidoux Blvd at Mission Blvd		35. Wallace St at Mission Blvd		36. Crestmore Rd at Mission Blvd		37. Riverview Dr at 42nd St		38. Riverview Dr/Limonite Ave at Pacific Ave		39. Limonite Ave at Avenue San Juan Bautista		40. Camino Real at Limonite Ave		41. Hall Ave at "A" St	
<p>← 743/972</p> <p>← 168/245</p> <p>← 298/423</p> <p>← 326/323</p> <p>← 611/775</p> <p>← 116/207</p> <p>888/837 →</p> <p>612/1272 →</p> <p>15/36 →</p> <p>61/48 →</p> <p>299/157 →</p> <p>51/65 →</p>		<p>← 107/79</p> <p>← 8/44</p> <p>← 18/84</p> <p>← 44/78</p> <p>← 1279/1255</p> <p>← 37/83</p> <p>100/142 →</p> <p>1305/1410 →</p> <p>51/134 →</p> <p>67/116 →</p> <p>8/23 →</p> <p>26/100 →</p>		<p>← 20/11</p> <p>← 24/48</p> <p>← 106/213</p> <p>← 36/81</p> <p>← 717/1007</p> <p>← 350/621</p> <p>8/9 →</p> <p>721/1657 →</p> <p>44/142 →</p> <p>71/88 →</p> <p>34/26 →</p> <p>732/593 →</p>		<p>← 31/53</p> <p>← 764/933</p> <p>← 55/67</p> <p>← 157/28</p> <p>← 78/81</p> <p>← 192/142</p> <p>24/32 →</p> <p>66/135 →</p> <p>17/47 →</p> <p>13/33 →</p> <p>959/842 →</p> <p>166/169 →</p>		<p>← 162/78</p> <p>← 693/1019</p> <p>147/95 →</p> <p>189/216 →</p> <p>234/299 →</p> <p>946/1145 →</p>		<p>← 65/106</p> <p>← 902/1315</p> <p>← 88/168</p> <p>← 164/140</p> <p>← 17/12</p> <p>← 18/20</p> <p>62/71 →</p> <p>6/8 →</p> <p>10/4 →</p> <p>23/22 →</p> <p>876/1039 →</p> <p>13/24 →</p>		<p>← 254/244</p> <p>← 83/184</p> <p>← 80/79</p> <p>← 92/63</p> <p>← 1048/1037</p> <p>← 119/210</p> <p>170/263 →</p> <p>977/1374 →</p> <p>76/145 →</p> <p>188/88 →</p> <p>135/125 →</p> <p>233/232 →</p>		<p>← 163/88</p> <p>← 102/375</p> <p>279/152 →</p>	
42. SR-60 SB On-Ramp at "A" St		43. Rubidoux Blvd at "B" St		44. Wallace St at "B" St		45. Rubidoux Blvd at Project Driveway		46. Industrial Driveway at "B" St		47. "A" St at "B" St					
<p>← 102/375</p> <p>442/240 →</p>		<p>← 47/180</p> <p>← 19/71</p> <p>← 34/134</p> <p>← 19/71</p> <p>211/109 →</p> <p>119/70 →</p> <p>113/62 →</p> <p>22/62 →</p> <p>39/25 →</p> <p>39/25 →</p>		<p>← 1465/2273</p> <p>← 458/817</p> <p>← 479/748</p> <p>← 186/332</p> <p>2084/1689 →</p> <p>136/175 →</p>		<p>← 232/397</p> <p>← 17/28</p> <p>← 21/28</p> <p>← 403/628</p> <p>← 3/2</p> <p>225/319 →</p> <p>303/631 →</p> <p>66/42 →</p> <p>30/55 →</p> <p>2/3 →</p>		<p>← 31/121</p> <p>← 1/3</p> <p>← 11/33</p> <p>← 18/12</p> <p>← 310/142</p> <p>57/35 →</p> <p>86/315 →</p> <p>9/15 →</p> <p>32/49 →</p> <p>7/4 →</p>		<p>← 16/8</p> <p>← 43/157</p> <p>← 92/39</p> <p>← 14/46</p> <p>8/16 →</p> <p>4/2 →</p> <p>78/49 →</p>					

LEGEND:

- = Project Site
- = Study Intersection
- = AM/PM Volumes

Note: Volumes reflect PCE adjustments.

FIGURE 23B
HORIZON YEAR 2045 NO RAMP
PLUS PROJECT TRAFFIC VOLUMES - OPTION 2



TABLE 17
SUMMARY OF INTERSECTION OPERATION
HORIZON YEAR 2045 NO RAMP PLUS PROJECT OPTION 2 (HALL AVE/26TH ST)

Int. #	Intersection	Traffic Control	AM Peak Hour						PM Peak Hour					
			Without Project		With Project		Change in Delay	Project-Related Effect?	Without Project		With Project		Change in Delay	Project-Related Effect?
			Delay	LOS	Delay	LOS			Delay	LOS	Delay	LOS		
1	Cedar Ave at Slover Ave	S	79.1	E	83.3	F	4.2	Yes	46.1	D	49.4	D	3.3	No
2	Cedar Ave at Santa Ana Ave	S	15.6	B	16.3	B	0.7	No	16.8	B	18.0	B	1.2	No
3	Cedar Ave at Jurupa Ave	S	14.0	B	14.8	B	0.8	No	14.8	B	16.1	B	1.3	No
4	Cedar Ave at Tarragona Dr/El Rivino Rd	S	13.1	B	13.6	B	0.5	No	27.1	C	30.8	C	3.7	No
5	Rubidoux Blvd at Agua Mansa Commerce Park Dwy	S	9.1	A	9.1	A	0.0	No	13.7	B	14.2	B	0.5	No
6	Rubidoux Blvd at Market St/20th St	S	294.7	F	296.7	F	2.0	No	204.5	F	212.6	F	8.1	Yes
7	Agua Mansa Rd at Market St	S	37.6	D	42.2	D	4.6	No	72.9	E	85.0	F	12.1	Yes
8	Rubidoux Blvd at 24th St	U	200.0	F	200.0	F	0.0	No	200.0	F	200.0	F	0.0	No
9	Market St at Hall Ave	U	8685.2	F	10000.0	F	1314.8	Yes	726.0	F	1254.8	F	528.8	Yes
10	Hall Ave at 24th St	U	14.7	B	16.6	C	1.9	No	20.2	C	56.0	F	35.8	Yes
11	Market St at 24th St/Via Cerro	S	68.0	E	69.2	E	1.2	No	83.0	F	117.1	F	34.1	Yes
12	Rubidoux Blvd at 26th St	U	266.6	F	1396.7	F	1130.1	Yes	990.2	F	5812.8	F	4822.6	Yes
13	Hall Ave at 26th St	U	11.7	B	16.7	C	5.0	No	12.6	B	26.4	D	13.8	No
14	Rubidoux Blvd at 28th St	S	10.6	B	12.5	B	1.9	No	14.6	B	19.6	B	5.0	No
15	Hall Ave at 28th St	U	10.4	B	13.8	B	3.4	No	18.2	C	114.7	F	96.5	Yes
16	Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp	S	199.1	F	351.6	F	152.5	Yes	97.7	F	480.6	F	382.9	Yes
17	Rubidoux Blvd at SR-60 WB On-Ramp	U	502.8	F	1616.9	F	1114.1	Yes	899.1	F	4530.4	F	3631.3	Yes
18	Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd	S	235.0	F	360.8	F	125.8	Yes	70.5	E	338.8	F	268.3	Yes
19	Frontage Rd at SR-60 EB On-Ramp	U	22.0	C	--	--	--	--	12.1	B	0.0	--	--	--
20	Market St at Rivera St	S	15.4	B	15.6	B	0.2	No	19.5	B	20.3	C	0.8	No
21	Market St at SR-60 WB Ramps	S	14.5	B	15.5	B	1.0	No	38.3	D	50.9	D	12.6	No
22	Market St at SR-60 EB Ramps	S	30.2	C	32.5	C	2.3	No	41.1	D	68.7	E	27.6	Yes
23	Rubidoux Blvd at 34th St	S	16.8	B	19.6	B	2.8	No	22.3	C	27.8	C	5.5	No
24	Wallace St at 34th St	U	8.0	A	8.3	A	0.3	No	10.3	B	11.0	B	0.7	No
25	Crestmore Rd at 34th St	U	9.1	A	9.8	A	0.7	No	9.5	A	10.8	B	1.3	No

TABLE 17
SUMMARY OF INTERSECTION OPERATION
HORIZON YEAR 2045 NO RAMP PLUS PROJECT OPTION 2 (HALL AVE/26TH ST)

Int. #	Intersection	Traffic Control	AM Peak Hour						PM Peak Hour					
			Without Project		With Project		Change in Delay	Project-Related Effect?	Without Project		With Project		Change in Delay	Project-Related Effect?
			Delay	LOS	Delay	LOS			Delay	LOS	Delay	LOS		
26	Wallace St at 36th St	U	9.7	A	10.0	A	0.3	No	10.3	B	10.9	B	0.6	No
27	Crestmore Rd at 36th St	U	9.4	A	9.7	A	0.3	No	8.6	A	9.0	A	0.4	No
28	Valley Way at Mission Blvd	S	33.4	C	33.8	C	0.4	No	39.1	D	40.9	D	1.8	No
29	Golden Ave at Mission Blvd	S	15.1	B	15.7	B	0.6	No	16.1	B	16.3	B	0.2	No
30	Opal St at Mission Blvd	S	20.5	C	21.8	C	1.3	No	15.2	B	16.5	B	1.3	No
31	Pacific Ave at Mission Blvd	S	26.2	C	27.0	C	0.8	No	44.4	D	49.6	D	5.2	No
32	La Rue St at Mission Blvd	S	20.6	C	21.4	C	0.8	No	9.4	A	9.7	A	0.3	No
33	Riverview Dr at Mission Blvd	S	93.4	F	131.9	F	38.5	Yes	128.5	F	192.5	F	64.0	Yes
34	Rubidoux Blvd at Mission Blvd	S	112.3	F	156.3	F	44.0	Yes	134.8	F	222.3	F	87.5	Yes
35	Wallace St at Mission Blvd	S	12.2	B	12.4	B	0.2	No	20.4	C	20.4	C	0.0	No
36	Crestmore Rd at Mission Blvd	S	50.2	D	50.2	D	0.0	No	152.7	F	152.7	F	0.0	No
37	Riverview Dr at 42nd St	S	24.2	C	24.9	C	0.7	No	21.8	C	25.7	C	3.9	No
38	Riverview Dr/Limonite Ave at Pacific Ave	S	14.5	B	14.5	B	0.0	No	16.2	B	16.8	B	0.6	No
39	Limonite Ave at Avenue San Juan Bautista	S	23.8	C	23.8	C	0.0	No	25.7	C	25.7	C	0.0	No
40	Camino Real at Limonite Ave	S	42.8	D	45.1	D	2.3	No	56.3	E	63.7	E	7.4	Yes
41	Hall Ave at "A" St	U	--	--	12.9	B	--	--	--	--	9.9	A	--	--
42	SR-60 SB On-Ramp at "A" St	U	--	--	0.0	A	--	--	--	--	0.0	A	--	--
43	"A" St at "B" St	U	--	--	9.6	A	--	--	--	--	11.9	B	--	--
44	Rubidoux Blvd at "B" St	S	--	--	34.3	C	--	--	--	--	48.3	D	--	--
45	Project Dwy at "B" St	S	--	--	13.4	B	--	--	--	--	16.7	B	--	--
46	Wallace St at "B" St	U	--	--	3.7	A	--	--	--	--	4.0	A	--	--
47	"B" St at Industrial Dwy	U	--	--	11.4	B	--	--	--	--	11.3	B	--	--

Notes:
- Bold values indicate intersections operating at an unacceptable Level of Service
- Intersection operation is based on average intersection delay for signalized intersections.
- Delay values for unsignalized intersections represent the average vehicle delay on the worst (highest delay) intersection approach.

Horizon Year 2045 No Ramp Plus Project – Option 3

Option 3 project-related traffic was added to the Horizon Year 2045 traffic volumes. Horizon Year 2045 No Ramp Plus Project peak hour turning movement volumes at study intersections are shown on Figure 24.

Peak Hour Operating Conditions – Option 3

Intersection Level of Service analysis was conducted for the morning and evening peak hours for the Horizon Year 2045 No Ramp Plus Project – Option 3 conditions. The results of the intersection analysis are shown on Table 18. Copies of intersection analysis worksheets for this scenario are provided in *Appendix C*.

Review of this table indicates that, with the addition of project traffic, the following study intersections would operate at an unacceptable Level of Service:

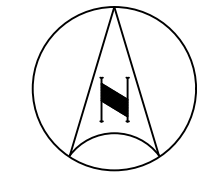
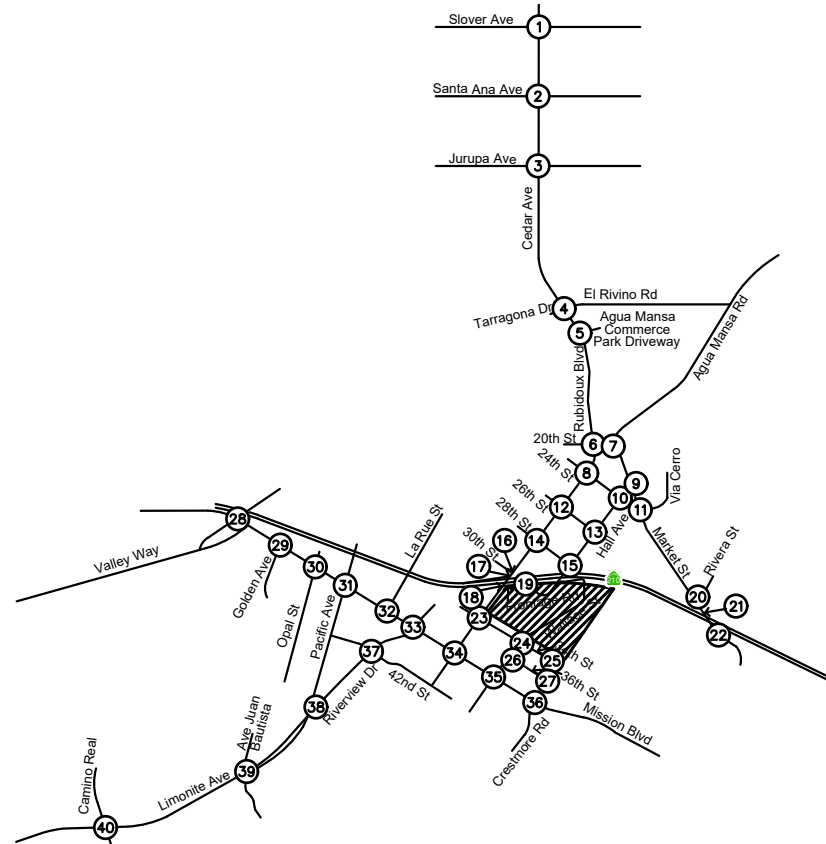
- #1 – Cedar Ave at Slover Ave: AM – LOS F
- #6 – Rubidoux Blvd at Market St/20th St: AM – LOS F, PM – LOS F
- #7 – Agua Mansa Rd at Market St: PM – LOS F
- #8 – Rubidoux Blvd at 24th St: AM – LOS F, PM – LOS F
- #9 – Market St at Hall Ave: AM – LOS F, PM – LOS F
- #10 – Hall Ave at 24th St: PM – LOS F
- #11 – Market St at 24th St/Via Cerro: AM – LOS E, PM – LOS F
- #12 – Rubidoux Blvd at 26th St: AM – LOS F, PM – LOS F
- #15 – Hall Ave at 28th St: PM – LOS F
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp: AM – LOS F, PM – LOS F
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp: AM – LOS F, PM – LOS F
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd: AM – LOS F, PM – LOS F
- #22 – Market St at SR-60 EB Ramps: PM – LOS E
- #33 – Riverview Dr at Mission Blvd: AM – LOS F, PM – LOS F
- #34 – Rubidoux Blvd at Mission Blvd: AM – LOS F, PM – LOS F
- #36 – Crestmore Rd at Mission Blvd: PM – LOS F
- #40 – Camino real at Limonite Avenue: PM – LOS E

Based on the significance thresholds presented earlier in this report, the following intersection would experience a project-related effect due to the increase in delay caused by the addition of project traffic:

- #1 – Cedar Ave at Slover Ave
- #6 – Rubidoux Blvd at Market St/20th St
- #7 – Agua Mansa Rd at Market St
- #9 – Market St at Hall Ave
- #10 – Hall Ave at 24th St

- #11 – Market St at 24th St/Via Cerro
- #12 – Rubidoux Blvd at 26th St
- #15 – Hall Ave at 28th St
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd
- #22 – Market St at SR-60 EB Ramps
- #33 – Riverview Dr at Mission Blvd
- #34 – Rubidoux Blvd at Mission Blvd
- #40 – Camino Real at Limonite Ave

Recommended Improvements are presented in the Recommended Improvement section of this report.



