Appendix H
Traffic Analysis
(Available on the Town website for review)

URBAN | CROSSROADS

LECANGS DAKOTA APPLE VALLEY INDUSTRIAL

TRAFFIC ANALYSIS

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Reference Number	Agency	Date
16091-02 TA Report.docx	Town of Apple Valley	October 9, 2024

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LIST OF ABBREVIATED TERMS

(1)	Reference
ADT	Average Daily Traffic
CA MUTCD	California Manual on Uniform Traffic Control Devices
Caltrans	California Department of Transportation
CMP	Congestion Management Program
DIF	Development Impact Fee
HCM	Highway Capacity Manual
HDM	Highway Design Manual
ITE	Institute of Transportation Engineers
LOS	Level of Service
NAVISP	North Apple Valley Industrial Specific Plan
PCE	Passenger Car Equivalent
PHF	Peak Hour Factor
Project	Lecangs Dakota Apple Valley Industrial
SBCTA	San Bernardino County Transportation Authority
TA	Traffic Analysis
v/c	Volume to Capacity
vphgpl	Vehicles per Hour Green per Lane
VVTA	Victor Valley Transit Authority

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1 SUMMARY OF FINDINGS

This report presents the results of the Traffic Analysis (TA) for the Lecangs Dakota Apple Valley Industrial (**Project**), which consists of the development of a 627,200 square foot industrial warehouse and distribution building located within the North Apple Valley Industrial Specific Plan (NAVISP) in the Town of Apple Valley, as shown on Exhibit 1-1.

The purpose of this TA is to evaluate the potential circulation system deficiencies that may result when the Project is developed and where circulation system (intersection and/or roadway) improvements are needed to maintain acceptable levels of service consistent with the Town's General Plan level of service goals and policies. As the Town has not adopted their own traffic analysis guidelines, they utilize to the San Bernardino County Transportation Impact Study Guidelines (July 9, 2019) (**County Guidelines**).

The scope of analysis included in this evaluation is based on County Guidelines and consultation with Town of Apple Valley staff during the TA scoping process. (1) (2) The TA Scoping Agreement is included in Appendix 1.1 and has been reviewed and approved by the Town of Apple Valley.

1.1 PROJECT OVERVIEW

1.1.1 LAND USE

The Project consists of the development of a 627,200 square foot industrial warehouse and distribution building. The site is located between Dachshund Avenue (which becomes Dakota Road south of Fresno Road) and Ramona Road, south of Gustine Street and north of Fresno Road.

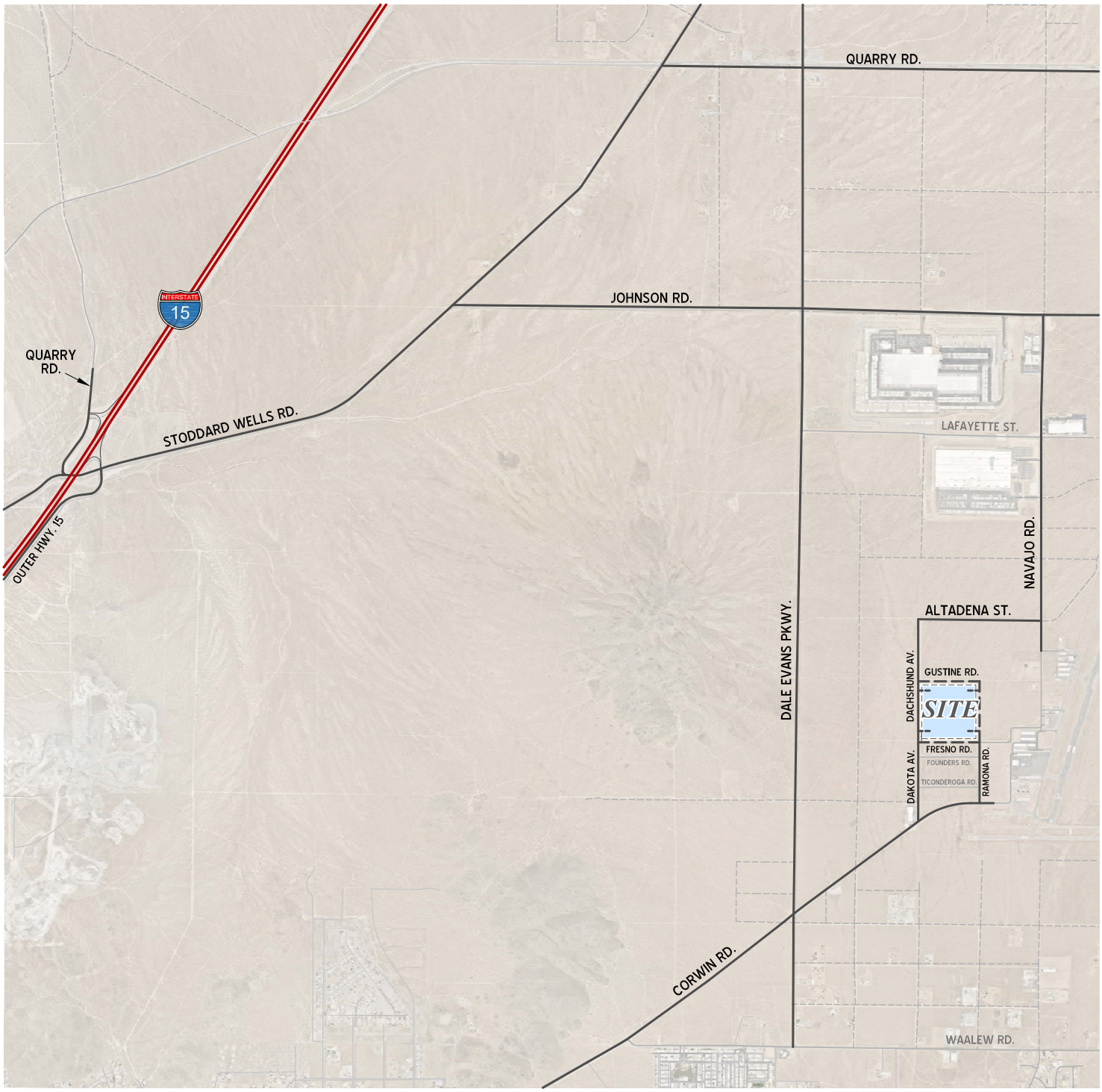
The preliminary site plan for the Project is shown on Exhibit 1-2. Access to the site will be accommodated via two driveways along Dachshund Avenue and two driveways on Ramona Road. All driveways are assumed to allow for full access (no turn restrictions). The Project is anticipated to have an Opening Year of 2027. Regional access to the Project site is accommodated from the I-15 Freeway.

1.1.2 TRIP GENERATION

In order to develop the traffic characteristics of the high-cube warehouse land use for the Proposed Project, trip-generation statistics published in the TUMF High-Cube Warehouse Trip Generation Study (WSP, January 29, 2019) are used. The purpose of WSP 2019 study was to gather enough data to develop reliable trip generation rates for centers for use in traffic impact studies in the Inland Empire.

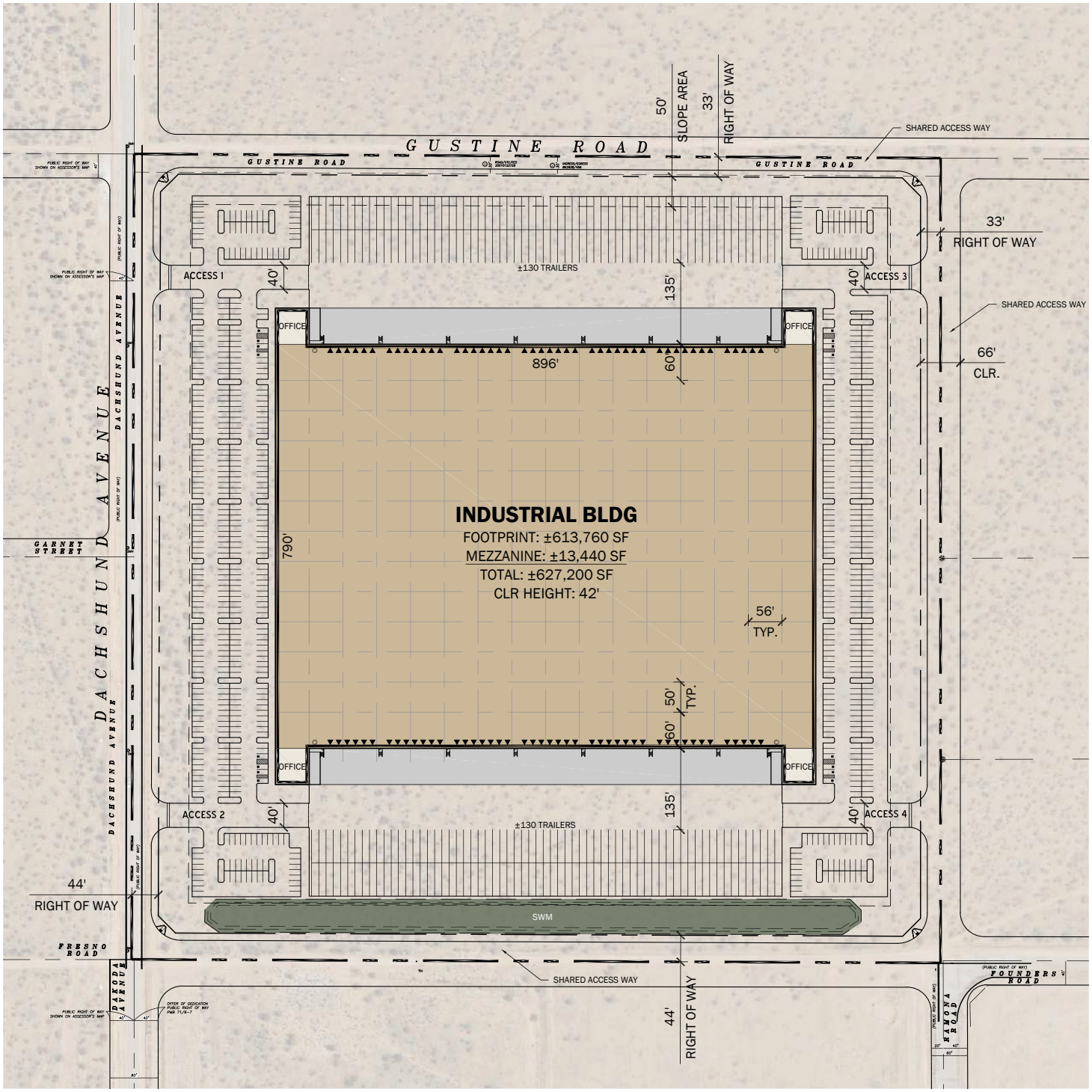
The Project is anticipated to generate a total of 1,335 two-way vehicle trip-ends per day with 77 AM peak hour trips and 104 PM peak hour trips (actual vehicles). The Project is anticipated to generate a total of 2,138 Passenger Car Equivalent (PCE) trip-ends per day with 123 AM PCE peak vehicle hour trips and 167 PM PCE peak hour vehicle trips. The assumptions and methods used to estimate the Project's trip generation characteristics are discussed in greater detail in Section 4.1 *Project Trip Generation* of this report.

EXHIBIT 1-1: LOCATION MAP



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EXHIBIT 1-2: PRELIMINARY SITE PLAN



1.2 ANALYSIS SCENARIOS

For the purposes of this TA, potential deficiencies to intersection LOS have been assessed for each of the following conditions:

- Existing (2024) Conditions
- Opening Year Cumulative (2027) Without Project Conditions
- Opening Year Cumulative (2027) With Project Conditions

1.2.1 EXISTING (2024) CONDITIONS

Information for Existing (2024) conditions is disclosed to represent the baseline traffic conditions as they existed at the time this report was prepared. Local schools were in session with in-person instruction at the time of the traffic counts. Traffic counts were conducted in April and late August, 2024.

1.2.2 OPENING YEAR CUMULATIVE (2027) CONDITIONS

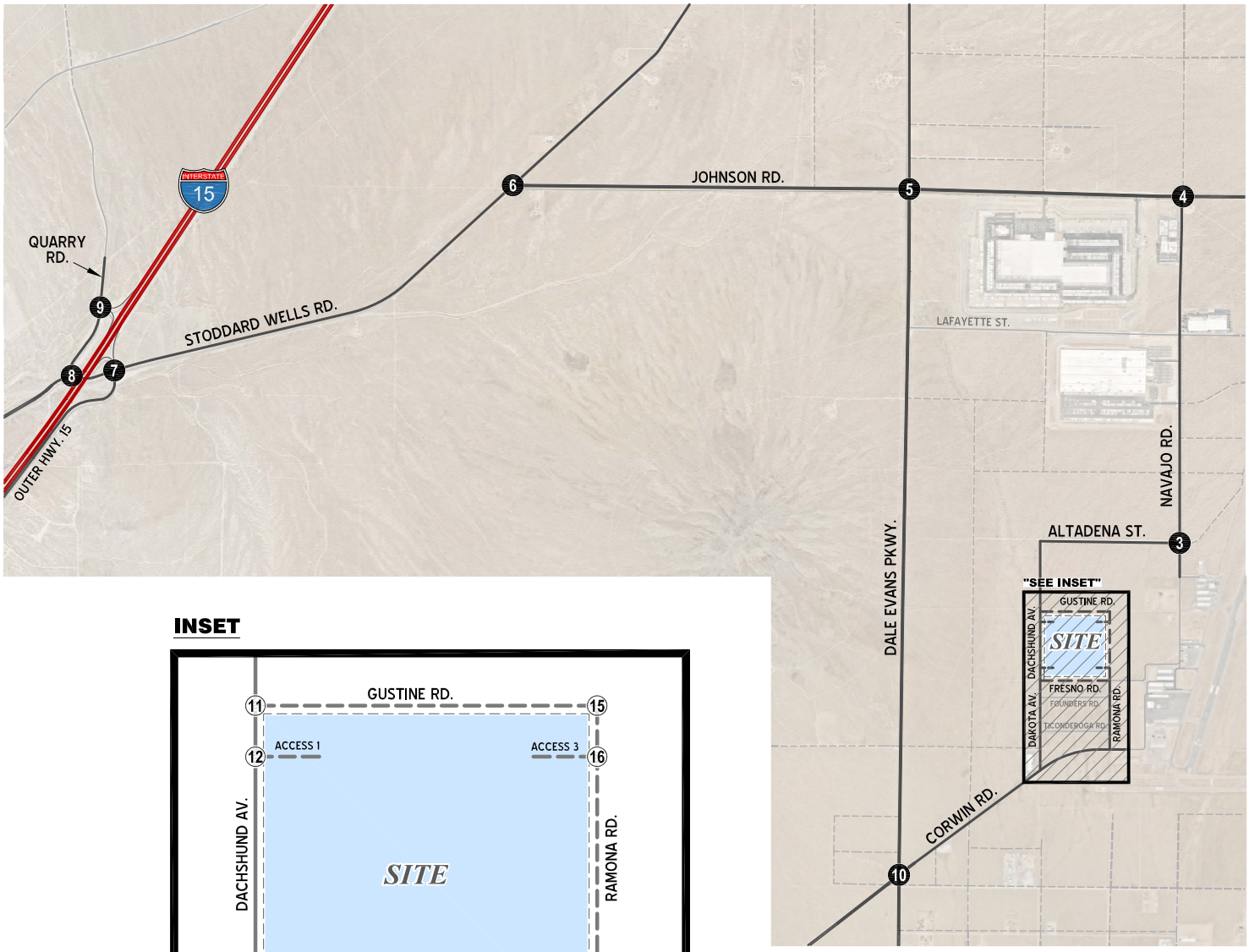
Consistent with County Guidelines, Opening Year Cumulative (2027) traffic conditions analysis determines the potential opening year cumulative circulation system deficiencies. To account for growth in traffic between Existing (2024) traffic conditions and the Project Opening Year Cumulative (2027), a growth rate of 2 percent was assumed (2.0% per year compounded over 3 years or $1.02^{3 \text{ years}}$ for a total of 6.12%). The roadway network is similar to Existing conditions except for new connections to be constructed by the Project. Conservatively, this TA estimates the area ambient traffic growth and then adds traffic generated by other known or probable related projects. These related projects are at least in part already accounted for in the assumed ambient growth rates; and some of these related projects may not be implemented and operational within the 2027 Opening Year timeframe assumed for the Project. The resulting traffic growth utilized in the TA (traffic generated by related projects) would therefore tend to overstate rather than understate background cumulative traffic deficiencies under 2027 traffic conditions.

Consistent with County Guidelines, a list of known and reasonably foreseeable cumulative development projects has been compiled based on information provided by the Town of Apple Valley Planning Department.

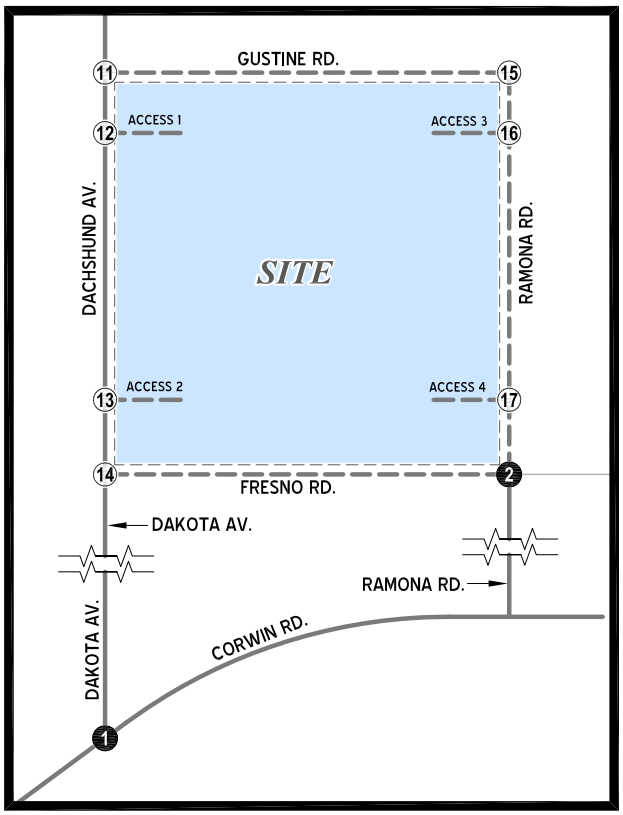
1.3 STUDY AREA

For the purposes of this TA, a total of 17 study area intersections were selected for evaluation based on County Guidelines and consultation with Town of Apple Valley staff. The study area is shown graphically on Exhibit 1-3 and the intersections included for study are also listed in Table 1-1. At a minimum, the study area includes intersections where the Project is anticipated to contribute 50 or more peak hour trips per the County's Guidelines. The "50 peak hour trip" criterion represents a minimum number of trips at which a typical intersection would have the potential to be affected by a given development proposal. The 50 peak hour trip criterion is a traffic engineering rule of thumb that is accepted and widely used within San Bernardino County (including the Town of Apple Valley) for estimating a potential area of influence (i.e., study area).

EXHIBIT 1-3: TRAFFIC ANALYSIS STUDY AREA



INSET



LEGEND:

- (10) = EXISTING ANALYSIS LOCATION
- (7) = FUTURE ANALYSIS LOCATION
- = FUTURE ROADWAY

N

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TABLE 1-1: INTERSECTION ANALYSIS LOCATIONS

#	Intersection	#	Intersection
1	Dakota Av. / Corwin Rd.	10	Dale Evans Pkwy. / Corwin Rd.
2	Ramona Rd. / Fresno Rd.	11	Dachshund Av. / Gustine Rd.
3	Navajo Rd. / Altadena St.	12	Dachshund Av. / Access 1
4	Navajo Rd. / Johnson Rd.	13	Dachshund Av. / Access 2
5	Dale Evans Pkwy. / Johnson Rd.	14	Dachshund Av. / Fresno Rd.
6	Stoddard Wells Rd. / Johnson Rd.	15	Ramona Rd. / Gustine Rd.
7	I-15 NB Ramps / Stoddard Wells Rd.	16	Ramona Rd. / Access 3
8	Quarry Rd. / Stoddard Wells Rd.	17	Ramona Rd. / Access 4
9	Quarry Rd. / I-15 SB Ramps		

1.4 GENERAL PLAN CONSISTENCY REQUIREMENTS FOR INTERSECTIONS

This section provides a brief overview of the intersection level of service (LOS) deficiencies identified in this report. The LOS standards used for this assessment are consistent with those identified in the Town of Apple Valley General Plan. Section 2 *Methodologies* provides a detailed explanation on the methodologies used for this assessment, while Section 3 *Area Conditions* and Section 5 *Opening Year Cumulative (2027) Traffic Conditions* include the operations analysis results for each analysis scenario. Additionally, a summary of the peak hour LOS analysis results is presented in Table 1-2.

1.4.1 EXISTING (2024) CONDITIONS

The assessment of existing (2024) traffic conditions is performed to establish a baseline of current LOS operations from which the effects of the Project's future contribution of traffic can be measured. The study area intersections were found to currently operate at an acceptable LOS (i.e., at or above the Town of Apple Valley's adopted General Plan thresholds) during the peak hours.

1.4.2 OPENING YEAR CUMULATIVE (2027) CONDITIONS

An assessment of opening year cumulative traffic conditions is performed to identify whether the traffic contribution associated with both the proposed Project and that of other reasonably foreseeable future development projects in the area have the potential to cause intersection LOS to fall below the Town's adopted thresholds. The Project's contribution to these forecasted LOS deficiencies is typically addressed through fee payments to an established fee program (both local and regional).

The results of the LOS assessments for cumulative traffic conditions are also summarized in Table 1-2, while Section 5 *Opening Year Cumulative (2027) Traffic Conditions* of the report provide a more detailed list of the forecast LOS deficiencies.

TABLE 1-2: LEVEL OF SERVICE (LOS) SUMMARY

#	Intersection	Existing 2024 AM	Existing 2024 PM	2027 Without Project AM	2027 Without Project PM	2027 With Project AM	2027 With Project PM
1	Dakota Av. / Corwin Rd.	A - D	A - D	A - D	A - D	A - D	A - D
2	Ramona Rd. / Fresno Rd.	A - D	A - D	A - D	A - D	A - D	A - D
3	Navajo Rd. / Altadena St.	A - D	A - D	A - D	A - D	A - D	A - D
4	Navajo Rd. / Johnson Rd.	A - D	A - D	F	F	F	F
5	Dale Evans Pkwy. / Johnson Rd.	A - D	A - D	F	F	F	F
6	Stoddard Wells Rd. / Johnson Rd.	A - D	A - D	F	F	F	F
7	I-15 NB Ramps / Stoddard Wells Rd.	A - D	A - D	F	F	F	F
8	Quarry Rd. / Stoddard Wells Rd.	A - D	A - D	A - D	F	A - D	F
9	Quarry Rd. / I-15 SB Ramps	A - D	A - D	A - D	F	A - D	F
10	Dale Evans Pkwy. / Corwin Rd.	A - D	A - D	A - D	A - D	A - D	A - D
11	Dachshund Av. / Gustine Rd.	N/A	N/A	N/A	N/A	A - D	A - D
12	Dachshund Av. / Access 1	N/A	N/A	N/A	N/A	A - D	A - D
13	Dachshund Av. / Access 2	N/A	N/A	N/A	N/A	A - D	A - D
14	Dachshund Av. / Fresno Rd.	N/A	N/A	N/A	N/A	A - D	A - D
15	Ramona Rd. / Gustine Rd.	N/A	N/A	N/A	N/A	A - D	A - D
16	Ramona Rd. / Access 3	N/A	N/A	N/A	N/A	A - D	A - D
17	Ramona Rd. / Access 4	N/A	N/A	N/A	N/A	A - D	A - D

Legend:

= A - D = E = F

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1.5 RECOMMENDATIONS

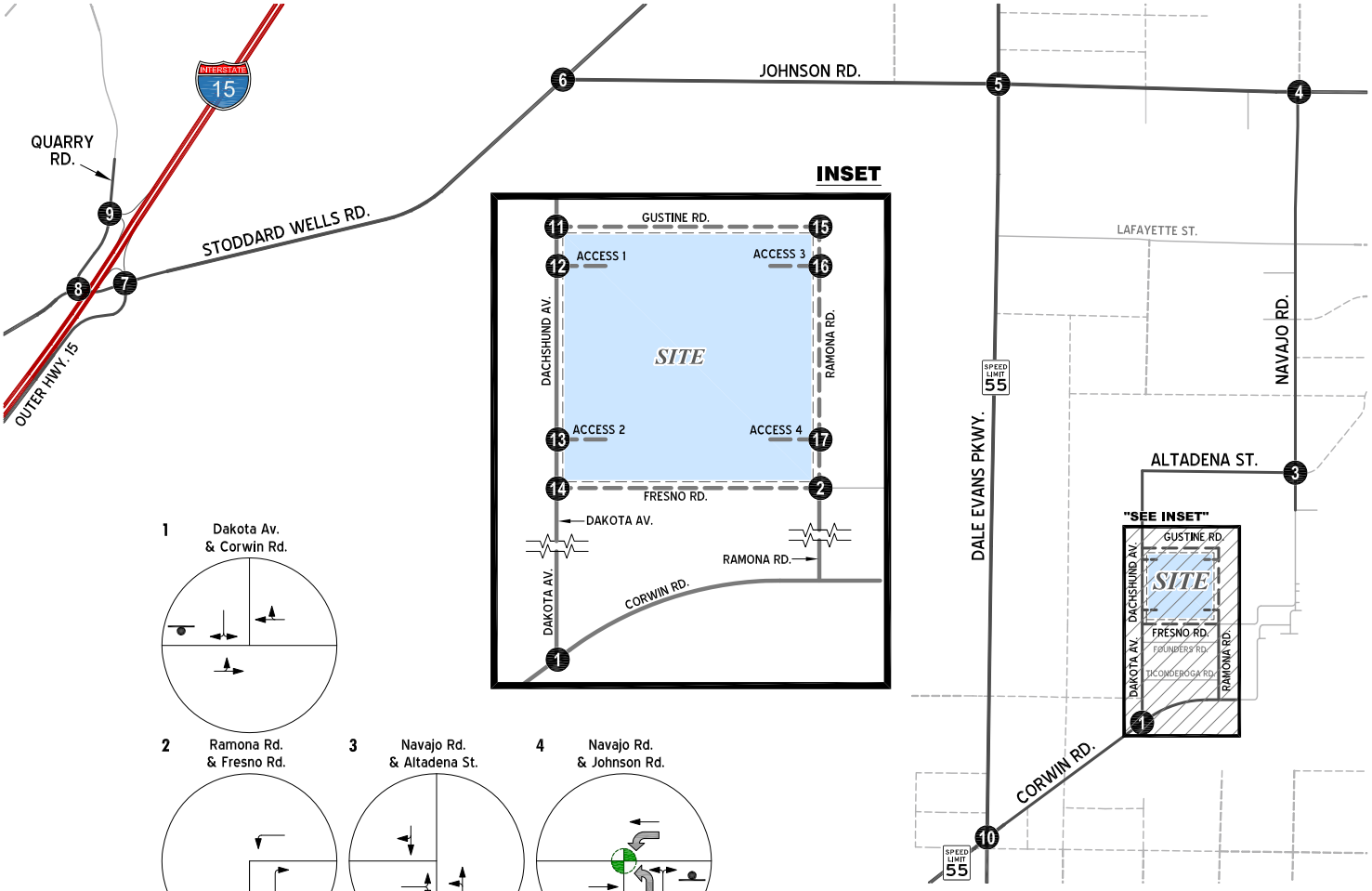
1.5.1 INTERSECTION IMPROVEMENT RECOMMENDATIONS NECESSARY TO MAINTAIN GENERAL PLAN CONSISTENCY

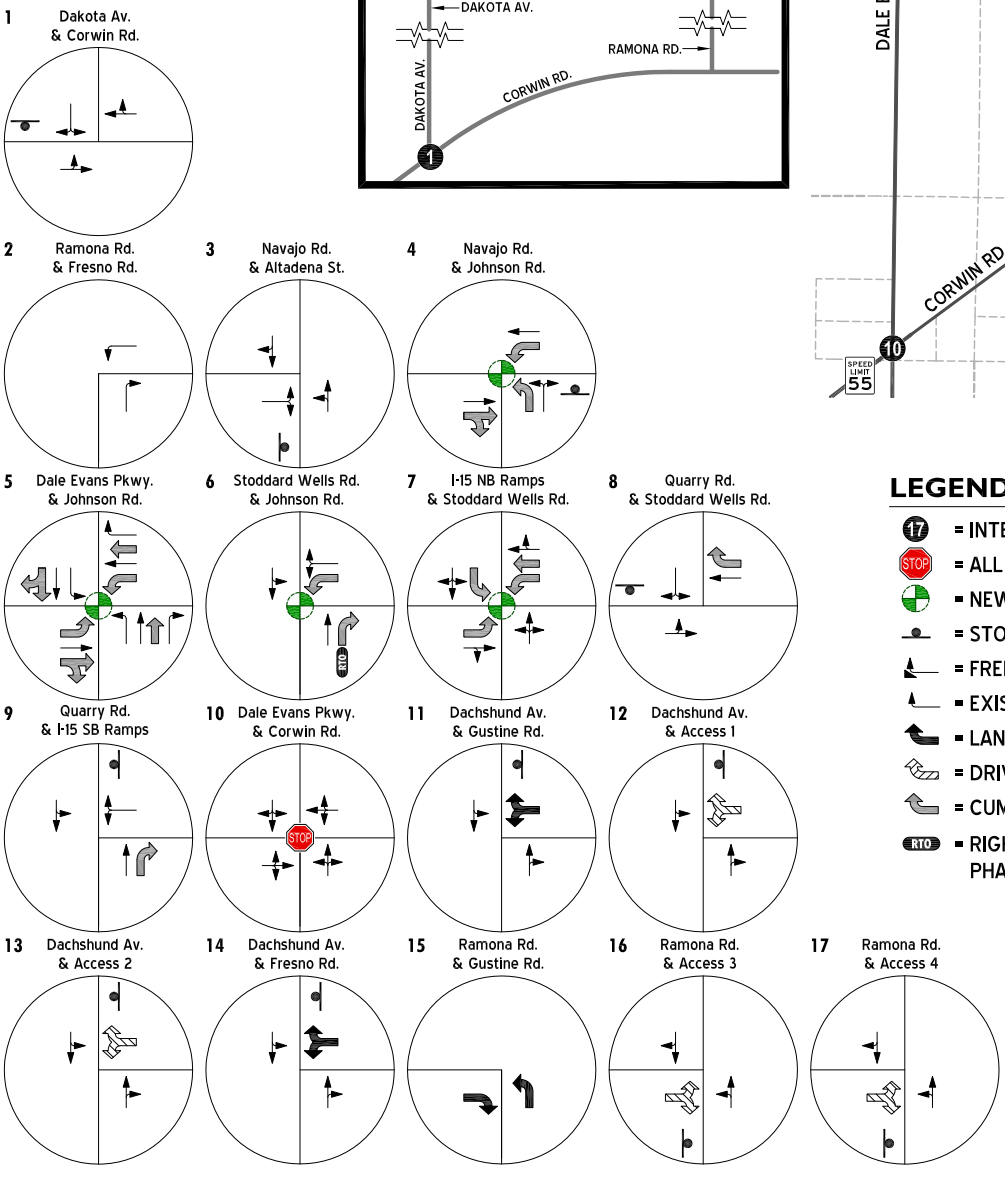
Based on the results of this TA, intersection improvement recommendations necessary to maintain the Town of Apple Valley General Plan LOS standards are listed Table 1-3 shown on Exhibit 1-4.