NOT TO SCALE

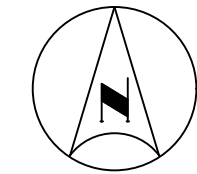
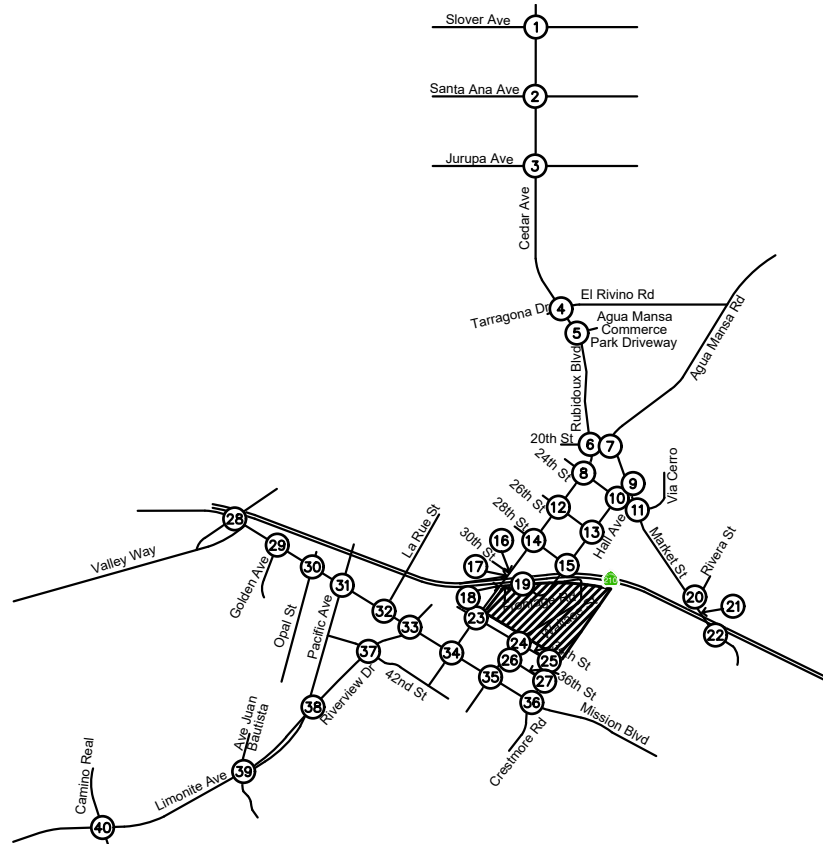
1. Cedar Ave at Slover Ave		2. Cedar Ave at Santa Ana Ave		3. Cedar Ave at Jurupa Ave		4. Cedar Ave at Tarragona Dr/El Rivino Rd	
5. Rubidoux Blvd at Agua Mansa Commerce Park Driveway		6. Rubidoux Blvd at Market St/20th St		7. Agua Mansa Rd at Market St		8. Rubidoux Blvd at 24th St	
9. Market St at Hall Ave		10. Hall Ave at 24th Street		11. Market St at 24th St/Via Cerro		12. Rubidoux Blvd at 26th St	
13. Hall Ave at 26th St		14. Rubidoux Blvd at 28th St		15. Hall Ave at 28th St		16. Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp	
17. Rubidoux Blvd at SR-60 WB On-Ramp		18. Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd		19. 30th St at Frontage Rd/SR-60 EB On-Ramp		20. Market St at Rivera St	
21. Market St at SR-60 WB Ramps		22. Market St at SR-60 EB Ramps		23. Rubidoux at 34th St		24. Wallace St at 34th St	

LEGEND:

- = Project Site
- = Study Intersection
- = AM/PM Volumes

Note: Volumes reflect PCE adjustments.

FIGURE 24A
HORIZON YEAR 2045 NO RAMP
PLUS PROJECT TRAFFIC VOLUMES - OPTION 3



NOT TO SCALE

		25. Crestmore Rd at 34th St		26. Wallace St at 36th St		27. Crestmore Rd at 36th St		28. Valley Way at Mission Blvd			
		29. Golden Ave at Mission Blvd		30. Opal St at Mission Blvd		31. Pacific Ave at Mission Blvd		32. La Rue St at Mission Blvd		33. Riverview Dr at Mission Blvd	
34. Rubidoux Blvd at Mission Blvd		35. Wallace St at Mission Blvd		36. Crestmore Rd at Mission Blvd		37. Riverview Dr at 42nd St		38. Riverview Dr/Limonite Ave at Pacific Ave		39. Limonite Ave at Avenue San Juan Bautista	
40. Camino Real at Limonite Ave		41. Hall Ave at "A" St									
42. SR-60 SB On-Ramp at "A" St		43. Rubidoux Blvd at "B" St		44. Wallace St at "B" St		45. Rubidoux Blvd at Project Driveway		46. Industrial Driveway at "B" St		47. "A" St at "B" St	

LEGEND:

- = Project Site
- = Study Intersection
- = AM/PM Volumes

Note: Volumes reflect PCE adjustments.

FIGURE 24B
HORIZON YEAR 2045 NO RAMP
PLUS PROJECT TRAFFIC VOLUMES - OPTION 3



TABLE 18
SUMMARY OF INTERSECTION OPERATION
HORIZON YEAR 2045 NO RAMP PLUS PROJECT OPTION 3 (HALL AVE/MARKET ST/RUBIDOUX BLVD)

Int. #	Intersection	Traffic Control	AM Peak Hour						PM Peak Hour					
			Without Project		With Project		Change in Delay	Project-Related Effect?	Without Project		With Project		Change in Delay	Project-Related Effect?
			Delay	LOS	Delay	LOS			Delay	LOS	Delay	LOS		
1	Cedar Ave at Slover Ave	S	79.1	E	83.3	F	4.2	Yes	46.1	D	49.4	D	3.3	No
2	Cedar Ave at Santa Ana Ave	S	15.6	B	16.3	B	0.7	No	16.8	B	18.0	B	1.2	No
3	Cedar Ave at Jurupa Ave	S	14.0	B	14.8	B	0.8	No	14.8	B	16.1	B	1.3	No
4	Cedar Ave at Tarragona Dr/El Rivino Rd	S	13.1	B	13.6	B	0.5	No	27.1	C	30.8	C	3.7	No
5	Rubidoux Blvd at Agua Mansa Commerce Park Dwy	S	9.1	A	9.1	A	0.0	No	13.7	B	14.2	B	0.5	No
6	Rubidoux Blvd at Market St/20th St	S	294.7	F	301.3	F	6.6	Yes	204.5	F	223.2	F	18.7	Yes
7	Agua Mansa Rd at Market St	S	37.6	D	44.5	D	6.9	No	72.9	E	95.0	F	22.1	Yes
8	Rubidoux Blvd at 24th St	U	200.0	F	200.0	F	0.0	No	200.0	F	200.0	F	0.0	No
9	Market St at Hall Ave	U	8685.2	F	10000.0	F	1314.8	Yes	726.0	F	4979.1	F	4253.1	Yes
10	Hall Ave at 24th St	U	14.7	B	19.4	C	4.7	No	20.2	C	82.9	F	62.7	Yes
11	Market St at 24th St/Via Cerro	S	68.0	E	76.7	E	8.7	Yes	83.0	F	124.0	F	41.0	Yes
12	Rubidoux Blvd at 26th St	U	266.6	F	463.0	F	196.4	Yes	990.2	F	2158.0	F	1167.8	Yes
13	Hall Ave at 26th St	U	11.7	B	15.5	C	3.8	No	12.6	B	21.4	C	8.8	No
14	Rubidoux Blvd at 28th St	S	10.6	B	12.3	B	1.7	No	14.6	B	19.1	B	4.5	No
15	Hall Ave at 28th St	U	10.4	B	13.8	B	3.4	No	18.2	C	114.7	F	96.5	Yes
16	Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp	S	199.1	F	351.6	F	152.5	Yes	97.7	F	480.6	F	382.9	Yes
17	Rubidoux Blvd at SR-60 WB On-Ramp	U	502.8	F	1599.9	F	1097.1	Yes	899.1	F	4377.2	F	3478.1	Yes
18	Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd	S	235.0	F	360.8	F	125.8	Yes	70.5	E	338.8	F	268.3	Yes
19	Frontage Rd at SR-60 EB On-Ramp	U	22.0	C	--	--	--	--	12.1	B	--	--	--	--
20	Market St at Rivera St	S	15.4	B	15.7	B	0.3	No	19.5	B	20.5	C	1.0	No
21	Market St at SR-60 WB Ramps	S	14.5	B	15.5	B	1.0	No	38.3	D	50.8	D	12.5	No
22	Market St at SR-60 EB Ramps	S	30.2	C	31.5	C	1.3	No	41.1	D	68.7	E	27.6	Yes
23	Rubidoux Blvd at 34th St	S	16.8	B	19.6	B	2.8	No	22.3	C	27.8	C	5.5	No
24	Wallace St at 34th St	U	8.0	A	8.3	A	0.3	No	10.3	B	11.0	B	0.7	No
25	Crestmore Rd at 34th St	U	9.1	A	9.8	A	0.7	No	9.5	A	10.8	B	1.3	No

TABLE 18
SUMMARY OF INTERSECTION OPERATION
HORIZON YEAR 2045 NO RAMP PLUS PROJECT OPTION 3 (HALL AVE/MARKET ST/RUBIDOUX BLVD)

Int. #	Intersection	Traffic Control	AM Peak Hour						PM Peak Hour					
			Without Project		With Project		Change in Delay	Project-Related Effect?	Without Project		With Project		Change in Delay	Project-Related Effect?
			Delay	LOS	Delay	LOS			Delay	LOS	Delay	LOS		
26	Wallace St at 36th St	U	9.7	A	10.0	A	0.3	No	10.3	B	10.9	B	0.6	No
27	Crestmore Rd at 36th St	U	9.4	A	9.7	A	0.3	No	8.6	A	9.0	A	0.4	No
28	Valley Way at Mission Blvd	S	33.4	C	33.8	C	0.4	No	39.1	D	40.9	D	1.8	No
29	Golden Ave at Mission Blvd	S	15.1	B	15.7	B	0.6	No	16.1	B	16.3	B	0.2	No
30	Opal St at Mission Blvd	S	20.5	C	21.8	C	1.3	No	15.2	B	16.5	B	1.3	No
31	Pacific Ave at Mission Blvd	S	26.2	C	27.0	C	0.8	No	44.4	D	49.6	D	5.2	No
32	La Rue St at Mission Blvd	S	20.6	C	21.4	C	0.8	No	9.4	A	9.7	A	0.3	No
33	Riverview Dr at Mission Blvd	S	93.4	F	131.9	F	38.5	Yes	128.5	F	192.5	F	64.0	Yes
34	Rubidoux Blvd at Mission Blvd	S	112.3	F	156.3	F	44.0	Yes	134.8	F	222.3	F	87.5	Yes
35	Wallace St at Mission Blvd	S	12.2	B	12.4	B	0.2	No	20.4	C	20.4	C	0.0	No
36	Crestmore Rd at Mission Blvd	S	50.2	D	50.2	D	0.0	No	152.7	F	152.7	F	0.0	No
37	Riverview Dr at 42nd St	S	24.2	C	24.9	C	0.7	No	21.8	C	25.7	C	3.9	No
38	Riverview Dr/Limonite Ave at Pacific Ave	S	14.5	B	14.5	B	0.0	No	16.2	B	16.8	B	0.6	No
39	Limonite Ave at Avenue San Juan Bautista	S	23.8	C	23.8	C	0.0	No	25.7	C	25.7	C	0.0	No
40	Camino Real at Limonite Ave	S	42.8	D	45.1	D	2.3	No	56.3	E	63.7	E	7.4	Yes
41	Hall Ave at "A" St	U	--	--	11.8	B	--	--	--	--	9.9	A	--	--
42	SR-60 SB On-Ramp at "A" St	U	--	--	0.0	A	--	--	--	--	0.0	A	--	--
43	"A" St at "B" St	U	--	--	9.6	A	--	--	--	--	11.7	B	--	--
44	Rubidoux Blvd at "B" St	S	--	--	34.3	C	--	--	--	--	48.3	D	--	--
45	Project Dwy at "B" St	S	--	--	20.8	C	--	--	--	--	32.3	C	--	--
46	Wallace St at "B" St	U	--	--	3.7	A	--	--	--	--	4.0	A	--	--
47	"B" St at Industrial Dwy	U	--	--	11.5	B	--	--	--	--	11.9	B	--	--

Notes:
- Bold values indicate intersections operating at an unacceptable Level of Service
- Intersection operation is based on average intersection delay for signalized intersections.
- Delay values for unsignalized intersections represent the average vehicle delay on the worst (highest delay) intersection approach.

Horizon Year 2045 Plus Project – Option 1

The Horizon Year 2045 Plus Project scenario was analyzed with the addition of the project SR-60 EB On-Ramp. Horizon Year 2045 Plus Project – Option 1 peak hour turning movement volumes at study intersections are shown on Figure 25.

Peak Hour Operating Conditions – Option 1

Intersection Level of Service analysis was conducted for the morning and evening peak hours for the Horizon Year 2045 Plus Project – Option 1 conditions. The results of the intersection analysis are shown on Table 19. Copies of intersection analysis worksheets for this scenario are provided in *Appendix C*.

Review of this table indicates that, with the addition of project traffic, the following study intersections would operate at an unacceptable Level of Service:

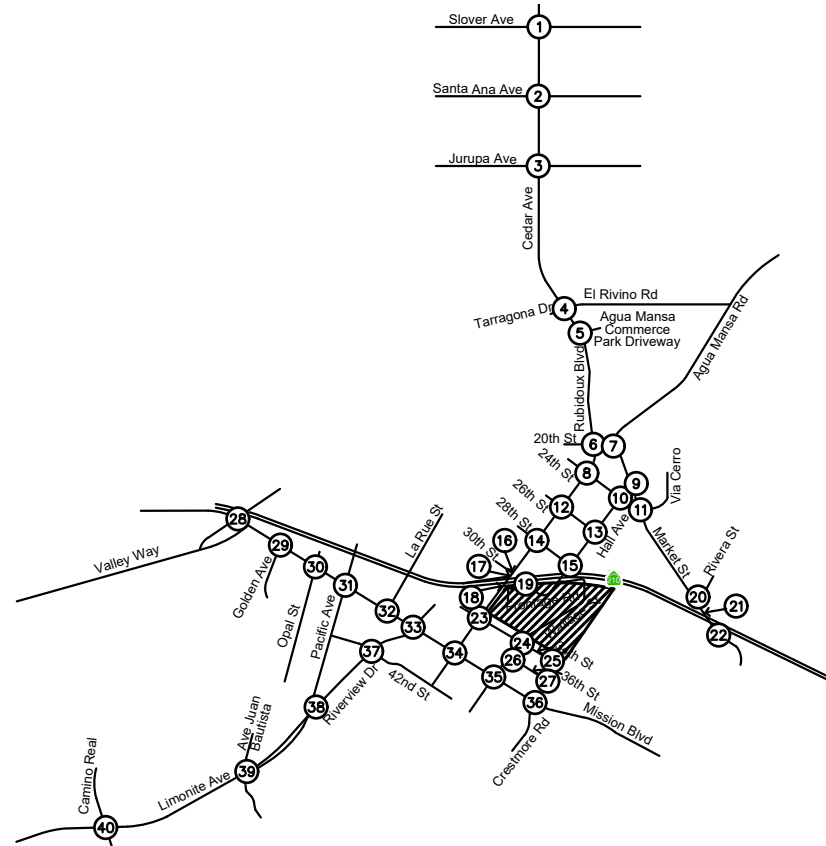
- #1 – Cedar Ave at Slover Ave: AM – LOS F
- #6 – Rubidoux Blvd at Market St/20th St: AM – LOS F, PM – LOS F
- #7 – Agua Mansa Rd at Market St: PM – LOS F
- #8 – Rubidoux Blvd at 24th St: AM – LOS F, PM – LOS F
- #9 – Market St at Hall Ave: AM – LOS F, PM – LOS F
- #11 – Market St at 24th St/Via Cerro: AM – LOS E, PM – LOS F
- #12 – Rubidoux Blvd at 26th St: AM – LOS F, PM – LOS F
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp: AM – LOS F, PM – LOS F
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp: AM – LOS F, PM – LOS F
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd: AM – LOS F, PM – LOS F
- #19 – Frontage Rd at SR-60 EB On-Ramp: AM – LOS F
- #33 – Riverview Dr at Mission Blvd: AM – LOS F, PM – LOS F
- #34 – Rubidoux Blvd at Mission Blvd: AM – LOS F, PM – LOS F
- #36 – Crestmore Rd at Mission Blvd: PM – LOS F
- #40 – Camino real at Limonite Avenue: PM – LOS E

Based on the significance thresholds presented earlier in this report, the following intersection would experience a project-related effect due to the increase in delay caused by the addition of project traffic:

- #1 – Cedar Ave at Slover Ave
- #6 – Rubidoux Blvd at Market St/20th St
- #7 – Agua Mansa Rd at Market St
- #9 – Market St at Hall Ave
- #11 – Market St at 24th St/Via Cerro
- #12 – Rubidoux Blvd at 26th St
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp

- #17 – Rubidoux Blvd at SR-60 WB On-Ramp
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd
- #19 – Frontage Rd at SR_60 EB On-Ramp
- #33 – Riverview Dr at Mission Blvd
- #34 – Rubidoux Blvd at Mission Blvd
- #40 – Camino Real at Limonite Ave

Recommended Improvements are presented in the Recommended Improvement section of this report.



NOT TO SCALE

1. Cedar Ave at Slover Ave 301/200 1050/808 139/140 166/113 294/348 65/59 447/385 272/508 106/184 264/234 940/619 42/89		2. Cedar Ave at Santa Ana Ave 61/75 1039/927 83/61 113/57 111/129 50/42 63/87 99/113 82/131 120/166 901/881 28/49		3. Cedar Ave at Jurupa Ave 25/40 1057/1039 85/92 143/51 91/77 59/60 36/34 81/193 39/66 41/77 873/936 81/96		4. Cedar Ave at Tarragona Dr/El Rivino Rd 3/21 1331/1208 114/152 67/177 1/5 143/300 13/10 2/5 22/9 4/6 745/1089 203/178									
5. Rubidoux Blvd at Agua Mansa Commerce Park Driveway 1303/1304 174/117 58/165 116/329 1158/1162 349/235		6. Rubidoux Blvd at Market St/20th St 128/45 909/1118 1104/593 409/700 220/95 380/639 60/87 177/221 85/167 180/80 746/740 856/585		7. Agua Mansa Rd at Market St 285/402 1/0 192/368 373/350 832/792 28/0 334/511 934/898 43/1 10/0 1/3 16/2		8. Rubidoux Blvd at 24th St 0/4 1233/1604 117/120 19/34 266/7 9/35 0/1 3/19 8/22 8/33 1294/1242 19/58		9. Market St at Hall Ave 1242/1016 438/260 963/1024 35/55 46/23 14/21							
10. Hall Ave at 24th Street 31/29 34/66 14/6 5/2 95/202 30/98 6/23 466/410 29/49 66/85 18/35 35/98		11. Market St at 24th St/Via Cerro 1/1 905/1127 114/61 102/117 8/42 125/256 12/4 35/33 135/238 37/67 1101/872 171/114		12. Rubidoux Blvd at 26th St 43/17 1077/1514 11/14 10/12 2/1 4/15 15/44 0/2 48/134 137/51 1423/1258 8/29		13. Hall Ave at 26th St 5/4 186/197 1/13 11/6 0/2 49/31 5/27 0/5 27/38 9/20 127/141 11/3		14. Rubidoux Blvd at 28th St 20/40 1271/1787 37/42 11/16 11/24 58/70 37/48 12/28 113/113 71/125 1501/1295 62/75		15. Hall Ave at 28th St 51/63 155/163 235/415 46/0 32/47 63/180 66/98 17/30 107/174 3/4		16. Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp 30/31 1287/1692 266/289 95/141 1096/1237 60/43 271/229 105/115 1210/1104		17. Rubidoux Blvd at SR-60 WB On-Ramp 932/959 1835/2158 594/499 1296/1199	
18. Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd 1311/1740 527/442 138/108 104/112 758/704 143/181 404/626 1018/1015 1233/859		19. 30th St at Frontage Rd/SR-60 EB On-Ramp 1011/622 418/475 60/60 149/94		20. Market St at Rivera St 7/0 959/1396 64/125 78/100 292/247 4/2 0/15 13/62 26/6 1264/1174 349/252		21. Market St at SR-60 WB Ramps 233/236 1068/1425 1132/882 170/147 315/535 563/541		22. Market St at SR-60 EB Ramps 490/819 718/721 181/175 614/913 641/822 214/122		23. Rubidoux at 34th St 54/136 1407/1876 56/250 123/69 8/21 21/23 141/117 40/55 21/33 25/26 1774/1484 56/139		24. Wallace St at 34th St 3/10 50/57 16/31 10/30 63/59 9/6 4/17 69/201 64/150 53/65 69/77 8/13			

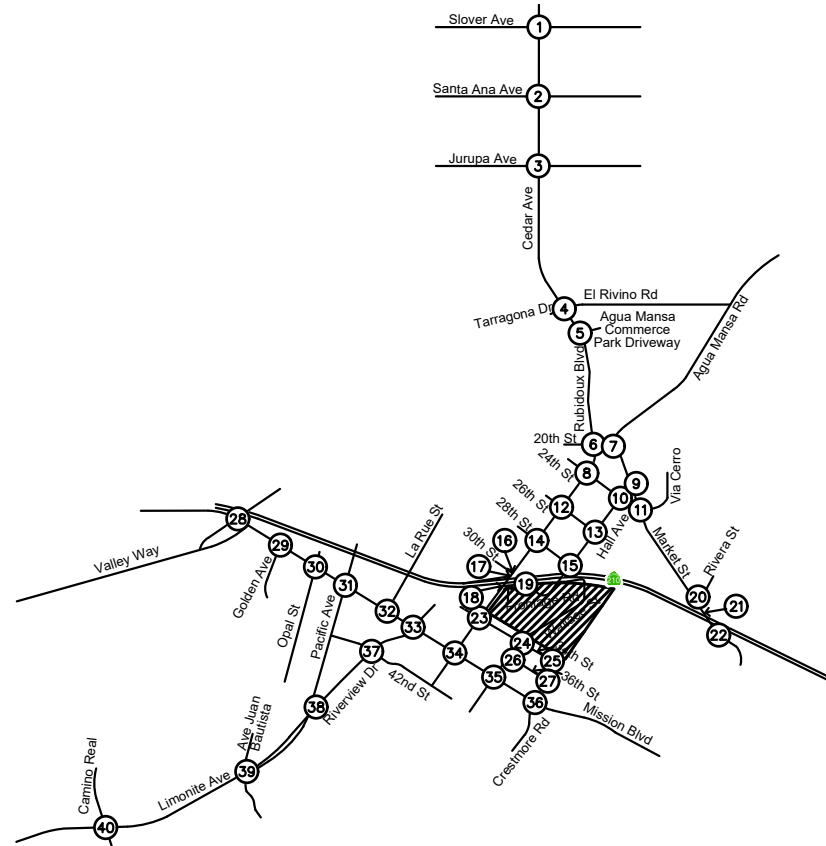
LEGEND:

- = Project Site
- = Study Intersection
- xx/yy = AM/PM Volumes

Note: Volumes reflect PCE adjustments.

FIGURE 25A
HORIZON YEAR 2045
PLUS PROJECT TRAFFIC VOLUMES - OPTION 1





NOT TO SCALE

		25. Crestmore Rd at 34th St		26. Wallace St at 36th St		27. Crestmore Rd at 36th St		28. Valley Way at Mission Blvd			
		29. Golden Ave at Mission Blvd		30. Opal St at Mission Blvd		31. Pacific Ave at Mission Blvd		32. La Rue St at Mission Blvd		33. Riverview Dr at Mission Blvd	
34. Rubidoux Blvd at Mission Blvd		35. Wallace St at Mission Blvd		36. Crestmore Rd at Mission Blvd		37. Riverview Dr at 42nd St		38. Riverview Dr/Limonite Ave at Pacific Ave		39. Limonite Ave at Avenue San Juan Bautista	
40. Camino Real at Limonite Ave		41. Hall Ave at "A" St		42. SR-60 SB On-Ramp at "A" St		43. Rubidoux Blvd at "B" St		44. Wallace St at "B" St		45. Rubidoux Blvd at Project Driveway	
46. Industrial Driveway at "B" St		47. "A" St at "B" St									

LEGEND:

- = Project Site
- = Study Intersection
- xx/yy = AM/PM Volumes

Note: Volumes reflect PCE adjustments.

FIGURE 25B
HORIZON YEAR 2045
PLUS PROJECT TRAFFIC VOLUMES - OPTION 1

TABLE 19
SUMMARY OF INTERSECTION OPERATION
HORIZON YEAR 2045 PLUS PROJECT OPTION 1 (RUBIDOUX BLVD)

Int. #	Intersection	Traffic Control	AM Peak Hour						PM Peak Hour					
			Without Project		With Project		Change in Delay	Project-Related Effect?	Without Project		With Project		Change in Delay	Project-Related Effect?
			Delay	LOS	Delay	LOS			Delay	LOS	Delay	LOS		
1	Cedar Ave at Slover Ave	S	79.1	E	83.3	F	4.2	Yes	46.1	D	48.3	D	2.2	No
2	Cedar Ave at Santa Ana Ave	S	15.6	B	16.3	B	0.7	No	16.8	B	17.6	B	0.8	No
3	Cedar Ave at Jurupa Ave	S	14.0	B	14.8	B	0.8	No	14.8	B	15.6	B	0.8	No
4	Cedar Ave at Tarragona Dr/El Rivino Rd	S	13.1	B	13.6	B	0.5	No	27.1	C	28.9	C	1.8	No
5	Rubidoux Blvd at Agua Mansa Commerce Park Dwy	S	9.1	A	9.1	A	0.0	No	13.7	B	14.1	B	0.4	No
6	Rubidoux Blvd at Market St/20th St	S	294.7	F	296.7	F	2.0	No	204.5	F	209.8	F	5.3	Yes
7	Agua Mansa Rd at Market St	S	37.6	D	42.0	D	4.4	No	72.9	E	81.9	F	9.0	Yes
8	Rubidoux Blvd at 24th St	U	200.0	F	200.0	F	0.0	No	200.0	F	200.0	F	0.0	No
9	Market St at Hall Ave	U	8685.2	F	10000.0	F	1314.8	Yes	726.0	F	921.0	F	195.0	Yes
10	Hall Ave at 24th St	U	14.7	B	15.3	C	0.6	No	20.2	C	21.9	C	1.7	No
11	Market St at 24th St/Via Cerro	S	68.0	E	69.5	E	1.5	No	83.0	F	84.7	F	1.7	No
12	Rubidoux Blvd at 26th St	U	266.6	F	463.9	F	197.3	Yes	990.2	F	1708.1	F	717.9	Yes
13	Hall Ave at 26th St	U	11.7	B	12.1	B	0.4	No	12.6	B	13.1	B	0.5	No
14	Rubidoux Blvd at 28th St	S	10.6	B	12.3	B	1.7	No	14.6	B	17.7	B	3.1	No
15	Hall Ave at 28th St	U	10.4	B	10.9	B	0.5	No	18.2	C	20.8	C	2.6	No
16	Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp	S	199.1	F	373.7	F	174.6	Yes	97.7	F	225.7	F	128.0	Yes
17	Rubidoux Blvd at SR-60 WB On-Ramp	U	502.8	F	1870.0	F	1367.2	Yes	899.1	F	3186.1	F	2287.0	Yes
18	Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd	S	235.0	F	364.9	F	129.9	Yes	70.5	E	214.4	F	143.9	Yes
19	Frontage Rd at SR-60 EB On-Ramp	U	22.0	C	153.9	F	131.9	Yes	12.1	B	27.4	D	15.3	No
20	Market St at Rivera St	S	15.4	B	15.6	B	0.2	No	19.5	B	19.8	B	0.3	No
21	Market St at SR-60 WB Ramps	S	14.5	B	15.2	B	0.7	No	38.3	D	39.9	D	1.6	No
22	Market St at SR-60 EB Ramps	S	30.2	C	31.0	C	0.8	No	41.1	D	44.3	D	3.2	No
23	Rubidoux Blvd at 34th St	S	16.8	B	19.6	B	2.8	No	22.3	C	25.4	C	3.1	No
24	Wallace St at 34th St	U	8.0	A	8.3	A	0.3	No	10.3	B	10.7	B	0.4	No
25	Crestmore Rd at 34th St	U	9.1	A	9.8	A	0.7	No	9.5	A	10.6	B	1.1	No

TABLE 19
SUMMARY OF INTERSECTION OPERATION
HORIZON YEAR 2045 PLUS PROJECT OPTION 1 (RUBIDOUX BLVD)

Int. #	Intersection	Traffic Control	AM Peak Hour						PM Peak Hour					
			Without Project		With Project		Change in Delay	Project-Related Effect?	Without Project		With Project		Change in Delay	Project-Related Effect?
			Delay	LOS	Delay	LOS			Delay	LOS	Delay	LOS		
26	Wallace St at 36th St	U	9.7	A	10.0	A	0.3	No	10.3	B	10.7	B	0.4	No
27	Crestmore Rd at 36th St	U	9.4	A	9.7	A	0.3	No	8.6	A	8.8	A	0.2	No
28	Valley Way at Mission Blvd	S	33.4	C	33.8	C	0.4	No	39.1	D	40.1	D	1.0	No
29	Golden Ave at Mission Blvd	S	15.1	B	15.7	B	0.6	No	16.1	B	17.6	B	1.5	No
30	Opal St at Mission Blvd	S	20.5	C	21.8	C	1.3	No	15.2	B	16.2	B	1.0	No
31	Pacific Ave at Mission Blvd	S	26.2	C	27.0	C	0.8	No	44.4	D	46.9	D	2.5	No
32	La Rue St at Mission Blvd	S	20.6	C	21.4	C	0.8	No	9.4	A	9.6	A	0.2	No
33	Riverview Dr at Mission Blvd	S	93.4	F	131.9	F	38.5	Yes	128.5	F	177.3	F	48.8	Yes
34	Rubidoux Blvd at Mission Blvd	S	112.3	F	156.3	F	44.0	Yes	134.8	F	193.7	F	58.9	Yes
35	Wallace St at Mission Blvd	S	12.2	B	12.4	B	0.2	No	20.4	C	20.4	C	0.0	No
36	Crestmore Rd at Mission Blvd	S	50.2	D	50.2	D	0.0	No	152.7	F	152.7	F	0.0	No
37	Riverview Dr at 42nd St	S	24.2	C	24.9	C	0.7	No	21.8	C	24.0	C	2.2	No
38	Riverview Dr/Limonite Ave at Pacific Ave	S	14.5	B	14.5	B	0.0	No	16.2	B	16.4	B	0.2	No
39	Limonite Ave at Avenue San Juan Bautista	S	23.8	C	23.8	C	0.0	No	25.7	C	25.7	C	0.0	No
40	Camino Real at Limonite Ave	S	42.8	D	45.1	D	2.3	No	56.3	E	61.9	E	5.6	Yes
41	Hall Ave at "A" St	U	--	--	16.9	C	--	--	--	--	15.1	C	--	--
42	SR-60 SB On-Ramp at "A" St	U	--	--	8.1	A	--	--	--	--	7.9	A	--	--
43	"A" St at "B" St	U	--	--	9.6	A	--	--	--	--	9.6	A	--	--
44	Rubidoux Blvd at "B" St	S	--	--	31.3	C	--	--	--	--	24.7	C	--	--
45	Project Dwy at "B" St	S	--	--	16.1	B	--	--	--	--	20.5	C	--	--
46	Wallace St at "B" St	U	--	--	3.7	A	--	--	--	--	3.7	A	--	--
47	"B" St at Industrial Dwy	U	--	--	11.3	B	--	--	--	--	11.3	B	--	--

Notes:
- Bold values indicate intersections operating at an unacceptable Level of Service
- Intersection operation is based on average intersection delay for signalized intersections.
- Delay values for unsignalized intersections represent the average vehicle delay on the worst (highest delay) intersection approach.

Horizon Year 2045 Plus Project – Option 2

The Horizon Year 2045 Plus Project scenario was analyzed with the addition of the project SR-60 EB On-Ramp. Horizon Year 2045 Plus Project – Option 2 peak hour turning movement volumes at study intersections are shown on Figure 26.

Peak Hour Operating Conditions – Option 2

Intersection Level of Service analysis was conducted for the morning and evening peak hours for the Horizon Year 2045 Plus Project – Option 2 conditions. The results of the intersection analysis are shown on Table 20. Copies of intersection analysis worksheets for this scenario are provided in *Appendix C*.

Review of this table indicates that, with the addition of project traffic, the following study intersections would operate at an unacceptable Level of Service:

- #1 – Cedar Ave at Slover Ave: AM – LOS F
- #6 – Rubidoux Blvd at Market St/20th St: AM – LOS F, PM – LOS F
- #7 – Agua Mansa Rd at Market St: PM – LOS F
- #8 – Rubidoux Blvd at 24th St: AM – LOS F, PM – LOS F
- #9 – Market St at Hall Ave: AM – LOS F, PM – LOS F
- #11 – Market St at 24th St/Via Cerro: AM – LOS E, PM – LOS F
- #12 – Rubidoux Blvd at 26th St: AM – LOS F, PM – LOS F
- #15 – Hall Ave at 28th St: PM – LOS E
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp: AM – LOS F, PM – LOS F
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp: AM – LOS F, PM – LOS F
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd: AM – LOS F, PM – LOS F
- #33 – Riverview Dr at Mission Blvd: AM – LOS F, PM – LOS F
- #34 – Rubidoux Blvd at Mission Blvd: AM – LOS F, PM – LOS F
- #36 – Crestmore Rd at Mission Blvd: PM – LOS F
- #40 – Camino real at Limonite Avenue: PM – LOS E

Based on the significance thresholds presented earlier in this report, the following intersection would experience a project-related effect due to the increase in delay caused by the addition of project traffic:

- #1 – Cedar Ave at Slover Ave
- #6 – Rubidoux Blvd at Market St/20th St
- #7 – Agua Mansa Rd at Market St
- #9 – Market St at Hall Ave
- #11 – Market St at 24th St/Via Cerro
- #12 – Rubidoux Blvd at 26th St
- #15 – Hall Ave at 28th St

- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd
- #33 – Riverview Dr at Mission Blvd
- #34 – Rubidoux Blvd at Mission Blvd
- #40 – Camino Real at Limonite Ave

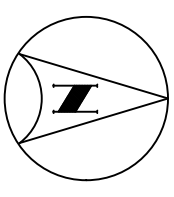
Recommended Improvements are presented in the Recommended Improvement section of this report.



Intersection	AM/PM Volumes	Study Intersection
1. Cedar Ave at Slover Ave	447/385 272/508 106/191 301/200 1050/811 139/140 166/113 294/348 65/66	264/243 940/632 42/98
2. Cedar Ave at Santa Ana Ave	63/87 99/113 82/135 61/75 1039/944 83/61 113/57 111/129 50/46	120/174 901/912 28/57
3. Cedar Ave at Jurupa Ave	36/34 81/193 39/70 25/40 1057/1064 85/92 143/51 91/77 59/64	41/85 873/983 81/104
4. Cedar Ave at Tarragona Dr/El Rivino Rd	13/10 2/5 22/9 3/21 1331/1241 114/152 67/177 1/5 143/300	4/6 745/1152 203/178
5. Rubidoux Blvd at Agua Mansa Commerce Park Driveway	1303/1337 174/117 58/165 116/329	1158/1225 349/235
6. Rubidoux Blvd at Market St/20th St	60/87 177/221 85/174 128/45 909/1151 1104/593 409/700 220/95 380/639	180/92 746/803 856/600
7. Agua Mansa Rd at Market St	334/526 934/898 43/1 285/402 1/0 192/361 373/362 832/792 28/0	10/0 1/3 16/2
8. Rubidoux Blvd at 24th St	0/1 3/19 8/22 0/4 1233/1644 117/120 31/68 266/7 9/35	8/33 1282/1298 19/58
9. Market St at Hall Ave	963/1024 35/48 46/35 14/21	1242/1016 438/257
10. Hall Ave at 24th Street	6/23 466/410 29/49 31/29 34/56 14/6 5/2 95/202 30/95	78/119 18/47 35/98
11. Market St at 24th St/Via Cerro	12/4 35/33 135/238 1/1 905/1127 114/61 102/117 8/42 125/256	37/64 1101/869 171/114
12. Rubidoux Blvd at 26th St	15/44 0/2 48/134 43/17 1059/1546 29/22 16/30 2/1 25/88	137/51 1405/1296 100/88
13. Hall Ave at 26th St	5/27 0/5 137/85 5/4 186/183 1/13 11/6 0/2 49/31	36/111 139/187 11/3
14. Rubidoux Blvd at 28th St	37/48 12/27 113/112 20/40 1274/1889 37/45 11/21 16/42 58/70	66/128 1575/1367 62/75
15. Hall Ave at 28th St	32/47 63/180 66/100 51/63 265/196 235/415 46/0	22/53 146/311 3/4
16. Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp	60/43 271/229 30/31 1290/1793 358/328 95/41 1004/1263	105/115 1187/1140
17. Rubidoux Blvd at SR-60 WB On-Ramp	950/1023 1728/2221	576/606 1273/1235
18. Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd	1314/1971 417/274	1034/1215 1233/956
19. 30th St at Frontage Rd/SR-60 EB On-Ramp	1011/724 308/238	
20. Market St at Rivera St	4/2 0/15 13/62 7/0 959/1396 64/125 78/100 292/252	26/6 1264/1167 349/261
21. Market St at SR-60 WB Ramps	233/241 1068/1425	1132/882 170/147
22. Market St at SR-60 EB Ramps	181/184 490/819 718/721	641/828 214/122
23. Rubidoux at 34th St	141/117 40/55 21/33 54/136 1407/2006 56/250 123/69 8/21 21/23	25/26 1774/1533 56/139
24. Wallace St at 34th St	4/17 69/201 64/150 3/10 50/65 16/31 10/30 63/59 9/6	53/65 69/91 8/13

Note: Volumes reflect PCE adjustments.