TABLE 1-3: IMPROVEMENTS TO MAINTAIN GENERAL PLAN CONSISTENCY

#	Intersection Location	Jurisdiction	Opening Year Cumulative (2027)	
			Without Project	With Project
4	Navajo Rd. & Johnson Rd.	Town of Apple Valley	Install a traffic signal	Same
			Add 2nd EB through lane	Same
			Add WB left turn lane	Same
			Add NB left turn lane	Same
5	Dale Evans Pkwy. & Johnson Rd.	Town of Apple Valley, County	Install a traffic signal	Same
			Add 2nd NB through lane	Same
			Add 2nd SB through lane	Same
			Add 2nd EB through lane	Same
			Add 2nd WB through lane	Same
			Add EB left turn lane	Same
			Add WB left turn lane	Same
6	Stoddard Wells Rd. & Johnson Rd.	Town of Apple Valley, County	Install a traffic signal	Same
			Add NB right turn lane	Same
			Add WB left turn lane	Same
			Provide NBR overlap phase	Same
7	I-15 NB Ramps & Stoddard Wells Rd.	Town of Apple Valley, Caltrans	Install a traffic signal	Same
			Add 2nd WB through lane	Same
			Add SB left turn lane	Same
			Add EB left turn lane	Same
			Add WB left turn lane	Same
8	Quarry Rd. & Stoddard Wells Rd.	County	Add WB right turn lane	Same
9	Quarry Rd. & I-15 SB Ramps	County, Caltrans	Add NB right turn lane	Same

EXHIBIT 1-4: OPENING YEAR (2027)
RECOMMENDED TRAFFIC CONTROLS AND INTERSECTION LANE CONFIGURATIONS





LEGEND:

- = INTERSECTION ID
- = ALL WAY STOP
- = NEW TRAFFIC SIGNAL
- = STOP SIGN
- = FREE RIGHT TURN
- = EXISTING LANE
- = LANE IMPROVEMENT
- = DRIVEWAY IMPROVEMENT
- = CUMULATIVE IMPROVEMENT
- = RIGHT TURN OVERLAP PHASING IMPROVEMENT

1.5.2 ON-SITE CIRCULATION RECOMMENDATIONS

The following recommendations are based on the improvements needed to accommodate site access and maintain acceptable peak hour LOS at site access and on-site intersections are described below and shown on Exhibit 1-5. The site adjacent queuing analysis worksheets are provided in Appendix 1.2 for Opening Year Cumulative (2027) With Project traffic conditions. No site adjacent queues are anticipated with the proposed improvements.

Recommendation 1 – Dachshund Avenue & Access 1 (#12) – The following improvements are necessary to accommodate site access:

- Project to install a stop control on the westbound approach and construct a shared left-right turn lane (Project driveway).

Recommendation 2 – Dachshund Avenue & Access 2 (#13) – The following improvements are necessary to accommodate site access:

- Project to install a stop control on the westbound approach and construct a shared left-right turn lane (Project driveway).

Recommendation 3 – Ramona Road & Access 3 (#16) – The following improvements are necessary to accommodate site access:

- Project to install a stop control on the eastbound approach and construct a shared left-right turn lane (Project driveway).
- Project to construct a northbound shared through-left turn lane.
- Project to construct a southbound shared through-right turn lane.

Recommendation 4 – Ramona Road & Access 4 (#17) – The following improvements are necessary to accommodate site access:

- Project to install a stop control on the eastbound approach and construct a shared left-right turn lane (Project driveway).
- Project to construct a northbound shared through-left turn lane.
- Project to construct a southbound shared through-right turn lane.

Recommendation 5 – Dachshund Avenue & Gustine Road (#11) – The following improvements are necessary to accommodate site access:

- Project to install a stop control on the westbound approach and construct a shared left-right turn lane.

Recommendation 6 – Dachshund Avenue & Fresno Road (#14) – The following improvements are necessary to accommodate site access:

- Project to install a stop control on the westbound approach and construct a shared left-right turn lane.

Recommendation 7 – Ramona Road & Gustine Road (#15) – The following improvements are necessary to accommodate site access:

- Project to construct a northbound left turn lane.
- Project to construct an eastbound right turn lane.

Recommendation 8 – Ramona Road & Fresno Road (#2) – The following improvements are necessary to accommodate site access:

- Project to install a stop control on the eastbound and westbound approaches and construct a shared eastbound left-right turn lane.

Recommendation 9 – Dachshund Avenue is a north-south oriented roadway located along the site's western boundary. The Project is to construct Dachshund Avenue from the site's northern boundary (Gustine Road) to the site's southern boundary (Fresno Road) at its ultimate half-section width as a secondary roadway (ultimate 88-foot right-of-way), consistent with the Town's standards.

Recommendation 10 – Ramona Road is a north-south oriented roadway located along the site's eastern boundary. The Project is to construct Ramona Road from the site's northern boundary (Gustine Road) to the site's southern boundary (Fresno Road) as a 2-lane local roadway.

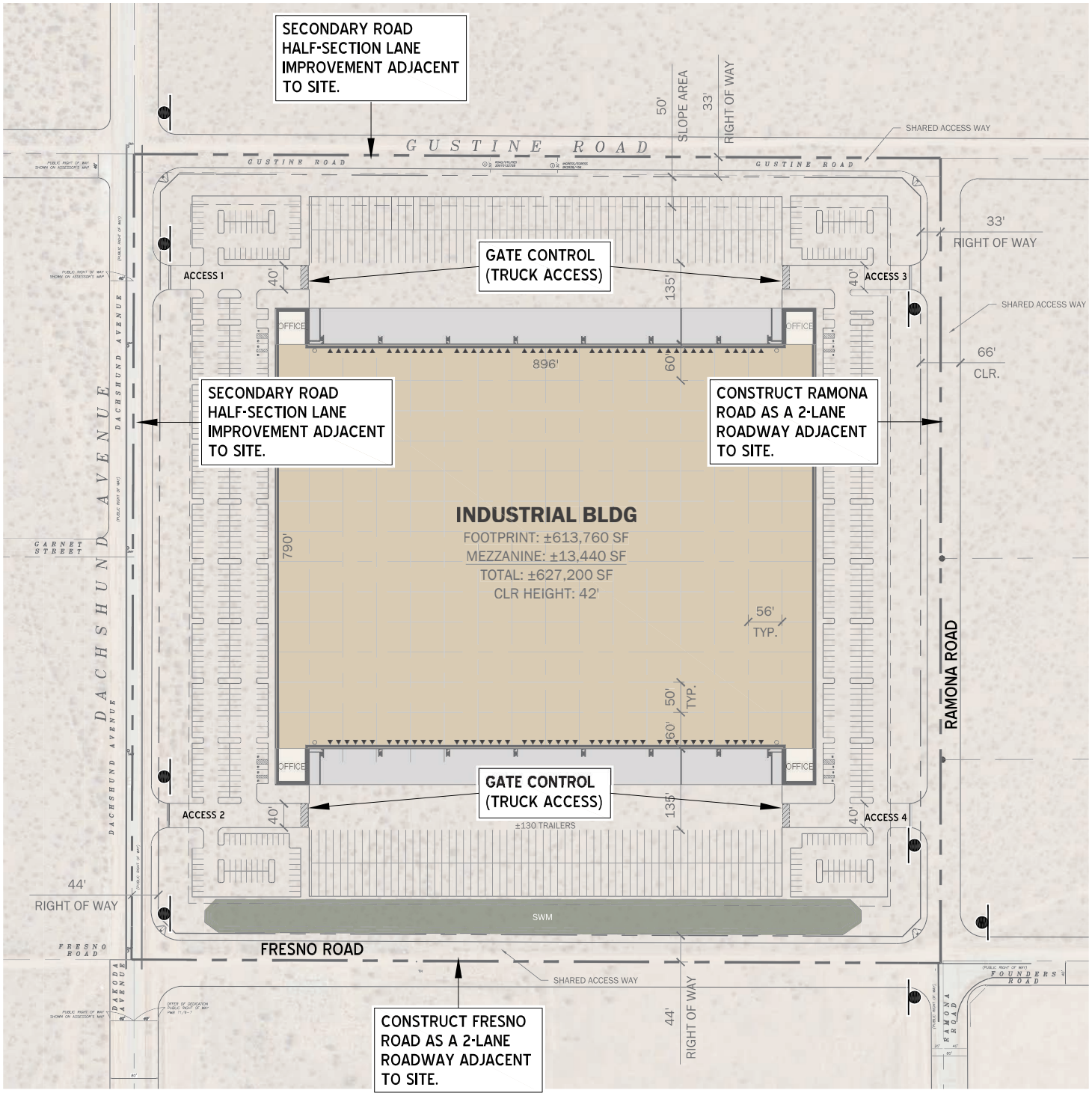
Recommendation 11 – Gustine Road is an east-west oriented roadway located along the site's northern boundary. The Project is to construct Gustine Road from the Project's western boundary (Dachshund Avenue) to the site's eastern boundary (Ramona Road) at its ultimate half-section width as a secondary roadway (ultimate 88-foot right-of-way), consistent with the Town's standards. The Project will also provide an additional 12 feet of pavement width to accommodate one westbound lane from the Project's eastern boundary to Dachshund Avenue to facilitate site access.

Recommendation 12 – Fresno Road is an east-west oriented roadway located along the site's southern boundary. The Project is to construct Fresno Road from the Project's western boundary (Dachshund Avenue) to the site's eastern boundary (Ramona Road) as a 2-lane local roadway.

On-site traffic signing and striping should be implemented agreeable with the provisions of the California Manual on Uniform Traffic Control Devices (CA MUTCD) and in conjunction with detailed construction plans for the Project site.

Sight distance at each project access point should be reviewed with respect to standard California Department of Transportation (Caltrans) and Town of Apple Valley sight distance standards at the time of preparation of final grading, landscape, and street improvement plans.

EXHIBIT 1-5: SITE ACCESS RECOMMENDATIONS



LEGEND:

= STOP SIGN

N

1.6 QUEUING ANALYSIS

The traffic modeling and signal timing optimization software package SimTraffic has been utilized to assess the queues, for both on-site roadways (Project design features) and off-site interchange off-ramp queues, for Opening Year (2027) With Improvement conditions. SimTraffic is designed to model networks of signalized and unsignalized intersections, with the primary purpose of checking and fine-tuning signal operations. SimTraffic uses the input parameters from Synchro to generate random simulations. These random simulations generated by SimTraffic have been utilized to determine the 95th percentile queue lengths observed for each applicable turn lane. A SimTraffic simulation has been recorded up to 5 times, during the weekday AM and weekday PM peak hours, and has been seeded for 5-minute periods with 15-minute recording intervals.

1.6.1 OFF-SITE QUEUING

Existing (2024) Conditions

Although not required by County Guidelines, a review of freeway off-ramp queues has also been included at the request of Caltrans. Based on the results of this analysis, there are currently no freeway off-ramp movements found to exceed available off-ramp storage capacity during the weekday AM or PM peak 95th percentile traffic flows.

Cumulative Traffic Conditions

The following movements are anticipated to exceed available off-ramp storage capacity during the weekday AM or PM peak 95th percentile traffic flows under Opening Year Cumulative (2027) Without Project traffic conditions:

- I-15 Northbound Ramps & Stoddard Wells Road (#7) – Southbound shared left-through-right – AM and PM peak hours

1.6.2 ON-SITE QUEUING

The results of the queuing analysis worksheets for the weekday AM and PM peak hours are provided in Appendix 1.2 of this report for Opening Year Cumulative (2027) With Project traffic conditions and have been used to verify the recommended pocket lengths for each of the Project access intersections, as discussed in Section 1.5 *Recommendations*.

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2 METHODOLOGIES

This section of the report presents the methodologies used to perform the traffic analyses summarized in this report. The methodologies described are consistent with Town of Apple Valley's Traffic Study Guidelines.

2.1 LEVEL OF SERVICE

Traffic operations of roadway facilities are described using the term "Level of Service" (LOS). LOS is a qualitative description of traffic flow based on several factors, such as speed, travel time, delay, and freedom to maneuver. Six levels are typically defined ranging from LOS A, representing completely free-flow conditions, to LOS F, representing a breakdown in flow resulting in stop-and-go conditions. LOS E represents operations at or near capacity, an unstable level where vehicles are operating with the minimum spacing for maintaining uniform flow.

2.2 INTERSECTION CAPACITY ANALYSIS

The definitions of LOS for interrupted traffic flow (flow restrained by the existence of traffic signals and other traffic control devices) differ slightly depending on the type of traffic control. The LOS is typically dependent on the quality of traffic flow at the intersections along a roadway. The 7th Edition Highway Capacity Manual (HCM) methodology expresses the LOS at an intersection in terms of delay time for the various intersection approaches. (4) The HCM uses different procedures depending on the type of intersection control.

2.2.1 SIGNALIZED INTERSECTIONS

The Town of Apple Valley requires signalized intersection operations analysis based on the methodology described in the HCM. (4) Intersection LOS operations are based on an intersection's average control delay. Control delay includes initial deceleration delay, queue move-up time, stopped delay, and final acceleration delay. For signalized intersections, LOS is related to the average control delay per vehicle and is correlated to a LOS designation as described in Table 2-1. The saturation flow rates utilized are consistent with the rates identified in the San Bernardino County CMP.

The traffic modeling and signal timing optimization software package Synchro (Version 11) is utilized to analyze signalized intersections within the study area. Synchro is a macroscopic traffic software program that is based on the signalized intersection capacity analysis as specified in the HCM. Macroscopic level models represent traffic in terms of aggregate measures for each movement at the study intersections. Equations are used to determine measures of effectiveness such as delay and queue length. The level of service and capacity analysis performed by Synchro takes into consideration optimization and coordination of signalized intersections within a network.

TABLE 2-1: SIGNALIZED INTERSECTION LOS THRESHOLDS

Description	Average Control Delay (Seconds), V/C ≤ 1.0	Level of Service, V/C ≤ 1.0[1]
Operations with very low delay occurring with favorable progression and/or short cycle length.	0 to 10.00	A
Operations with low delay occurring with good progression and/or short cycle lengths.	10.01 to 20.00	B
Operations with average delays resulting from fair progression and/or longer cycle lengths. Individual cycle failures begin to appear.	20.01 to 35.00	C
Operations with longer delays due to a combination of unfavorable progression, long cycle lengths, or high V/C ratios. Many vehicles stop and individual cycle failures are noticeable.	35.01 to 55.00	D
Operations with high delay values indicating poor progression, long cycle lengths, and high V/C ratios. Individual cycle failures are frequent occurrences. This is considered to be the limit of acceptable delay.	55.01 to 80.00	E
Operation with delays unacceptable to most drivers occurring due to over saturation, poor progression, or very long cycle lengths.	80.01 and up	F

The peak hour traffic volumes have been adjusted using a peak hour factor (PHF) to reflect peak 15-minute volumes. Customary practice for LOS analysis is to use a peak 15-minute rate of flow. However, flow rates are typically expressed in vehicles per hour. The PHF is the relationship between the peak 15-minute flow rate and the full hourly volume (e.g., PHF = [Hourly Volume] / [4 x Peak 15-minute Flow Rate]). The use of a 15-minute PHF produces a more detailed analysis as compared to analyzing vehicles per hour. Existing PHFs have been used for all analysis scenarios. Per the HCM, PHF values over 0.95 often are indicative of high traffic volumes with capacity constraints on peak hour flows while lower PHF values are indicative of greater variability of flow during the peak hour. (4)

2.2.2 UNSIGNALIZED INTERSECTIONS

The Town of Apple Valley requires the operations of unsignalized intersections to be evaluated using the methodology described in the HCM. (4) The LOS rating is based on the weighted average control delay expressed in seconds per vehicle (see Table 2-2). At two-way or side-street stop-controlled intersections, LOS is calculated for each controlled movement and for the left turn movement from the major street, as well as for the intersection as a whole. For approaches composed of a single lane, the delay is computed as the average of all movements in that lane. Delay for the intersection is reported for the worst individual movement at a two-way stop-controlled intersection. For all-way stop-controlled intersections, LOS is computed for the intersection as a whole (average delay).

TABLE 2-2: UNSIGNALIZED INTERSECTION LOS THRESHOLDS

Description	Average Control Delay (Seconds), V/C ≤ 1.0	Level of Service, V/C ≤ 1.0[1]
Little or no delays.	0 to 10.00	A
Short traffic delays.	10.01 to 15.00	B
Average traffic delays.	15.01 to 25.00	C
Long traffic delays.	25.01 to 35.00	D
Very long traffic delays.	35.01 to 50.00	E
Extreme traffic delays with intersection capacity exceeded.	> 50.00	F

2.3 TRAFFIC SIGNAL WARRANT ANALYSIS METHODOLOGY

The term "signal warrants" refers to the list of established criteria used by Caltrans and other public agencies to quantitatively justify or ascertain the potential need for installation of a traffic signal at an otherwise unsignalized intersection. This TA uses the signal warrant criteria presented in the latest edition of the California Department of Transportation (Caltrans) California Manual on Uniform Traffic Control Devices *(CA MUTCD)* for all study area intersections. (6)

The signal warrant criteria for Existing conditions are based upon several factors, including volume of vehicular and pedestrian traffic, frequency of accidents, and location of school areas. The CA MUTCD indicates that the installation of a traffic signal should be considered if one or more of the signal warrants are met. (6) Specifically, this TA utilizes the Peak Hour Volume-based Warrant 3 as the appropriate representative traffic signal warrant analysis for existing study area intersections for all analysis scenarios. Warrant 3 is appropriate to use for this TA because it provides specialized warrant criteria for intersections with urban characteristics (e.g., adjacent major streets operating at or below 40 miles per hour) or rural characteristics (e.g., adjacent major streets operating above 40 miles per hour). For the purposes of this study, the speed limit was the basis for determining whether Urban or Rural warrants were used for a given intersection.

Future intersections that do not currently exist have been assessed regarding the potential need for new traffic signals based on future average daily traffic (ADT) volumes, using the Caltrans planning level ADT-based signal warrant analysis worksheets.

The traffic signal warrant analysis for Existing (2024) conditions are presented in Section 3 *Area Conditions.* The traffic signal warrant analyses for future conditions are presented in Section 5 *Opening Year Cumulative (2027) Traffic Conditions*.

It is important to note that a signal warrant defines the minimum condition under which the installation of a traffic signal might be warranted. Meeting this threshold condition does not require that a traffic control signal be installed at a particular location, but rather, that other traffic factors and conditions be evaluated in order to determine whether the signal is truly justified. It should also be noted that signal warrants do not necessarily correlate with LOS. An intersection may satisfy a signal warrant condition and operate at or above acceptable LOS or operate below acceptable LOS and not meet a signal warrant.

2.4 QUEUING ANALYSIS

The 95th percentile queuing of vehicles has been assessed at the Project access driveways to determine appropriate turn lane lengths. The traffic progression analysis tool and HCM intersection analysis program, Synchro, has been used to assess the potential deficiencies/needs of the Project access intersections. Storage (turn-pocket) length recommendations at the driveways have been based upon the 95th percentile queue resulting from the Synchro progression analysis. The footnote from the Synchro output sheets indicates if the 95th percentile cycle exceeds capacity. Traffic is simulated for two complete cycles of the 95th percentile traffic in Synchro in order to account for the effects of spillover between cycles. In practice, the 95th percentile queue shown will rarely be exceeded and the queues shown with the footnote are acceptable for the design of storage bays. The 95th percentile queue is derived from the average queue plus 1.65 standard deviations. The 95th percentile queue is not necessarily ever observed, it is simply based on statistical calculations.

2.5 MINIMUM ACCEPTABLE LEVELS OF SERVICE (LOS)

According to the Town of Apple Valley's General Plan, LOS C or better is preferable, but LOS D is the minimum acceptable condition that should be maintained during the peak commute hours, where feasible. Therefore, for the purposes of this traffic analysis, LOS D has also been considered the acceptable threshold for all study area intersections.

2.6 DEFICIENCY CRITERIA

This section outlines the methodology used in this analysis related to identifying circulation system deficiencies. Per the County's Traffic Study Guidelines, at intersections where the LOS falls below, or is expected to fall below an acceptable threshold with or without the addition of the Project, feasible measures shall be identified to mitigate the Project's impacts for all Project scenario conditions. The TA calculates the Project's fair share towards each improvement required to serve cumulative conditions with or without the Project.

2.7 PROJECT FAIR SHARE CALCULATION METHODOLOGY

In cases where this TA identifies that the Project would contribute additional traffic volumes to traffic deficiencies, Project fair share costs of improvements necessary to address deficiencies have been identified. The Project's fair share cost of improvements is determined based on the following equation, which is the ratio of Project traffic to new future traffic, and new future traffic is Project traffic plus future development traffic:

Project Fair Share % = Project AM/PM Traffic / (2027 With Project AM/PM Total Traffic – Existing AM/PM Traffic)

The Project fair share percentage has been calculated for both the AM peak hour and PM peak hour and the higher of the two has been selected. The Project fair share contribution calculations are presented in Section 6 *Local and Regional Funding Mechanisms* of this TA.

3 AREA CONDITIONS

This section provides a summary of the existing circulation network, the Town of Apple Valley General Plan Circulation Network, and a review of existing peak hour intersection operations, traffic signal warrant, and freeway off-ramp queuing analyses.

3.1 EXISTING CIRCULATION NETWORK

Pursuant to the agreement with Town of Apple Valley staff (Appendix 1.1), the study area includes a total of 17 existing and future intersections as shown previously on Exhibit 1-3. Exhibit 3-1 illustrates the study area intersections located near the proposed Project and identifies the number of through traffic lanes for existing roadways and intersection traffic controls.

3.2 TOWN OF APPLE VALLEY GENERAL PLAN CIRCULATION ELEMENT

The roadway classifications and planned (ultimate) roadway cross-sections of the major roadways within the study area, as identified on the Town of Apple Valley General Plan Circulation Element, are described subsequently. Exhibit 3-2 shows the Town of Apple Valley General Plan Circulation Element. Exhibit 3-3 illustrates the Town of Apple Valley General Plan roadway cross-sections.

Major Divided Parkways are designed to accommodate six travel lanes with a 20-foot center median and 15-foot parkways on each side of the roadway, within a 142-foot right-of-way. Dale Evans Parkway is classified as a Major Divided Parkway in the Town of Apple Valley.

Major Divided Arterials are designed to accommodate six travel lanes with a 12-foot center turn lane or median and 10-foot bike or parking lanes on each side of the roadway, within a 128-foot right-of-way. Stoddard Wells Road, south of Johnson Road is classified as a Major Divided Arterial in the Town of Apple Valley.

Major Roads are designed to accommodate four travel lanes with a 12-foot center turn lane or median and two bike or parking lanes, within a 104-foot right-of-way. The following study area roadways within the Town of Apple Valley are classified as Major Roads:

- Stoddard Wells Road, north of Johnson Road
- Johnson Road
- Corwin Road
- Dakota Road, south of Fresno Road

Secondary Roads are designed to accommodate four travel lanes with a bike or parking lane, within an 88-foot right-of-way. The following study area roadways within the Town of Apple Valley are classified as Secondary Roads:

- Navajo Road
- Dachshund Avenue
- Gustine Road

EXHIBIT 3-1: EXISTING TRAFFIC CONTROLS AND INTERSECTION LANE CONFIGURATIONS

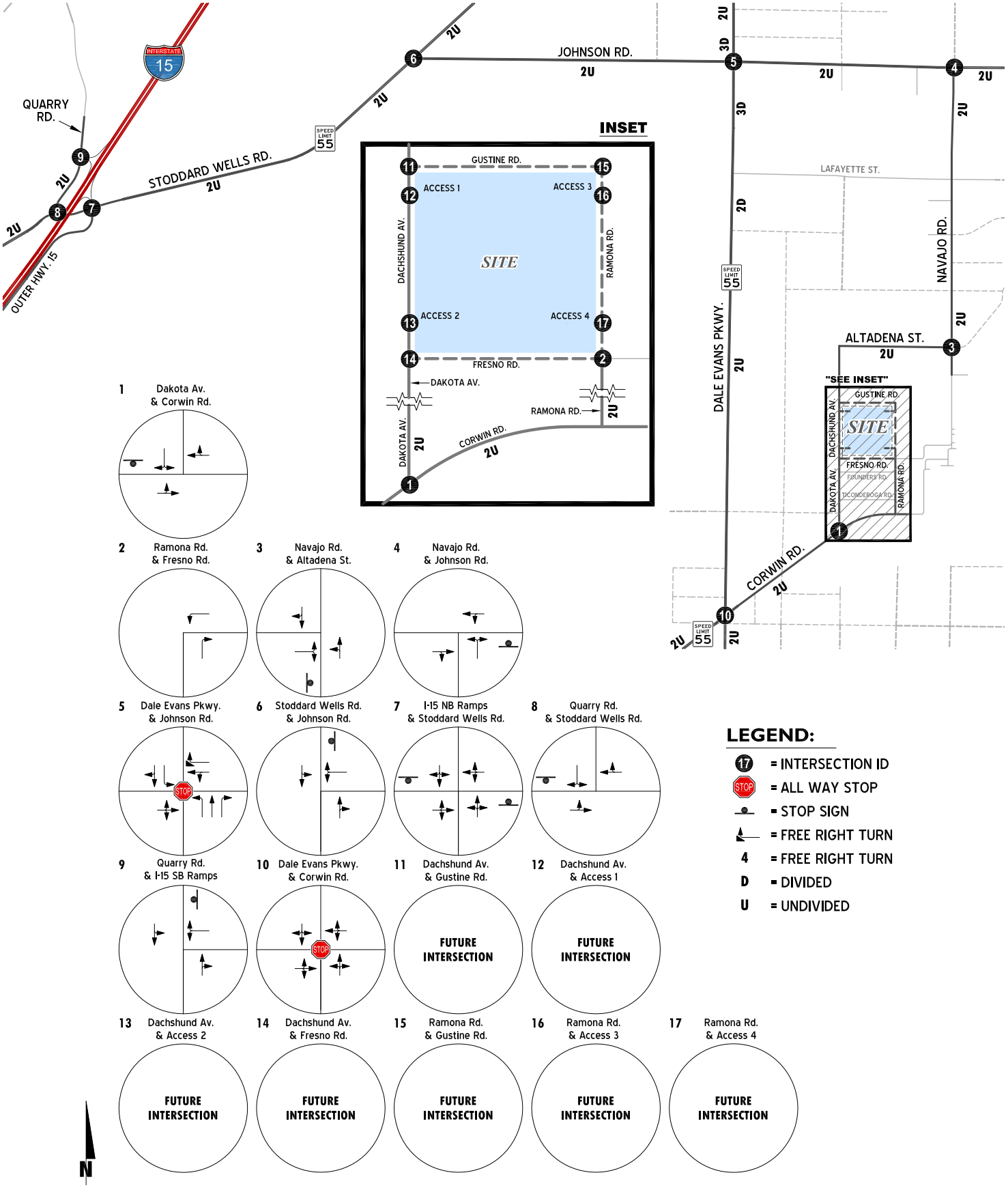


EXHIBIT 3-2: TOWN OF APPLE VALLEY GENERAL PLAN STREET SYSTEM

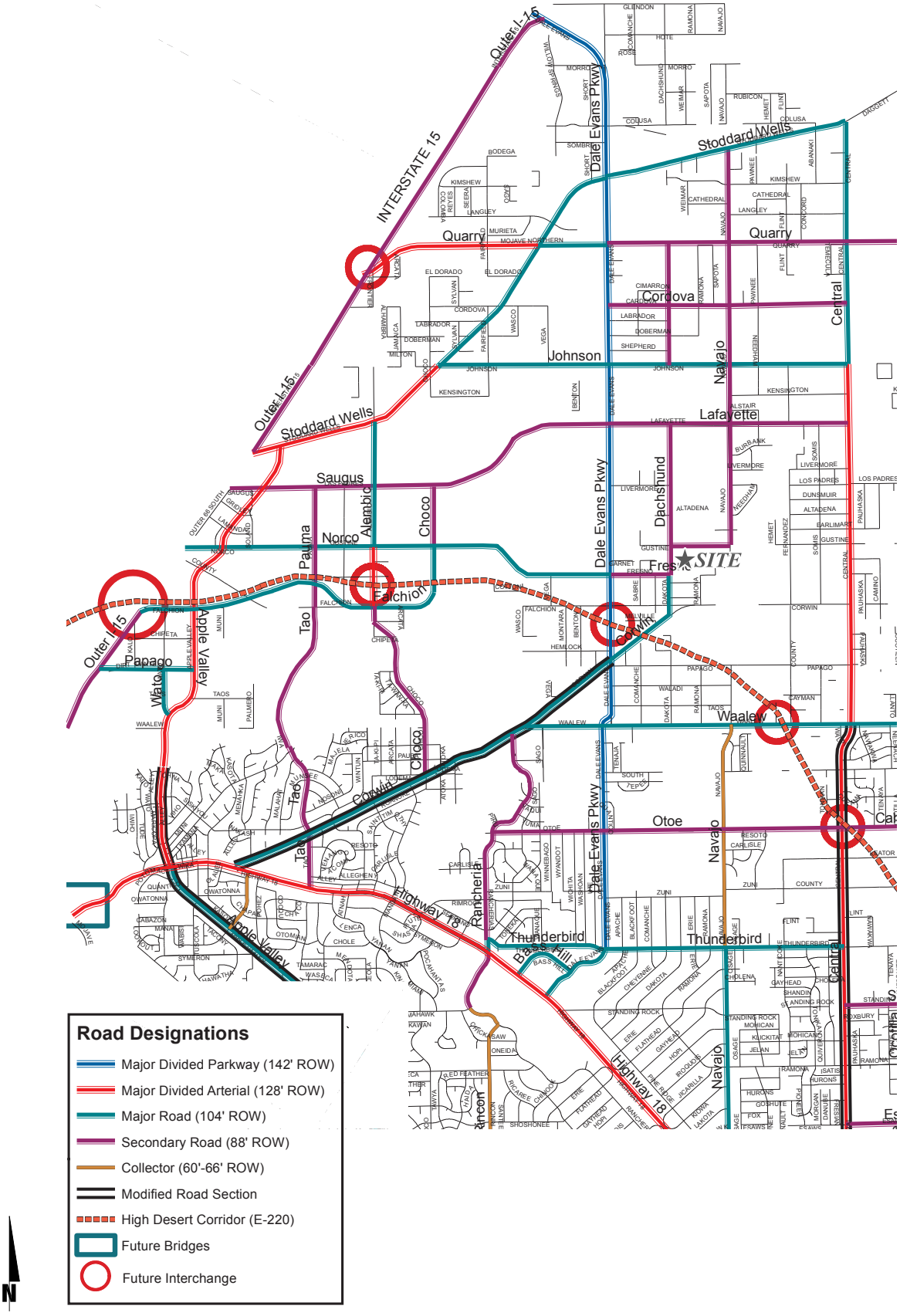
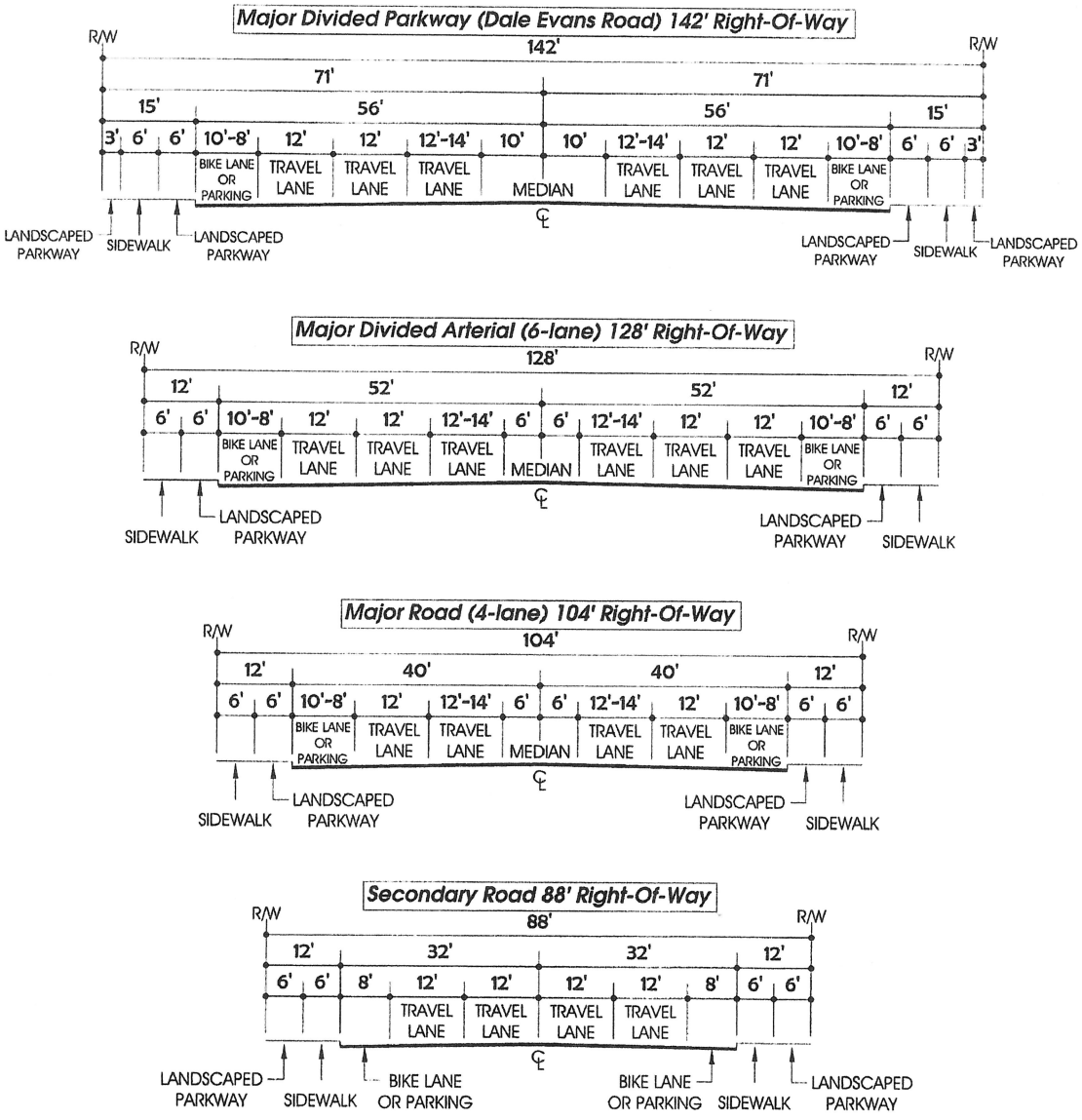
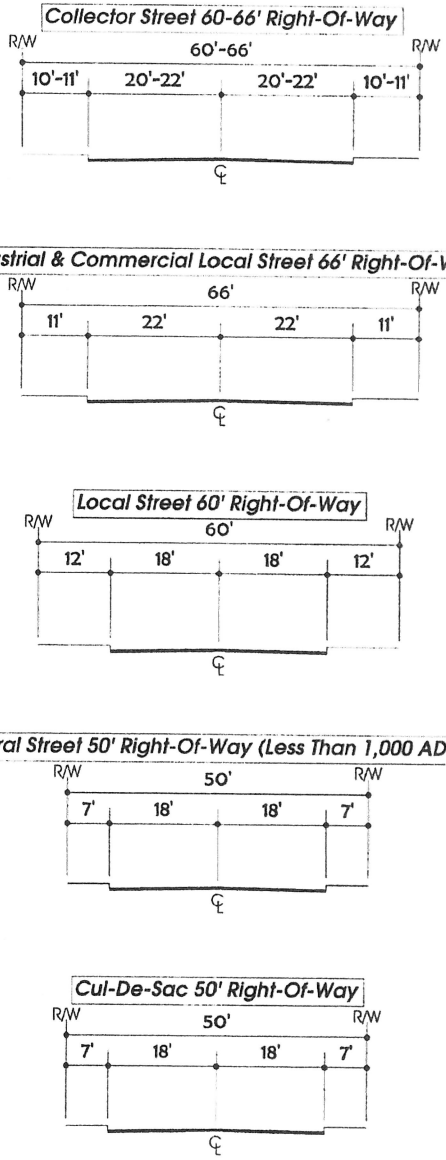


EXHIBIT 3-3: TOWN OF APPLE VALLEY GENERAL PLAN ROADWAY CROSS-SECTIONS





3.3 BICYCLE AND PEDESTRIAN FACILITIES

Exhibit 3-4 illustrates the Town of Apple Valley bike paths. As shown at Exhibit 3-4, there are proposed Class II bike lanes on Dale Evans Parkway (between Fresno and Corwin Road), and Class I bike paths along Stoddard Wells Road, Dale Evans Parkway, and Corwin Road. There are no pedestrian facilities in close proximity to the Project. Field observations indicate nominal pedestrian and bicycle activity within the study area.

3.4 TRANSIT SERVICE

The study area is currently served by Victor Valley Transit Authority (VVTA), a public transit agency serving various jurisdictions within San Bernardino County. The existing transit routes within the study area are shown on Exhibit 3-5. Route 42 currently runs along Dale Evans Parkway, Johnson Road, and Corwin Road.

Transit service is reviewed and updated by VVTA periodically to address ridership, budget and community demand needs. Changes in land use can affect these periodic adjustments which may lead to either enhanced or reduced service where appropriate. As such, it is recommended that the applicant work in conjunction with VVTA to potentially provide bus service to the site.

3.5 TRUCK ROUTES

The Town of Apple Valley truck routes are shown on Exhibit 3-6. Through truck routes are included on Dale Evans Parkway, and Johnson Road east of Dale Evans Parkway in the study area. Local Truck Routes are also shown on Stoddard Wells Road, Johnson Road west of Dale Evans Parkway, Navajo Road, Fresno Road. These designated truck routes have been utilized for both the proposed Project and future cumulative development projects for the purposes of this TA.

3.6 EXISTING (2024) TRAFFIC COUNTS

The intersection LOS analysis is based on the traffic volumes observed during the peak hour conditions using traffic count data collected in April 2024 and late August 2024. The following peak hours were selected for analysis:

- Weekday AM Peak Hour (peak hour between 7:00 AM and 9:00 AM)
- Weekday PM Peak Hour (peak hour between 4:00 PM and 6:00 PM)

The 2024 weekday AM and weekday PM peak hour count data is representative of typical weekday peak hour traffic conditions in the study area. There were no observations made in the field that would indicate atypical traffic conditions on the count dates, such as construction activity or detour routes and near-by schools were in session and operating on normal schedules. The raw manual peak hour turning movement traffic count data sheets are included in Appendix 3.1. Existing weekday AM and weekday PM peak hour intersection volumes are also shown on Exhibit 3-7. Existing weekday ADT volumes are shown on Exhibit 3-7. Where actual 24-hour tube count data was not available, Existing ADT volumes were based upon factored intersection peak hour counts collected using the following formula for each intersection leg:

Weekday PM Peak Hour (Approach Volume + Exit Volume) x 8.00 = Leg Volume

EXHIBIT 3-4: TOWN OF APPLE VALLEY EXISTING AND PLANNED BICYCLE FACILITIES

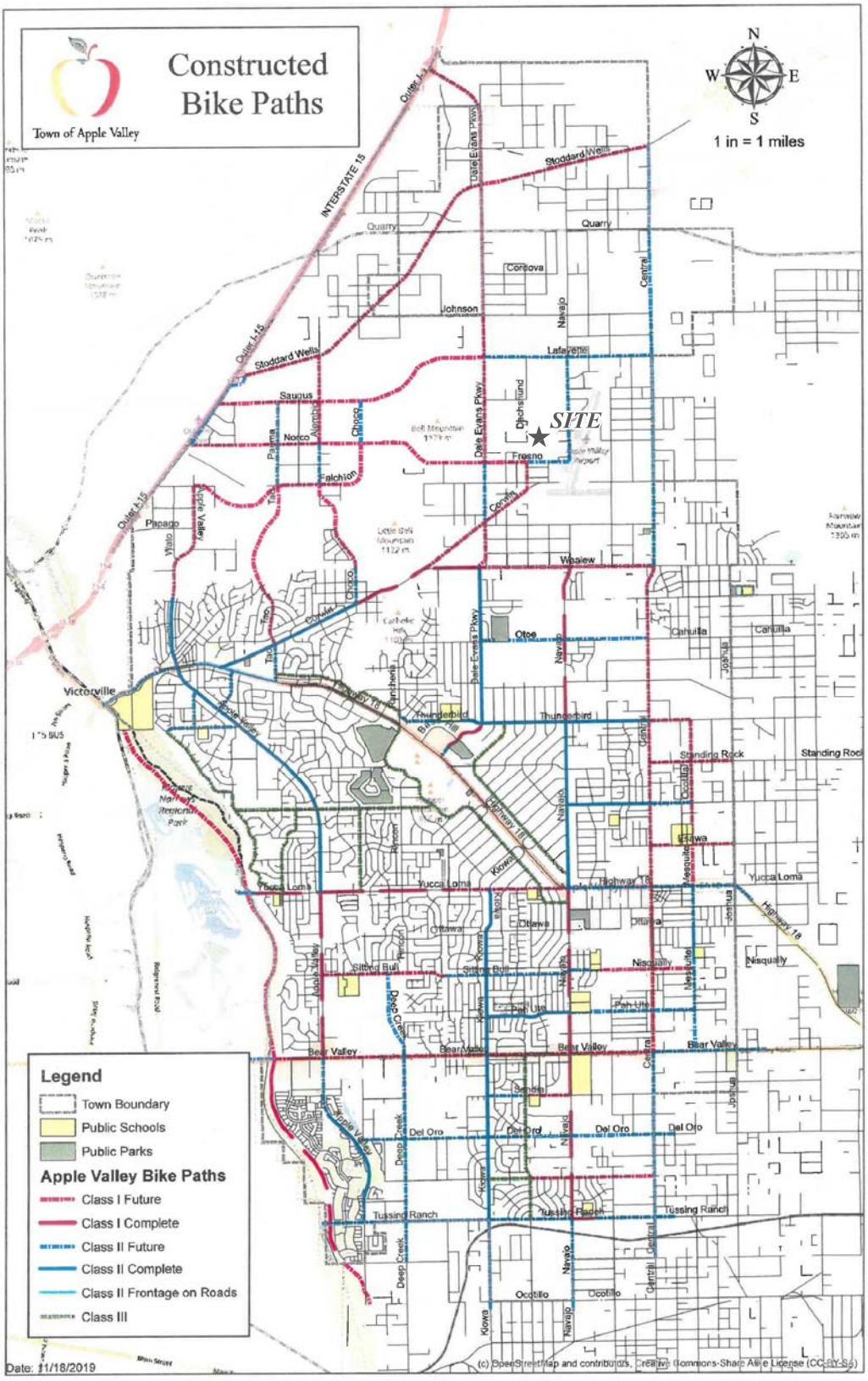
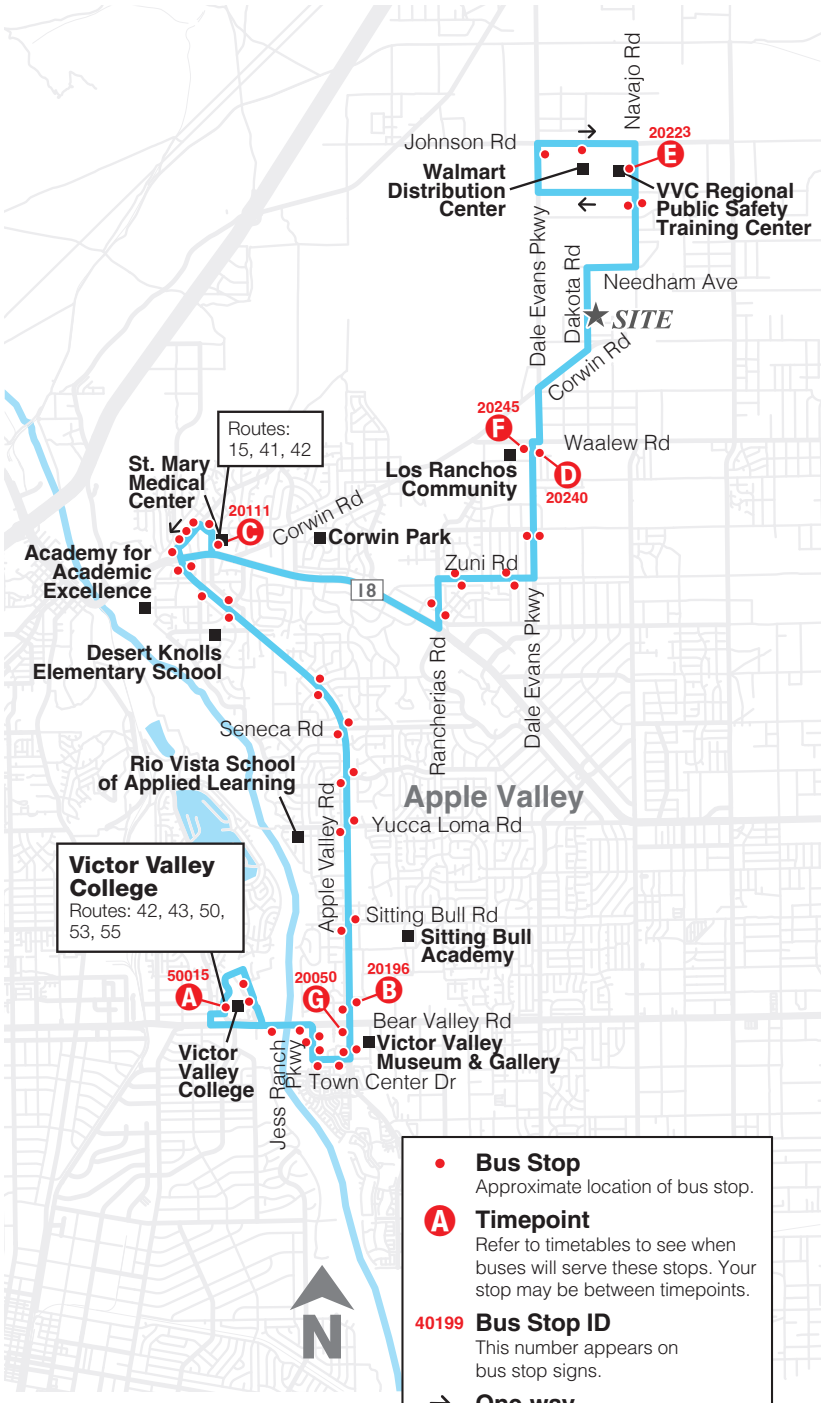


EXHIBIT 3-5: EXISTING TRANSIT ROUTES

42 Apple Valley Road



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EXHIBIT 3-6: TOWN OF APPLE VALLEY TRUCK ROUTES

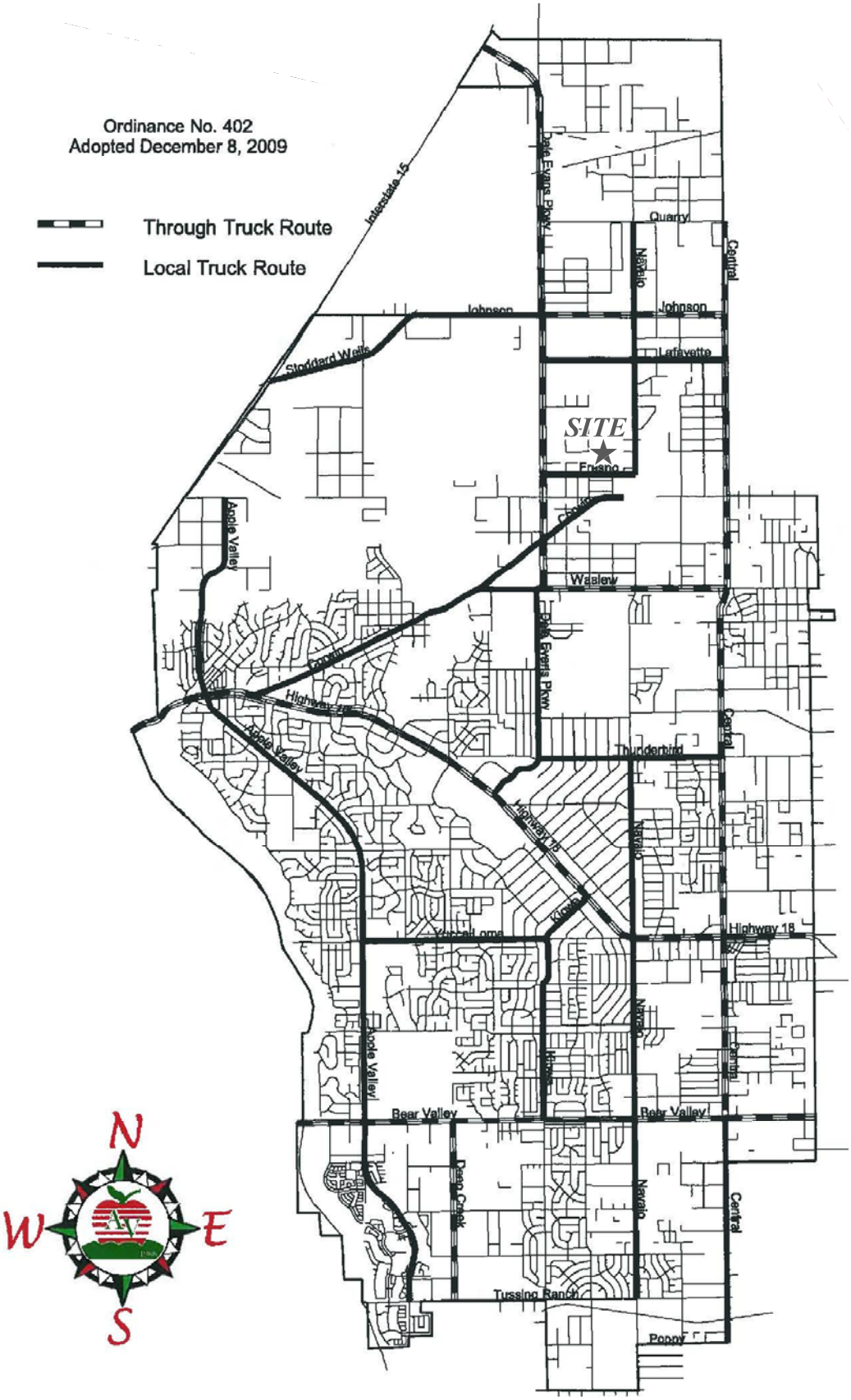
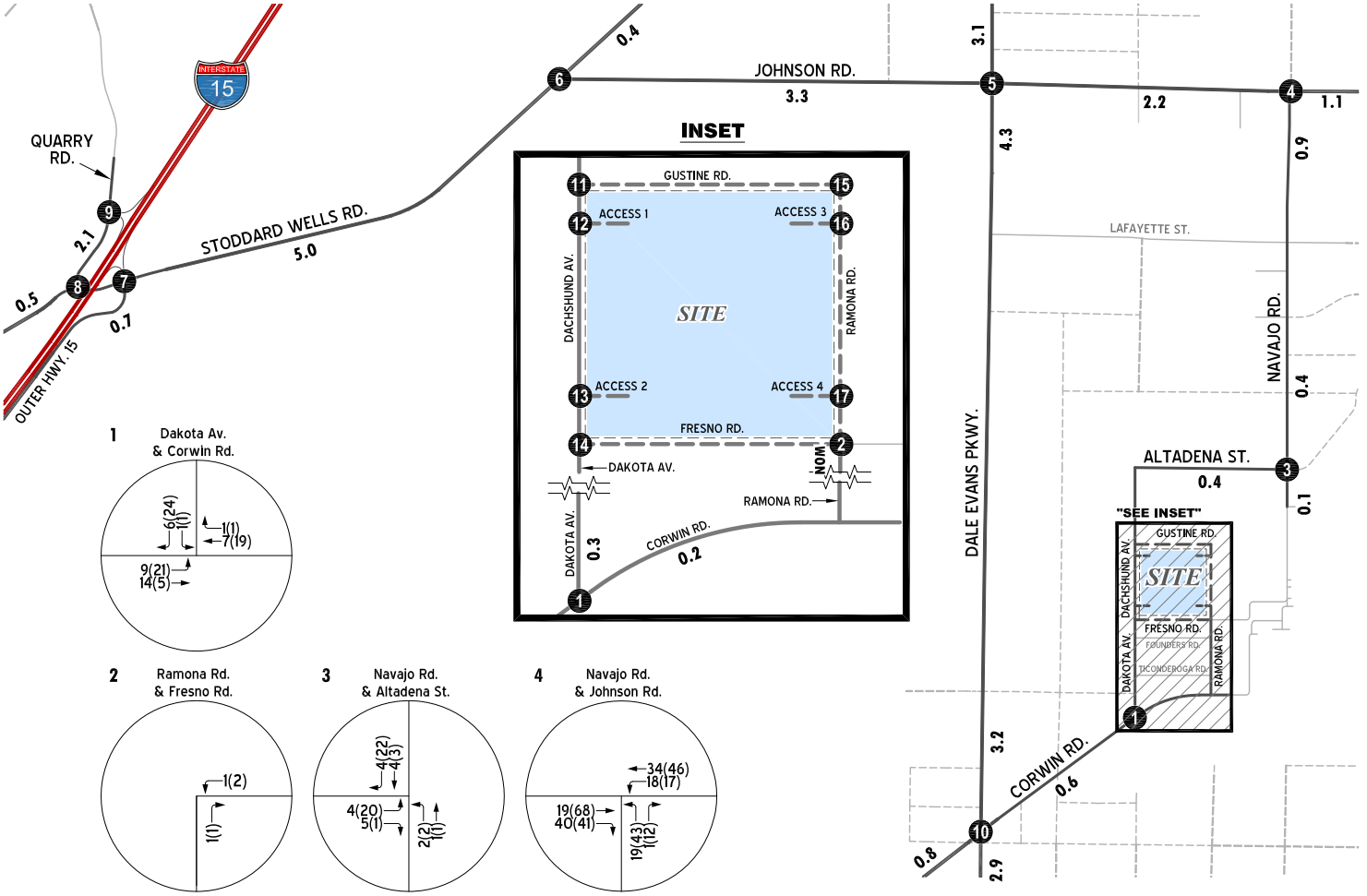
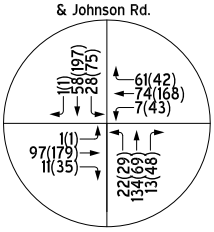
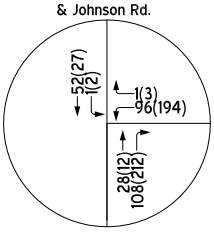
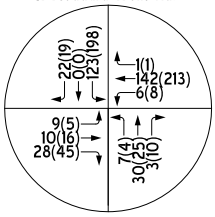


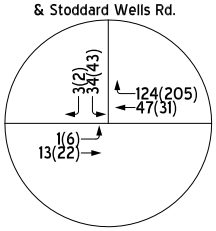
EXHIBIT 3-7: EXISTING (2024) TRAFFIC VOLUMES (PASSENGER CAR EQUIVALENT)

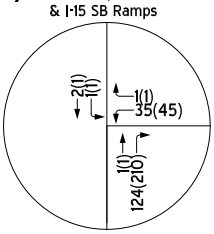


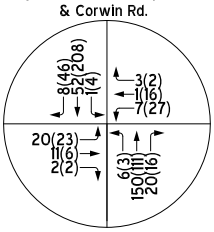


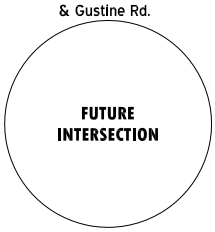


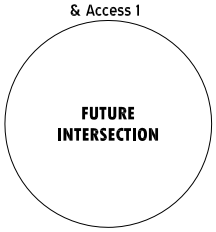


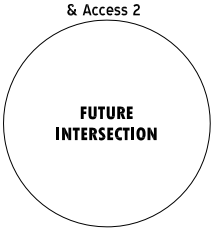


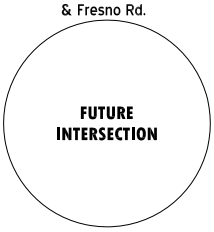


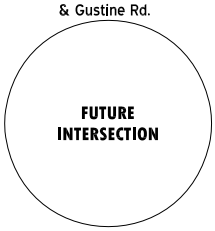


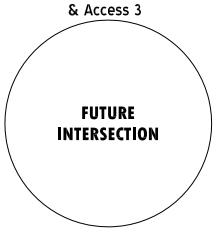


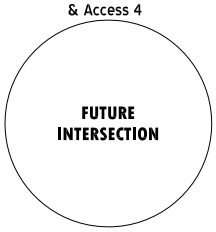












LEGEND:

- (#) = INTERSECTION ID
- = FUTURE ROADWAY
- 10.0 = VEHICLES PER DAY (1000'S)
- NOM = NOMINAL, LESS THAN 50 VEHICLES PER DAY

A comparison of the PM peak hour and daily traffic volumes of various roadway segments within the study area indicate that the peak-to-daily relationship is approximately 12.50 percent. As such, the above equation utilizing a factor of 8.00 estimates the ADT volumes on the study area roadway segments assuming a peak-to-daily relationship of approximately 10.35 percent (i.e., 1/0.1250 = 8.00) and was assumed to sufficiently estimate ADT volumes for planning-level analyses.

3.7 INTERSECTION OPERATIONS ANALYSIS

Existing peak hour traffic operations have been evaluated for the study area intersections based on the analysis methodologies presented in Section 2.2 *Intersection Capacity Analysis* of this report. The intersection operations analysis results are summarized in Table 3-1, which indicates that all the study area intersections are currently operating at an acceptable LOS during the peak hours. The intersection operations analysis worksheets are included in Appendix 3.2 of this TA.

TABLE 3-1: INTERSECTION ANALYSIS FOR EXISTING (2024) CONDITIONS

#	Intersection	Traffic Control[1]	Delay[2] (secs.) AM	Delay[2] (secs.) PM	Level of Service AM	Level of Service PM
1	Dakota Av. / Corwin Rd.	CSS	8.5	8.6	A	A
2	Ramona Rd. / Fresno Rd.	CSS	8.5	8.5	A	A
3	Navajo Rd. / Altadena St.	CSS	8.5	8.7	A	A
4	Navajo Rd. / Johnson Rd.	CSS	9.4	10.0	A	B
5	Dale Evans Pkwy. / Johnson Rd.	AWS	9.8	16.5	A	C
6	Stoddard Wells Rd. / Johnson Rd.	CSS	10.0	12.5	B	B
7	I-15 NB Ramps / Stoddard Wells Rd.	CSS	11.2	21.7	B	C
8	Quarry Rd. / Stoddard Wells Rd.	CSS	9.4	10.7	A	B
9	Quarry Rd. / I-15 SB Ramps	CSS	9.1	10.0	A	B
10	Dale Evans Pkwy. / Corwin Rd.	AWS	7.9	8.7	A	A
11	Dachshund Av. / Gustine Rd.	CSS	Future Intersection			
12	Dachshund Av. / Access 1	CSS	Future Intersection			
13	Dachshund Av. / Access 2	CSS	Future Intersection			
14	Dachshund Av. / Fresno Rd.	CSS	Future Intersection			
15	Ramona Rd. / Gustine Rd.	CSS	Future Intersection			
16	Ramona Rd. / Access 3	CSS	Future Intersection			
17	Ramona Rd. / Access 4	CSS	Future Intersection			

* **BOLD** = LOS does not meet the applicable jurisdictional requirements (i.e., unacceptable LOS).

[1] AWS = All-Way Stop; CSS = Cross-Street Stop; CSS = Improvement

[2] Per the Highway Capacity Manual (7th Edition), overall average intersection delay and level of service are shown for intersections with a traffic signal or all way stop control. For intersections with cross street stop control, the delay and level of service for the worst individual movement (or movements sharing a single lane) are shown.

3.8 TRAFFIC SIGNAL WARRANT ANALYSIS

Traffic signal warrants for Existing traffic conditions are based on existing peak hour intersection turning volumes. The following unsignalized study area intersection currently warrants a traffic signal for Existing traffic conditions:

- Dale Evans Parkway & Johnson Road (#5)

Existing conditions traffic signal warrant analysis worksheets are provided in Appendix 3.3.

3.9 QUEUING ANALYSIS

Queuing analysis findings are presented in Table 3-2. As shown in Table 3-2, there are currently no study area off-ramps experiencing queuing issues during the peak hours under Existing (2024) traffic conditions. Worksheets for Existing traffic conditions queuing analysis are provided in Appendix 3.4.

TABLE 3-2: PEAK HOUR QUEUING SUMMARY FOR EXISTING (2024) CONDITIONS

#	Intersection	Movement	Available Stacking Distance (Feet)	95th Percentile Queue (Feet)		Acceptable? [1]	
				AM Peak Hour	PM Peak Hour	AM	PM
7	I-15 NB Ramps / Stoddard Wells Rd.	SBL/T/R	1,000	20	100	Yes	Yes
9	Quarry Rd. / I-15 SB Ramps	WBL/R	1,000	5	8	Yes	Yes

[1] Stacking Distance is acceptable if the required stacking distance is less than or equal to the stacking distance provided.

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4 PROJECTED FUTURE TRAFFIC

This section presents the traffic volumes estimated to be generated by the Project, as well as the Project's trip assignment onto the study area roadway network. The Project consists of the development of a 627,200 square foot industrial warehouse and distribution building.

The site is located between Dachshund Avenue (which becomes Dakota Road south of Fresno Road) and Ramona Road, south of Gustine Street and north of Fresno Road.

Access to the site will be accommodated via two driveways along Dachshund Avenue and two driveways on Ramona Road. All driveways are assumed to allow for full access (no turn restrictions). The Project is anticipated to have an Opening Year of 2027.

4.1 PROJECT TRIP GENERATION

Trip generation represents the amount of traffic which is both attracted to, and produced by, a development. Determining traffic generation for a specific project is therefore based upon forecasting the amount of traffic that is expected to be both attracted to, and produced by, the specific land uses being proposed for a given development. In order to develop the traffic characteristics of the high-cube warehouse land use for the Proposed Project, trip-generation statistics published in the TUMF High-Cube Warehouse Trip Generation Study (WSP, January 29, 2019) are used. The vehicle mix (passenger cars versus trucks) has been obtained from the ITE's Trip Generation Manual.

Table 4-1 shows the trip generation rates and resulting Project trip generation summary, which shows the Project is anticipated to generate a net total of 1,335 two-way vehicle trip-ends per day with 77 AM peak hour trips and 104 PM peak hour trips (actual vehicles).

PCE factors were applied to the trip generation rates for heavy trucks (large 2-axles, 3-axles, 4+-axles). PCEs allow the typical "real-world" mix of vehicle types to be represented as a single, standardized unit, such as the passenger car, to be used for the purposes of capacity and level of service analyses. The PCE factors are consistent with the recommended PCE factors in the County's Guidelines.

Table 4-2 shows the resulting Project trip generation summary in PCE, which shows the Project is anticipated to generate a total of 2,138 Passenger Car Equivalent (PCE) trip-ends per day with 123 AM PCE peak vehicle hour trips and 167 PM PCE peak hour vehicle trips.

4.2 PROJECT TRIP DISTRIBUTION

The Project trip distribution represents the directional orientation of traffic to and from the Project site. Trip distribution is the process of identifying the probable destinations, directions or traffic routes that will be utilized by Project traffic. The potential interaction between the planned land uses and surrounding regional access routes are considered, to identify the route where the Project traffic would distribute. The Project trip distribution represents the directional orientation of traffic to and from the Project site. The Project trip distributions are shown on Exhibit 4-1 for trucks and Exhibit 4-2 for passenger cars. The Project truck trip distribution patterns adhere to the Town's approved truck routes and were part of the TA scoping process (see Appendix 1.1).