FIGURE 26A
HORIZON YEAR 2045
PLUS PROJECT TRAFFIC VOLUMES - OPTION 2

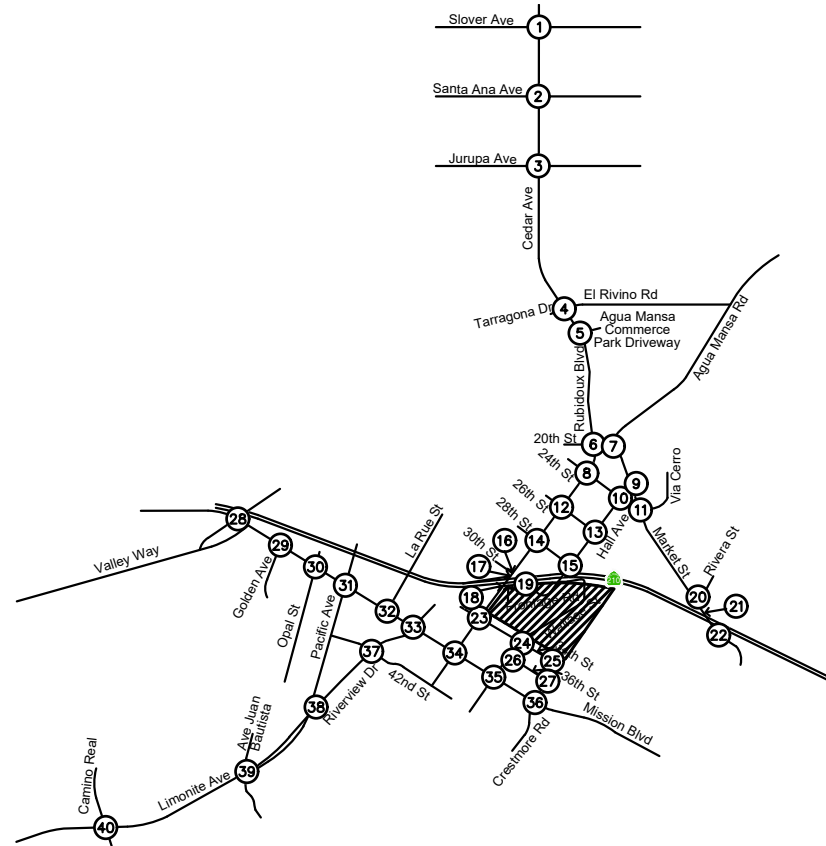


NOT TO SCALE

LEGEND:

- = Project Site
- = Study Intersection
- = AM/PM Volumes





NOT TO SCALE

25. Crestmore Rd at 34th St		26. Wallace St at 36th St		27. Crestmore Rd at 36th St		28. Valley Way at Mission Blvd									
<p>← 38/65</p> <p>← 2/3</p> <p>← 2/1</p> <p>80/195 →</p> <p>3/1 →</p> <p>60/66 →</p> <p>22/27 →</p> <p>3/3 →</p>		<p>← 102/147</p> <p>← 6/12</p> <p>8/3 →</p> <p>10/7 →</p> <p>122/179 →</p> <p>9/7 →</p>		<p>← 117/126</p> <p>1/0 →</p> <p>4/6 →</p> <p>98/165 →</p>		<p>← 342/323</p> <p>← 352/414</p> <p>← 478/485</p> <p>← 693/610</p> <p>← 303/281</p> <p>← 81/53</p> <p>392/776 →</p> <p>535/974 →</p> <p>46/62 →</p> <p>18/33 →</p> <p>423/501 →</p> <p>35/67 →</p>									
29. Golden Ave at Mission Blvd		30. Opal St at Mission Blvd		31. Pacific Ave at Mission Blvd		32. La Rue St at Mission Blvd		33. Riverview Dr at Mission Blvd							
<p>← 3/45</p> <p>← 0/112</p> <p>← 4/249</p> <p>← 1168/1551</p> <p>← 38/54</p> <p>18/71 →</p> <p>1134/897 →</p> <p>94/4 →</p> <p>287/0 →</p> <p>0/17 →</p> <p>59/26 →</p>		<p>← 150/13</p> <p>← 36/11</p> <p>← 104/16</p> <p>← 58/14</p> <p>← 959/925</p> <p>← 258/177</p> <p>90/42 →</p> <p>989/1444 →</p> <p>91/99 →</p> <p>112/69 →</p> <p>17/10 →</p> <p>177/104 →</p>		<p>← 135/125</p> <p>← 179/163</p> <p>← 101/184</p> <p>← 156/137</p> <p>← 1011/950</p> <p>← 185/293</p> <p>163/173 →</p> <p>981/1603 →</p> <p>56/160 →</p> <p>172/67 →</p> <p>201/116 →</p> <p>216/182 →</p>		<p>← 117/51</p> <p>← 160/85</p> <p>← 201/77</p> <p>← 1096/1061</p> <p>266/120 →</p> <p>1130/1410 →</p>		<p>← 50/44</p> <p>← 56/56</p> <p>← 29/53</p> <p>← 29/69</p> <p>← 900/960</p> <p>← 527/772</p> <p>68/92 →</p> <p>827/1501 →</p> <p>228/240 →</p> <p>307/234 →</p> <p>72/68 →</p> <p>675/544 →</p>							
34. Rubidoux Blvd at Mission Blvd		35. Wallace St at Mission Blvd		36. Crestmore Rd at Mission Blvd		37. Riverview Dr at 42nd St		38. Riverview Dr/Limonite Ave at Pacific Ave		39. Limonite Ave at Avenue San Juan Bautista		40. Camino Real at Limonite Ave		41. Hall Ave at "A" St	
<p>← 743/972</p> <p>← 168/245</p> <p>← 298/423</p> <p>← 326/323</p> <p>← 611/775</p> <p>← 116/207</p> <p>888/837 →</p> <p>612/1272 →</p> <p>15/36 →</p> <p>61/48 →</p> <p>299/157 →</p> <p>51/65 →</p>		<p>← 107/79</p> <p>← 8/44</p> <p>← 18/84</p> <p>← 44/78</p> <p>← 1279/1255</p> <p>← 37/83</p> <p>100/142 →</p> <p>1305/1410 →</p> <p>51/134 →</p> <p>67/116 →</p> <p>8/23 →</p> <p>26/100 →</p>		<p>← 20/11</p> <p>← 24/48</p> <p>← 106/213</p> <p>← 36/81</p> <p>← 717/1007</p> <p>← 350/621</p> <p>8/9 →</p> <p>721/1657 →</p> <p>44/142 →</p> <p>71/88 →</p> <p>34/26 →</p> <p>732/593 →</p>		<p>← 31/53</p> <p>← 764/933</p> <p>← 55/67</p> <p>← 157/28</p> <p>← 78/81</p> <p>← 192/142</p> <p>24/32 →</p> <p>66/135 →</p> <p>17/47 →</p> <p>13/33 →</p> <p>959/842 →</p> <p>166/169 →</p>		<p>← 162/78</p> <p>← 693/1019</p> <p>147/95 →</p> <p>189/216 →</p> <p>234/299 →</p> <p>946/1145 →</p>		<p>← 65/106</p> <p>← 902/1315</p> <p>← 88/168</p> <p>← 164/140</p> <p>← 17/12</p> <p>← 18/20</p> <p>62/71 →</p> <p>6/8 →</p> <p>10/4 →</p> <p>23/22 →</p> <p>876/1039 →</p> <p>13/24 →</p>		<p>← 254/244</p> <p>← 83/184</p> <p>← 80/79</p> <p>← 92/63</p> <p>← 1048/1037</p> <p>← 119/210</p> <p>170/263 →</p> <p>977/1374 →</p> <p>76/145 →</p> <p>188/88 →</p> <p>135/125 →</p> <p>233/232 →</p>		<p>← 163/88</p> <p>← 53/169</p> <p>579/352 →</p>	
42. SR-60 SB On-Ramp at "A" St		43. Rubidoux Blvd at "B" St		44. Wallace St at "B" St		45. Rubidoux Blvd at Project Driveway		46. Industrial Driveway at "B" St		47. "A" St at "B" St					
<p>← 49/206</p> <p>← 53/169</p> <p>330/220 →</p> <p>442/240 →</p>		<p>← 47/180</p> <p>← 19/71</p> <p>← 21/89</p> <p>← 19/71</p> <p>211/109 →</p> <p>119/70 →</p> <p>113/62 →</p> <p>34/107 →</p> <p>39/25 →</p> <p>39/25 →</p>		<p>← 1465/2273</p> <p>← 458/817</p> <p>← 479/748</p> <p>← 186/332</p> <p>2084/1689 →</p> <p>136/175 →</p>		<p>← 232/397</p> <p>← 17/28</p> <p>← 21/28</p> <p>← 403/628</p> <p>← 3/2</p> <p>225/319 →</p> <p>303/631 →</p> <p>66/42 →</p> <p>30/55 →</p> <p>2/3 →</p>		<p>← 31/121</p> <p>← 1/3</p> <p>← 11/33</p> <p>← 18/12</p> <p>← 310/142</p> <p>57/35 →</p> <p>86/315 →</p> <p>9/15 →</p> <p>32/49 →</p> <p>7/4 →</p>		<p>← 16/8</p> <p>← 43/157</p> <p>← 92/39</p> <p>← 26/91</p> <p>8/16 →</p> <p>4/2 →</p> <p>78/49 →</p>					

LEGEND:

- = Project Site
- = Study Intersection
- xx/yy = AM/PM Volumes

Note: Volumes reflect PCE adjustments.

FIGURE 26B
HORIZON YEAR 2045
PLUS PROJECT TRAFFIC VOLUMES - OPTION 2



TABLE 20
SUMMARY OF INTERSECTION OPERATION
HORIZON YEAR 2045 PLUS PROJECT OPTION 2 (HALL AVE/26TH ST)

Int. #	Intersection	Traffic Control	AM Peak Hour						PM Peak Hour					
			Without Project		With Project		Change in Delay	Project-Related Effect?	Without Project		With Project		Change in Delay	Project-Related Effect?
			Delay	LOS	Delay	LOS			Delay	LOS	Delay	LOS		
1	Cedar Ave at Slover Ave	S	79.1	E	83.3	F	4.2	Yes	46.1	D	49.4	D	3.3	No
2	Cedar Ave at Santa Ana Ave	S	15.6	B	16.3	B	0.7	No	16.8	B	18.0	B	1.2	No
3	Cedar Ave at Jurupa Ave	S	14.0	B	14.8	B	0.8	No	14.8	B	16.1	B	1.3	No
4	Cedar Ave at Tarragona Dr/El Rivino Rd	S	13.1	B	13.6	B	0.5	No	27.1	C	30.8	C	3.7	No
5	Rubidoux Blvd at Agua Mansa Commerce Park Dwy	S	9.1	A	9.1	A	0.0	No	13.7	B	14.2	B	0.5	No
6	Rubidoux Blvd at Market St/20th St	S	294.7	F	296.7	F	2.0	No	204.5	F	212.6	F	8.1	Yes
7	Agua Mansa Rd at Market St	S	37.6	D	42.2	D	4.6	No	72.9	E	85.0	F	12.1	Yes
8	Rubidoux Blvd at 24th St	U	200.0	F	200.0	F	0.0	No	200.0	F	200.0	F	0.0	No
9	Market St at Hall Ave	U	8685.2	F	10000.0	F	1314.8	Yes	726.0	F	1254.8	F	528.8	Yes
10	Hall Ave at 24th St	U	14.7	B	15.6	C	0.9	No	20.2	C	24.1	C	3.9	No
11	Market St at 24th St/Via Cerro	S	68.0	E	69.5	E	1.5	No	83.0	F	83.9	F	0.9	No
12	Rubidoux Blvd at 26th St	U	266.6	F	1396.7	F	1130.1	Yes	990.2	F	5812.8	F	4822.6	Yes
13	Hall Ave at 26th St	U	11.7	B	15.7	C	4.0	No	12.6	B	19.2	C	6.6	No
14	Rubidoux Blvd at 28th St	S	10.6	B	12.5	B	1.9	No	14.6	B	19.6	B	5.0	No
15	Hall Ave at 28th St	U	10.4	B	13.1	B	2.7	No	18.2	C	50.0	E	31.8	Yes
16	Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp	S	199.1	F	351.6	F	152.5	Yes	97.7	F	480.6	F	382.9	Yes
17	Rubidoux Blvd at SR-60 WB On-Ramp	U	502.8	F	1616.9	F	1114.1	Yes	899.1	F	4530.4	F	3631.3	Yes
18	Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd	S	235.0	F	360.8	F	125.8	Yes	70.5	E	338.8	F	268.3	Yes
19	Frontage Rd at SR-60 EB On-Ramp	U	22.0	C	--	--	--	--	12.1	B	--	--	--	--
20	Market St at Rivera St	S	15.4	B	16.5	B	1.1	No	19.5	B	19.8	B	0.3	No
21	Market St at SR-60 WB Ramps	S	14.5	B	15.2	B	0.7	No	38.3	D	40.9	D	2.6	No
22	Market St at SR-60 EB Ramps	S	30.2	C	31.0	C	0.8	No	41.1	D	50.0	D	8.9	No
23	Rubidoux Blvd at 34th St	S	16.8	B	19.6	B	2.8	No	22.3	C	27.8	C	5.5	No
24	Wallace St at 34th St	U	8.0	A	8.3	A	0.3	No	10.3	B	11.0	B	0.7	No
25	Crestmore Rd at 34th St	U	9.1	A	9.8	A	0.7	No	9.5	A	10.8	B	1.3	No

TABLE 20
SUMMARY OF INTERSECTION OPERATION
HORIZON YEAR 2045 PLUS PROJECT OPTION 2 (HALL AVE/26TH ST)

Int. #	Intersection	Traffic Control	AM Peak Hour						PM Peak Hour					
			Without Project		With Project		Change in Delay	Project-Related Effect?	Without Project		With Project		Change in Delay	Project-Related Effect?
			Delay	LOS	Delay	LOS			Delay	LOS	Delay	LOS		
26	Wallace St at 36th St	U	9.7	A	10.0	A	0.3	No	10.3	B	10.9	B	0.6	No
27	Crestmore Rd at 36th St	U	9.4	A	9.7	A	0.3	No	8.6	A	9.0	A	0.4	No
28	Valley Way at Mission Blvd	S	33.4	C	33.8	C	0.4	No	39.1	D	40.9	D	1.8	No
29	Golden Ave at Mission Blvd	S	15.1	B	15.7	B	0.6	No	16.1	B	16.3	B	0.2	No
30	Opal St at Mission Blvd	S	20.5	C	21.8	C	1.3	No	15.2	B	16.5	B	1.3	No
31	Pacific Ave at Mission Blvd	S	26.2	C	27.0	C	0.8	No	44.4	D	49.6	D	5.2	No
32	La Rue St at Mission Blvd	S	20.6	C	21.4	C	0.8	No	9.4	A	9.7	A	0.3	No
33	Riverview Dr at Mission Blvd	S	93.4	F	131.9	F	38.5	Yes	128.5	F	192.5	F	64.0	Yes
34	Rubidoux Blvd at Mission Blvd	S	112.3	F	156.3	F	44.0	Yes	134.8	F	222.3	F	87.5	Yes
35	Wallace St at Mission Blvd	S	12.2	B	12.4	B	0.2	No	20.4	C	20.4	C	0.0	No
36	Crestmore Rd at Mission Blvd	S	50.2	D	50.2	D	0.0	No	152.7	F	152.7	F	0.0	No
37	Riverview Dr at 42nd St	S	24.2	C	24.9	C	0.7	No	21.8	C	25.7	C	3.9	No
38	Riverview Dr/Limonite Ave at Pacific Ave	S	14.5	B	14.5	B	0.0	No	16.2	B	16.8	B	0.6	No
39	Limonite Ave at Avenue San Juan Bautista	S	23.8	C	23.8	C	0.0	No	25.7	C	25.7	C	0.0	No
40	Camino Real at Limonite Ave	S	42.8	D	45.1	D	2.3	No	56.3	E	63.7	E	7.4	Yes
41	Hall Ave at "A" St	U	--	--	17.5	C	--	--	--	--	11.7	B	--	--
42	SR-60 SB On-Ramp at "A" St	U	--	--	8.2	A	--	--	--	--	8.9	A	--	--
43	"A" St at "B" St	U	--	--	9.6	A	--	--	--	--	11.7	B	--	--
44	Rubidoux Blvd at "B" St	S	--	--	34.3	C	--	--	--	--	48.3	D	--	--
45	Project Dwy at "B" St	S	--	--	13.4	B	--	--	--	--	16.7	B	--	--
46	Wallace St at "B" St	U	--	--	3.7	A	--	--	--	--	4.0	A	--	--
47	"B" St at Industrial Dwy	U	--	--	11.5	B	--	--	--	--	11.9	B	--	--

Notes:
- Bold values indicate intersections operating at an unacceptable Level of Service
- Intersection operation is based on average intersection delay for signalized intersections.
- Delay values for unsignalized intersections represent the average vehicle delay on the worst (highest delay) intersection approach.