TABLE 4-1: PROJECT TRIP GENERATION SUMMARY
ACTUAL VEHICLES

Proposed Project Trip Generation Rates[1]

Land Use	ITE LU Code	Quantity[2]	AM Peak Hour In	AM Peak Hour Out	AM Peak Hour Total	PM Peak Hour In	PM Peak Hour Out	PM Peak Hour Total	Daily
High-Cube Warehouse[3]	-	627.200 TSF	0.094	0.028	0.122	0.046	0.119	0.165	2.129
Passenger Cars			0.066	0.020	0.086	0.033	0.082	0.115	1.489
2 to 4-Axle+ Trucks			0.028	0.008	0.036	0.014	0.036	0.050	0.640

Proposed Project Trip Generation Results

Land Use	ITE LU Code	Quantity[2]	AM Peak Hour In	AM Peak Hour Out	AM Peak Hour Total	PM Peak Hour In	PM Peak Hour Out	PM Peak Hour Total	Daily
High-Cube Warehouse	-	627.200 TSF							
- Passenger Cars			41	13	54	21	52	73	934
- Truck Trips (Actual)			18	5	23	9	22	31	401
PROJECT TOTAL TRIPS (ACTUAL VEHICLES)[4]			59	18	77	30	74	104	1,335

[1] Trip Generation Source: Institute of Transportation Engineers (ITE), Trip Generation Manual, 11th Edition (2021).

[2] TSF = Thousand Square Feet; DU = Dwelling Units

[3] Source: *TUMF High-Cube Warehouse Trip Generation Study*. Prepared by WSP, January 2019.
Passenger and Truck AM/PM peak hour (in/out) splits are estimated from based on ITE peak-to-daily relationship
Truck Daily Rate Source: *Notice of Preparation of a Draft Environmental Impact Report for the Proposed Potrero Logistics Center*.
Prepared by South Coast Air Quality Management District (SCAQMD), June 2020.

[4] Total Net Trips (Actual Vehicles) = Passenger Cars + Net Truck Trips (Actual Trucks).

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TABLE 4-2: PROJECT TRIP GENERATION SUMMARY
PASSENGER CAR EQUIVALENT (PCE)

Project Trip Generation Rates[1]

Land Use	ITE LU Code	Quantity[2]	AM Peak Hour In	AM Peak Hour Out	AM Peak Hour Total	PM Peak Hour In	PM Peak Hour Out	PM Peak Hour Total	Daily
High-Cube Warehouse[3]	-	627.200 TSF	0.150	0.045	0.195	0.075	0.190	0.265	3.409
		Passenger Cars	0.066	0.020	0.086	0.033	0.082	0.115	1.489
		2 to 4-Axle+ Trucks (PCE = 3.0)	0.084	0.025	0.109	0.042	0.108	0.150	1.920

Project Trip Generation Results

Land Use	ITE LU Code	Quantity[2]	AM Peak Hour In	AM Peak Hour Out	AM Peak Hour Total	PM Peak Hour In	PM Peak Hour Out	PM Peak Hour Total	Daily
High-Cube Warehouse	-	627.200 TSF							
- Passenger Cars			41	13	54	21	52	73	934
- Truck Trips (PCE = 3.0)			53	16	69	26	68	94	1,204
PROJECT TOTAL EXTERNAL TRIPS (PCE)[4]			94	29	123	47	120	167	2,138

[1] Trip Generation Source: Institute of Transportation Engineers (ITE), Trip Generation Manual, 11th Edition (2021).

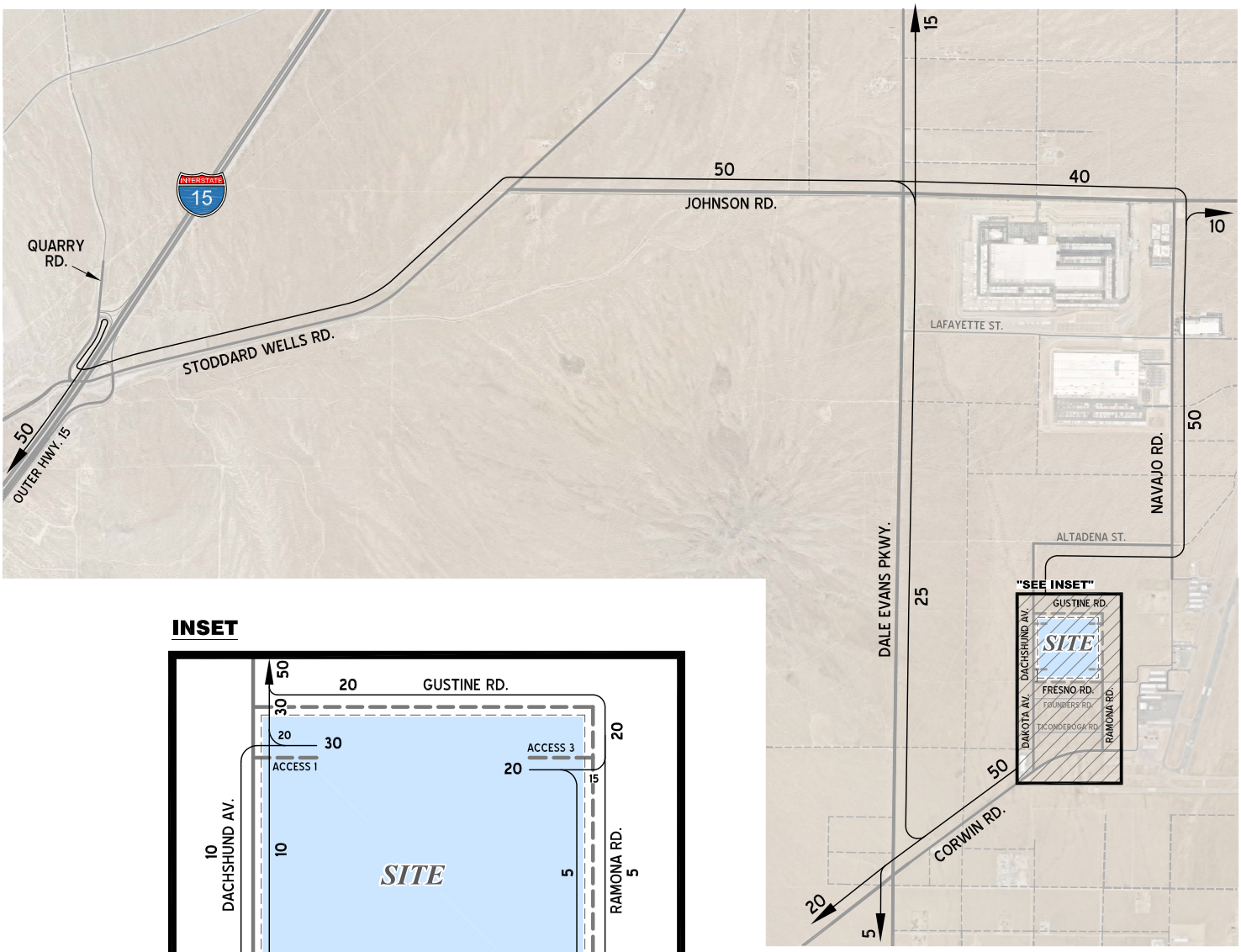
[2] TSF = Thousand Square Feet; DU = Dwelling Units

[3] Source: *TUMF High-Cube Warehouse Trip Generation Study* . Prepared by WSP, January 2019.
Passenger and Truck AM/PM peak hour (in/out) splits are estimated from based on ITE peak-to-daily relationship
Truck Daily Rate Source: *Notice of Preparation of a Draft Environmental Impact Report for the Proposed Potrero Logistics Center* .
Prepared by South Coast Air Quality Management District (SCAQMD), June 2020.

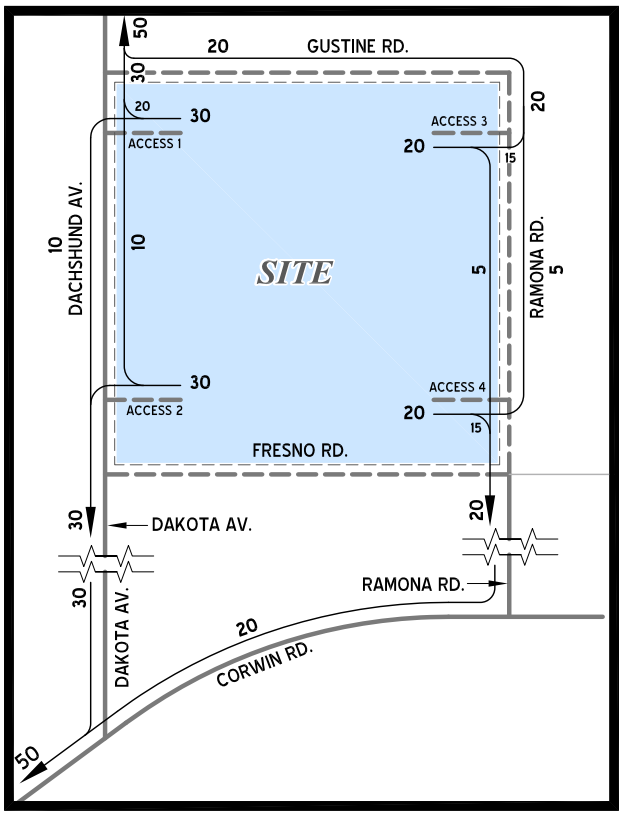
[4] Total Net Trips (PCE) = Passenger Cars + Net Truck Trips (Passenger Car Equivalent).

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EXHIBIT 4-1: PROJECT (TRUCK) TRIP DISTRIBUTION



INSET



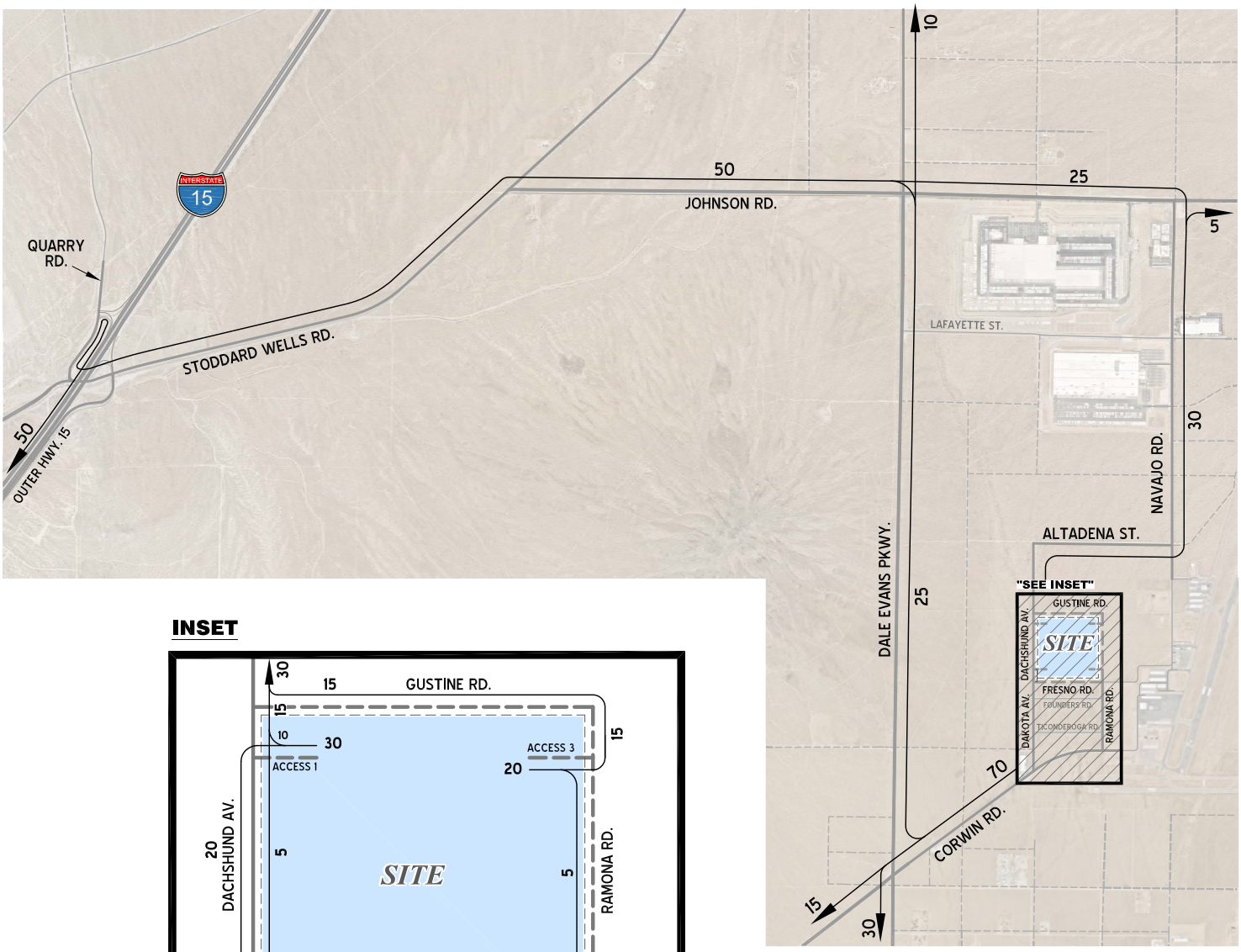
LEGEND:

10 = PERCENT TO/FROM PROJECT

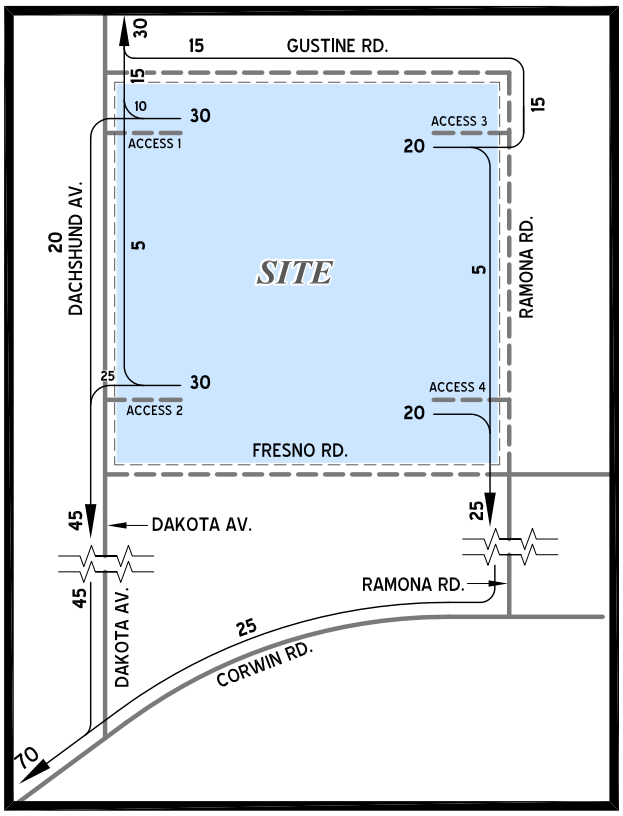
= FUTURE ROADWAY

N

EXHIBIT 4-2: PROJECT (PASSENGER CAR) TRIP DISTRIBUTION



INSET



LEGEND:

10 = PERCENT TO/FROM PROJECT

= FUTURE ROADWAY

N

4.3 MODAL SPLIT

The potential for Project trips to be reduced by the use of public transit, walking, or bicycling have not been included as part of the Project's estimated trip generation. Essentially, the Project's traffic projections are "conservative" in that these alternative travel modes would reduce the forecasted traffic volumes.

4.4 PROJECT TRIP ASSIGNMENT

The assignment of traffic from the Project area to the adjoining roadway system is based upon the Project trip generation, trip distribution, and the arterial highway and local street system improvements that would be in place by the time of initial occupancy of the Project. Based on the identified Project traffic generation and trip distribution patterns, Project weekday peak hour intersection turn movement volumes and ADT, in actual vehicles, are shown on Exhibit 4-3.

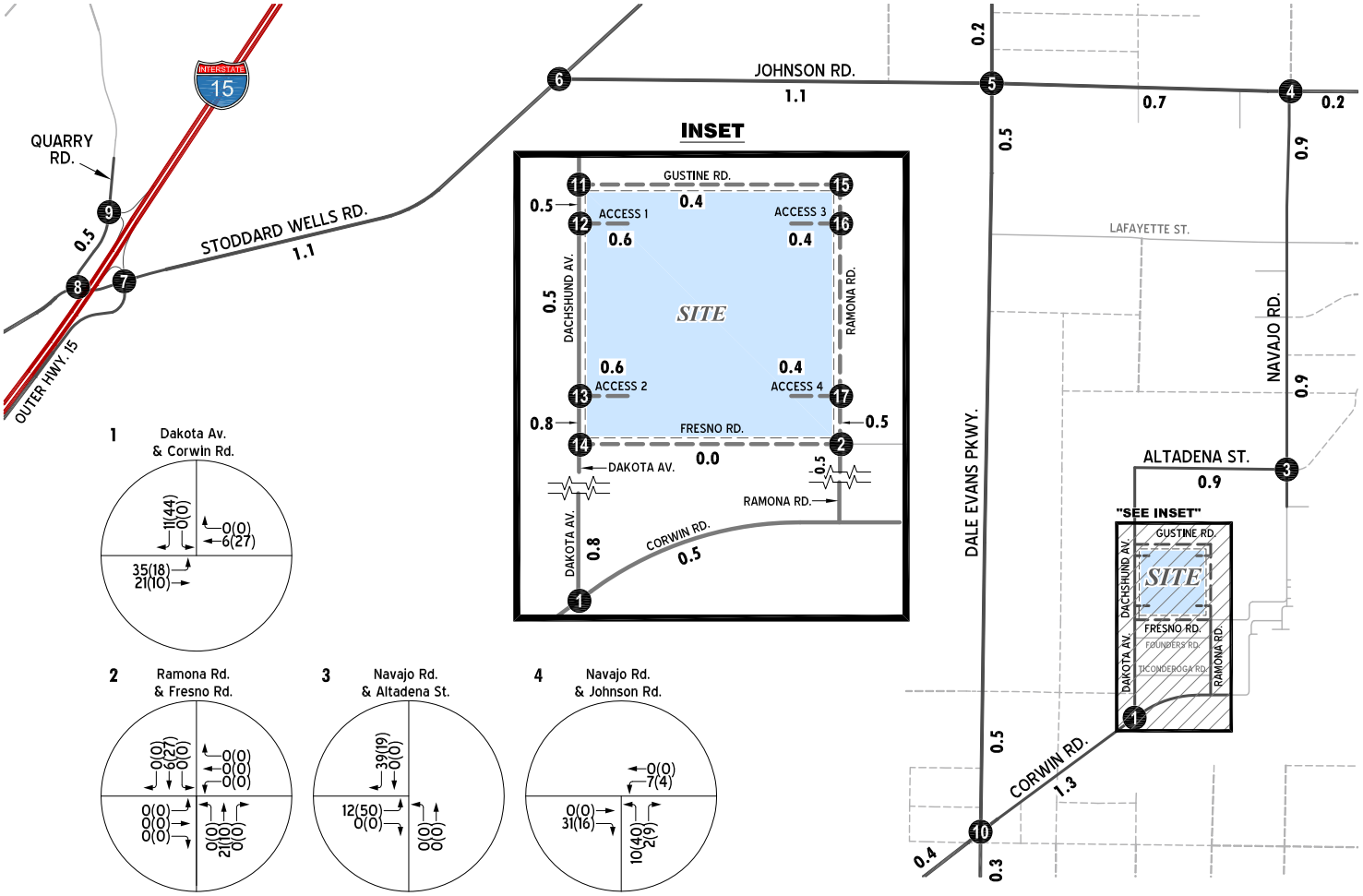
4.5 BACKGROUND TRAFFIC

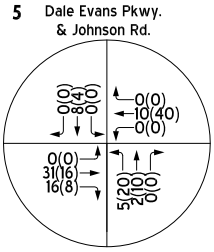
Future year traffic forecasts have been based upon background (ambient) growth at 2.0% per year, compounded annually. The total ambient growth is 6.12% for 2027 traffic. The ambient growth factor is intended to approximate regional traffic growth. This ambient growth rate is added to existing traffic volumes to account for area-wide growth not reflected by cumulative development projects. Ambient growth has been added to daily and peak hour traffic volumes on surrounding roadways, in addition to traffic generated by the development of future projects that have been approved but not yet built and/or for which development applications have been filed and are under consideration by governing agencies. The traffic generated by the proposed Project is manually added to the base volume to determine Opening Year Cumulative forecasts.

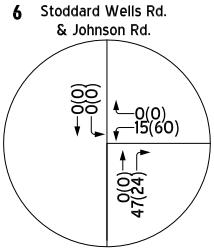
The traffic analysis includes the following traffic conditions, with the various traffic components:

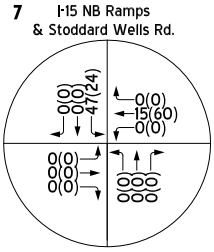
- Opening Year Cumulative (2027) Without Project
    - Existing 2024 volumes
    - Ambient growth traffic (6.12%)
    - Cumulative Development traffic
- Opening Year Cumulative (2027) With Project
    - Existing 2024 volumes
    - Ambient growth traffic (6.12%)
    - Cumulative Development traffic
    - Project Traffic

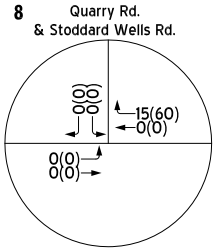
EXHIBIT 4-3: PROJECT ONLY TRAFFIC VOLUMES (PASSENGER CAR EQUIVALENT)

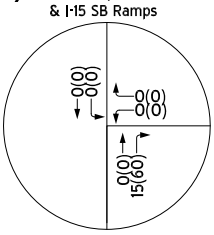


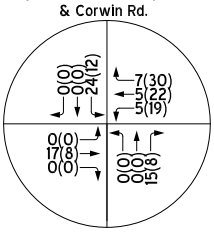


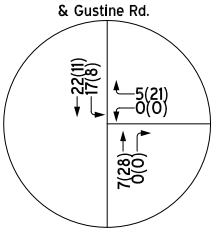


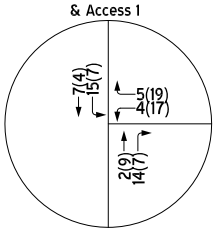


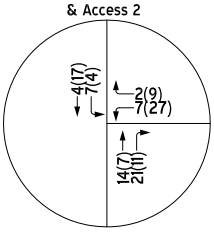


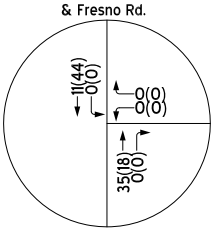


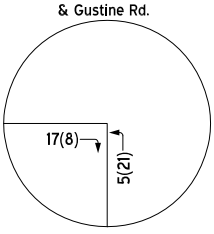


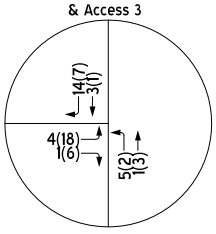


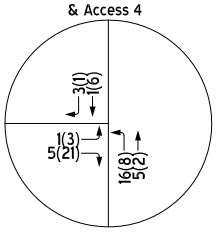












LEGEND:

- (#) = INTERSECTION ID
- = FUTURE ROADWAY
- 10.0 = VEHICLES PER DAY (1000'S)

4.6 CUMULATIVE DEVELOPMENT TRAFFIC

A cumulative project list was developed for the purposes of this analysis through consultation with planning and engineering staff from the Town of Apple Valley. The cumulative projects listed are those that would generate traffic and would contribute traffic to study area intersections. Exhibit 4-4 illustrates the cumulative development location map. A summary of cumulative development projects and their proposed land uses are shown in Table 4-3. If applicable, the traffic generated by individual cumulative projects was manually added to the Opening Year Cumulative (2027) forecasts to ensure that traffic generated by the listed cumulative development projects in Table 4-3 is reflected as part of the background traffic. In an effort to conduct a conservative analysis, the cumulative projects are added in conjunction with the ambient growth identified in Section 4.5 *Background Traffic*. Cumulative peak hour intersection turning movement volumes and ADT are shown on Exhibits 4-6.

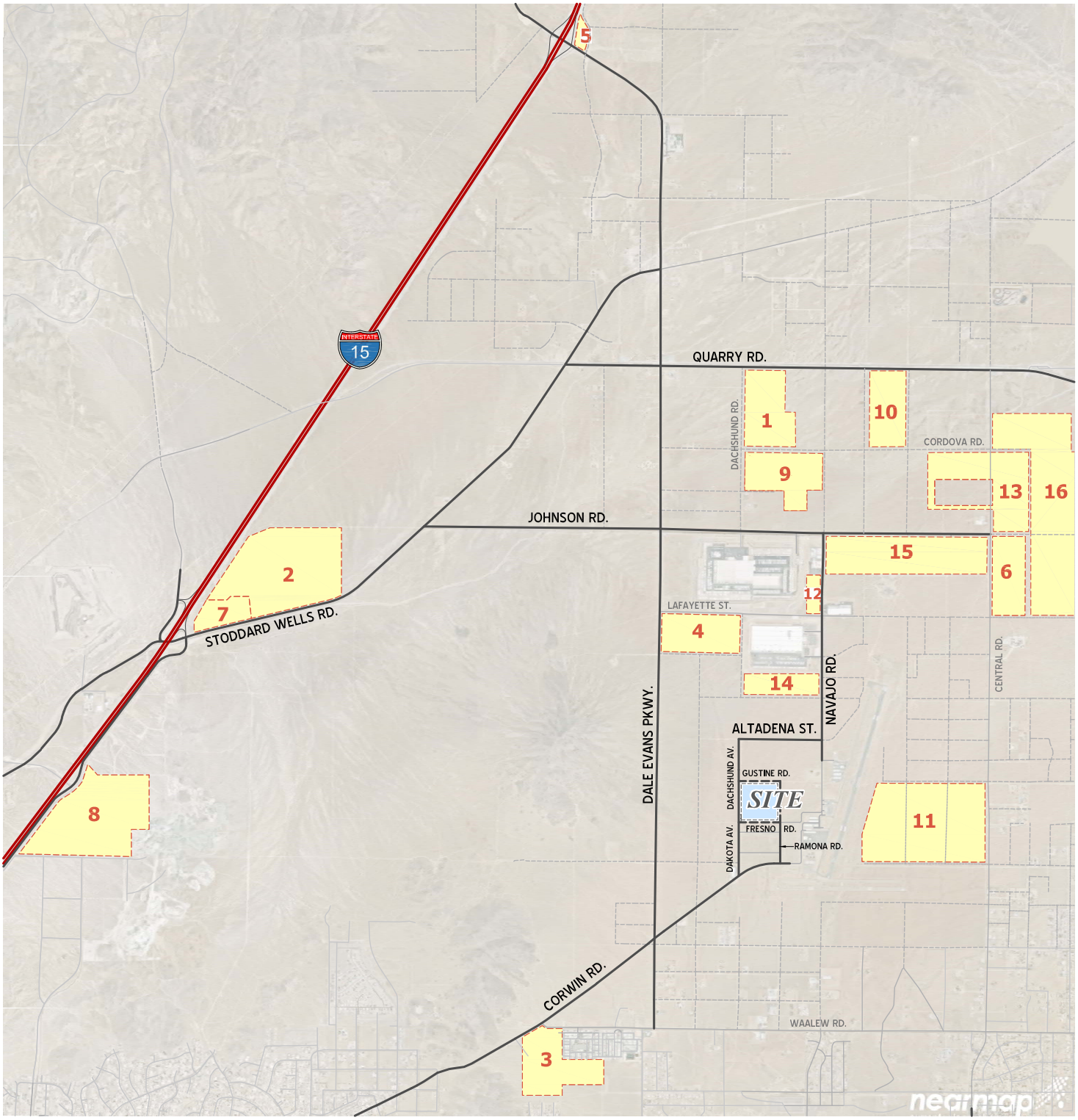
TABLE 4-3: CUMULATIVE DEVELOPMENT LAND USE SUMMARY

TAZ	Project	Land Use	Quantity	Units[1]
1	Cordova Road Logistics (SEC Dachshund Av. & Quarry Rd.)	High-Cube Fulfillment Center	1,144.33	TSF
		High-Cube Cold Storage	201.94	TSF
2	Apple Valley 143	Industrial/Warehouse	2,518.50	TSF
3	TTM 20306 (south of Waalew & east of Corwin)	Single Family Residential	160	DU
4	Lafayette Street Logistics (Redwood West)	High-Cube Warehouse	1,026.41	TSF
		High-Cube Cold Storage	181.13	TSF
5	Apple Valley Gateway Center (north of Dale Evans & east of I-15)	Pad A - Hotel	84	RM
		Pad B - Fast-Food Restaurant w/ Drive-Thru	5.769	TSF
		Pad C - Gas Station with C-Store (5 TSF)	16	VFP
		Pad D - Gas Station with C-Store (3.35 TSF)	12	VFP
		Pad E - Fast-Food Restaurant w/ Drive-Thru	4.00	TSF
		Pad F - Fast-Food Restaurant w/ Drive-Thru	4.20	TSF
		Pad G - Restaurant	4.00	TSF
		Pad H - Shops	10.261	TSF
		Pad I - Fast-Food Restaurant w/ Drive-Thru	2.80	TSF
6	1M Warehouse (east of Central Road, between Johnson Road & Lafayette Street)	High Cube Fulfillment Center Warehouse	1,080.125	TSF
7	Apple Valley I-15 Travel Center (Love's Travel Stop - north of Stoddard Wells & east of I-15)	RV Park	80	Spaces
		Gas Station with C-Store (9.66 TSF)	26	VFP
		Fast-Food Restaurant w/ Drive-Thru	3.043	TSF
		Truck Maintenance/Tire Building	13.786	TSF
8	Inland Empire North Logistics Ctr. (north of Falchion Road & east of I-5)	Industrial/Warehouse	2,604.446	TSF
9	Cordova Quarry	High-Cube Cold Storage	1,559.952	TSF
10	Quarry at Pawnee	High-Cube Cold Storage	1,462.342	TSF
11	Lake Creek Logistics Center (Apple Valley Logistics Center)	General Light Industrial (10%)	348.074	TSF
		High-Cube Cold Storage (10%)	348.074	TSF
		High-Cube Fulfillment (80%)	2,784.588	TSF
12	Green Trucking Solutions	High-Cube Cold Storage	385.004	TSF
13	Apple Valley 3PL Center	Industrial/Warehouse	2,134.000	TSF
14	Watson High Desert Logistics West	High-Cube Fulfillment Center (Non-Sort)	896.500	TSF
15	Watson High Desert Logistics East	High-Cube Fulfillment Center (Non-Sort)	2,832.600	TSF
16	North Apple Valley Industrial Park	Warhousing	5,821.709	TSF

[1] DU = Dwelling Units; TSF = Thousand Square Feet; RM = Room; VFP = Vehicle Fueling Positions

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EXHIBIT 4-4: CUMULATIVE DEVELOPMENT LOCATION MAP



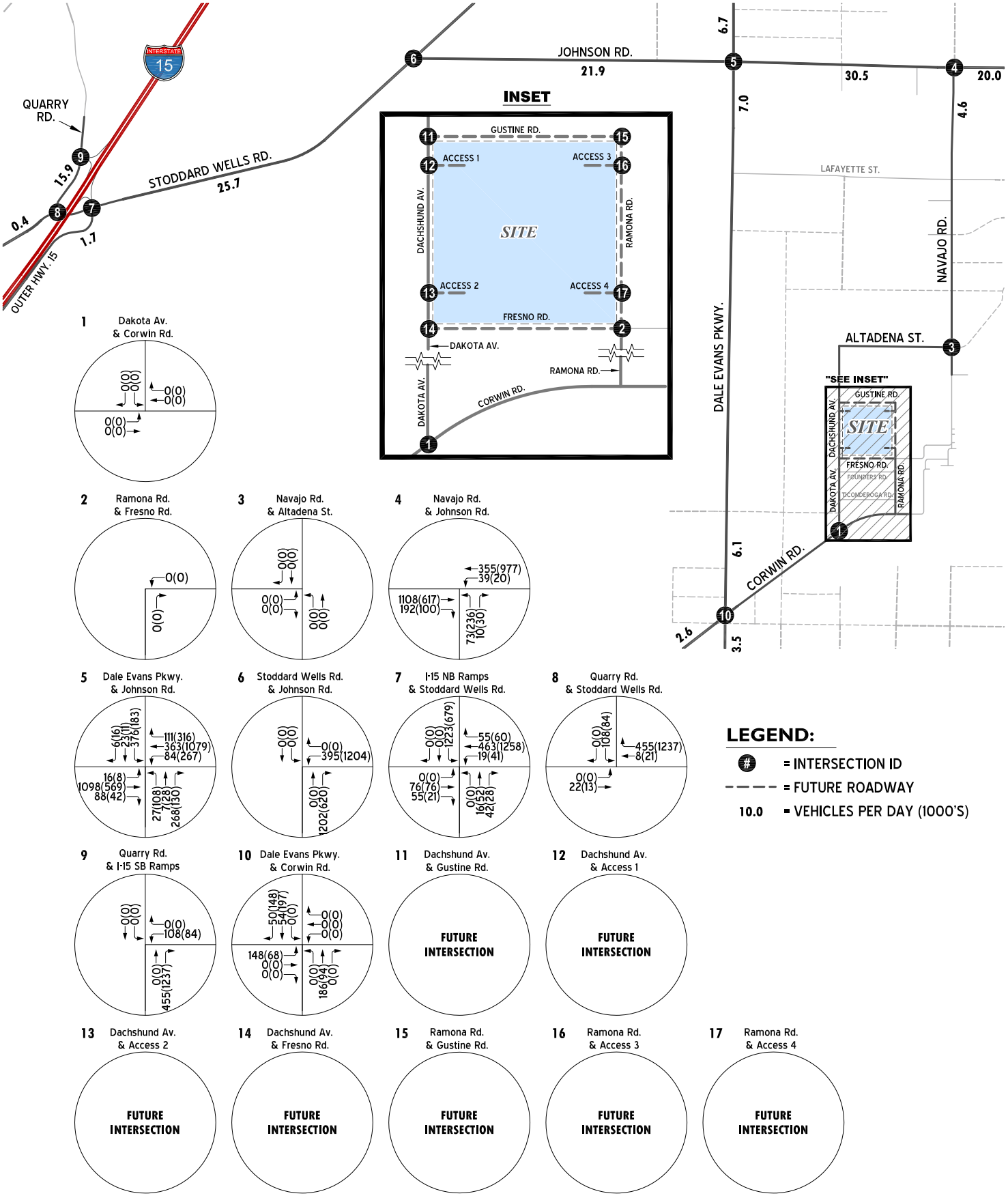
LEGEND:

(#) = CUMULATIVE DEVELOPMENT ID

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EXHIBIT 4-5: CUMULATIVE ONLY TRAFFIC VOLUMES



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5 OPENING YEAR CUMULATIVE (2027) TRAFFIC CONDITIONS

This section discusses the methods used to develop Opening Year Cumulative (2027) Without and With Project traffic forecasts, and the resulting intersection operations, and traffic signal warrant analyses.