Horizon Year 2045 Plus Project – Option 3

The Horizon Year 2045 Plus Project scenario was analyzed with the addition of the project SR-60 EB On-Ramp. Horizon Year 2045 Plus Project – Option 3 peak hour turning movement volumes at study intersections are shown on Figure 27.

Peak Hour Operating Conditions – Option 3

Intersection Level of Service analysis was conducted for the morning and evening peak hours for the Horizon Year 2045 Plus Project – Option 3 conditions. The results of the intersection analysis are shown on Table 21. Copies of intersection analysis worksheets for this scenario are provided in *Appendix C*.

Review of this table indicates that, with the addition of project traffic, the following study intersections would operate at an unacceptable Level of Service:

- #1 – Cedar Ave at Slover Ave: AM – LOS F
- #6 – Rubidoux Blvd at Market St/20th St: AM – LOS F, PM – LOS F
- #7 – Agua Mansa Rd at Market St: PM – LOS F
- #8 – Rubidoux Blvd at 24th St: AM – LOS F, PM – LOS F
- #9 – Market St at Hall Ave: AM – LOS F, PM – LOS F
- #10 – Hall Ave at 24th St: PM – LOS F
- #11 – Market St at 24th St/Via Cerro: AM – LOS E, PM – LOS F
- #12 – Rubidoux Blvd at 26th St: AM – LOS F, PM – LOS F
- #15 – Hall Ave at 28th St: PM – LOS F
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp: AM – LOS F, PM – LOS F
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp: AM – LOS F, PM – LOS F
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd: AM – LOS F, PM – LOS F
- #22 – Market St at SR-60 EB Ramps: PM – LOS E
- #33 – Riverview Dr at Mission Blvd: AM – LOS F, PM – LOS F
- #34 – Rubidoux Blvd at Mission Blvd: AM – LOS F, PM – LOS F
- #36 – Crestmore Rd at Mission Blvd: PM – LOS F
- #40 – Camino real at Limonite Avenue: PM – LOS E

Based on the significance thresholds presented earlier in this report, the following intersection would experience a project-related effect due to the increase in delay caused by the addition of project traffic:

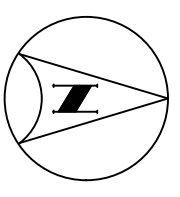
- #1 – Cedar Ave at Slover Ave
- #6 – Rubidoux Blvd at Market St/20th St
- #7 – Agua Mansa Rd at Market St
- #9 – Market St at Hall Ave

- #10 – Hall Ave at 24th St
- #11 – Market St at 24th St/Via Cerro
- #12 – Rubidoux Blvd at 26th St
- #15 – Hall Ave at 28th St
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd
- #22 – Market St at SR-60 EB Ramps
- #33 – Riverview Dr at Mission Blvd
- #34 – Rubidoux Blvd at Mission Blvd
- #40 – Camino Real at Limonite Ave

Recommended Improvements are presented in the Recommended Improvement section of this report.



Intersection	AM/PM Volumes	Study Intersection
1. Cedar Ave at Slover Ave	447/385 272/508 106/191 301/200 1050/811 139/140 166/113 294/348 65/66	264/243 940/632 42/98
2. Cedar Ave at Santa Ana Ave	63/87 99/113 82/135 61/75 1039/944 83/61 113/57 111/129 50/46	120/174 901/912 28/57
3. Cedar Ave at Jurupa Ave	36/34 81/193 39/70 25/40 1057/1064 85/92 143/51 91/77 59/64	41/85 873/983 81/104
4. Cedar Ave at Tarragona Dr/El Rivino Rd	13/10 2/5 22/9 3/21 1331/1241 114/152 67/177 1/5 143/300	4/6 745/1152 203/178
5. Rubidoux Blvd at Agua Mansa Commerce Park Driveway	1303/1337 174/117 58/165 116/329	1158/1225 349/235
6. Rubidoux Blvd at Market St/20th St	60/87 177/221 85/174 128/45 900/1147 1113/597 424/743 220/95 383/676	180/92 731/760 853/591
7. Agua Mansa Rd at Market St	331/517 943/902 43/1 276/398 1/0 201/365 376/371 859/876 28/0	10/0 1/3 16/2
8. Rubidoux Blvd at 24th St	0/1 3/19 8/22 0/4 1227/1677 117/120 19/34 266/7 9/35	8/33 1276/1280 19/58
9. Market St at Hall Ave	963/1024 53/56 1242/1016 484/276	76/128 23/53
10. Hall Ave at 24th Street	6/23 466/410 29/49 31/29 98/83 14/6 5/2 95/202 30/95	66/85 57/172 35/98
11. Market St at 24th St/Via Cerro	12/4 35/33 135/238 1/1 914/1159 114/61 102/117 8/42 125/256	37/64 1147/888 171/114
12. Rubidoux Blvd at 26th St	15/44 0/2 48/134 43/17 1071/1587 11/14 10/12 2/1 4/15	137/51 1405/1296 54/49
13. Hall Ave at 26th St	5/27 0/5 73/58 5/4 250/211 1/13 11/6 0/2 49/31	9/20 166/278 11/3
14. Rubidoux Blvd at 28th St	37/48 12/27 113/112 20/40 1265/1857 37/45 11/21 16/42 58/70	66/128 1529/1348 62/75
15. Hall Ave at 28th St	32/47 63/180 66/100 51/63 265/196 235/415 46/0	22/53 146/311 3/4
16. Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp	60/43 271/229 30/31 1281/1761 312/309 95/141 1004/1263	105/115 1187/1140
17. Rubidoux Blvd at SR-60 WB On-Ramp	941/991 1728/2221	576/606 1273/1235
18. Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd	1314/1971 417/274	1034/1215 1233/956
19. 30th St at Frontage Rd/SR-60 EB On-Ramp	1011/724 308/238	
20. Market St at Rivera St	4/2 0/15 13/62 7/0 968/1428 64/125 78/100 292/252	26/6 1310/1187 349/261
21. Market St at SR-60 WB Ramps	242/273 1068/1425	1178/902 170/147
22. Market St at SR-60 EB Ramps	181/184 490/819 718/721	641/828 214/122
23. Rubidoux at 34th St	141/117 40/55 21/33 54/136 1407/2006 56/250 123/69 8/21 21/23	25/26 1774/1533 56/139
24. Wallace St at 34th St	4/17 69/201 64/150 3/10 50/65 16/31 10/30 63/59 9/6	53/65 69/91 8/13



NOT TO SCALE

LEGEND:

= Project Site

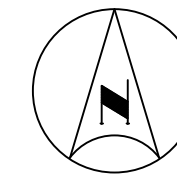
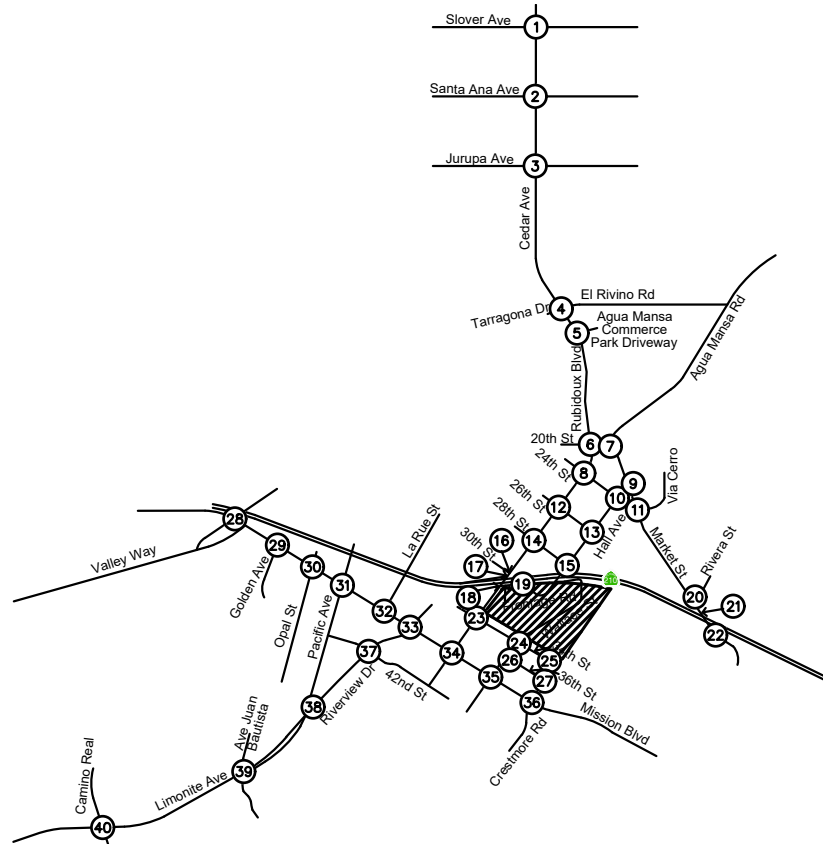
= Study Intersection

= AM/PM Volumes

Note: Volumes reflect PCE adjustments.

FIGURE 27A
HORIZON YEAR 2045
PLUS PROJECT TRAFFIC VOLUMES - OPTION 3





NOT TO SCALE

25. Crestmore Rd at 34th St		26. Wallace St at 36th St		27. Crestmore Rd at 36th St		28. Valley Way at Mission Blvd	
29. Golden Ave at Mission Blvd		30. Opal St at Mission Blvd		31. Pacific Ave at Mission Blvd		32. La Rue St at Mission Blvd	
33. Riverview Dr at Mission Blvd		34. Rubidoux Blvd at Mission Blvd		35. Wallace St at Mission Blvd		36. Crestmore Rd at Mission Blvd	
37. Riverview Dr at 42nd St		38. Riverview Dr/Limonite Ave at Pacific Ave		39. Limonite Ave at Avenue San Juan Bautista		40. Camino Real at Limonite Ave	
41. Hall Ave at "A" St		42. SR-60 SB On-Ramp at "A" St		43. Rubidoux Blvd at "B" St		44. Wallace St at "B" St	
45. Rubidoux Blvd at Project Driveway		46. Industrial Driveway at "B" St		47. "A" St at "B" St			

LEGEND:

- = Project Site
- = Study Intersection
- xx/yy = AM/PM Volumes

Note: Volumes reflect PCE adjustments.

FIGURE 27B
HORIZON YEAR 2045
PLUS PROJECT TRAFFIC VOLUMES - OPTION 3

TABLE 21
SUMMARY OF INTERSECTION OPERATION
HORIZON YEAR 2045 PLUS PROJECT OPTION 3 (HALL AVE/MARKET ST/RUBIDOUX BLVD)

Int. #	Intersection	Traffic Control	AM Peak Hour						PM Peak Hour					
			Without Project		With Project		Change in Delay	Project-Related Effect?	Without Project		With Project		Change in Delay	Project-Related Effect?
			Delay	LOS	Delay	LOS			Delay	LOS	Delay	LOS		
1	Cedar Ave at Slover Ave	S	79.1	E	83.3	F	4.2	Yes	46.1	D	49.4	D	3.3	No
2	Cedar Ave at Santa Ana Ave	S	15.6	B	16.3	B	0.7	No	16.8	B	18.0	B	1.2	No
3	Cedar Ave at Jurupa Ave	S	14.0	B	14.8	B	0.8	No	14.8	B	16.1	B	1.3	No
4	Cedar Ave at Tarragona Dr/El Rivino Rd	S	13.1	B	13.6	B	0.5	No	27.1	C	30.8	C	3.7	No
5	Rubidoux Blvd at Agua Mansa Commerce Park Dwy	S	9.1	A	9.1	A	0.0	No	13.7	B	14.2	B	0.5	No
6	Rubidoux Blvd at Market St/20th St	S	294.7	F	294.7	F	0.0	No	204.5	F	223.2	F	18.7	Yes
7	Agua Mansa Rd at Market St	S	37.6	D	44.5	D	6.9	No	72.9	E	96.3	F	23.4	Yes
8	Rubidoux Blvd at 24th St	U	200.0	F	200.0	F	0.0	No	200.0	F	200.0	F	0.0	No
9	Market St at Hall Ave	U	8685.2	F	10000.0	F	1314.8	Yes	726.0	F	4979.1	F	4253.1	Yes
10	Hall Ave at 24th St	U	14.7	B	17.8	C	3.1	No	20.2	C	82.9	F	62.7	Yes
11	Market St at 24th St/Via Cerro	S	68.0	E	77.1	E	9.1	Yes	83.0	F	124.0	F	41.0	Yes
12	Rubidoux Blvd at 26th St	U	266.6	F	463.0	F	196.4	Yes	990.2	F	2158.0	F	1167.8	Yes
13	Hall Ave at 26th St	U	11.7	B	14.6	B	2.9	No	12.6	B	21.4	C	8.8	No
14	Rubidoux Blvd at 28th St	S	10.6	B	12.3	B	1.7	No	14.6	B	19.1	B	4.5	No
15	Hall Ave at 28th St	U	10.4	B	13.1	B	2.7	No	18.2	C	114.7	F	96.5	Yes
16	Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp	S	199.1	F	351.6	F	152.5	Yes	97.7	F	480.6	F	382.9	Yes
17	Rubidoux Blvd at SR-60 WB On-Ramp	U	502.8	F	1599.9	F	1097.1	Yes	899.1	F	4377.2	F	3478.1	Yes
18	Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd	S	235.0	F	360.8	F	125.8	Yes	70.5	E	338.8	F	268.3	Yes
19	Frontage Rd at SR-60 EB On-Ramp	U	22.0	C	--	--	--	--	12.1	B	--	--	--	--
20	Market St at Rivera St	S	15.4	B	15.7	B	0.3	No	19.5	B	20.5	C	1.0	No
21	Market St at SR-60 WB Ramps	S	14.5	B	15.2	B	0.7	No	38.3	D	50.8	D	12.5	No
22	Market St at SR-60 EB Ramps	S	30.2	C	31.0	C	0.8	No	41.1	D	68.7	E	27.6	Yes
23	Rubidoux Blvd at 34th St	S	16.8	B	19.6	B	2.8	No	22.3	C	27.8	C	5.5	No
24	Wallace St at 34th St	U	8.0	A	8.3	A	0.3	No	10.3	B	11.0	B	0.7	No
25	Crestmore Rd at 34th St	U	9.1	A	9.8	A	0.7	No	9.5	A	10.8	B	1.3	No

TABLE 21
SUMMARY OF INTERSECTION OPERATION
HORIZON YEAR 2045 PLUS PROJECT OPTION 3 (HALL AVE/MARKET ST/RUBIDOUX BLVD)

Int. #	Intersection	Traffic Control	AM Peak Hour						PM Peak Hour					
			Without Project		With Project		Change in Delay	Project-Related Effect?	Without Project		With Project		Change in Delay	Project-Related Effect?
			Delay	LOS	Delay	LOS			Delay	LOS	Delay	LOS		
26	Wallace St at 36th St	U	9.7	A	10.0	A	0.3	No	10.3	B	10.9	B	0.6	No
27	Crestmore Rd at 36th St	U	9.4	A	9.7	A	0.3	No	8.6	A	9.0	A	0.4	No
28	Valley Way at Mission Blvd	S	33.4	C	33.8	C	0.4	No	39.1	D	40.9	D	1.8	No
29	Golden Ave at Mission Blvd	S	15.1	B	15.7	B	0.6	No	16.1	B	16.3	B	0.2	No
30	Opal St at Mission Blvd	S	20.5	C	21.8	C	1.3	No	15.2	B	16.5	B	1.3	No
31	Pacific Ave at Mission Blvd	S	26.2	C	27.0	C	0.8	No	44.4	D	49.6	D	5.2	No
32	La Rue St at Mission Blvd	S	20.6	C	21.4	C	0.8	No	9.4	A	9.7	A	0.3	No
33	Riverview Dr at Mission Blvd	S	93.4	F	131.9	F	38.5	Yes	128.5	F	192.5	F	64.0	Yes
34	Rubidoux Blvd at Mission Blvd	S	112.3	F	121.3	F	9.0	Yes	134.8	F	222.3	F	87.5	Yes
35	Wallace St at Mission Blvd	S	12.2	B	12.4	B	0.2	No	20.4	C	20.4	C	0.0	No
36	Crestmore Rd at Mission Blvd	S	50.2	D	50.2	D	0.0	No	152.7	F	152.7	F	0.0	No
37	Riverview Dr at 42nd St	S	24.2	C	24.9	C	0.7	No	21.8	C	25.7	C	3.9	No
38	Riverview Dr/Limonite Ave at Pacific Ave	S	14.5	B	14.5	B	0.0	No	16.2	B	16.8	B	0.6	No
39	Limonite Ave at Avenue San Juan Bautista	S	23.8	C	23.8	C	0.0	No	25.7	C	25.7	C	0.0	No
40	Camino Real at Limonite Ave	S	42.8	D	45.1	D	2.3	No	56.3	E	63.7	E	7.4	Yes
41	Hall Ave at "A" St	U	--	--	17.5	C	--	--	--	--	9.9	A	--	--
42	SR-60 SB On-Ramp at "A" St	U	--	--	8.2	A	--	--	--	--	0.0	A	--	--
43	"A" St at "B" St	U	--	--	9.6	A	--	--	--	--	11.7	B	--	--
44	Rubidoux Blvd at "B" St	S	--	--	34.3	C	--	--	--	--	48.3	D	--	--
45	Project Dwy at "B" St	S	--	--	20.8	C	--	--	--	--	32.3	C	--	--
46	Wallace St at "B" St	U	--	--	3.7	A	--	--	--	--	4.0	A	--	--
47	"B" St at Industrial Dwy	U	--	--	11.5	B	--	--	--	--	11.9	B	--	--

Notes:
- Bold values indicate intersections operating at an unacceptable Level of Service
- Intersection operation is based on average intersection delay for signalized intersections.
- Delay values for unsignalized intersections represent the average vehicle delay on the worst (highest delay) intersection approach.