5.1 ROADWAY IMPROVEMENTS

The lane configurations and traffic controls assumed to be in place for Opening Year Cumulative (2027) conditions are consistent with those shown previously on Exhibit 3-1, with the exception of Project and Cumulative project driveways and those facilities assumed to be constructed by the Project or Cumulative projects to provide site access are also assumed to be in place for Opening Year Cumulative conditions only (e.g., intersection and roadway improvements along the Project's or Cumulative project's frontage and driveways).

5.2 WITHOUT PROJECT TRAFFIC VOLUME FORECASTS

This scenario includes Existing traffic volumes, plus an ambient growth rate of 6.12%, plus traffic from pending and approved but not yet constructed known development projects in the area. The weekday AM and PM peak hour volumes which can be expected for Opening Year Cumulative (2027) Without Project traffic conditions are shown on Exhibit 5-1. The weekday ADT which can be expected for Opening Year Cumulative (2027) Without Project traffic conditions are shown on Exhibit 5-1.

5.3 WITH PROJECT TRAFFIC VOLUME FORECASTS

This scenario includes Opening Year Cumulative (2027) Without Project traffic in conjunction with the addition of Project traffic. The weekday AM and PM peak hour volumes which can be expected for Opening Year Cumulative (2027) With Project traffic conditions are shown on Exhibit 5-2. The weekday ADT which can be expected for Opening Year Cumulative (2027) With Project traffic conditions are shown on Exhibit 5-2.

5.4 INTERSECTION OPERATIONS ANALYSIS

5.4.1 OPENING YEAR CUMULATIVE (2027) WITHOUT PROJECT TRAFFIC CONDITIONS

LOS calculations were conducted for the study intersections to evaluate their operations under Opening Year Cumulative (2027) Without Project conditions with roadway and intersection geometrics consistent with Section 5.1 *Roadway Improvements*. As shown in Table 5-1, the following study area intersections are anticipated to operate at an unacceptable LOS under Opening Year Cumulative (2027) Without Project traffic conditions:

- Navajo Road & Johnson Road (#4) – LOS F AM and PM peak hours
- Dale Evans Parkway & Johnson Road (#5) – LOS F AM and PM peak hours
- Stoddard Wells Road & Johnson Road (#6) – LOS F AM and PM peak hours
- I-15 Northbound Ramps & Stoddard Wells Road (#7) – LOS F AM and PM peak hours
- Quarry Road & Stoddard Wells Road (#8) – LOS F PM peak hour only
- Quarry Road & I-15 Southbound Ramps (#9) – LOS F PM peak hour only

EXHIBIT 5-1: OPENING YEAR CUMULATIVE (2027) WITHOUT PROJECT TRAFFIC VOLUMES

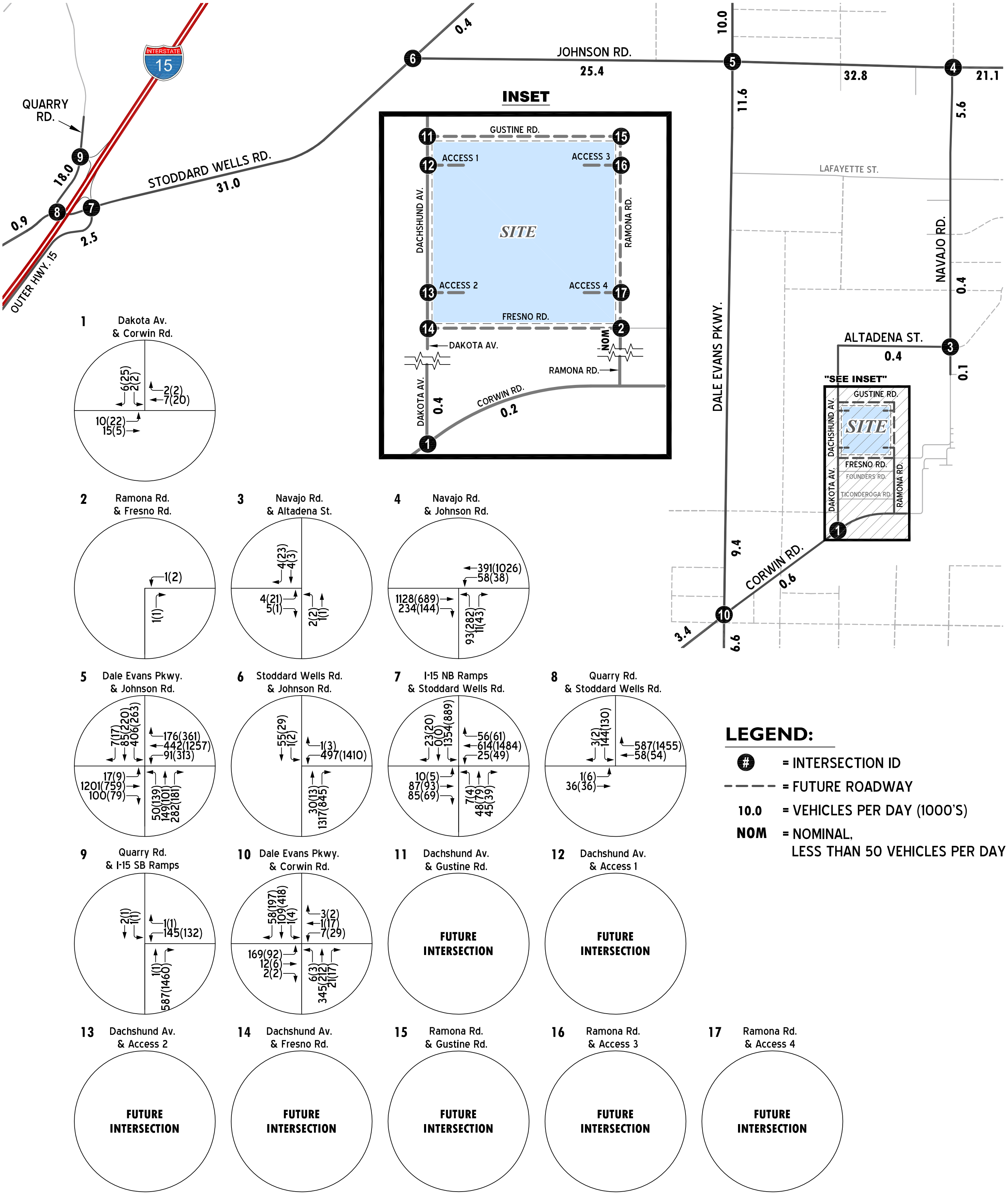
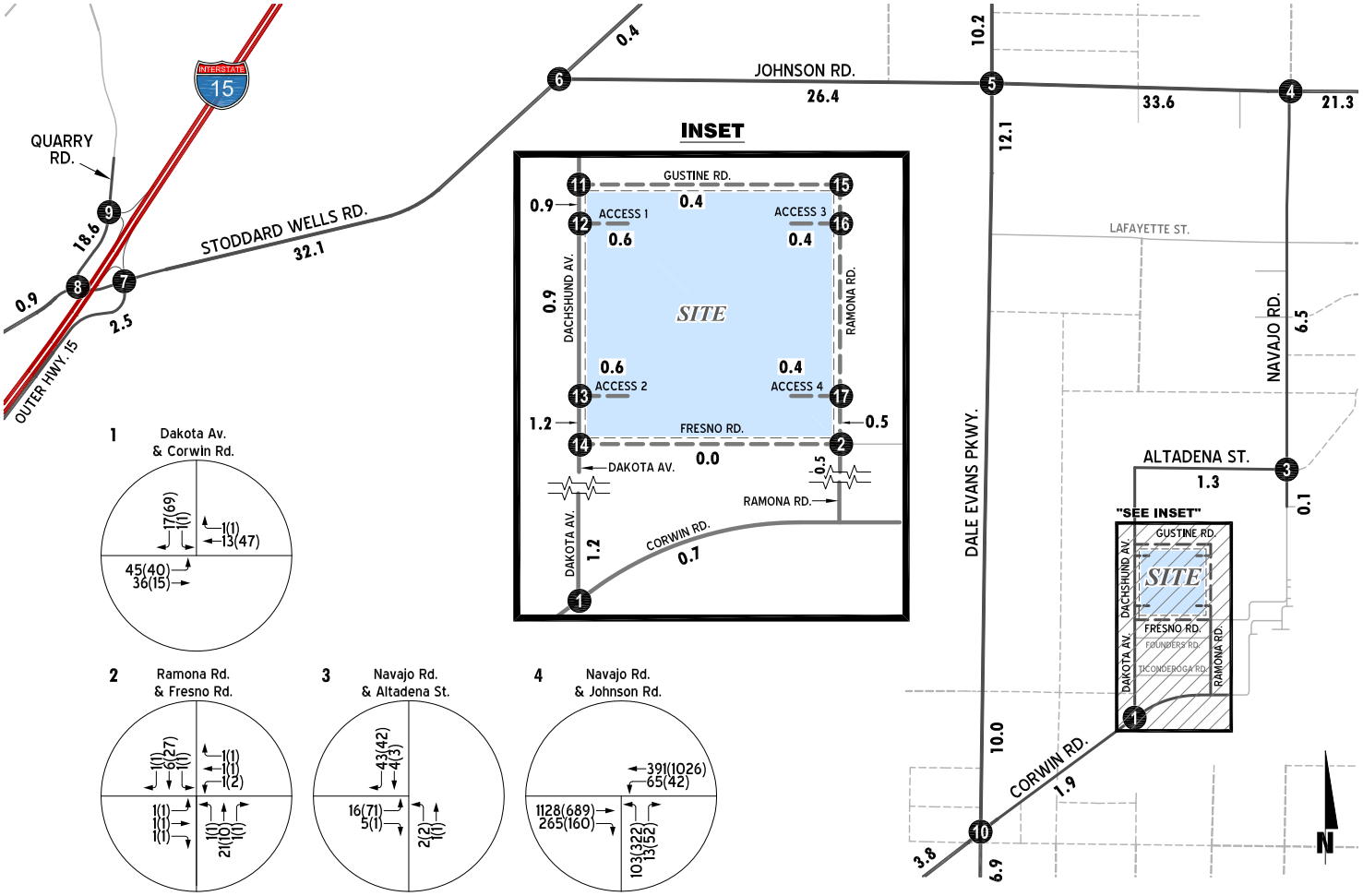
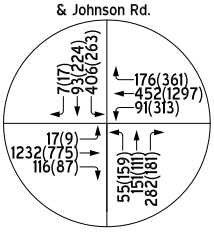
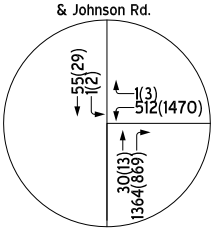
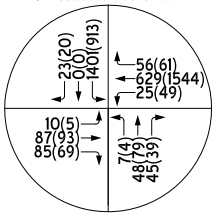


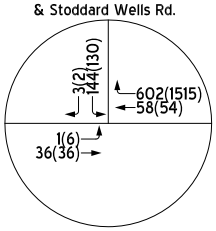
EXHIBIT 5-2: OPENING YEAR CUMULATIVE (2027) WITH PROJECT TRAFFIC VOLUMES

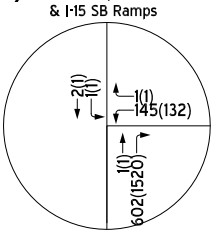


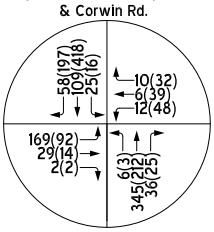


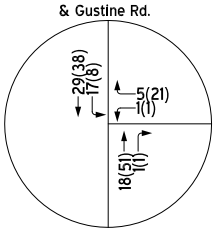


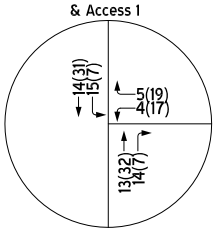


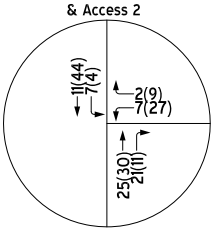


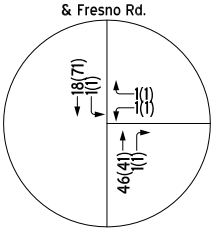


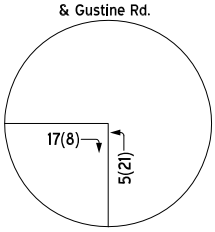


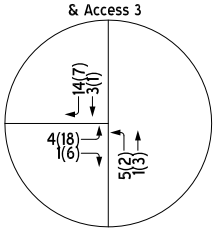


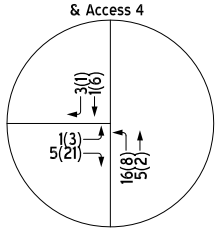












LEGEND:

- (#) = INTERSECTION ID
- = FUTURE ROADWAY
- 10.0 = VEHICLES PER DAY (1000'S)

The intersection operations analysis worksheets for Opening Year Cumulative (2027) Without Project traffic conditions are included in Appendix 5.1 of this TA.

5.4.2 OPENING YEAR CUMULATIVE (2027) WITH PROJECT TRAFFIC CONDITIONS

As shown in Table 5-1, there are no additional study area intersections that are anticipated to operate at an unacceptable LOS with the addition of Project traffic under Opening Year Cumulative (2027) With Project traffic conditions. The intersection operations analysis worksheets for Opening Year Cumulative (2027) With Project traffic conditions are included in Appendix 5.2 of this TA.

TABLE 5-1: INTERSECTION ANALYSIS FOR OPENING YEAR CUMULATIVE (2027) CONDITIONS

			2027 Without Project				2027 With Project			
			Delay[2] (secs.)		Level of Service		Delay[2] (secs.)		Level of Service	
#	Intersection	Traffic Control[1]	AM	PM	AM	PM	AM	PM	AM	PM
1	Dakota Av. / Corwin Rd.	CSS	8.5	8.6	A	A	8.6	9.0	A	A
2	Ramona Rd. / Fresno Rd.	CSS	8.5	8.5	A	A	8.9	9.0	A	A
3	Navajo Rd. / Altadena St.	CSS	8.5	8.7	A	A	8.8	9.1	A	A
4	Navajo Rd. / Johnson Rd.	CSS	**>100.0**	**>100.0**	**F**	**F**	**>100.0**	**>100.0**	**F**	**F**
5	Dale Evans Pkwy. / Johnson Rd.	AWS	**>100.0**	**>100.0**	**F**	**F**	**>100.0**	**>100.0**	**F**	**F**
6	Stoddard Wells Rd. / Johnson Rd.	CSS	**>100.0**	**>100.0**	**F**	**F**	**>100.0**	**>100.0**	**F**	**F**
7	I-15 NB Ramps / Stoddard Wells Rd.	CSS	**>100.0**	**>100.0**	**F**	**F**	**>100.0**	**>100.0**	**F**	**F**
8	Quarry Rd. / Stoddard Wells Rd.	CSS	14.3	**>100.0**	B	**F**	14.5	**>100.0**	B	**F**
9	Quarry Rd. / I-15 SB Ramps	CSS	13.1	**>100.0**	B	**F**	13.3	**>100.0**	B	**F**
10	Dale Evans Pkwy. / Corwin Rd.	AWS	11.7	21.3	B	C	12.8	28.6	B	D
11	Dachshund Av. / Gustine Rd.	CSS	Future Intersection				8.5	8.7	A	A
12	Dachshund Av. / Access 1	CSS	Future Intersection				8.6	8.8	A	A
13	Dachshund Av. / Access 2	CSS	Future Intersection				8.8	9.0	A	A
14	Dachshund Av. / Fresno Rd.	CSS	Future Intersection				8.7	8.8	A	A
15	Ramona Rd. / Gustine Rd.	CSS	Future Intersection				8.4	8.3	A	A
16	Ramona Rd. / Access 3	CSS	Future Intersection				8.6	8.6	A	A
17	Ramona Rd. / Access 4	CSS	Future Intersection				8.4	8.5	A	A

* **BOLD** = LOS does not meet the applicable jurisdictional requirements (i.e., unacceptable LOS).

[1] AWS = All-Way Stop; CSS = Cross-Street Stop; CSS = Improvement

[2] Per the Highway Capacity Manual (7th Edition), overall average intersection delay and level of service are shown for intersections with a traffic signal or all way stop control. For intersections with cross street stop control, the delay and level of service for the worst individual movement (or movements sharing a single lane) are shown.

5.5 TRAFFIC SIGNAL WARRANT ANALYSIS

Traffic signal warrants have been performed for Opening Year Cumulative (2027) traffic conditions based on peak hour intersection turning movements volumes or planning level (ADT) volumes. The following study area intersections are anticipated to meet a traffic signal warrant under Opening Year Cumulative (2027) Without Project traffic conditions:

- Navajo Road & Johnson Road (#4)
- Stoddard Wells Road & Johnson Road (#6)
- I-15 Northbound Ramps & Stoddard Wells Road (#7)
- Quarry Rd. & Stoddard Wells Rd (#8)
- Quarry Rd. & I-15 SB Ramps (#9)

With the addition of Project traffic, the intersection of Dale Evans Parkway & Corwin (#10) Road is anticipated to meet a traffic signal warrant under Opening Year Cumulative (2027) With Project traffic conditions.

As mentioned previously, meeting this threshold condition does not require that a traffic control signal be installed at a particular location, but rather, that other traffic factors and conditions be evaluated in order to determine whether the signal is truly justified. It should also be noted that signal warrants do not necessarily correlate with LOS. An intersection may satisfy a signal warrant condition and operate at or above acceptable LOS or operate below acceptable LOS and not meet a signal warrant.

The Opening Year Cumulative (2027) Without Project and With Project traffic conditions traffic signal warrant analysis worksheets are provided in Appendices 5.3 and 5.4, respectively.

5.6 OFF-RAMP QUEUING ANALYSIS

Queuing analysis findings for Opening Year Cumulative (2027) Without Project are presented in Table 5-2. As shown in Table 5-2, the southbound shared left-through-right lane for the intersection of I-15 Northbound Ramps & Stoddard Wells Road (#7) is anticipated to experience queueing issues during the weekday AM or weekday PM peak 95th percentile traffic flows under Opening Year Cumulative (2027) Without Project traffic conditions. The addition of Project traffic is not anticipated to result in additional off-ramp queuing issue during the weekday AM or weekday PM peak 95th percentile traffic flows under Opening Year Cumulative (2027) With Project traffic conditions.

Worksheets for Opening Year Cumulative (2027) Without Project and With Project traffic conditions queuing analysis are provided in Appendices 5.5 and 5.6, respectively.

TABLE 5-2: PEAK HOUR QUEUING SUMMARY FOR OPENING YEAR CUMULATIVE (2027) CONDITIONS

			Available Stacking Distance (Feet)	2027 Without Project				2027 With Project			
				95th Percentile Queue (Feet)		Acceptable? [1]		95th Percentile Queue (Feet)		Acceptable? [1]	
#	Intersection	Movement		AM Peak	PM Peak	AM	PM	AM Peak	PM Peak	AM	PM
7	I-15 NB Ramps / Stoddard Wells Rd.	SBL/T/R	1,000	**3,913**	**4,203**	**No**	**No**	**4,085**	**4,320**	**No**	**No**
9	Quarry Rd. / I-15 SB Ramps	WBL/R	1,000	30	353	Yes	Yes	30	380	Yes	Yes

[1]Stacking distance is acceptable if the required stacking distance is less than or equal to the stacking distance provided. **BOLD** = 95th percentile queue exceeds the available storage.

5.7 INTERSECTION DEFICIENCIES AND CUMULATIVE IMPROVEMENTS

The effectiveness of the recommended improvement strategies to address Opening Year Cumulative (2027) traffic deficiencies are presented in Table 5-3 to achieve pre-project delay or better. Worksheets for Opening Year Cumulative (2027) With Project conditions, with improvements, HCM calculation worksheets are provided in Appendix 5.7.

5.7.1 RECOMMENDED IMPROVEMENTS TO ADDRESS DEFICIENCIES AT INTERSECTIONS

The following cumulative intersection improvements are recommended:

#	Intersection Location	Jurisdiction	Opening Year Cumulative (2027)	
			Without Project	With Project
4	Navajo Rd. & Johnson Rd.	Town of Apple Valley	Install a traffic signal	Same
			Add 2nd EB through lane	Same
			Add WB left turn lane	Same
			Add NB left turn lane	Same
5	Dale Evans Pkwy. & Johnson Rd.	Town of Apple Valley, County	Install a traffic signal	Same
			Add 2nd NB through lane	Same
			Add 2nd SB through lane	Same
			Add 2nd EB through lane	Same
			Add 2nd WB through lane	Same
			Add EB left turn lane	Same
			Add WB left turn lane	Same
6	Stoddard Wells Rd. & Johnson Rd.	Town of Apple Valley, County	Install a traffic signal	Same
			Add NB right turn lane	Same
			Add WB left turn lane	Same
			Provide NBR overlap phase	Same
7	I-15 NB Ramps & Stoddard Wells Rd.	Town of Apple Valley, Caltrans	Install a traffic signal	Same
			Add 2nd WB through lane	Same
			Add SB left turn lane	Same
			Add EB left turn lane	Same
			Add WB left turn lane	Same
8	Quarry Rd. & Stoddard Wells Rd.	County	Add WB right turn lane	Same
9	Quarry Rd. & I-15 SB Ramps	County, Caltrans	Add NB right turn lane	Same

TABLE 5-3: INTERSECTION ANALYSIS FOR OPENING YEAR CUMULATIVE (2027) CONDITIONS WITH IMPROVEMENTS

#	Intersection	Traffic Control[1]	Intersection Approach Lanes[2] Northbound L	T	R	Southbound L	T	R	Eastbound L	T	R	Westbound L	T	R	Delay[3] (secs.) AM	PM	Level of Service AM	PM
4	Navajo Rd. / Johnson Rd.																	
	- Without Improvements	CSS	0	1	0	0	0	0	0	1	0	0	1	0	**>100.0**	**>100.0**	**F**	**F**
	- With Improvements	**TS**	**1.5**	0	0.5	0	0	0	0	**2**	0	**1**	1	0	12.2	35.9	B	D
5	Dale Evans Pkwy. / Johnson Rd.																	
	- Without Improvements	AWS	1	1	1	1	1	0	0	1!	0	0	1	1>>	**>100.0**	**>100.0**	**F**	**F**
	- With Improvements	**TS**	1	**2**	1	1	**2**	0	**1**	**2**	0	**1**	**2**	1	54.9	53.6	D	D
6	Stoddard Wells Rd. / Johnson Rd.																	
	- Without Improvements	CSS	0	1	0	0	1	0	0	0	0	0	1	0	**>100.0**	**>100.0**	**F**	**F**
	- With Improvements	**TS**	0	1	**1>**	0	1	0	0	0	0	**1.5**	0	0.5	21.4	16.3	C	B
7	I-15 NB Ramps / Stoddard Wells Rd.																	
	- Without Improvements	CSS	0	1	0	0	1	0	0	1	0	0	1	0	**>100.0**	**>100.0**	**F**	**F**
	- With Improvements	**TS**	0	1!	0	**1**	1!	0	**1**	1	0	**1**	**2**	0	24.7	45.0	C	D
8	Quarry Rd. / Stoddard Wells Rd.																	
	- Without Improvements	CSS	0	0	0	0	1	0	0	1	0	0	1	0	14.5	**>100.0**	B	**F**
	- With Improvements	CSS	0	0	0	0	1	0	0	1	0	0	1	**1**	10.0	30.1	B	D
9	Quarry Rd. / I-15 SB Ramps																	
	- Without Improvements	CSS	0	1	0	0	1	0	0	0	0	0	1	0	13.3	**>100.0**	B	**F**
	- With Improvements	CSS	0	1	**1**	0	1	0	0	0	0	0	1	0	9.3	28.9	A	D

* **BOLD** = LOS does not meet the applicable jurisdictional requirements (i.e., unacceptable LOS).

[1] TS = Traffic Signal; CSS = Cross-Street Stop; AWS = All Way Stop

[2] When a right turn is designated, the lane can either be striped or unstriped. To function as a right turn lane there must be sufficient width for right turning vehicles to travel outside the through lanes.

L = Left; T = Through; R = Right; 0.5 = Shared Lane; 1! = Shared Left/Through/Right lane; >> = Free-Right Turn; > = Right Turn Overlap Phasing; **1** = Improvement

[3] Per the Highway Capacity Manual (7th Edition), overall average intersection delay and level of service are shown for intersections with a traffic signal or all way stop control. For intersections with cross street stop control, the delay and level of service for the worst individual movement (or movements sharing a single lane) are shown.

5.7.2 RECOMMENDED IMPROVEMENTS TO ADDRESS DEFICIENCIES FOR OFF-RAMP QUEUES

The effectiveness of the recommended improvement strategies to address Opening Year Cumulative (2027) off-ramp deficiencies are presented in Table 5-4 based on queues calculated in Synchro. Table 5-5 presents the queueing analysis results for both off-ramp and project access intersections using random simulations generated by SimTraffic to determine the 95th percentile queue lengths observed for each applicable turn lane.

TABLE 5-4: PEAK HOUR QUEUING SUMMARY FOR OPENING YEAR CUMULATIVE (2027) CONDITIONS WITH IMPROVEMENTS

				2027 With Project			
				95th Percentile Queue (Feet)		Acceptable? [1]	
#	Intersection	Movement	Available Stacking Distance (Feet)	AM Peak	PM Peak	AM	PM
7	I-15 NB Ramps / Stoddard Wells Rd.	<u>SBL</u>	1,000	750 [2]	625 [2]	Yes	Yes
		SBL/T/R	1,000	556	486 [2]	Yes	Yes

<u>Underline</u> = Improvement

[1] Stacking Distance is acceptable if the required stacking distance is less than or equal to the stacking distance provided.

[2] 95th percentile volume exceeds capacity, queue may be longer. Queue shown is maximum after two cycles.

The improvements are consistent with the intersection improvements identified in Table 5-3. Worksheets for Opening Year Cumulative (2027) With Project conditions, with improvements, off-ramp queueing analysis worksheets are provided in Appendix 5.8.

5.8 SITE ACCESS IMPROVEMENTS

Dachshund Avenue & Access 1 (#12) – The following improvements are necessary to accommodate site access:

- Project to install a stop control on the westbound approach and construct a shared left-right turn lane (Project driveway).

Dachshund Avenue & Access 2 (#13) – The following improvements are necessary to accommodate site access:

- Project to install a stop control on the westbound approach and construct a shared left-right turn lane (Project driveway).

Ramona Road & Access 3 (#16) – The following improvements are necessary to accommodate site access:

- Project to install a stop control on the eastbound approach and construct a shared left-right turn lane (Project driveway).
- Project to construct a northbound shared through-left turn lane.
- Project to construct a southbound shared through-right turn lane.

TABLE 5-5: SIMTRAFFIC QUEUEING SUMMARY
FOR OPENING YEAR CUMULATIVE (2027) CONDITIONS WITH IMPROVEMENTS

ID	Intersection	Movement	# of Lanes	2027 With Project Peak Hour Volume				Available Stacking Distance (Feet)	95th Percentile Queue Length (ft.)[1,3]		Acceptable? [1]	
				AM	PM	Pk Hr	Volume		AM	PM	AM	AM
FREEWAY RAMPS												
7	I-15 NB Ramps / Stoddard Wells Rd.											
		SBL	1	±980	±640	PM	980	1,000	324	309	Yes	Yes
		SB L/T/R	1	±444	±293	PM	444	1,000	358	329	Yes	Yes
9	Quarry Rd. / I-15 SB Ramps											
		WB L/R	1	145	132	AM	145	1,000	55	199	Yes	Yes
PROJECT ACCESS												
12	Dachshund Av. / Access 1											
		NB T/R	1	27	39	PM	39	>200	NOM	NOM	Yes	Yes
		SB L/T	1	29	38	PM	38	>150	NOM	8	Yes	Yes
		WB L/R	1	9	36	PM	36	>50	28	49	Yes	Yes
13	Dachshund Av. / Access 2						0					
		NB T/R	1	46	41	AM	46	>200	NOM	NOM	Yes	Yes
		SB L/T	1	18	48	PM	48	>150	NOM	NOM	Yes	Yes
		WB L/R	1	9	36	PM	36	>50	29	43	Yes	Yes
16	Ramona Rd. / Access 3											
		NB L/T	1	6	5	AM	6	>200	NOM	NOM	Yes	Yes
		SB T/R	1	17	8	AM	17	>150	NOM	NOM	Yes	Yes
		EB L/R	1	5	24	PM	24	>50	23	43	Yes	Yes
17	Ramona Rd. / Access 4						0					
		NB L/T	1	21	10	AM	21	>200	NOM	NOM	Yes	Yes
		SB T/R	1	4	7	PM	7	>150	NOM	NOM	Yes	Yes
		EB L/R	1	6	24	PM	24	>50	22	34	Yes	Yes

Underline = Improvement

[1] Queue length calculated using SimTraffic.

[2] Stacking Distance is acceptable if the required stacking distance is less than or equal to the stacking distance provided.

[3] NOM = Nominal, less than 5 feet.

[4] Stacking Distance is acceptable if the required stacking distance is less than or equal to the stacking distance provided.

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Ramona Road & Access 4 (#17) – The following improvements are necessary to accommodate site access:

- Project to install a stop control on the eastbound approach and construct a shared left-right turn lane (Project driveway).
- Project to construct a northbound shared through-left turn lane.
- Project to construct a southbound shared through-right turn lane.

Dachshund Avenue & Gustine Road (#11) – The following improvements are necessary to accommodate site access:

- Project to install a stop control on the westbound approach and construct a shared left-right turn lane.

Dachshund Avenue & Fresno Road (#14) – The following improvements are necessary to accommodate site access:

- Project to install a stop control on the westbound approach and construct a shared left-right turn lane.

Ramona Road & Gustine Road (#15) – The following improvements are necessary to accommodate site access:

- Project to construct a northbound left turn lane.
- Project to construct an eastbound right turn lane.

Ramona Road & Fresno Road (#2) – The following improvements are necessary to accommodate site access:

- Project to install a stop control on the eastbound and westbound approaches and construct a shared eastbound left-right turn lane.

Dachshund Avenue is a north-south oriented roadway located along the site's western boundary. The Project is to construct Dachshund Avenue from the site's northern boundary (Gustine Road) to the site's southern boundary (Fresno Road) at its ultimate half-section width as a secondary roadway (ultimate 88-foot right-of-way), consistent with the Town's standards.

Ramona Road is a north-south oriented roadway located along the site's eastern boundary. The Project is to construct Ramona Road from the site's northern boundary (Gustine Road) to the site's southern boundary (Fresno Road) as a 2-lane local roadway.

Gustine Road is an east-west oriented roadway located along the site's northern boundary. The Project is to construct Gustine Road from the Project's western boundary (Dachshund Avenue) to the site's eastern boundary (Ramona Road) at its ultimate half-section width as a secondary roadway (ultimate 88-foot right-of-way), consistent with the Town's standards. The Project will also provide an additional 12 feet of pavement width to accommodate one westbound lane from the Project's eastern boundary to Dachshund Avenue to facilitate site access.

Fresno Road is an east-west oriented roadway located along the site's southern boundary. The Project is to construct Fresno Road from the Project's western boundary (Dachshund Avenue) to the site's eastern boundary (Ramona Road) as a 2-lane local roadway.

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6 LOCAL AND REGIONAL FUNDING MECHANISMS

Transportation improvements within the Town of Apple Valley are funded through a combination of direct project mitigation, development impact fee programs or fair share contributions, such as the Town of Apple Valley Development Impact Fee (DIF) program. Identification and timing of needed improvements is generally determined through local jurisdictions based upon a variety of factors.

6.1 TOWN OF APPLE VALLEY DEVELOPMENT IMPACT FEE (DIF) PROGRAM

The Town of Apple Valley has implemented a DIF program. This program collects fees from new single-family residential, multi-family residential, commercial, office use, and industrial developments. These fees serve to fund compliant facilities such as law enforcement, storm drainage, sanitary sewer, and general government fees. Fees are also allocated to finance parks and Apple Valley fire. Under the Town's DIF program, the Town may grant developers a credit against specific components of fees when those developers construct certain facilities and landscaped medians identified in the list of improvements funded by the DIF program.

6.2 MEASURE "I" FUNDS

In 2004, the voters of San Bernardino County approved the 30-year extension of Measure "I", a one-half of one percent sales tax on retail transactions, through the year 2040, for transportation projects including, but not limited to, infrastructure improvements, commuter rail, public transit, and other identified improvements. The Measure "I" extension requires that a regional traffic impact fee be created to ensure development is paying its fair share. A regional Nexus study was prepared by San Bernardino County Transportation Authority (SBCTA) and concluded that each jurisdiction should include a regional fee component in their local programs to meet the Measure "I" requirement. The regional component assigns specific facilities and cost sharing formulas to each jurisdiction and was most recently updated in September 2017. Revenues collected through these programs are used in tandem with Measure "I" funds to deliver projects identified in the Nexus Study.

While Measure "I" is a self-executing sales tax administered by SBCTA, it bears discussion here because the funds raised through Measure "I" have funded, and will continue to fund, new transportation facilities in San Bernardino County, including within the Town of Apple Valley.

6.3 FAIR SHARE CONTRIBUTION

Project improvements may include a combination of fee payments to established programs, construction of specific improvements, payment of a fair share contribution toward future improvements or a combination of these approaches. Improvements constructed by development may be eligible for a fee credit or reimbursement through the program where appropriate (to be determined at the Town's discretion).

When off-site improvements are identified with a minor share of responsibility assigned to proposed development, the approving jurisdiction may elect to collect a fair share contribution or require the development to construct improvements. Detailed fair share calculations, for each Project site and peak hour, has been provided in Table 6-1 for the applicable deficient study area intersections.

TABLE 6-1: PROJECT FAIR SHARE CALCULATIONS

#	Intersection	Existing (2024) Traffic	2027 w/ Project Traffic	Project Only Traffic	Total New Traffic[1]	Project Fair Share (%)[2]
4	Navajo Rd. / Johnson Rd.					
	• AM Peak Hour	130	2,891	50	2,761	1.8%
	• PM Peak Hour	227	3,046	69	2,819	**2.4%**
5	Dale Evans Pkwy. / Johnson Rd.					
	• AM Peak Hour	506	3,185	72	2,679	2.7%
	• PM Peak Hour	885	4,096	98	3,211	**3.1%**
6	Stoddard Wells Rd. / Johnson Rd.					
	• AM Peak Hour	284	2,023	62	1,739	3.6%
	• PM Peak Hour	450	2,439	84	1,989	**4.2%**
7	I-15 NB Ramps / Stoddard Wells Rd.					
	• AM Peak Hour	380	4,924	62	4,544	1.4%
	• PM Peak Hour	543	5,519	84	4,976	**1.7%**
8	Quarry Rd. / Stoddard Wells Rd.					
	• AM Peak Hour	222	2,195	15	1,973	0.8%
	• PM Peak Hour	309	3,352	60	3,043	**2.0%**
9	Quarry Rd. / I-15 SB Ramps					
	• AM Peak Hour	164	1,600	15	1,436	1.0%
	• PM Peak Hour	257	2,897	60	2,640	**2.3%**

[1] Total New Traffic = (2027 With Project - Existing Traffic)

[2] Project Fair Share % = (Project Only Traffic / Total New Traffic)

7 REFERENCES

1. **County of San Bernardino.** *County of San Bernardino Transportation Impact Study Guidelines.* County of San Bernardino : s.n., July 2019.
2. **San Bernardino Associated Governments.** *Congestion Management Program for County of San Bernardino.* County of San Bernardino : s.n., Updated June 2016.
3. **Transportation Research Board.** *Highway Capacity Manual (HCM).* 6th Edition. s.l. : National Academy of Sciences, 2022.
4. **Caltrans.** California Manual on Uniform Traffic Control Devices (MUTCD). [book auth.] California Department of Transportation. *California Manual on Uniform Traffic Control Devices (CAMUTCD).* 2017.

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APPENDIX 1.1: TRAFFIC STUDY SCOPING AGREEMENT

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MEMORANDUM

URBAN | CROSSROADS

DATE: August 19, 2024
TO: Richard Hirsch, Town of Apple Valley
FROM: John Kain, AICP and Marlie Whiteman, P.E., Urban Crossroads
JOB NO: 16091-01 TA Scope.docx

LECANGS DAKOTA APPLE VALLEY INDUSTRIAL SCOPING AGREEMENT

The firm of Urban Crossroads, Inc. is pleased to submit this scoping letter regarding the traffic analysis for Lecangs Dakota Apple Valley Industrial development (**Project**), which is located within the North Apple Valley Industrial Specific Plan (**NAVISP**) in the Town of Apple Valley. This letter describes the proposed Project trip generation, trip distribution, and analysis methodology, which have been used to establish the draft proposed Project study area and analysis locations. The following scoping agreement has been prepared in accordance with the County's Transportation Impact Study Guidelines, dated July 9, 2019 (since the Town uses the County guidelines).

PROJECT DESCRIPTION

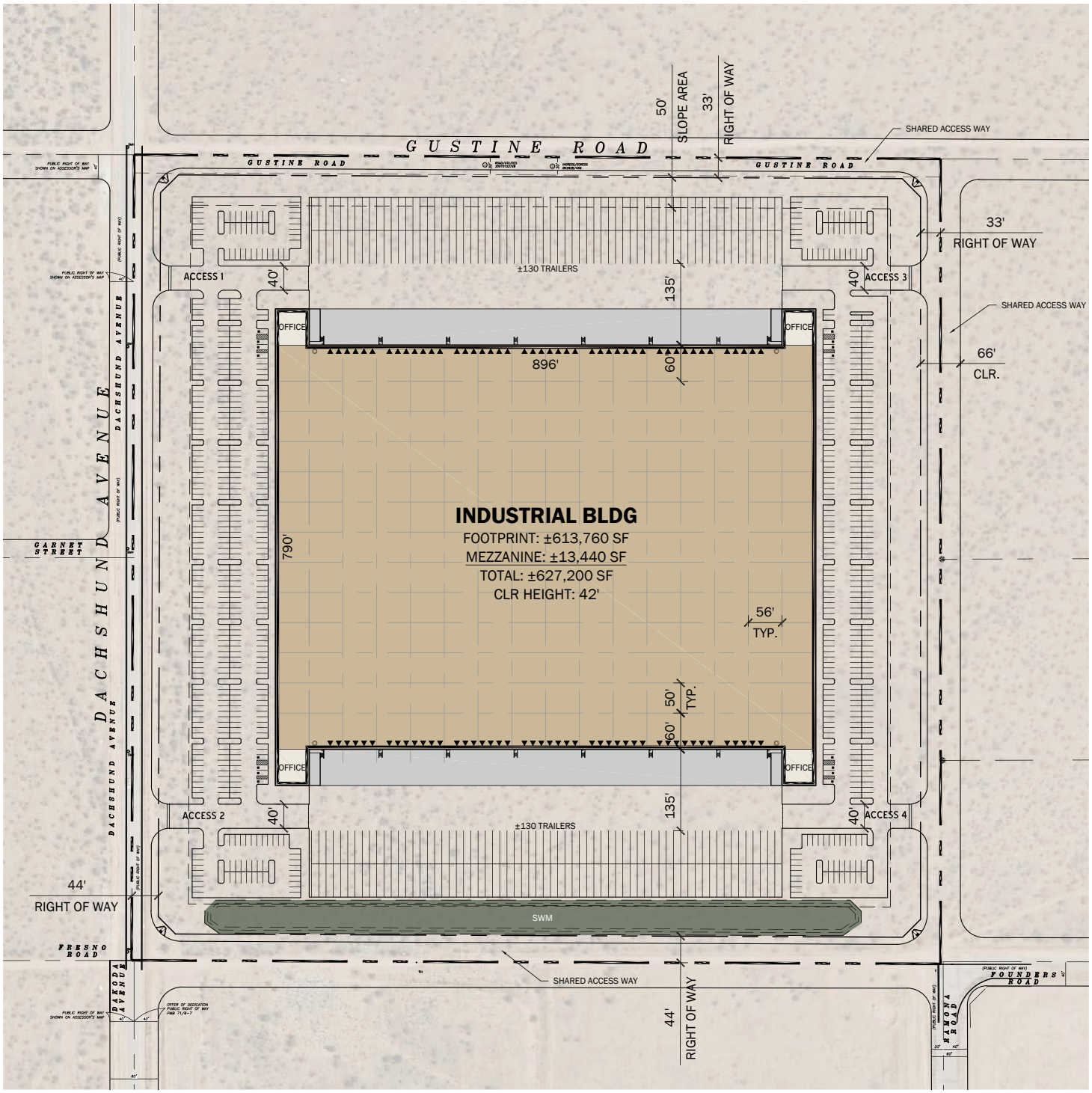
The Project consists of the development of a 627,200 square foot industrial warehouse and distribution building. The site is located between Dachshund Avenue (which becomes Dakota Road south of Fresno Road) and Ramona Road, south of Gustine Street and north of Fresno Road. In order to develop the traffic characteristics of the high-cube warehouse land use for the Proposed Project, trip-generation statistics published in the TUMF High-Cube Warehouse Trip Generation Study (WSP, January 29, 2019) are used. The purpose of WSP 2019 study was to gather enough data to develop reliable trip generation rates for centers for use in traffic impact studies in the Inland Empire.

A preliminary site plan for the proposed Project is shown on Exhibit 1. Access to the site will be accommodated via two driveways along Dachshund Avenue and two driveways on Ramona Road. All driveways are assumed to allow for full access (no turn restrictions). The Project is anticipated to have an Opening Year of 2026.

TRIP GENERATION

Trip generation represents the amount of traffic which is both attracted to and produced by a development. Determining traffic generation for a specific project is therefore based upon forecasting the amount of traffic that is expected to be both attracted to and produced by the specific land uses being proposed for a given development

EXHIBIT 1: PRELIMINARY SITE PLAN



Refinements to the raw trip generation estimates for the Project have been made to provide a more detailed breakdown of trips by vehicle type (passenger cars or trucks). Passenger car equivalents (PCEs) allow the typical "real-world" mix of vehicle types to be represented as a single, standardized unit, such as the passenger car, to be used for the purposes of capacity and level of service analyses.

Table 1 shows the trip generation rates and resulting Project trip generation summary, which shows the Project is anticipated to generate a net total of 1,335 two-way vehicle trip-ends per day with 77 AM peak hour trips and 104 PM peak hour trips (actual vehicles).

Passenger car equivalent (**PCE**) factors were applied to the trip generation rates for heavy trucks (large 2-axles, 3-axles, 4+-axles). PCEs allow the typical "real-world" mix of vehicle types to be represented as a single, standardized unit, such as the passenger car, to be used for the purposes of capacity and level of service analyses. The PCE factors are consistent with the recommended PCE factors in the County's Guidelines.

Table 2 shows the resulting Project trip generation summary in PCE, which shows the Project is anticipated to generate a net total of 2,138 two-way PCE vehicle trip-ends per day with 123 PCE AM peak hour trips and 167 PCE PM peak hour trips. Consistent with the County requirements, the peak hour intersection operations analysis will be conducted using the PCE volumes shown in Table 2.

TRIP DISTRIBUTION

The Project trip distribution represents the directional orientation of traffic to and from the Project site. Trip distribution is the process of identifying the probable destinations, directions or traffic routes that will be utilized by Project traffic. The potential interaction between the planned land uses and surrounding regional access routes are considered, to identify the route where the Project traffic would distribute. The Project trip distribution represents the directional orientation of traffic to and from the Project site. The proposed Project trip distributions are shown in Exhibit 2 for passenger cars and Exhibit 3 for trucks. The Project truck trip distribution patterns adhere to the Town's approved truck routes.

ANALYSIS SCENARIOS

Consistent with the County's Guidelines, intersection analysis will be provided for the following analysis scenarios during the AM and PM peak hours (7-9 AM and 4-6 PM):

1. Existing (2024) Conditions
2. Opening Year Cumulative (2026) Without Project Conditions
3. Opening Year Cumulative (2026) With Project Conditions

All study area intersections will be evaluated using the Highway Capacity Manual (HCM) 7th Edition analysis methodology. The study area that is proposed to be evaluated is shown on Exhibit 4.

Exhibit 5 shows the Town of Apple Valley General Plan Street System and Exhibit 6 illustrates the Town of Apple Valley General Plan roadway cross-sections.

TABLE 1: PROJECT TRIP GENERATION SUMMARY
ACTUAL VEHICLES

Proposed Project Trip Generation Rates[1]

Land Use	ITE LU Code	Quantity[2]	AM Peak Hour In	AM Peak Hour Out	AM Peak Hour Total	PM Peak Hour In	PM Peak Hour Out	PM Peak Hour Total	Daily
High-Cube Warehouse[3]	-	627.200 TSF	0.094	0.028	0.122	0.046	0.119	0.165	2.129
Passenger Cars			0.066	0.020	0.086	0.033	0.082	0.115	1.489
2 to 4-Axle+ Trucks			0.028	0.008	0.036	0.014	0.036	0.050	0.640

Proposed Project Trip Generation Results

Land Use	ITE LU Code	Quantity[2]	AM Peak Hour In	AM Peak Hour Out	AM Peak Hour Total	PM Peak Hour In	PM Peak Hour Out	PM Peak Hour Total	Daily
High-Cube Warehouse	-	627.200 TSF							
- Passenger Cars			41	13	54	21	52	73	934
- Truck Trips (Actual)			18	5	23	9	22	31	401
PROJECT TOTAL TRIPS (ACTUAL VEHICLES)[4]			59	18	77	30	74	104	1,335

[1] Trip Generation Source: Institute of Transportation Engineers (ITE), Trip Generation Manual, 11th Edition (2021).

[2] TSF = Thousand Square Feet; DU = Dwelling Units

[3] Source: *TUMF High-Cube Warehouse Trip Generation Study*. Prepared by WSP, January 2019.
Passenger and Truck AM/PM peak hour (in/out) splits are estimated from based on ITE peak-to-daily relationship
Truck Daily Rate Source: *Notice of Preparation of a Draft Environmental Impact Report for the Proposed Potrero Logistics Center*.
Prepared by South Coast Air Quality Management District (SCAQMD), June 2020.

[4] Total Net Trips (Actual Vehicles) = Passenger Cars + Net Truck Trips (Actual Trucks).

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TABLE 2: PROJECT TRIP GENERATION SUMMARY
PASSENGER CAR EQUIVALENT (PCE)

Project Trip Generation Rates[1]

Land Use	ITE LU Code	Quantity[2]	AM Peak Hour In	AM Peak Hour Out	AM Peak Hour Total	PM Peak Hour In	PM Peak Hour Out	PM Peak Hour Total	Daily
High-Cube Warehouse[3]	-	627.200 TSF	0.150	0.045	0.195	0.075	0.190	0.265	3.409
		Passenger Cars	0.066	0.020	0.086	0.033	0.082	0.115	1.489
		2 to 4-Axle+ Trucks (PCE = 3.0)	0.084	0.025	0.109	0.042	0.108	0.150	1.920

Project Trip Generation Results

Land Use	ITE LU Code	Quantity[2]	AM Peak Hour In	AM Peak Hour Out	AM Peak Hour Total	PM Peak Hour In	PM Peak Hour Out	PM Peak Hour Total	Daily
High-Cube Warehouse	-	627.200 TSF							
- Passenger Cars			41	13	54	21	52	73	934
- Truck Trips (PCE = 3.0)			53	16	69	26	68	94	1,204
PROJECT TOTAL EXTERNAL TRIPS (PCE)[4]			94	29	123	47	120	167	2,138

[1] Trip Generation Source: Institute of Transportation Engineers (ITE), Trip Generation Manual, 11th Edition (2021).

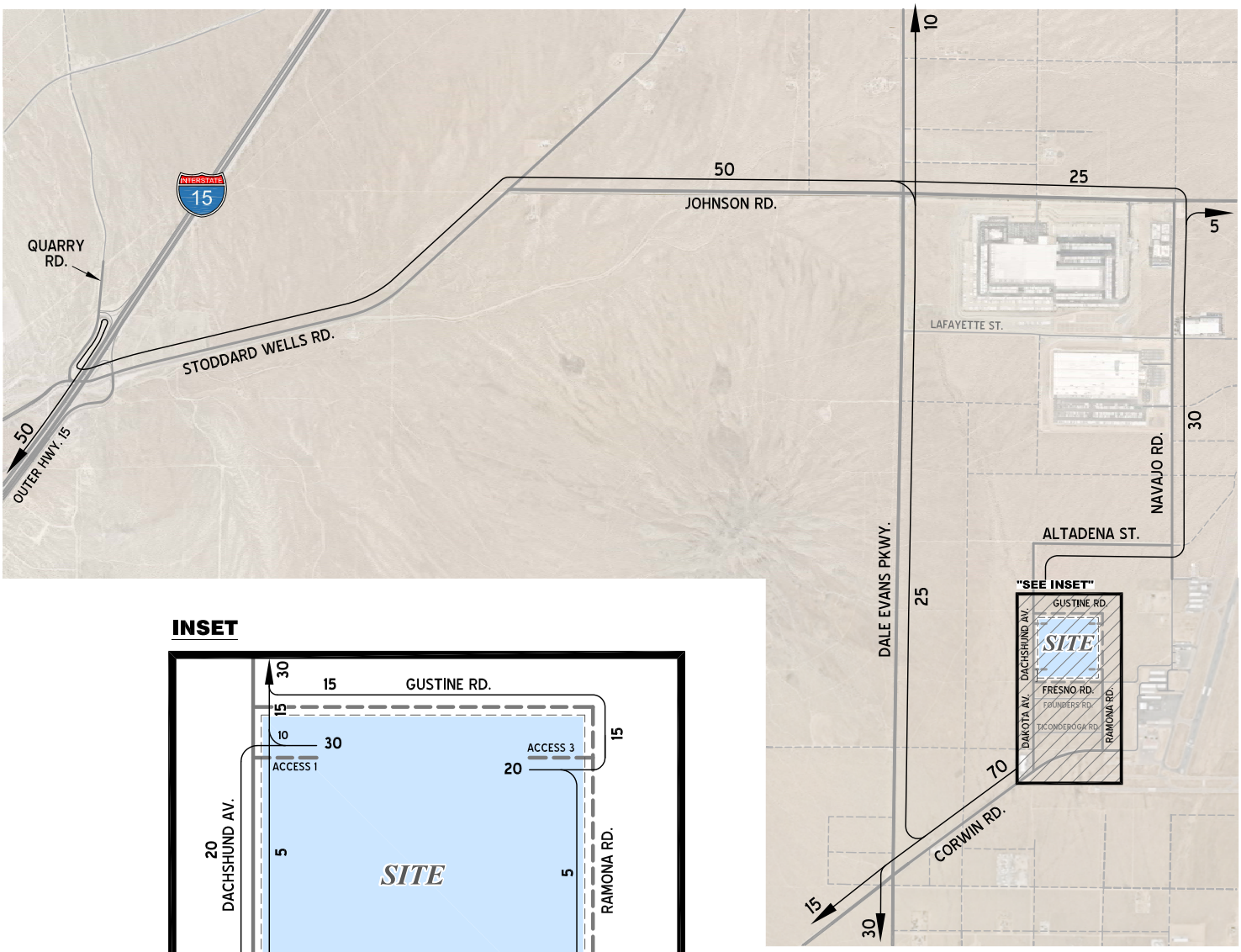
[2] TSF = Thousand Square Feet; DU = Dwelling Units

[3] Source: *TUMF High-Cube Warehouse Trip Generation Study* . Prepared by WSP, January 2019.
Passenger and Truck AM/PM peak hour (in/out) splits are estimated from based on ITE peak-to-daily relationship
Truck Daily Rate Source: *Notice of Preparation of a Draft Environmental Impact Report for the Proposed Potrero Logistics Center* .
Prepared by South Coast Air Quality Management District (SCAQMD), June 2020.

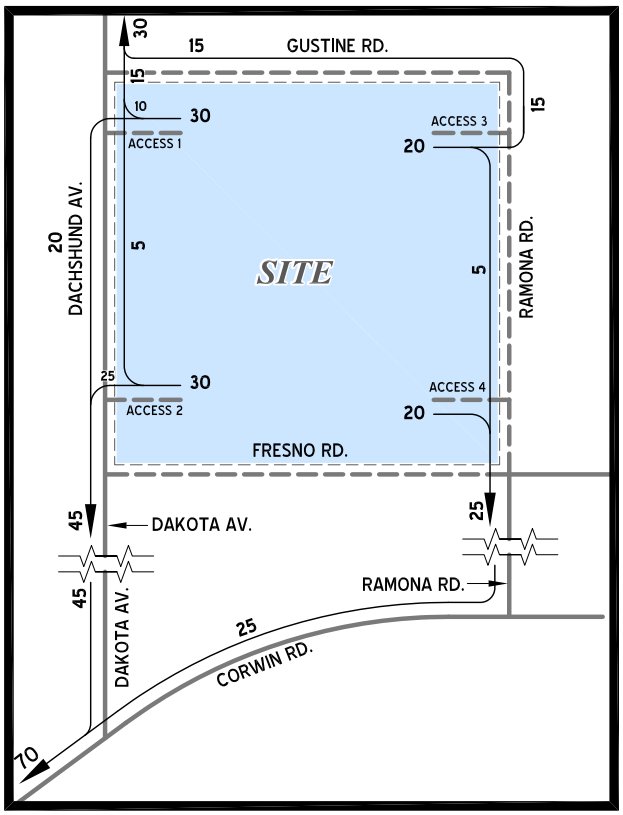
[4] Total Net Trips (PCE) = Passenger Cars + Net Truck Trips (Passenger Car Equivalent).

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EXHIBIT 2: PROJECT (PASSENGER CAR) TRIP DISTRIBUTION



INSET



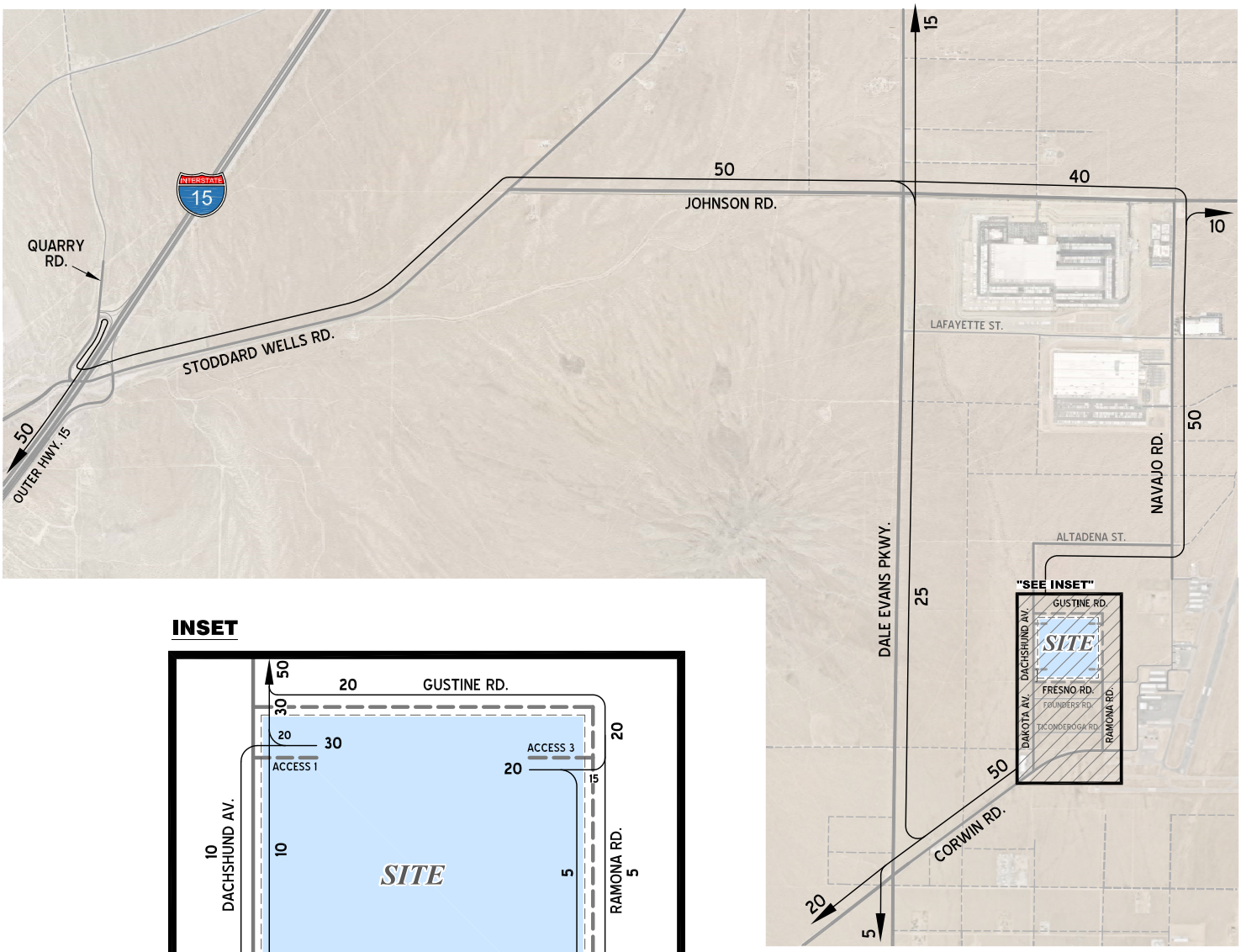
LEGEND:

10 = PERCENT TO/FROM PROJECT

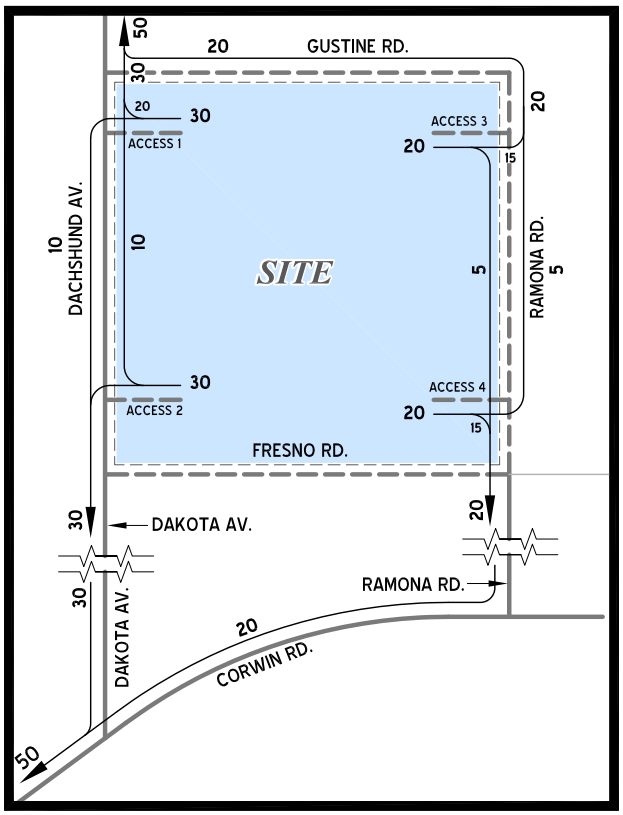
= FUTURE ROADWAY

N

EXHIBIT 3: PROJECT (TRUCK) TRIP DISTRIBUTION



INSET



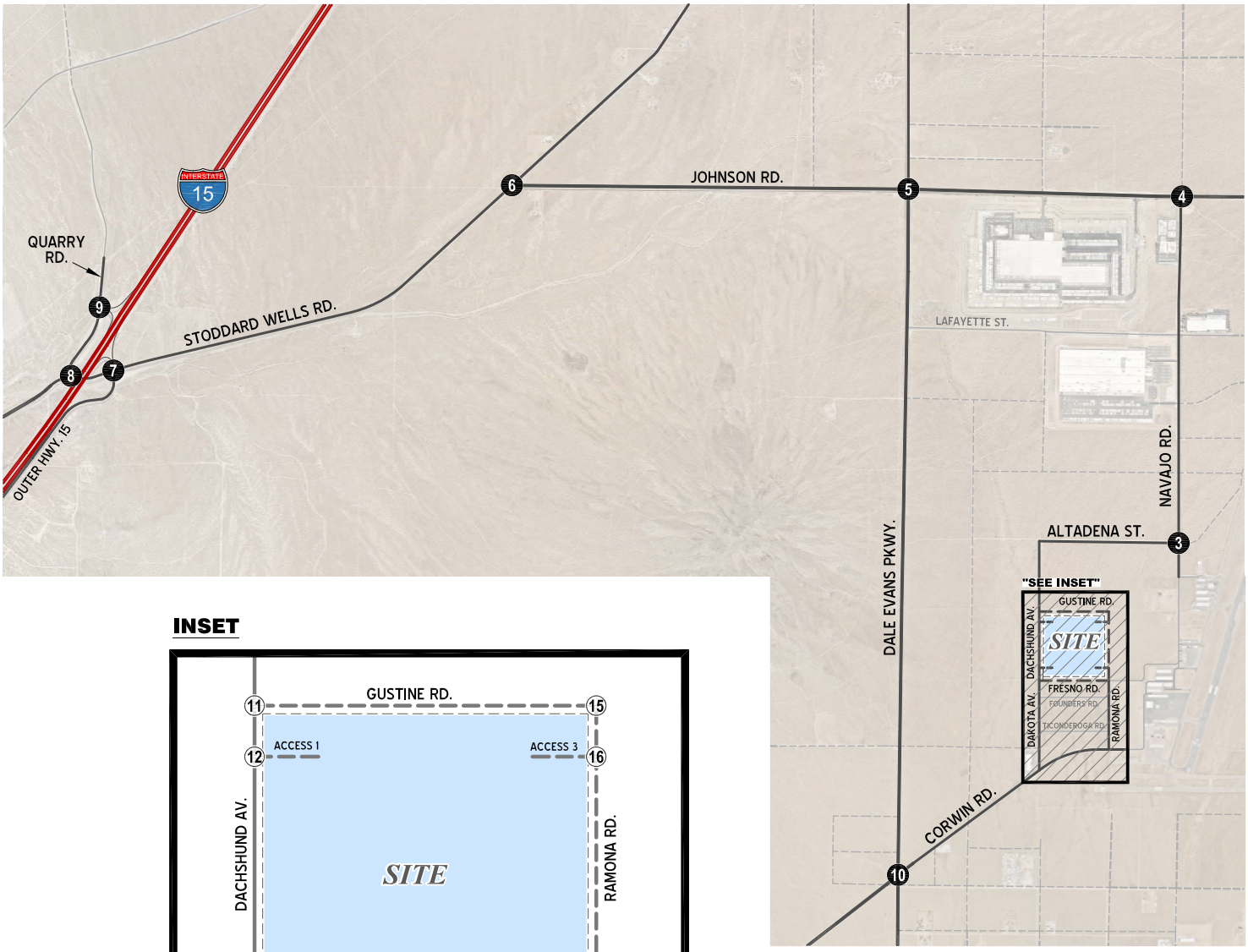
LEGEND:

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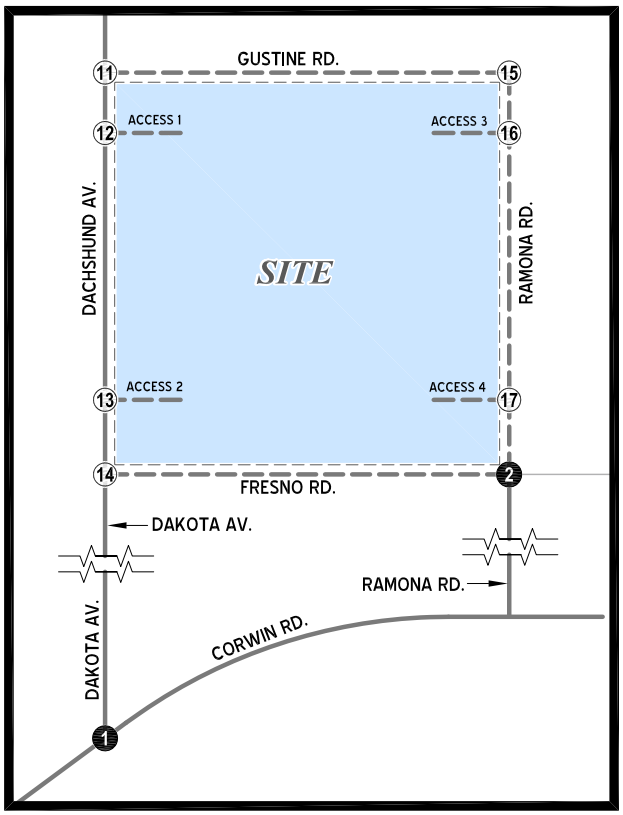
= FUTURE ROADWAY

N

EXHIBIT 4: TRAFFIC ANALYSIS STUDY AREA



INSET



LEGEND:

- (10) = EXISTING ANALYSIS LOCATION
- (7) = FUTURE ANALYSIS LOCATION
- = FUTURE ROADWAY

N

EXHIBIT 5: TOWN OF APPLE VALLEY GENERAL PLAN STREET SYSTEM

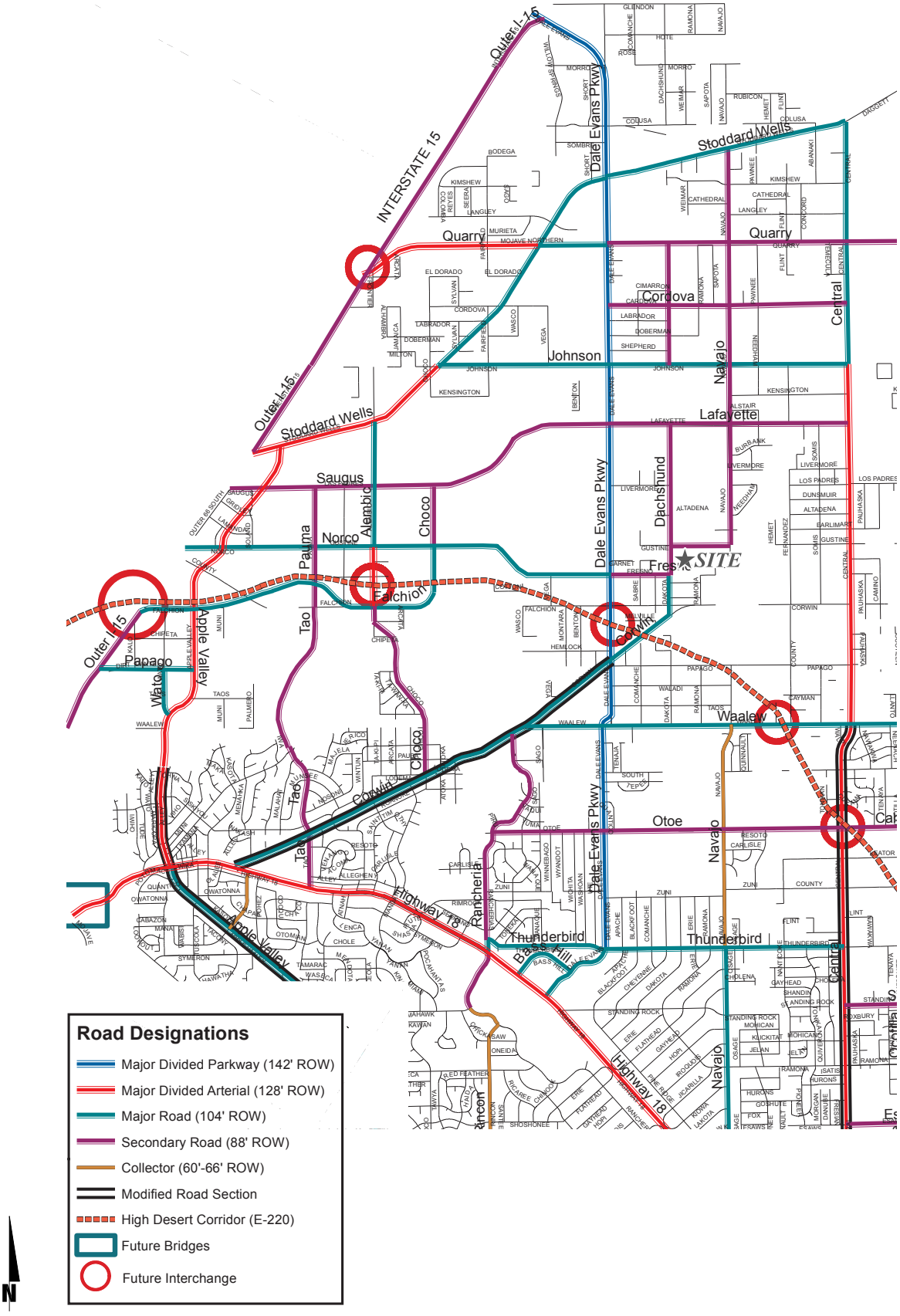
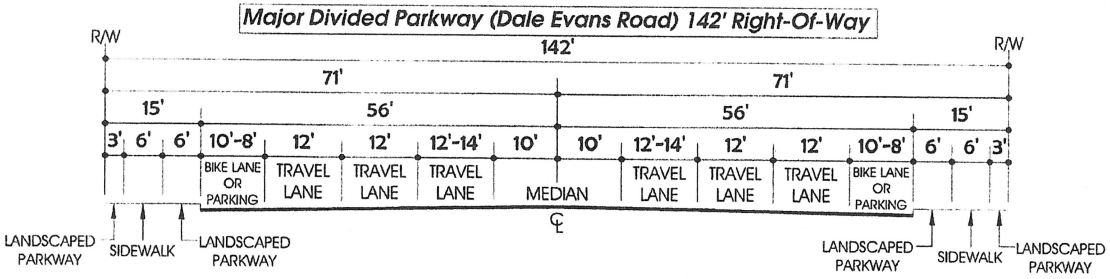
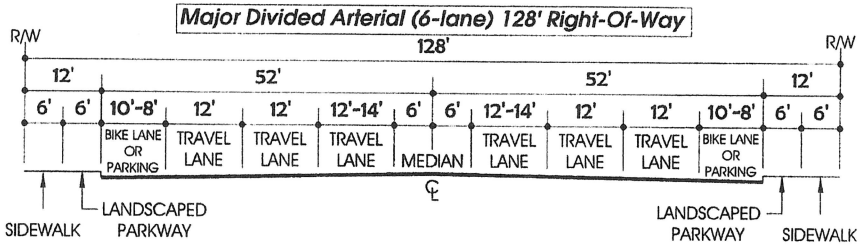
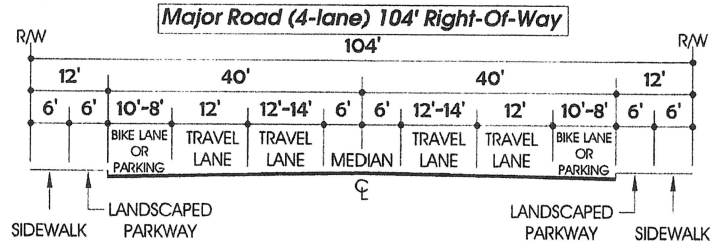
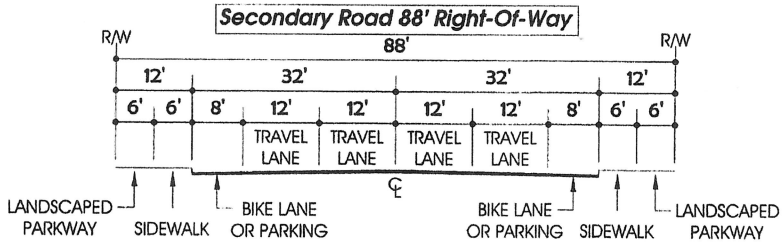


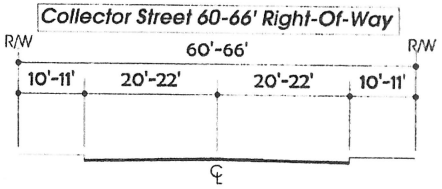
EXHIBIT 6: TOWN OF APPLE VALLEY GENERAL PLAN ROADWAY CROSS-SECTIONS

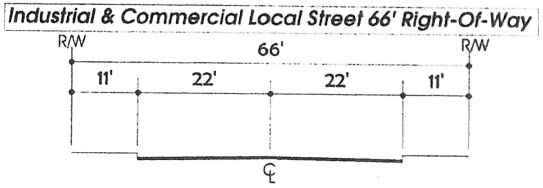


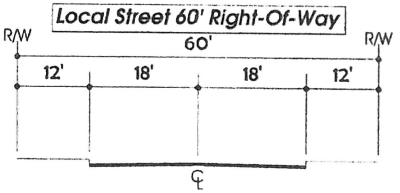


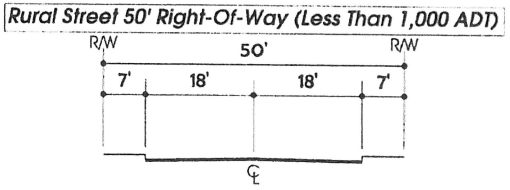


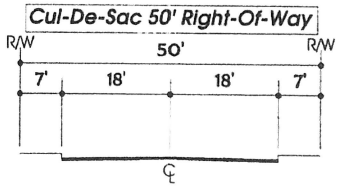












TRAFFIC COUNTS

Majority of the traffic counts within the study area were collected in January 2024 and April 2024. New traffic counts (classified by vehicle type) will be conducted for the remaining intersections while local schools are in session and operating on a typical bell schedule. No adjustments are proposed to the traffic counts for the baseline traffic condition with the exception of any adjustments to account for volume balancing between closely spaced intersections.

AMBIENT GROWTH

Future year traffic forecasts will include background (ambient) growth at 2.0% per year, compounded annually. The total ambient growth is 4.04% for 2026 traffic conditions. The ambient growth factor is intended to approximate regional traffic growth. This ambient growth rate will be added to existing traffic volumes to account for area-wide growth not reflected by cumulative development projects.

CUMULATIVE PROJECTS

Exhibit 5 shows the locations of the cumulative projects listed on Table 3. It is requested that the Town review the list and also provide any additional current cumulative projects within the study area for inclusion in the Traffic Analysis.

IDENTIFYING DEFICIENCIES

The identification of project deficiencies is designed to identify potential level of service (**LOS**) problems and to address them before they occur. This will provide a framework for establishing transportation-related project conditions by the Town.

A project deficiency occurs when a signalized or unsignalized intersection is forecast to degrade intersection operations below the Town's acceptable LOS standard, which is identified in the Town's Circulation Element, or if a project adds five seconds of delay or more to an intersection that operates below acceptable standards without the addition of project traffic. Additionally, all unsignalized intersections shall be evaluated for a peak hour traffic signal warrant based on the California Manual on Uniform Transportation Control Devices (**MUTCD**). Any unsignalized intersection that meets the peak hour signal warrant is considered deficient.

IDENTIFYING IMPROVEMENTS AND COST ESTIMATES

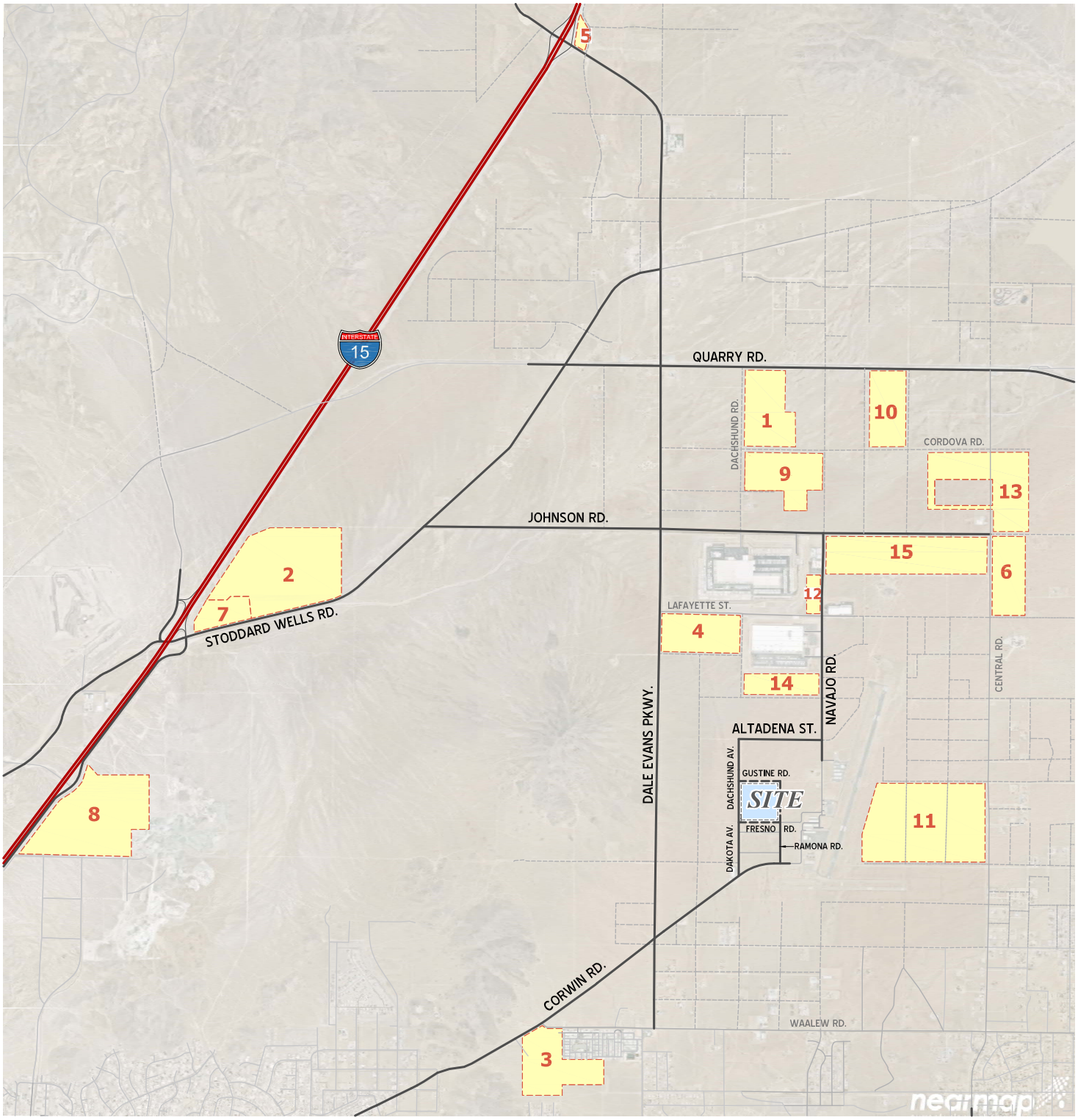
Physical improvements shall be identified at all intersections that are forecast to operate deficiently. Improvements under future year conditions must bring intersection operations to acceptable standards, while improvements under opening year conditions must bring intersection operations to better than pre-project conditions.

TABLE 3: LIST OF CUMULATIVE PROJECTS

TAZ	Project	Land Use	Quantity	Units[1]
1	Cordova Road Logistics (SEC Dachshund Av. & Quarry Rd.)	High-Cube Fulfillment Center	1,144.33	TSF
		High-Cube Cold Storage	201.94	TSF
2	Apple Valley 143	Industrial/Warehouse	2,518.50	TSF
3	TTM 20306 (south of Waalew & east of Corwin)	Single Family Residential	160	DU
4	Lafayette Street Logistics (Redwood West)	High-Cube Warehouse	1,026.41	TSF
		High-Cube Cold Storage	181.13	TSF
5	Apple Valley Gateway Center (north of Dale Evans & east of I-15)	Pad A - Hotel	84	RM
		Pad B - Fast-Food Restaurant w/ Drive-Thru	5.769	TSF
		Pad C - Gas Station with C-Store (5 TSF)	16	VFP
		Pad D - Gas Station with C-Store (3.35 TSF)	12	VFP
		Pad E - Fast-Food Restaurant w/ Drive-Thru	4.00	TSF
		Pad F - Fast-Food Restaurant w/ Drive-Thru	4.20	TSF
		Pad G - Restaurant	4.00	TSF
		Pad H - Shops	10.261	TSF
		Pad I - Fast-Food Restaurant w/ Drive-Thru	2.80	TSF
6	1M Warehouse (east of Central Road, between Johnson Road & Lafayette Street)	High Cube Fulfillment Center Warehouse	1,080.125	TSF
7	Apple Valley I-15 Travel Center (Love's Travel Stop - north of Stoddard Wells & east of I-15)	RV Park	80	Spaces
		Gas Station with C-Store (9.66 TSF)	26	VFP
		Fast-Food Restaurant w/ Drive-Thru	3.043	TSF
		Truck Maintenance/Tire Building	13.786	TSF
8	Inland Empire North Logistics Ctr. (north of Falchion Road & east of I-5)	Industrial/Warehouse	2,604.446	TSF
9	Cordova Quarry	High-Cube Cold Storage	1,559.952	TSF
10	Quarry at Pawnee	High-Cube Cold Storage	1,462.342	TSF
11	Lake Creek Logistics Center (Apple Valley Logistics Center)	General Light Industrial (10%)	348.074	TSF
		High-Cube Cold Storage (10%)	348.074	TSF
		High-Cube Fulfillment (80%)	2,784.588	TSF
12	Green Trucking Solutions	High-Cube Cold Storage	385.004	TSF
13	Apple Valley 3PL Center	Industrial/Warehouse	2,134.000	TSF
14	Watson High Desert Logistics West	High-Cube Fulfillment Center (Non-Sort)	896.500	TSF
15	Watson High Desert Logistics East	High-Cube Fulfillment Center (Non-Sort)	2,832.600	TSF

[1] DU = Dwelling Units; TSF = Thousand Square Feet; RM = Room; VFP = Vehicle Fueling Positions

EXHIBIT 7: CUMULATIVE DEVELOPMENT LOCATION MAP



LEGEND:

(#) = CUMULATIVE DEVELOPMENT ID

N

Opening year improvement costs are the sole responsibility of the project, and future year improvement costs are based on a fair share contribution calculation. The project's fair share contribution for future year improvements can be estimated using the following equation:

$$Fair\ Share\ Percentage = \frac{Project\ Trips}{Future\ Year\ With\ Project - Existing}$$

SITE ACCESS AND CHARACTERISTICS

LOS shall be estimated at all project driveways to ensure they are sized accordingly. The site should be reviewed to ensure that it does not have any design characteristics that would promote inefficient circulation. For example, proposed driveways should provide sufficient length so that vehicles entering the site will not cause subsequent vehicles entering the site to spill back into the Town transportation system. Additionally, driveways should have adequate space between existing/proposed driveways and other existing intersections to limit adverse effects at adjacent facilities and discourage weaving. Finally, the project's parking supply shall satisfy requirements set forth by the Town.

SPECIAL ISSUES

The following special issues will also be addressed:

- ***Queuing Analysis:*** conduct 95th percentile queuing assessment to ensure turn pockets can accommodate the anticipated peak hour queues at the Project driveways and at site adjacent intersections.
- ***Traffic Signal Warrant Analysis:*** Conduct traffic signal warrant analysis for all existing and future unsignalized study area intersections, which also includes all Project driveways.

SIGNAL TIMING

It is requested that the Town provide signal timing for any signalized Town-controlled intersections.

If you have any questions or comments, we can be reached at jkain@urbanxroads.com for John or mwhiteman@urbanxroads.com for Marlie

APPENDIX 1.2: SITE ADJACENT QUEUES

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Intersection: 12: Dachshund Av. & Access 1

Movement	WB
Directions Served	LR
Maximum Queue (ft)	25
Average Queue (ft)	7
95th Queue (ft)	28
Link Distance (ft)	324
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 13: Dachshund Av. & Access 2

Movement	WB
Directions Served	LR
Maximum Queue (ft)	24
Average Queue (ft)	8
95th Queue (ft)	29
Link Distance (ft)	333
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 16: Ramona Rd. & Access 3

Movement	EB
Directions Served	LR
Maximum Queue (ft)	18
Average Queue (ft)	5
95th Queue (ft)	23
Link Distance (ft)	313
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 17: Ramona Rd. & Access 4

Movement	EB
Directions Served	LR
Maximum Queue (ft)	23
Average Queue (ft)	5
95th Queue (ft)	22
Link Distance (ft)	339
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Zone Summary

Zone wide Queuing Penalty: 0

Intersection: 12: Dachshund Av. & Access 1

Movement	WB	SB
Directions Served	LR	LT
Maximum Queue (ft)	40	5
Average Queue (ft)	22	1
95th Queue (ft)	49	8
Link Distance (ft)	324	169
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 13: Dachshund Av. & Access 2

Movement	WB
Directions Served	LR
Maximum Queue (ft)	30
Average Queue (ft)	20
95th Queue (ft)	43
Link Distance (ft)	333
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 16: Ramona Rd. & Access 3

Movement	EB
Directions Served	LR
Maximum Queue (ft)	36
Average Queue (ft)	16
95th Queue (ft)	43
Link Distance (ft)	313
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 17: Ramona Rd. & Access 4

Movement	EB
Directions Served	LR
Maximum Queue (ft)	31
Average Queue (ft)	11
95th Queue (ft)	34
Link Distance (ft)	339
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Zone Summary

Zone wide Queuing Penalty: 0

APPENDIX 3.1: TRAFFIC COUNTS

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Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951) 268-6268

City of Apple Valley
N/S: Dakota Avenue
E/W: Corwin Road
Weather: Clear

File Name : 01_APV_Dak_Cor AM
Site Code : 05124741
Start Date : 8/27/2024
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

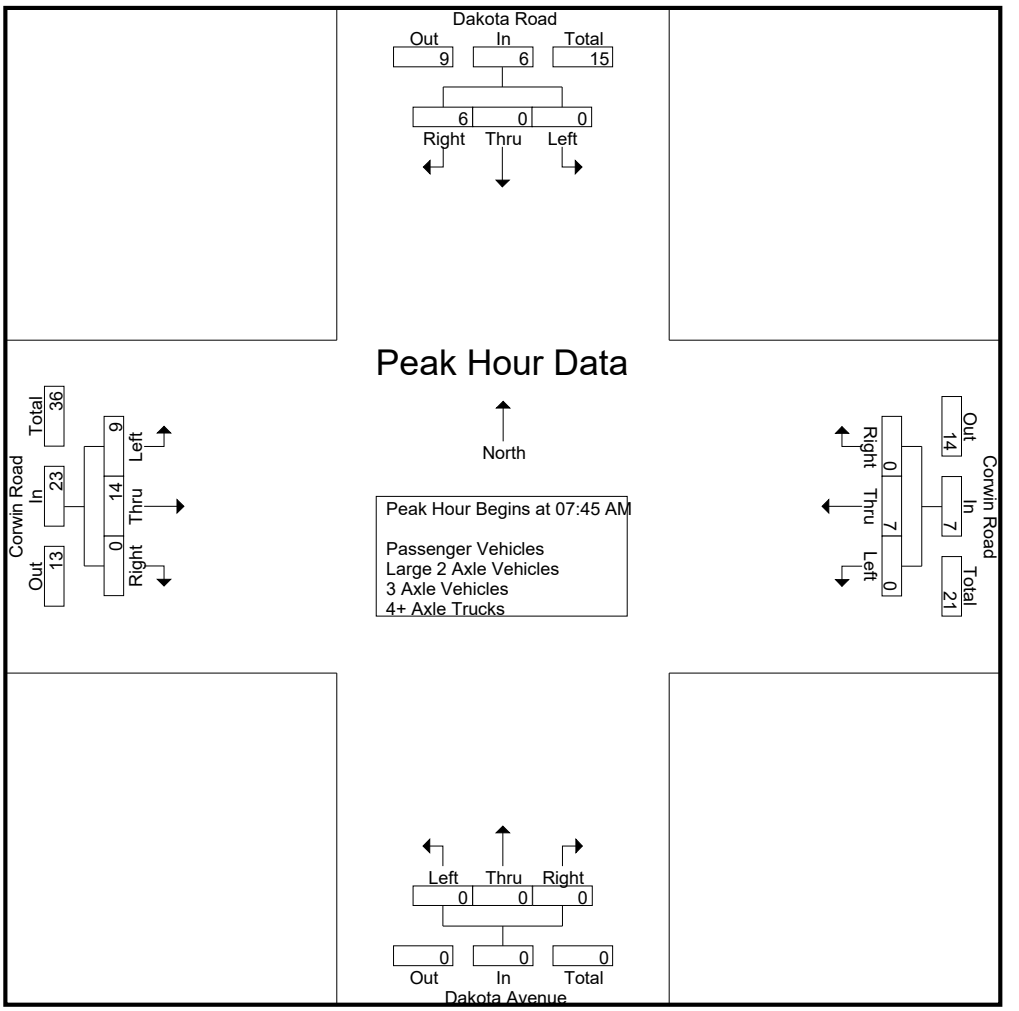
	Dakota Road Southbound				Corwin Road Westbound				Dakota Avenue Northbound				Corwin Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	1	1	0	1	0	1	0	0	0	0	3	5	0	8	10
07:15 AM	0	0	2	2	0	2	0	2	0	0	0	0	3	2	0	5	9
07:30 AM	0	0	1	1	0	3	0	3	0	0	0	0	0	1	0	1	5
07:45 AM	0	0	0	0	0	1	0	1	0	0	0	0	2	6	0	8	9
Total	0	0	4	4	0	7	0	7	0	0	0	0	8	14	0	22	33
08:00 AM	0	0	1	1	0	0	0	0	0	0	0	0	3	3	0	6	7
08:15 AM	0	0	2	2	0	1	0	1	0	0	0	0	1	2	0	3	6
08:30 AM	0	0	3	3	0	5	0	5	0	0	0	0	3	3	0	6	14
08:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	3	3
Total	0	0	6	6	0	6	0	6	0	0	0	0	8	10	0	18	30
Grand Total	0	0	10	10	0	13	0	13	0	0	0	0	16	24	0	40	63
Apprch %	0	0	100		0	100	0		0	0	0		40	60	0		
Total %	0	0	15.9	15.9	0	20.6	0	20.6	0	0	0	0	25.4	38.1	0	63.5	
Passenger Vehicles	0	0	10	10	0	13	0	13	0	0	0	0	16	24	0	40	63
% Passenger Vehicles	0	0	100	100	0	100	0	100	0	0	0	0	100	100	0	100	100
Large 2 Axle Vehicles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Large 2 Axle Vehicles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 Axle Vehicles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% 3 Axle Vehicles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4+ Axle Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% 4+ Axle Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	Dakota Road Southbound				Corwin Road Westbound				Dakota Avenue Northbound				Corwin Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:45 AM																	
07:45 AM	0	0	0	0	0	1	0	1	0	0	0	0	2	**6**	0	**8**	9
08:00 AM	0	0	1	1	0	0	0	0	0	0	0	0	**3**	3	0	6	7
08:15 AM	0	0	2	2	0	1	0	1	0	0	0	0	1	2	0	3	6
08:30 AM	0	0	**3**	**3**	0	**5**	0	**5**	0	0	0	0	3	3	0	6	**14**
Total Volume	0	0	6	6	0	7	0	7	0	0	0	0	9	14	0	23	36
% App. Total	0	0	100		0	100	0		0	0	0		39.1	60.9	0		
PHF	.000	.000	.500	.500	.000	.350	.000	.350	.000	.000	.000	.000	.750	.583	.000	.719	.643