SITE ACCESS ANALYSIS

Vehicular access for the project site would be via three intersections on Rubidoux Boulevard, Hall Avenue, and Wallace Street. These intersections would connect the internal project roadways to the existing Jurupa Valley network. The intersections would consist of one signalized intersection on Rubidoux Boulevard, one unsignalized intersection on Hall Avenue, and one roundabout on Wallace Street.

INTERCHANGE QUEUING

Per request from City staff, queue lengths at the Rubidoux Blvd and SR-60 interchange were assessed at the following locations:

- Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp
 - Westbound Left Turn
- Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd
 - Eastbound Left Turn

A summary of left-turn pocket storage capacity as well as the 95th percentile queue lengths at the locations noted above are shown on Tables 22, 23, 24, 25, and 26 for all scenarios. The table shows that the 95th percentile queue would exceed the available storage capacity under Existing conditions and subsequent scenarios at the following locations:

- Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp
 - Westbound Left Turn
- Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd
 - Eastbound Left Turn

With implementation of the recommended improvements presented in the Recommended Improvement section, all the left-turn pockets would continue to not have enough storage capacity. However, with the Additional Recommended Improvements, the left-turn pockets would have enough storage capacity. The 95th percentile queue lengths with the recommended improvements are shown on Tables 27 and 28. Interchange queuing analysis worksheets are provided in *Appendix G*.

TABLE 22
SUMMARY OF INTERCHANGE POCKET STORAGE CAPACITY
EXISTING AND OPENING YEAR 2023

Intersection	Peak Hour Queue Length (ft/In)	Left-Turn Movement	Storage Capacity (ft/In)	Existing	Opening Year 2023 Cumulative	Opening Year 2023 Cumulative Plus Project (Option 1)	Opening Year 2023 Cumulative Plus Project (Option 2)	Opening Year 2023 Cumulative Plus Project (Option 3)
				95th Percentile	95th Percentile	95th Percentile	95th Percentile	95th Percentile
Rubidoux Boulevard at 30th St/SR-60 WB Off-Ramp	AM Peak Hour	WBL/T/R	1250	#329	#746	#1306	#1918	#1918
	PM Peak Hour			#398	#1121	#2017	#1510	#1510
Rubidoux Blvd at SR-60 EB Off-Ramp	AM Peak Hour	EBL	1100	#250	#1174	#1175	#1153	#1153
	PM Peak Hour			#267	#962	#1046	#1143	#1143

Note: Synchro displays a # when the 95th percentile volume exceeds the capacity and queue may be longer.

TABLE 23
SUMMARY OF INTERCHANGE POCKET STORAGE CAPACITY
OPENING YEAR 2026 - NO RAMP

Intersection	Peak Hour Queue Length (ft/In)	Left-Turn Movement	Storage Capacity (ft/In)	Opening Year 2026 Cumulative	Opening Year 2026 Cumulative Plus Project (Option 1)	Opening Year 2026 Cumulative Plus Project (Option 2)	Opening Year 2026 Cumulative Plus Project (Option 3)
				95th Percentile	95th Percentile	95th Percentile	95th Percentile
Rubidoux Boulevard at 30th St/SR-60 WB Off-Ramp	AM Peak Hour	WBL/T/R	1250	#1003	#1873	#2148	#2148
	PM Peak Hour			#828	#1622	#2001	#2001
Rubidoux Blvd at SR-60 EB Off-Ramp	AM Peak Hour	EBL	1100	#974	#1121	#1383	#1383
	PM Peak Hour			#818	#883	#1245	#1245

Note: Synchro displays a # when the 95th percentile volume exceeds the capacity and queue may be longer.

TABLE 24
SUMMARY OF INTERCHANGE POCKET STORAGE CAPACITY
OPENING YEAR 2026

Intersection	Peak Hour Queue Length (ft/In)	Left-Turn Movement	Storage Capacity (ft/In)	Opening Year 2026 Cumulative	Opening Year 2026 Cumulative Plus Project (Option 1)	Opening Year 2026 Cumulative Plus Project (Option 2)	Opening Year 2026 Cumulative Plus Project (Option 3)
				95th Percentile	95th Percentile	95th Percentile	95th Percentile
Rubidoux Boulevard at 30th St/SR-60 WB Off-Ramp	AM Peak Hour	WBL/T/R	1250	#1003	#1873	#1980	#1980
	PM Peak Hour			#828	#1622	#2001	#2001
Rubidoux Blvd at SR-60 EB Off-Ramp	AM Peak Hour	EBL	1100	#974	#1121	#1383	#1383
	PM Peak Hour			#818	#883	#1245	#1245

Note: Synchro displays a # when the 95th percentile volume exceeds the capacity and queue may be longer.

TABLE 25
SUMMARY OF INTERCHANGE POCKET STORAGE CAPACITY
HORIZON YEAR 2045 - NO RAMP

Intersection	Peak Hour Queue Length (ft/In)	Left-Turn Movement	Storage Capacity (ft/In)	Horizon Year 2045	Horizon Year 2045 Plus Project (Option 1)	Horizon Year 2045 Plus Project (Option 2)	Horizon Year 2045 Plus Project (Option 3)
				95th Percentile	95th Percentile	95th Percentile	95th Percentile
Rubidoux Boulevard at 30th St/SR-60 WB Off-Ramp	AM Peak Hour	WBL/T/R	1250	#1297	#1915	#2187	#2187
	PM Peak Hour			#973	#1643	#2205	#2205
Rubidoux Blvd at SR-60 EB Off-Ramp	AM Peak Hour	EBL	1100	#992	#1131	#1383	#1383
	PM Peak Hour			#762	#892	#1167	#1167

Note: Synchro displays a # when the 95th percentile volume exceeds the capacity and queue may be longer.

TABLE 26
SUMMARY OF INTERCHANGE POCKET STORAGE CAPACITY
HORIZON YEAR 2045

Intersection	Peak Hour Queue Length (ft/In)	Left-Turn Movement	Storage Capacity (ft/In)	Horizon Year 2045	Horizon Year 2045 Plus Project (Option 1)	Horizon Year 2045 Plus Project (Option 2)	Horizon Year 2045 Plus Project (Option 3)
				95th Percentile	95th Percentile	95th Percentile	95th Percentile
Rubidoux Boulevard at 30th St/SR-60 WB Off-Ramp	AM Peak Hour	WBL/T/R	1250	#1297	#1915	#2187	#2187
	PM Peak Hour			#973	#1643	#2205	#2205
Rubidoux Blvd at SR-60 EB Off-Ramp	AM Peak Hour	EBL	1100	#992	#1131	#1383	#1383
	PM Peak Hour			#762	#892	#1167	#1167

Note: Synchro displays a # when the 95th percentile volume exceeds the capacity and queue may be longer.

TABLE 27
SUMMARY OF INTERCHANGE POCKET STORAGE CAPACITY
PSR IMPROVEMENTS

Intersection	Peak Hour Queue Length (ft/ln)	Left-Turn Movement	Storage Capacity (ft/ln)	Opening Year 2026 Plus Project (Option 3)	Horizon Year 2045 Plus Project (Option 3)
				95th Percentile	95th Percentile
Rubidoux Blvd at SR-60 WB On-Ramp	AM Peak Hour	WBL	1250	#695	#608
	PM Peak Hour			#593	#710
	AM Peak Hour	WBR	550	322	#464
	PM Peak Hour			#386	#680
Rubidoux Blvd at SR-60 EB Off-Ramp	AM Peak Hour	EBL	1100	#431	#473
	PM Peak Hour			278	278

Note: Synchro displays a # when the 95th percentile volume exceeds the capacity and queue may be longer.

TABLE 28 SUMMARY OF INTERCHANGE POCKET STORAGE CAPACITY PSR PLUS ADDITIONAL IMPROVEMENTS					
Intersection	Peak Hour Queue Length (ft/ln)	Left-Turn Movement	Storage Capacity (ft/ln)	Opening Year 2026 Plus Project (Option 3)	Horizon Year 2045 Plus Project (Option 3)
				95th Percentile	95th Percentile
Rubidoux Blvd at SR-60 WB On-Ramp	AM Peak Hour	WBL	1250	#497	#497
	PM Peak Hour			#402	#525
	AM Peak Hour	WBR	550	244	#381
	PM Peak Hour			#275	#537
Rubidoux Blvd at SR-60 EB Off-Ramp	AM Peak Hour	EBL	1100	#268	#283
	PM Peak Hour			161	169
<u>Note:</u> Synchro displays a # when the 95th percentile volume exceeds the capacity and queue may be longer.					

TRAFFIC SIGNAL WARRANT ANALYSIS

A signal warrant analysis was conducted based on the 2014 California Manual on Uniform Traffic Control Devices (CAMUTCD) for the following intersections in the Opening Year 2023, Opening Year 2026, and Horizon Year scenarios.

- #8 – Rubidoux Blvd at 24th St
- #9 – Market St at Hall Ave
- #10 – Hall Ave at 24th St
- #12 – Rubidoux Blvd at 26th St
- #15 – Hall Ave at 28th St

Traffic Signal Warrant Analysis worksheets are provided in *Appendix H*.

Based on the signal warrant analysis, Warrant 3 was not met for any intersections in the Opening Year 2023 Cumulative scenario.

Based on the signal warrant analysis, Warrant 3 was met for the Opening Year 2023 Cumulative Plus Project – Option 3 scenario for the following intersections:

- #9 – Market St at Hall Ave

Based on the signal warrant analysis, Warrant 3 was not met for any intersections in the Opening Year 2026 Cumulative scenario.

Based on the signal warrant analysis, Warrant 3 was met for the Opening Year 2026 Cumulative Plus Project – Option 3 scenario for the following intersections:

- #9 – Market St at Hall Ave

Based on the signal warrant analysis, Warrant 3 was met for the Horizon Year 2045 scenario for the following intersections:

- #8 – Rubidoux Blvd at 24th St
- #12 – Rubidoux Blvd at 26th St

Based on the signal warrant analysis, Warrant 3 was met for the Horizon Year 2045 Plus Project – Option 3 scenario for the following intersections:

- #8 – Rubidoux Blvd at 24th St
- #9 – Market St at Hall Ave
- #10 – Hall Ave at 24th St
- #12 – Rubidoux Blvd at 26th St
- #15 – Hall Ave at 28th St

The CA MUTCD specifically states that, “The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.” The reference document goes on to state a number of other factors to take into account when considering a signal for a specific location, including whether or not a signal would improve the overall safety of the intersection, whether it would benefit or disrupt progressive traffic flow (in this case, on Beech Avenue), and consideration of queuing, signal spacing, and overall delay to the main street through movements.

The decision to install a traffic signal should be based on engineering judgment, and not solely upon satisfying a peak hour warrant. It is recommended that a decision about signalization at the intersection should be made based on future observations as well as engineering judgment, based on the factors listed above.

FREEWAY FACILITY ANALYSIS

Mainline and Merge/Diverge analysis was conducted for all scenarios at the Rubidoux Interchange for the SR-60 freeway. The results are provided in *Appendix I*. The following freeway segments or merge/diverge ramp junctions analyzed for this study currently or are anticipated to operate at an unacceptable LOS during the peak hours:

Existing

- SR-60 EB, west of Rubidoux Blvd: AM – LOS E, PM – LOS E
- SR-60 EB, On-Ramp at Rubidoux Blvd: AM – LOS E
- SR-60 EB, east of Rubidoux Blvd: AM – LOS E, PM – LOS E
- SR-60 WB, east of Rubidoux Blvd: AM – LOS E
- SR-60 WB, On-Ramp at Rubidoux Blvd: AM – LOS F
- SR-60 WB, west of Rubidoux Blvd: AM – LOS F

Opening Year 2023 Cumulative

- SR-60 EB, west of Rubidoux Blvd: AM – LOS E, PM – LOS E
- SR-60 EB, On-Ramp at Rubidoux Blvd: AM – LOS F, PM – LOS E
- SR-60 EB, east of Rubidoux Blvd: AM – LOS F, PM – LOS E
- SR-60 WB, east of Rubidoux Blvd: AM – LOS F

- SR-60 WB, On-Ramp at Rubidoux Blvd: AM – LOS F, PM – LOS E
- SR-60 WB, west of Rubidoux Blvd: AM – LOS F, PM – LOS E

Opening Year 2023 Cumulative Plus Project – Option 3

- SR-60 EB, west of Rubidoux Blvd: AM – LOS F, PM – LOS E
- SR-60 EB, On-Ramp at Rubidoux Blvd: AM – LOS F, PM – LOS F
- SR-60 EB, east of Rubidoux Blvd: AM – LOS F, PM – LOS F
- SR-60 WB, east of Rubidoux Blvd: AM – LOS F, PM – LOS E
- SR-60 WB, On-Ramp at Rubidoux Blvd: AM – LOS F, PM – LOS E
- SR-60 WB, west of Rubidoux Blvd: AM – LOS F, PM – LOS E

Opening Year 2026 Cumulative

- SR-60 EB, west of Rubidoux Blvd: AM – LOS F, PM – LOS E
- SR-60 EB, On-Ramp at Rubidoux Blvd: AM – LOS F, PM – LOS E
- SR-60 EB, east of Rubidoux Blvd: AM – LOS F, PM – LOS E
- SR-60 WB, east of Rubidoux Blvd: AM – LOS F
- SR-60 WB, On-Ramp at Rubidoux Blvd: AM – LOS F, PM – LOS E
- SR-60 WB, west of Rubidoux Blvd: AM – LOS F, PM – LOS E

Opening Year 2026 Cumulative No Ramp Plus Project – Option 3

- SR-60 EB, west of Rubidoux Blvd: AM – LOS F, PM – LOS F
- SR-60 EB, On-Ramp at Rubidoux Blvd: AM – LOS F, PM – LOS F
- SR-60 EB, east of Rubidoux Blvd: AM – LOS F, PM – LOS F
- SR-60 WB, east of Rubidoux Blvd: AM – LOS F, PM – LOS E
- SR-60 WB, On-Ramp at Rubidoux Blvd: AM – LOS F, PM – LOS E
- SR-60 WB, west of Rubidoux Blvd: AM – LOS F, PM – LOS E

Opening Year 2026 Cumulative Plus Project – Option 3

- SR-60 EB, west of Rubidoux Blvd: AM – LOS F, PM – LOS F
- SR-60 EB, On-Ramp at Rubidoux Blvd: AM – LOS F, PM – LOS F
- SR-60 EB, east of Rubidoux Blvd: AM – LOS F, PM – LOS F
- SR-60 EB, Hook Ramp: AM – LOS F, PM – LOS F
- SR-60 WB, east of Rubidoux Blvd: AM – LOS F, PM – LOS E
- SR-60 WB, On-Ramp at Rubidoux Blvd: AM – LOS F, PM – LOS E
- SR-60 WB, west of Rubidoux Blvd: AM – LOS F, PM – LOS E

Horizon Year 2045

- SR-60 EB, west of Rubidoux Blvd: AM – LOS F, PM – LOS F
- SR-60 EB, Off-Ramp at Rubidoux Blvd: AM – LOS F, PM – LOS F
- SR-60 EB, between ramps: AM – LOS F, PM – LOS F
- SR-60 EB, On-Ramp at Rubidoux Blvd: AM – LOS F, PM – LOS F
- SR-60 EB, east of Rubidoux Blvd: AM – LOS F, PM – LOS F
- SR-60 WB, east of Rubidoux Blvd: PM – LOS E
- SR-60 WB, Off-Ramp at Rubidoux Blvd: PM – LOS F
- SR-60 WB, between ramps: PM – LOS F
- SR-60 WB, On-Ramp at Rubidoux Blvd: PM – LOS F
- SR-60 WB, west of Rubidoux Blvd: PM – LOS F

Horizon Year 2045 No Ramp Plus Project – Option 3

- SR-60 EB, west of Rubidoux Blvd: AM – LOS F, PM – LOS F
- SR-60 EB, Off-Ramp at Rubidoux Blvd: AM – LOS F, PM – LOS F
- SR-60 EB, between ramps: AM – LOS F, PM – LOS F
- SR-60 EB, On-Ramp at Rubidoux Blvd: AM – LOS F, PM – LOS F
- SR-60 EB, east of Rubidoux Blvd: AM – LOS F, PM – LOS F
- SR-60 WB, east of Rubidoux Blvd: PM – LOS E
- SR-60 WB, Off-Ramp at Rubidoux Blvd: PM – LOS F
- SR-60 WB, between ramps: PM – LOS F
- SR-60 WB, On-Ramp at Rubidoux Blvd: PM – LOS F
- SR-60 WB, west of Rubidoux Blvd: PM – LOS F

Horizon Year Plus Project – Option 3

- SR-60 EB, west of Rubidoux Blvd: AM – LOS F, PM – LOS F
- SR-60 EB, Off-Ramp at Rubidoux Blvd: AM – LOS F, PM – LOS F
- SR-60 EB, between ramps: AM – LOS F, PM – LOS F
- SR-60 EB, On-Ramp at Rubidoux Blvd: AM – LOS F, PM – LOS F
- SR-60 EB, Hook Ramp: AM – LOS F, PM – LOS F
- SR-60 EB, east of Rubidoux Blvd: AM – LOS F, PM – LOS F
- SR-60 WB, east of Rubidoux Blvd: PM – LOS E
- SR-60 WB, Off-Ramp at Rubidoux Blvd: PM – LOS F
- SR-60 WB, between ramps: PM – LOS F
- SR-60 WB, On-Ramp at Rubidoux Blvd: PM – LOS F
- SR-60 WB, west of Rubidoux Blvd: PM – LOS F

IMPROVEMENTS AND RECOMMENDATIONS

Intersection Improvements

Based on the criteria in the *City of Jurupa Valley Traffic Impact Analysis Guidelines* (November 2020), the project would have project related effects at the following intersections:

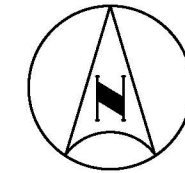
- #1 – Cedar Ave at Slover Ave
- #6 – Rubidoux Blvd at Market St/20th St
- #7 – Agua Mansa Rd at Market St
- #8 – Rubidoux Blvd at 24th St
- #9 – Market St at Hall Ave
- #10 – Hall Ave at 24th St
- #11 – Market St at 24th St/Via Cerro
- #12 – Rubidoux Blvd at 26th St
- #15 – Hall Ave at 28th St
- #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp
- #17 – Rubidoux Blvd at SR-60 WB On-Ramp
- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd
- #22 – Market St at SR-60 EB Ramps
- #33 – Riverview Dr at Mission Blvd
- #34 – Rubidoux Blvd at Mission Blvd

The recommended improvements identified below for the Rubidoux Blvd and SR-60 interchange are consistent with the tight diamond alternative presented in the *Project Study Report (PSR) for SR-60/Rubidoux Boulevard interchange Project* report dated August 2017. The proposed improvements for the interchange are presented on Figure 28.

The project fair share for the recommended improvements for Horizon Year 2045 are shown on Tables 29. Total volumes for each intersection were derived from the Existing Conditions and Horizon Year 2045 No Ramp Plus Project – Option 3 peak hour turning movement volumes. The project's contributions toward deficient intersections is fulfilled through payment of fair share and/or TUMF fees that would be assigned to construction of the identified recommended improvements. Implementation of the following recommended improvements would improve the operations to LOS D or better, except at the Rubidoux Boulevard and SR-60 interchange. As a conservative approach, Option 3 has been used to assess the recommended improvements.

To accommodate the recommended improvements, Market Street would be required to be built out to its ultimate classification. All other roadway segments are already built out to their ultimate classification.

#1 – Cedar Ave at Slover Ave: Add an additional eastbound left turn lane and southbound right turn lane.



NOT TO SCALE

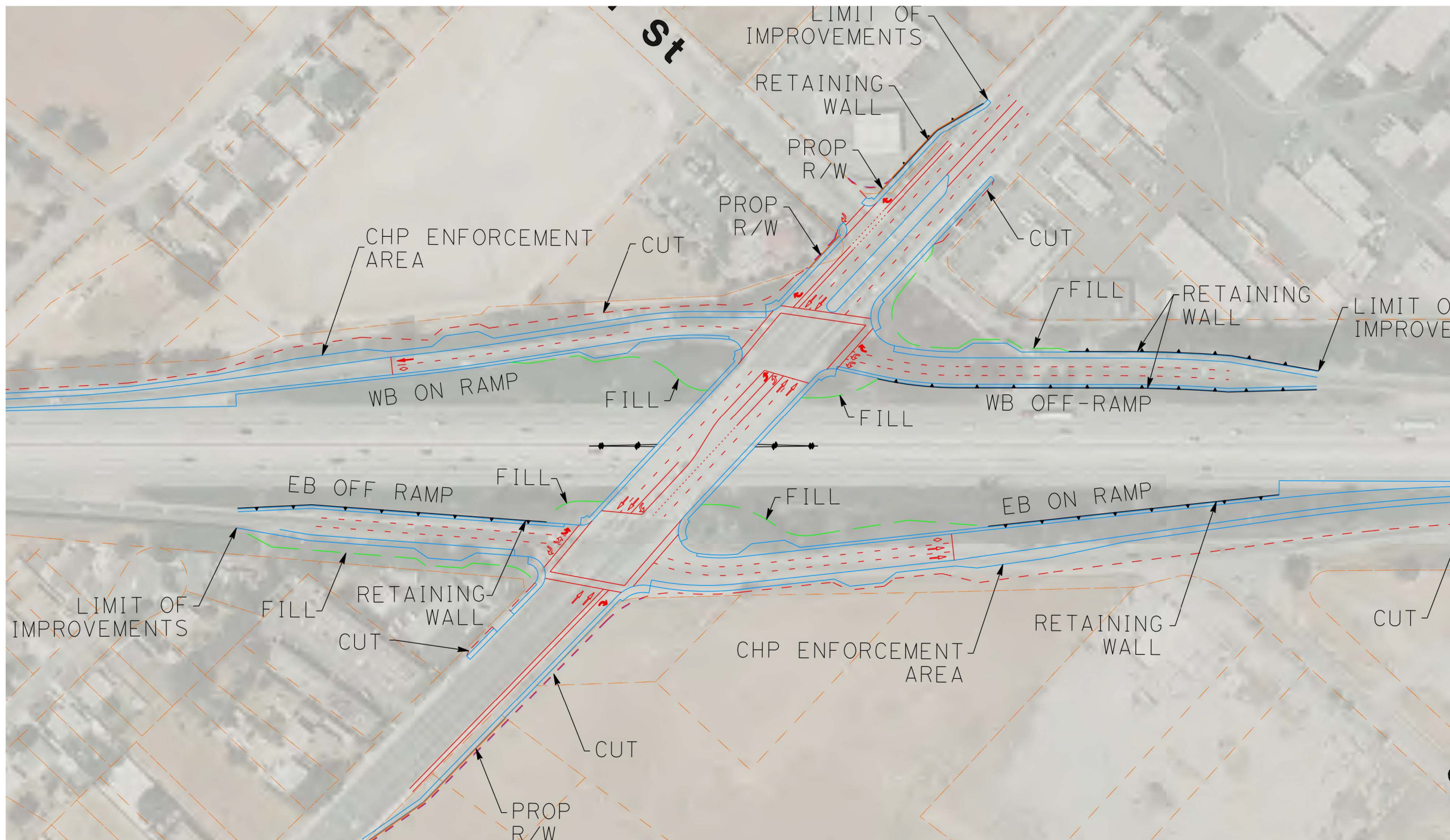


FIGURE 28
PSR RECOMMENDED INTERCHANGE IMPROVEMENTS

TABLE 31
SUMMARY OF PROJECT FAIR SHARE FOR RECOMMENDED IMPROVEMENTS - HORIZON YEAR 2045

Intersection	AM Peak Hour							PM Peak Hour						
	Total Volume		Total Growth	CP Trips	Project Trips	Caltrans %-age	JV %-age	Total Volume		Total Growth	CP Trips	Project Trips	Caltrans %-age	JV %-age
	2021	2045						2021	2045					
#1 - Cedar Ave at Slover Ave	2,758	4,086	1,328	139	118	8.9%	45.9%	2,576	3,735	1,159	162	166	14.3%	50.6%
#6 - Rubidoux Blvd at Market St/20th St	2,480	5,254	2,774	565	275	9.9%	32.7%	2,740	5,228	2,488	561	433	17.4%	43.6%
#7 - Agua Mansa Rd at Market St	1,812	3,085	1,273	274	95	7.5%	25.7%	2,030	3,435	1,405	264	167	11.9%	38.7%
#8 - Rubidoux Blvd at 24th St	1,473	2,952	1,479	292	251	17.0%	46.2%	1,769	3,290	1,521	307	386	25.4%	55.7%
#9 - Market St at Hall Ave	1,290	2,841	1,551	286	131	8.4%	31.4%	1,355	2,553	1,198	289	182	15.2%	38.6%
#10 - Hall Ave at 24th St	231	793	562	0	139	24.7%	100.0%	468	1,254	786	0	187	23.8%	100.0%
#11 - Market St at 24th St/Via Cerror	1,655	2,801	1,146	286	71	6.2%	19.9%	1,991	2,977	986	289	61	6.2%	17.4%
#12 - Rubidoux Blvd at 26th St	1,381	2,800	1,419	297	297	20.9%	50.0%	1,552	3,222	1,670	162	406	24.3%	71.5%
#15 - Hall Ave at 28th St	208	929	721	0	216	30.0%	100.0%	315	1,369	1,054	0	257	24.4%	100.0%
#16 - Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp	2,279	4,609	2,330	1,082	605	26.0%	35.9%	2,524	5,376	2,852	1,294	831	29.1%	39.1%
#17 - Rubidoux Blvd at SR-60 WB On-Ramp	2,342	4,691	2,349	1,089	728	31.0%	40.1%	2,440	5,463	3,023	1,263	1,105	36.6%	46.7%
#18 - Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd	2,459	5,565	3,106	1,381	1,081	34.8%	43.9%	2,648	6,324	3,676	1,358	1,609	43.8%	54.2%
#22 - Market St at SR-60 EB Ramps	2,016	2,858	842	415	73	8.7%	15.0%	2,509	3,624	1,115	527	125	11.2%	19.2%
#33 - Riverview Dr at Mission Blvd	2,308	3,768	1,460	725	339	23.2%	31.9%	2,868	4,633	1,765	810	495	28.0%	37.9%
#34 - Rubidoux Blvd at Mission Blvd	2,626	4,188	1,562	572	373	23.9%	39.5%	3,499	5,360	1,861	680	552	29.7%	44.8%

Note: Project trip volumes were derived from Option 3 to assess the project fair share.

#6 – Rubidoux Blvd at Market St/20th St: Add an additional southbound left turn lane. Reconfigure the westbound leg to 1 left turn, 2 thru, and 1 right turn lane. Reconfigure the eastbound leg to 2 left turn, 1 thru, and 1 right turn lane with a right turn overlap. Modify the E/W split phasing to left turn protected.

#7 – Agua Mansa Rd at Market St: Reconfigure the eastbound leg to 2 left turn, 1 thru, and 1 right turn lane. Reconfigure the southbound leg to 1 shared thru-left and 1 right turn lane.

#8 – Rubidoux Blvd at 24th St: New traffic signal.

#9 – Market St at Hall Avenue: New traffic signal. Add a northbound left turn lane.

#10 – Hall Avenue at 24th St: New traffic signal.

#11 – Market St at 24th St/Via Cerro: Add a northbound thru lane and southbound thru lane.

#15 – Hall Ave at 28th St: New traffic signal.

#16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp: Remove the westbound leg connected to the SR-60. Add dedicated southbound right turn lane. Remove northbound left turn lane. Add center median along Rubidoux Blvd.

#17 – Rubidoux Blvd at SR-60 WB On-Ramp: Add a westbound leg with 2 left turn and 1 right turn lane connected to the SR-60. Add a dedicated southbound right turn lane. Add an additional northbound left turn lane. New traffic signal.

#18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd: reconfigure the eastbound leg to 2 left turn lanes and 1 right turn lane. Add a dedicated northbound right lane.

#22 – Market St at SR-60 EB Ramps: Add an additional northbound thru lane. It should be noted the improvements at Market St at SR-60 EB Ramps would only be needed in the No Ramp Plus Project scenarios.

#33 – Riverview Dr at Mission Blvd: Reconfigure the southbound leg to 1 left and 1 shared thru-right lane. Modify the N/S split phasing to left turn protected with a northbound right turn overlap.

#34 – Rubidoux Blvd at Mission Blvd: Add a southbound left turn lane. Reconfigure the northbound leg to 1 left and 1 shared thru-right lane. Modify the N/S Split phasing to left turn protected with a southbound right turn overlap.

A summary of the intersection operations before and after implementation of these recommended improvements for Opening Year 2023, Opening Year 2026, and Horizon Year 2045 are provided on Tables 30, 31, and 32.

TABLE 30
SUMMARY OF INTERSECTION OPERATION
OPENING YEAR 2023 PLUS PROJECT RECOMMENDED IMPROVEMENTS

Int. #	Intersection	Improvements	Peak Hour	Traffic Control	With Project		With Improvements	
					Delay	LOS	Delay	LOS
					6	Rubidoux Blvd at Market St/20th St	- Add a SBL lane - Reconfigure WB leg to 1 Left turn, 2 Thru, and 1 Right - Reconfigure EB leg to 2 Left, 1 Thru, and 1 Right lane with a RT Overlap - Modify E/W Split Phasing to Left-Turn Protected	AM
			PM	S	134.7	F	45.8	D
8	Rubidoux Blvd at 24th St	- New traffic signal	AM	U	178.5	F	3.3	A
			PM	U	10000.0	F	5.4	A
9	Market St at Hall Ave	- New traffic signal	AM	U	77.4	F	5.7	A
			PM	U	146.0	F	11.5	B
11	Market St at 24th St/Via Cerro	- Add a NBT lane - Add a SBT lane	AM	S	32.4	C	18.2	B
			PM	S	86.4	F	28.2	C
12	Rubidoux Blvd at 26th St	- New traffic signal	AM	S	72.2	F	2.1	A
			PM	S	106.9	F	2.7	A
17	Rubidoux Blvd at SR-60 WB On-Ramp	- New traffic signal	AM	S	977.2	F	148.8	F
			PM	S	2107.7	F	145.4	F
22	Market St at SR-60 EB Ramps	- Add 3rd NBT Lane	AM	S	30.5	C	29.4	C
			PM	S	55.4	E	41.4	D
33	Riverview Dr at Mission Blvd	- Reconfigure SB leg to 1 Left and 1 Shared Thru-Right lane - Modify N/S Split Phasing to Left-Turn Protected with a NBR Overlap	AM	S	94.7	F	30.9	C
			PM	S	132.2	F	48.6	D
34	Rubidoux Blvd at Mission Blvd	- Add a SBL lane - Reconfigure NB leg to 1 Left and 1 Shared Thru-Right lane - Modify N/S Split Phasing to Left-Turn Protected with a SBR Overlap	AM	S	101.4	F	44.3	D
			PM	S	123.9	F	34.3	C

- Bold values indicate intersections operating at an unacceptable Level of Service
- Delay values for unsignalized intersections represent the average vehicle delay on the worst (highest delay) intersection approach.
- Improvements at Intersections 16, 17, and 18 are consistent with the proposed PSR Interchange Improvements

TABLE 31
SUMMARY OF INTERSECTION OPERATION
OPENING YEAR 2026 PLUS PROJECT RECOMMENDED IMPROVEMENTS

Int. #	Intersection	Improvements	Peak Hour	Traffic Control	With Project		With Improvements	
					Delay	LOS	Delay	LOS
6	Rubidoux Blvd at Market St/20th St	<ul style="list-style-type: none"> - Add a SBL lane - Reconfigure WB leg to 1 Left turn, 2 Thru, and 1 Right - Reconfigure EB leg to 2 Left, 1 Thru, and 1 Right lane with a RT Overlap - Modify E/W Split Phasing to Left-Turn Protected 	AM	S	104.6	F	41.4	D
			PM	S	149.2	F	53.7	D
8	Rubidoux Blvd at 24th St	<ul style="list-style-type: none"> - New traffic signal 	AM	S	295.4	F	3.6	A
			PM	S	200.0	F	6.1	A
9	Market St at Hall Ave	<ul style="list-style-type: none"> - New traffic signal 	AM	S	98.6	F	12.6	B
			PM	S	198.5	F	11.8	B
11	Market St at 24th St/Via Cerro	<ul style="list-style-type: none"> - Add a NBT lane - Add a SBT lane 	AM	S	37.8	D	18.8	B
			PM	S	98.3	F	31.0	C
12	Rubidoux Blvd at 26th St	<ul style="list-style-type: none"> - New traffic signal 	AM	S	93.6	F	2.2	A
			PM	S	164.8	F	2.8	A
16	Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp	<ul style="list-style-type: none"> - Remove SR-60 WB Off-Ramp - Add dedicated SBR turn - Add center median along Rubidoux Blvd 	AM	U	325.0	F	43.0	E
			PM	U	451.5	F	93.6	F
17	Rubidoux Blvd at SR-60 WB On-Ramp	<ul style="list-style-type: none"> - Add WB leg with 2 WBL lanes and 1 WBR lane connected to the SR-60 - Add dedicated SBR lane - Add additional NBL lane - New traffic signal 	AM	S	1709.2	F	83.8	F
			PM	S	4835.4	F	81.4	F
18	Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd	<ul style="list-style-type: none"> - Reconfigure EB leg to 2 Left and 1 Right lane - Add dedicated NBR lane 	AM	S	358.1	F	85.5	F
			PM	S	329.9	F	81.6	F
22	Market St at SR-60 EB Ramps	<ul style="list-style-type: none"> - Add 3rd NBT Lane 	AM	S	33.2	C	31.5	C
			PM	S	70.6	E	50.6	D
33	Riverview Dr at Mission Blvd	<ul style="list-style-type: none"> - Reconfigure SB leg to 1 Left and 1 Shared Thru-Right lane - Modify N/S Split Phasing to Left-Turn Protected with a NBR Overlap 	AM	S	112.1	F	32.8	C
			PM	S	176.7	F	49.0	D
34	Rubidoux Blvd at Mission Blvd	<ul style="list-style-type: none"> - Add a SBL lane - Reconfigure NB leg to 1 Left and 1 Shared Thru-Right lane - Modify N/S Split Phasing to Left-Turn Protected with a SBR Overlap 	AM	S	117.8	F	47.6	D
			PM	S	114.4	F	37.9	D

Notes:

- Delay values for unsignalized intersections represent the average vehicle delay on the worst (highest delay) intersection approach.
- Improvements at Intersections 16, 17, and 18 are consistent with the proposed PSR Interchange Improvements

TABLE 32
SUMMARY OF INTERSECTION OPERATION
HORIZON YEAR 2045 PLUS PROJECT RECOMMENDED IMPROVEMENTS

Int. #	Intersection	Improvements	Peak Hour	Traffic Control	With Project		With Improvements	
					Delay	LOS	Delay	LOS
					1	Cedar Ave at Slover Ave	- Add a EBL lane - Add a SBR lane	AM
			PM	S	49.4	D	33.3	C
6	Rubidoux Blvd at Market St/20th St	- Add a SBL lane - Reconfigure WB leg to 1 Left turn, 2 Thru, and 1 Right - Reconfigure EB leg to 2 Left, 1 Thru, and 1 Right lane with a RT Overlap - Modify E/W Split Phasing to Left-Turn Protected	AM	S	301.3	F	53.5	D
			PM	S	223.2	F	47.0	D
7	Agua Mansa Rd at Market St	- Reconfigure EB leg to 2 Left, 1 Thru, and 1 Right lane - Reconfigure SB leg to 1 Shared Thru-Left and 1 Right lane	AM	S	44.5	D	41.6	D
			PM	S	95.0	F	38.8	D
8	Rubidoux Blvd at 24th St	- New traffic signal	AM	S	200.0	F	14.3	B
			PM	S	200.0	F	8.8	A
9	Market St at Hall Ave	- New traffic signal	AM	S	10000.0	F	29.4	C
			PM	S	4979.1	F	13.9	B
10	Hall Ave at 24th St	- New traffic signal	AM	S	19.4	C	15.0	B
			PM	S	82.9	F	15.0	B
11	Market St at 24th St/Via Cerro	- Add a NBT lane - Add a SBT lane	AM	S	76.7	E	23.7	C
			PM	S	124.0	F	30.7	C
12	Rubidoux Blvd at 26th St	- New traffic signal	AM	S	463.0	F	4.5	A
			PM	S	2158.0	F	7.6	A
15	Hall Ave at 28th St	- New traffic signal	AM	S	12.3	B	17.1	B
			PM	S	114.7	F	16.3	B
16	Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp	- Remove SR-60 WB Off-Ramp - Add dedicated SBR turn - Add center median along Rubidoux Blvd	AM	U	351.6	F	42.0	E
			PM	U	480.6	F	86.8	F
17	Rubidoux Blvd at SR-60 WB On-Ramp	- Add WB leg with 2 WBL lanes and 1 WBR lane connected to the SR-60 - Add dedicated SBR lane - Add additional NBL lane - New traffic signal	AM	S	1599.9	F	86.7	F
			PM	S	4377.2	F	157.8	F
18	Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd	- Reconfigure EB leg to 2 Left and 1 Right lane - Add dedicated NBR lane	AM	S	360.8	F	97.3	F
			PM	S	338.8	F	102.2	F
22	Market St at SR-60 EB Ramps	- Add 3rd NBT Lane	AM	S	31.5	C	35.1	D
			PM	S	68.7	E	49.6	D
33	Riverview Dr at Mission Blvd	- Reconfigure SB leg to 1 Left and 1 Shared Thru-Right lane - Modify N/S Split Phasing to Left-Turn Protected with a NBR Overlap	AM	S	131.9	F	34.5	C
			PM	S	192.5	F	54.8	D
34	Rubidoux Blvd at Mission Blvd	- Add a SBL lane - Reconfigure NB leg to 1 Left and 1 Shared Thru-Right lane - Modify N/S Split Phasing to Left-Turn Protected with a SBR Overlap	AM	S	156.3	F	42.0	D
			PM	S	222.3	F	43.1	D
40	Camino Real at Limonite Ave	- Modify N/S Protected Left-Turn Signal to Left-Turn Protected/Permissive	AM	S	45.1	D	37.0	D
			PM	S	63.7	F	47.6	D

- Bold values indicate intersections operating at an unacceptable Level of Service
- Delay values for unsignalized intersections represent the average vehicle delay on the worst (highest delay) intersection approach
- Improvements at Intersections 16, 17, and 18 are consistent with the proposed PSR Interchange Improvements

Additional Interchange Improvements

As previously mentioned, the Rubidoux at SR-60 interchange would continue to operate at a deficient LOS with the PSR improvements. The following additional improvements have been recommended that would improve the LOS to acceptable:

#17 – Rubidoux Blvd at SR-60 WB On-Ramp: Add an additional southbound thru lane and northbound thru lane. Convert the southbound right turn lane into a free right turn.

#18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd: Add an additional southbound left lane and southbound thru lane. Add an additional northbound thru lane and free northbound right turn lane.

A summary of the intersection operations before and after implementation of these additional recommended improvements is provided on Table 33.

TABLE 33
SUMMARY OF INTERSECTION OPERATION
ADDITIONAL RECOMMENDED IMPROVEMENTS

Int. #	Intersection	Improvements	Peak Hour	Traffic Control	With Project		OY 2026 With Improvements		HY 2045 With Improvements	
					Delay	LOS	Delay	LOS	Delay	LOS
					16	Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp	- Remove SR-60 WB Off-Ramp - Add dedicated SBR turn - Add center median along Rubidoux Blvd	AM	U	351.6
			PM	U	480.6	F	78.7	F	78.7	F
17	Rubidoux Blvd at SR-60 WB On-Ramp	- Add WB leg with 2 WBL lanes and 1 WBR lane connected to the SR-60 - Add dedicated SBR lane and SBT lane. SBR becomes a free movement - Add additional NBL lane and NBT lane - New traffic signal	AM	S	1599.9	F	40.4	D	41.4	D
			PM	S	4377.2	F	30.4	C	47.4	D
18	Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd	- Reconfigure EB leg to 2 Left and 1 Right lane - Add additional SBL lane and SBT lane - Add free NBR lane	AM	S	360.8	F	24.9	C	32.0	C
			PM	S	338.8	F	17.1	B	17.7	B

- Bold values indicate intersections operating at an unacceptable Level of Service
- Delay values for unsignalized intersections represent the average vehicle delay on the worst (highest delay) intersection approach.

SUMMARY OF FINDINGS AND CONCLUSIONS

- The project is located on the southeast corner of the intersection of Rubidoux Boulevard and SR-60 EB Off-Ramp/Frontage Road in the eastern area of the City of Jurupa Valley.
- The project is envisioned to be a vibrant mixed-use development comprising of warehouse/logistics, industrial/retail, commercial, hospitality, mixed density residential, and park and recreation uses
- Phase 1 of the project is estimated to generate 21,597 daily PCE trips, 1,371 PCE trips (912 inbound and 459 outbound) in the morning peak hour and 1,695 PCE trips (707 inbound and 988 outbound) in the evening peak hour.
- Phase 2 of the project is expected to be completed in 2026. After applying internal capture, pass-by, and PCE, the total project is expected to generate 36,525 daily PCE trips, 1,964 PCE trips (1,159 inbound and 805 outbound) in the morning peak hour and 2,893 PCE trips (1,366 inbound and 1,527 outbound) in the evening peak hour.
- The project would have a project-related effect at the following intersection in the Opening Year 2023 (Phase 1) Cumulative Plus Project – Option 1 scenario:
 - #6 – Rubidoux Blvd at Market St/20th St
 - #8 – Rubidoux Blvd at 24th St
 - #9 – Market St at Hall Ave
 - #11 – Market St at 24th St/Via Cerro
 - #12 – Rubidoux Blvd at 26th St
 - #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp
 - #17 – Rubidoux Blvd at SR-60 WB On-Ramp
 - #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd
 - #33 – Riverview Dr at Mission Blvd
 - #34 – Rubidoux Blvd at Mission Blvd
- The project would have a project-related effect at the following intersection in the Opening Year 2023 (Phase 1) Cumulative Plus Project – Option 2 scenario:
 - #6 – Rubidoux Blvd at Market St/20th St
 - #7 – Agua Mansa Rd at Market St
 - #8 – Rubidoux Blvd at 24th St
 - #9 – Market St at Hall Ave
 - #11 – Market St at 24th St/Via Cerro
 - #12 – Rubidoux Blvd at 26th St
 - #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp
 - #17 – Rubidoux Blvd at SR-60 WB On-Ramp

- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd
 - #22 – Market St at SR-60 EB Ramps
 - #33 – Riverview Dr at Mission Blvd
- The project would have a project-related effect at the following intersection in the Opening Year 2023 (Phase 1) Cumulative Plus Project – Option 3 scenario:
 - #6 – Rubidoux Blvd at Market St/20th St
 - #8 – Rubidoux Blvd at 24th St
 - #9 – Market St at Hall Ave
 - #11 – Market St at 24th St/Via Cerro
 - #12 – Rubidoux Blvd at 26th St
 - #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp
 - #17 – Rubidoux Blvd at SR-60 WB On-Ramp
 - #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd
 - #22 – Market St at SR-60 EB Ramps
 - #33 – Riverview Dr at Mission Blvd
 - #34 – Rubidoux Blvd at Mission Blvd
- The project would have a project-related effect at the following intersection in the Opening Year 2026 (Phase 2) Cumulative No Ramp Plus Project – Option 1 scenario:
 - #6 – Rubidoux Blvd at Market St/20th St
 - #8 – Rubidoux Blvd at 24th St
 - #11 – Market St at 24th St/Via Cerro
 - #12 – Rubidoux Blvd at 26th St
 - #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp
 - #17 – Rubidoux Blvd at SR-60 WB On-Ramp
 - #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd
 - #19 – Frontage Rd at SR-60 EB On-Ramp
 - #33 – Riverview Dr at Mission Blvd
 - #34 – Rubidoux Blvd at Mission Blvd
- The project would have a project-related effect at the following intersection in the Opening Year 2026 (Phase 2) Cumulative No Ramp Plus Project – Option 2 scenario:
 - #6 – Rubidoux Blvd at Market St/20th St
 - #8 – Rubidoux Blvd at 24th St
 - #9 – Market St at Hall Ave
 - #11 – Market St at 24th St/Via Cerro
 - #12 – Rubidoux Blvd at 26th St
 - #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp
 - #17 – Rubidoux Blvd at SR-60 WB On-Ramp

- #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd
 - #22 – Market St at SR-60 EB Ramps
 - #33 – Riverview Dr at Mission Blvd
 - #34 – Rubidoux Blvd at Mission Blvd
- The project would have a project-related effect at the following intersection in the Opening Year 2026 (Phase 2) Cumulative No Ramp Plus Project – Option 3 scenario:
 - #6 – Rubidoux Blvd at Market St/20th St
 - #8 – Rubidoux Blvd at 24th St
 - #9 – Market St at Hall Ave
 - #11 – Market St at 24th St/Via Cerro
 - #12 – Rubidoux Blvd at 26th St
 - #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp
 - #17 – Rubidoux Blvd at SR-60 WB On-Ramp
 - #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd
 - #22 – Market St at SR-60 EB Ramps
 - #33 – Riverview Dr at Mission Blvd
 - #34 – Rubidoux Blvd at Mission Blvd
- The project would have a project-related effect at the following intersection in the Opening Year 2026 (Phase 2) Cumulative Plus Project – Option 1 scenario:
 - #6 – Rubidoux Blvd at Market St/20th St
 - #8 – Rubidoux Blvd at 24th St
 - #12 – Rubidoux Blvd at 26th St
 - #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp
 - #17 – Rubidoux Blvd at SR-60 WB On-Ramp
 - #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd
 - #19 – Frontage Rd at SR-60 EB On-Ramp
 - #33 – Riverview Dr at Mission Blvd
 - #34 – Rubidoux Blvd at Mission Blvd
- The project would have a project-related effect at the following intersection in the Opening Year 2026 (Phase 2) Cumulative Plus Project – Option 2 scenario:
 - #6 – Rubidoux Blvd at Market St/20th St
 - #8 – Rubidoux Blvd at 24th St
 - #9 – Market St at Hall Ave
 - #12 – Rubidoux Blvd at 26th St
 - #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp
 - #17 – Rubidoux Blvd at SR-60 WB On-Ramp
 - #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd

- #33 – Riverview Dr at Mission Blvd
 - #34 – Rubidoux Blvd at Mission Blvd
- The project would have a project-related effect at the following intersection in the Opening Year 2026 (Phase 2) Cumulative Plus Project – Option 3 scenario:
 - #6 – Rubidoux Blvd at Market St/20th St
 - #8 – Rubidoux Blvd at 24th St
 - #9 – Market St at Hall Ave
 - #12 – Rubidoux Blvd at 26th St
 - #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp
 - #17 – Rubidoux Blvd at SR-60 WB On-Ramp
 - #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd
 - #33 – Riverview Dr at Mission Blvd
 - #34 – Rubidoux Blvd at Mission Blvd
- The project would have a project-related effect at the following intersection in the Horizon Year 2045 No Ramp Plus Project – Option 1 scenario:
 - #1 – Cedar Ave at Slover Ave
 - #6 – Rubidoux Blvd at Market St/20th St
 - #7 – Agua Mansa Rd at Market St
 - #9 – Market St at Hall Ave
 - #11 – Market St at 24th St/Via Cerro
 - #12 – Rubidoux Blvd at 26th St
 - #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp
 - #17 – Rubidoux Blvd at SR-60 WB On-Ramp
 - #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd
 - #19 – Frontage Rd at SR-60 EB On-Ramp
 - #33 – Riverview Dr at Mission Blvd
 - #34 – Rubidoux Blvd at Mission Blvd
 - #40 – Camino Real at Limonite Ave
- The project would have a project-related effect at the following intersection in the Horizon Year 2045 No Ramp Plus Project – Option 2 scenario:
 - #1 – Cedar Ave at Slover Ave
 - #6 – Rubidoux Blvd at Market St/20th St
 - #7 – Agua Mansa Rd at Market St
 - #9 – Market St at Hall Ave
 - #10 – Hall Ave at 24th St
 - #11 – Market St at 24th St/Via Cerro
 - #12 – Rubidoux Blvd at 26th St

- #15 – Hall Ave at 28th St
 - #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp
 - #17 – Rubidoux Blvd at SR-60 WB On-Ramp
 - #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd
 - #22 – Market St at SR-60 EB Ramps
 - #33 – Riverview Dr at Mission Blvd
 - #34 – Rubidoux Blvd at Mission Blvd
 - #40 – Camino Real at Limonite Ave
- The project would have a project-related effect at the following intersection in the Horizon Year 2045 No Ramp Plus Project – Option 3 scenario:
 - #1 – Cedar Ave at Slover Ave
 - #6 – Rubidoux Blvd at Market St/20th St
 - #7 – Agua Mansa Rd at Market St
 - #9 – Market St at Hall Ave
 - #10 – Hall Ave at 24th St
 - #11 – Market St at 24th St/Via Cerro
 - #12 – Rubidoux Blvd at 26th St
 - #15 – Hall Ave at 28th St
 - #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp
 - #17 – Rubidoux Blvd at SR-60 WB On-Ramp
 - #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd
 - #22 – Market St at SR-60 EB Ramps
 - #33 – Riverview Dr at Mission Blvd
 - #34 – Rubidoux Blvd at Mission Blvd
 - #40 – Camino Real at Limonite Ave
 - The project would have a project-related effect at the following intersection in the Horizon Year 2045 Plus Project – Option 1 scenario:
 - #1 – Cedar Ave at Slover Ave
 - #6 – Rubidoux Blvd at Market St/20th St
 - #7 – Agua Mansa Rd at Market St
 - #9 – Market St at Hall Ave
 - #11 – Market St at 24th St/Via Cerro
 - #12 – Rubidoux Blvd at 26th St
 - #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp
 - #17 – Rubidoux Blvd at SR-60 WB On-Ramp
 - #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd
 - #19 – Frontage Rd at SR_60 EB On-Ramp
 - #33 – Riverview Dr at Mission Blvd
 - #34 – Rubidoux Blvd at Mission Blvd

- #40 – Camino Real at Limonite Ave
- The project would have a project-related effect at the following intersection in the Horizon Year 2045 Plus Project – Option 2 scenario:
 - #1 – Cedar Ave at Slover Ave
 - #6 – Rubidoux Blvd at Market St/20th St
 - #7 – Agua Mansa Rd at Market St
 - #9 – Market St at Hall Ave
 - #11 – Market St at 24th St/Via Cerro
 - #12 – Rubidoux Blvd at 26th St
 - #15 – Hall Ave at 28th St
 - #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp
 - #17 – Rubidoux Blvd at SR-60 WB On-Ramp
 - #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd
 - #33 – Riverview Dr at Mission Blvd
 - #34 – Rubidoux Blvd at Mission Blvd
 - #40 – Camino Real at Limonite Ave
- The project would have a project-related effect at the following intersection in the Horizon Year 2045 Plus Project – Option 3 scenario:
 - #1 – Cedar Ave at Slover Ave
 - #6 – Rubidoux Blvd at Market St/20th St
 - #7 – Agua Mansa Rd at Market St
 - #9 – Market St at Hall Ave
 - #10 – Hall Ave at 24th St
 - #11 – Market St at 24th St/Via Cerro
 - #12 – Rubidoux Blvd at 26th St
 - #15 – Hall Ave at 28th St
 - #16 – Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp
 - #17 – Rubidoux Blvd at SR-60 WB On-Ramp
 - #18 – Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd
 - #22 – Market St at SR-60 EB Ramps
 - #33 – Riverview Dr at Mission Blvd
 - #34 – Rubidoux Blvd at Mission Blvd
 - #40 – Camino Real at Limonite Ave
- Based on the interchange queuing analysis the 95th percentile queue would exceed the available storage capacity under Existing conditions and subsequent scenarios at the following locations:
 - Rubidoux Blvd at 30th St/SR-60 WB Off-Ramp

- Westbound Left Turn
 - Rubidoux Blvd at SR-60 EB Off-Ramp/Frontage Rd
 - Eastbound Left Turn
- A signal warrant analysis was conducted for the following intersections:
 - #8 – Rubidoux Blvd at 24th St
 - #9 – Market St at Hall Ave
 - #10 – Hall Ave at 24th St
 - #12 – Rubidoux Blvd at 26th St
 - #15 – Hall Ave at 28th St
- Warrant 3 (Peak Hour Warrant) was not met for any intersections in the Opening Year 2023 Cumulative scenario.
- Warrant 3 (Peak Hour Warrant) was met for the Opening Year 2023 Cumulative Plus Project – Option 3 scenario for the following intersections:
 - #9 – Market St at Hall Ave
- Warrant 3 (Peak Hour Warrant) was not met for any intersections in the Opening Year 2026 Cumulative scenario.
- Warrant 3 (Peak Hour Warrant) was met for the Opening Year 2026 Cumulative Plus Project – Option 3 scenario for the following intersections:
 - #9 – Market St at Hall Ave
- Warrant 3 (Peak Hour Warrant) was met for the following intersections in the Horizon Year 2045 scenario:
 - #8 – Rubidoux Blvd at 24th St
 - #12 – Rubidoux Blvd at 26th St
- Warrant 3 (Peak Hour Warrant) was met for the following intersections in the Horizon Year 2045 Plus Project – Option 3 scenario:
 - #8 – Rubidoux Blvd at 24th St
 - #9 – Market St at Hall Ave
 - #10 – Hall Ave at 24th St
 - #12 – Rubidoux Blvd at 26th St

- #15 – Hall Ave at 28th St
- The decision to install a traffic signal should be based on engineering judgment, and not solely upon satisfying a peak hour warrant. It is recommended that a decision about signalization at the intersection should be made based on future observations as well as engineering judgment.
- With the implementation of the recommended improvements, the intersections with project-related effects would improve to LOS D or better, except at the Rubidoux Boulevard and SR-60 interchange.
- With the additional recommended improvements, the Rubidoux Boulevard at SR-60 interchange would operate at an acceptable LOS and queuing would not back up to the SR-60 mainline.