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City of Apple Valley
N/S: Dakota Avenue
E/W: Corwin Road
Weather: Clear

File Name : 01_APV_Dak_Cor AM
Site Code : 05124741
Start Date : 8/27/2024
Page No : 2



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:45 AM				07:00 AM				07:00 AM				07:45 AM			
+0 mins.	0	0	0	0	0	1	0	1	0	0	0	0	2	**6**	0	**8**
+15 mins.	0	0	1	1	0	2	0	2	0	0	0	0	**3**	3	0	6
+30 mins.	0	0	2	2	0	**3**	0	**3**	0	0	0	0	1	2	0	3
+45 mins.	0	0	**3**	**3**	0	1	0	1	0	0	0	0	3	3	0	6
Total Volume	0	0	6	6	0	7	0	7	0	0	0	0	9	14	0	23
% App. Total	0	0	100		0	100	0		0	0	0		39.1	60.9	0	
PHF	.000	.000	.500	.500	.000	.583	.000	.583	.000	.000	.000	.000	.750	.583	.000	.719

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City of Apple Valley
N/S: Dakota Avenue
E/W: Corwin Road
Weather: Clear

File Name : 01_APV_Dak_Cor AM
Site Code : 05124741
Start Date : 8/27/2024
Page No : 1

Groups Printed- Passenger Vehicles

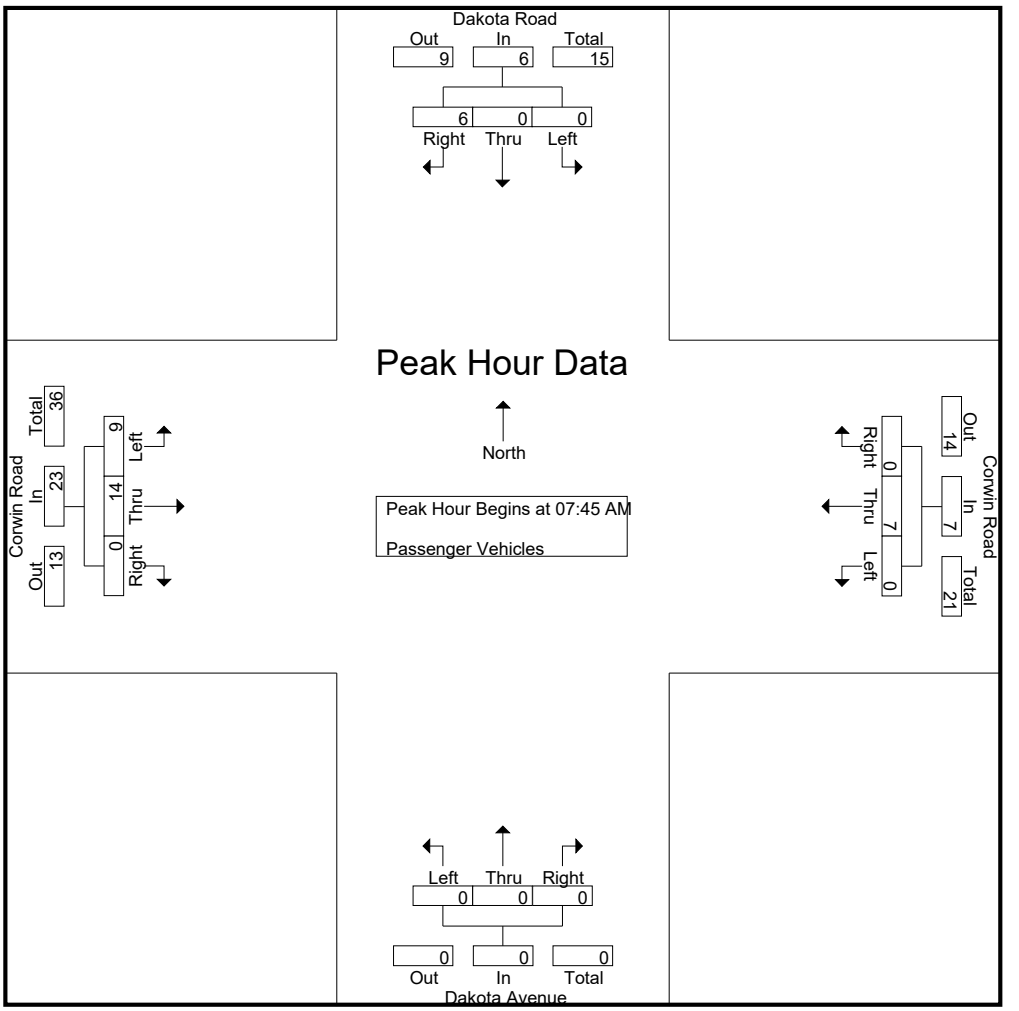
	Dakota Road Southbound				Corwin Road Westbound				Dakota Avenue Northbound				Corwin Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	1	1	0	1	0	1	0	0	0	0	3	5	0	8	10
07:15 AM	0	0	2	2	0	2	0	2	0	0	0	0	3	2	0	5	9
07:30 AM	0	0	1	1	0	3	0	3	0	0	0	0	0	1	0	1	5
07:45 AM	0	0	0	0	0	1	0	1	0	0	0	0	2	6	0	8	9
Total	0	0	4	4	0	7	0	7	0	0	0	0	8	14	0	22	33
08:00 AM	0	0	1	1	0	0	0	0	0	0	0	0	3	3	0	6	7
08:15 AM	0	0	2	2	0	1	0	1	0	0	0	0	1	2	0	3	6
08:30 AM	0	0	3	3	0	5	0	5	0	0	0	0	3	3	0	6	14
08:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	3	3
Total	0	0	6	6	0	6	0	6	0	0	0	0	8	10	0	18	30
Grand Total	0	0	10	10	0	13	0	13	0	0	0	0	16	24	0	40	63
Apprch %	0	0	100		0	100	0		0	0	0		40	60	0		
Total %	0	0	15.9	15.9	0	20.6	0	20.6	0	0	0	0	25.4	38.1	0	63.5	

	Dakota Road Southbound				Corwin Road Westbound				Dakota Avenue Northbound				Corwin Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:45 AM																	
07:45 AM	0	0	0	0	0	1	0	1	0	0	0	0	2	**6**	0	**8**	9
08:00 AM	0	0	1	1	0	0	0	0	0	0	0	0	**3**	3	0	6	7
08:15 AM	0	0	2	2	0	1	0	1	0	0	0	0	1	2	0	3	6
08:30 AM	0	0	**3**	**3**	0	**5**	0	**5**	0	0	0	0	3	3	0	6	**14**
Total Volume	0	0	6	6	0	7	0	7	0	0	0	0	9	14	0	23	36
% App. Total	0	0	100		0	100	0		0	0	0		39.1	60.9	0		
PHF	.000	.000	.500	.500	.000	.350	.000	.350	.000	.000	.000	.000	.750	.583	.000	.719	.643

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File Name : 01_APV_Dak_Cor AM
Site Code : 05124741
Start Date : 8/27/2024
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Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:45 AM				07:45 AM				07:45 AM				07:45 AM			
+0 mins.	0	0	0	0	0	1	0	1	0	0	0	0	2	**6**	0	**8**
+15 mins.	0	0	1	1	0	0	0	0	0	0	0	0	**3**	3	0	6
+30 mins.	0	0	2	2	0	1	0	1	0	0	0	0	1	2	0	3
+45 mins.	0	0	**3**	**3**	0	**5**	0	**5**	0	0	0	0	3	3	0	6
Total Volume	0	0	6	6	0	7	0	7	0	0	0	0	9	14	0	23
% App. Total	0	0	100		0	100	0		0	0	0		39.1	60.9	0	
PHF	.000	.000	.500	.500	.000	.350	.000	.350	.000	.000	.000	.000	.750	.583	.000	.719

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City of Apple Valley
N/S: Dakota Avenue
E/W: Corwin Road
Weather: Clear

File Name : 01_APV_Dak_Cor AM
Site Code : 05124741
Start Date : 8/27/2024
Page No : 1

Groups Printed- Large 2 Axle Vehicles

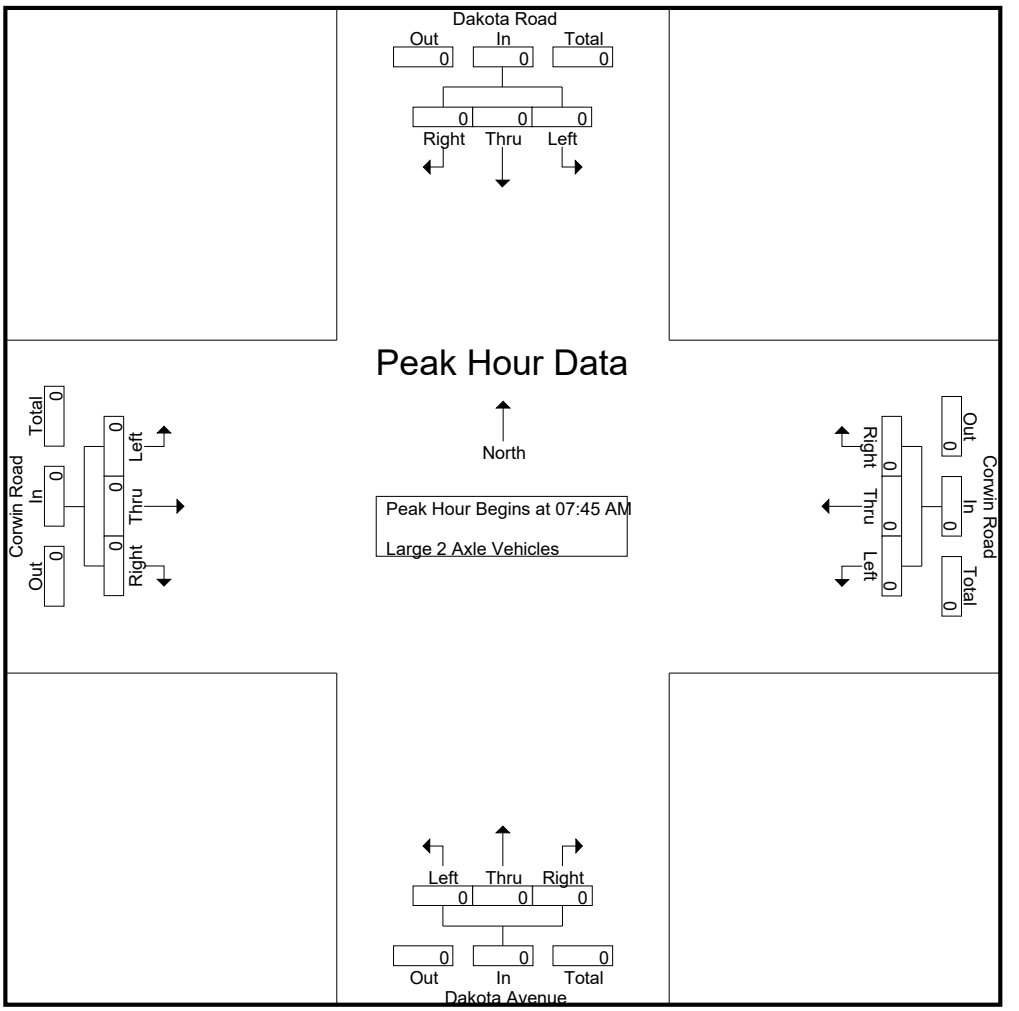
	Dakota Road Southbound				Corwin Road Westbound				Dakota Avenue Northbound				Corwin Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Apprch %	0	0	0		0	0	0		0	0	0		0	0	0		
Total %																	

	Dakota Road Southbound				Corwin Road Westbound				Dakota Avenue Northbound				Corwin Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:45 AM																	
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0		0	0	0		0	0	0		0	0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

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File Name : 01_APV_Dak_Cor AM
Site Code : 05124741
Start Date : 8/27/2024
Page No : 2



Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:45 AM				07:45 AM				07:45 AM				07:45 AM			
+0 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0		0	0	0		0	0	0		0	0	0	
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

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City of Apple Valley
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E/W: Corwin Road
Weather: Clear

File Name : 01_APV_Dak_Cor AM
Site Code : 05124741
Start Date : 8/27/2024
Page No : 1

Groups Printed- 3 Axle Vehicles

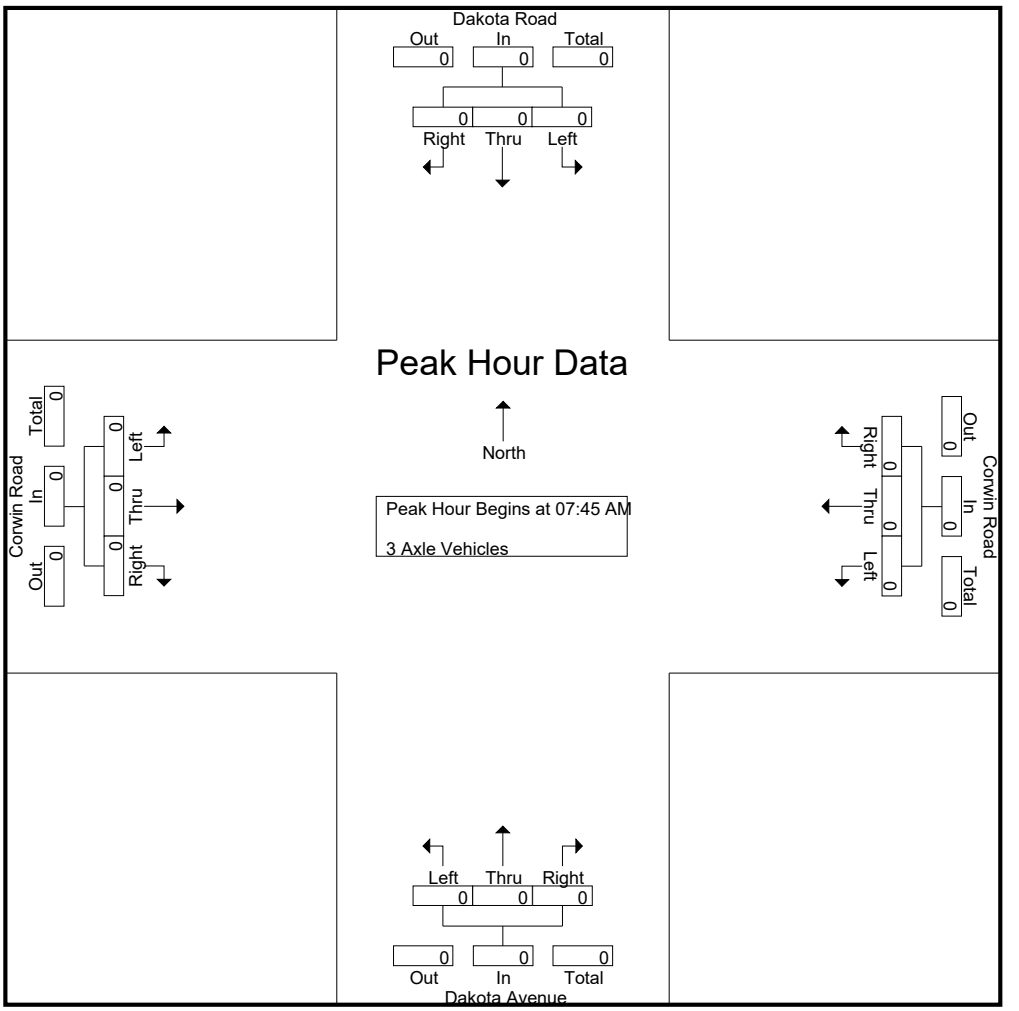
	Dakota Road Southbound				Corwin Road Westbound				Dakota Avenue Northbound				Corwin Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Apprch %	0	0	0		0	0	0		0	0	0		0	0	0		
Total %																	

	Dakota Road Southbound				Corwin Road Westbound				Dakota Avenue Northbound				Corwin Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:45 AM																	
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0		0	0	0		0	0	0		0	0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

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File Name : 01_APV_Dak_Cor AM
Site Code : 05124741
Start Date : 8/27/2024
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Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:45 AM				07:45 AM				07:45 AM				07:45 AM			
+0 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0		0	0	0		0	0	0		0	0	0	
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

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City of Apple Valley
N/S: Dakota Avenue
E/W: Corwin Road
Weather: Clear

File Name : 01_APV_Dak_Cor AM
Site Code : 05124741
Start Date : 8/27/2024
Page No : 1

Groups Printed- 4+ Axle Trucks

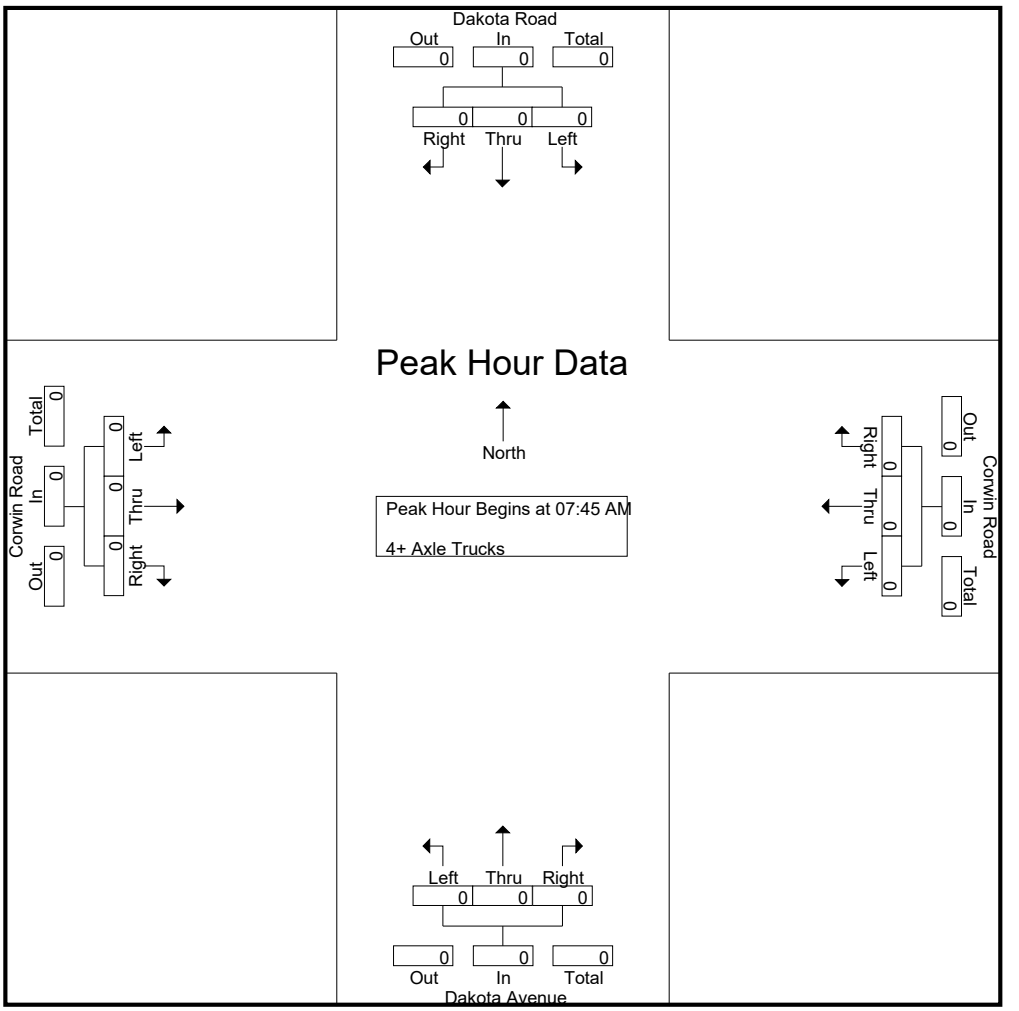
	Dakota Road Southbound				Corwin Road Westbound				Dakota Avenue Northbound				Corwin Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Apprch %	0	0	0		0	0	0		0	0	0		0	0	0		
Total %																	

	Dakota Road Southbound				Corwin Road Westbound				Dakota Avenue Northbound				Corwin Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:45 AM																	
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0		0	0	0		0	0	0		0	0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

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File Name : 01_APV_Dak_Cor AM
Site Code : 05124741
Start Date : 8/27/2024
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Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:45 AM				07:45 AM				07:45 AM				07:45 AM			
+0 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0		0	0	0		0	0	0		0	0	0	
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

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City of Apple Valley
N/S: Dakota Avenue
E/W: Corwin Road
Weather: Clear

File Name : 01_APV_Dak_Cor PM
Site Code : 05124741
Start Date : 8/27/2024
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

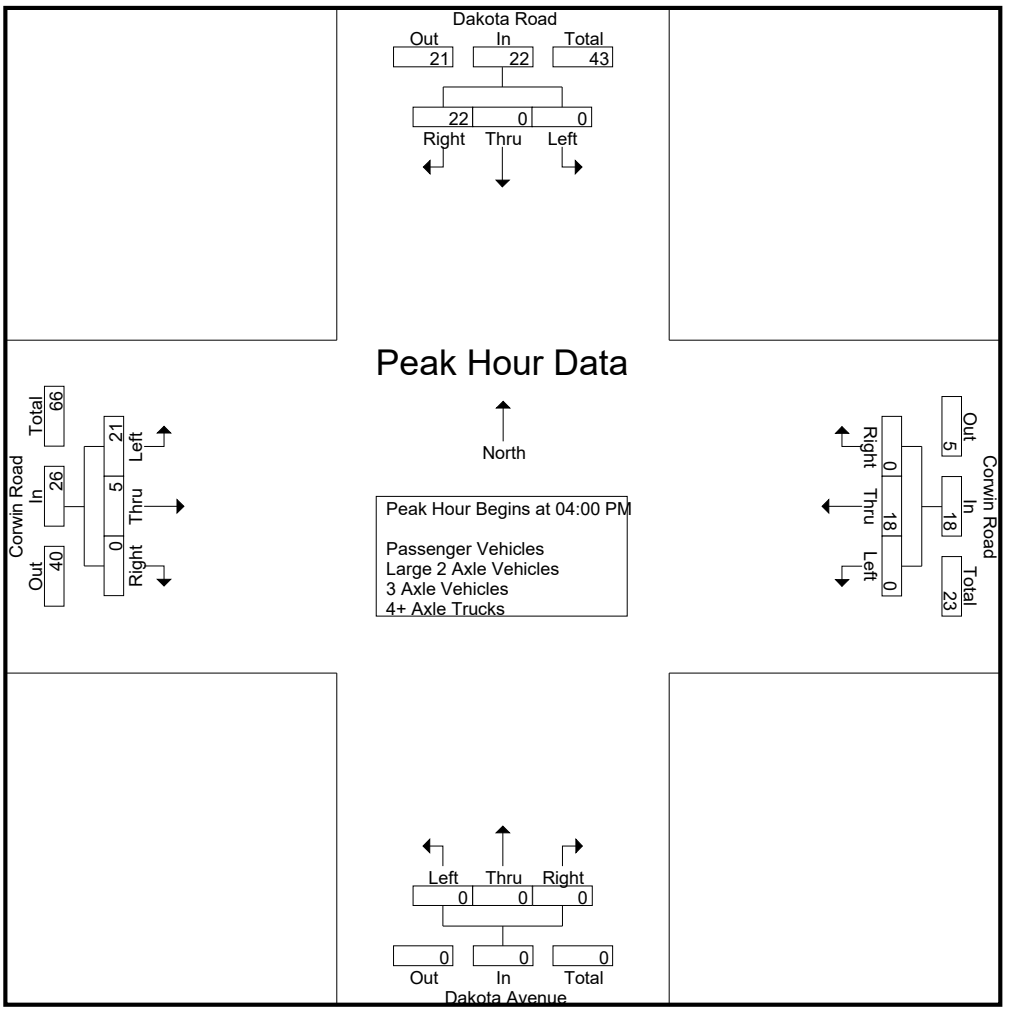
	Dakota Road Southbound				Corwin Road Westbound				Dakota Avenue Northbound				Corwin Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	7	7	0	8	0	8	0	0	0	0	7	2	0	9	24
04:15 PM	0	0	7	7	0	4	0	4	0	0	0	0	7	1	0	8	19
04:30 PM	0	0	6	6	0	1	0	1	0	0	0	0	2	0	0	2	9
04:45 PM	0	0	2	2	0	5	0	5	0	0	0	0	5	2	0	7	14
Total	0	0	22	22	0	18	0	18	0	0	0	0	21	5	0	26	66
05:00 PM	0	0	5	5	0	1	0	1	0	0	0	0	0	2	0	2	8
05:15 PM	0	0	1	1	0	1	0	1	0	0	0	0	0	1	0	1	3
05:30 PM	0	0	6	6	0	2	0	2	0	0	0	0	1	0	0	1	9
05:45 PM	0	0	1	1	0	2	0	2	0	1	0	1	0	0	0	0	4
Total	0	0	13	13	0	6	0	6	0	1	0	1	1	3	0	4	24
Grand Total	0	0	35	35	0	24	0	24	0	1	0	1	22	8	0	30	90
Apprch %	0	0	100		0	100	0		0	100	0		73.3	26.7	0		
Total %	0	0	38.9	38.9	0	26.7	0	26.7	0	1.1	0	1.1	24.4	8.9	0	33.3	
Passenger Vehicles	0	0	34	34	0	23	0	23	0	1	0	1	22	8	0	30	88
% Passenger Vehicles	0	0	97.1	97.1	0	95.8	0	95.8	0	100	0	100	100	100	0	100	97.8
Large 2 Axle Vehicles	0	0	1	1	0	1	0	1	0	0	0	0	0	0	0	0	2
% Large 2 Axle Vehicles	0	0	2.9	2.9	0	4.2	0	4.2	0	0	0	0	0	0	0	0	2.2
3 Axle Vehicles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% 3 Axle Vehicles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4+ Axle Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% 4+ Axle Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	Dakota Road Southbound				Corwin Road Westbound				Dakota Avenue Northbound				Corwin Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:00 PM																	
04:00 PM	0	0	**7**	**7**	0	**8**	0	**8**	0	0	0	0	**7**	**2**	0	**9**	**24**
04:15 PM	0	0	7	7	0	4	0	4	0	0	0	0	7	1	0	8	19
04:30 PM	0	0	6	6	0	1	0	1	0	0	0	0	2	0	0	2	9
04:45 PM	0	0	2	2	0	5	0	5	0	0	0	0	5	2	0	7	14
Total Volume	0	0	22	22	0	18	0	18	0	0	0	0	21	5	0	26	66
% App. Total	0	0	100		0	100	0		0	0	0		80.8	19.2	0		
PHF	.000	.000	.786	.786	.000	.563	.000	.563	.000	.000	.000	.000	.750	.625	.000	.722	.688

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Site Code : 05124741
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Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:00 PM				04:00 PM				05:00 PM				04:00 PM			
+0 mins.	0	0	**7**	**7**	0	**8**	0	**8**	0	0	0	0	**7**	**2**	0	**9**
+15 mins.	0	0	7	7	0	4	0	4	0	0	0	0	7	1	0	8
+30 mins.	0	0	6	6	0	1	0	1	0	0	0	0	2	0	0	2
+45 mins.	0	0	2	2	0	5	0	5	0	**1**	0	**1**	5	2	0	7
Total Volume	0	0	22	22	0	18	0	18	0	1	0	1	21	5	0	26
% App. Total	0	0	100		0	100	0		0	100	0		80.8	19.2	0	
PHF	.000	.000	.786	.786	.000	.563	.000	.563	.000	.250	.000	.250	.750	.625	.000	.722

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File Name : 01_APV_Dak_Cor PM
Site Code : 05124741
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Page No : 1

Groups Printed- Passenger Vehicles

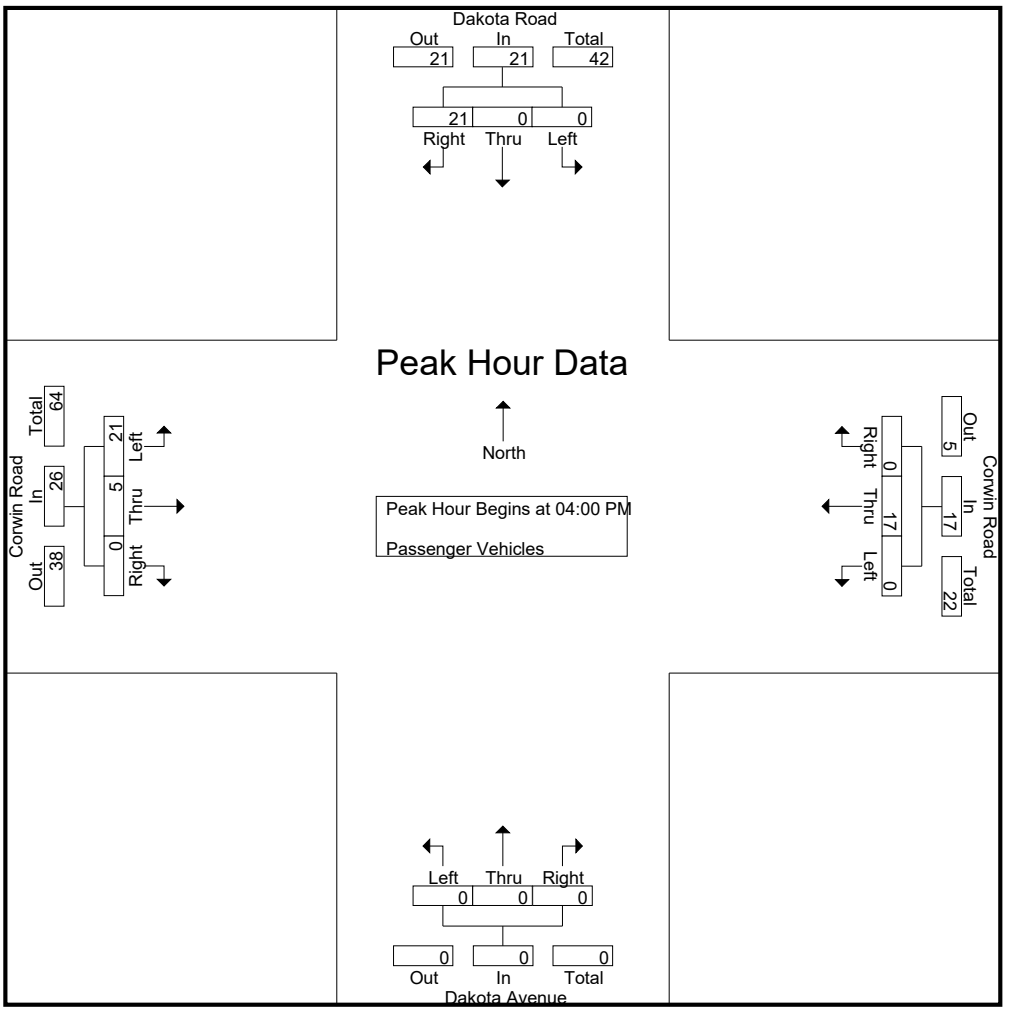
	Dakota Road Southbound				Corwin Road Westbound				Dakota Avenue Northbound				Corwin Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	7	7	0	7	0	7	0	0	0	0	7	2	0	9	23
04:15 PM	0	0	6	6	0	4	0	4	0	0	0	0	7	1	0	8	18
04:30 PM	0	0	6	6	0	1	0	1	0	0	0	0	2	0	0	2	9
04:45 PM	0	0	2	2	0	5	0	5	0	0	0	0	5	2	0	7	14
Total	0	0	21	21	0	17	0	17	0	0	0	0	21	5	0	26	64
05:00 PM	0	0	5	5	0	1	0	1	0	0	0	0	0	2	0	2	8
05:15 PM	0	0	1	1	0	1	0	1	0	0	0	0	0	1	0	1	3
05:30 PM	0	0	6	6	0	2	0	2	0	0	0	0	1	0	0	1	9
05:45 PM	0	0	1	1	0	2	0	2	0	1	0	1	0	0	0	0	4
Total	0	0	13	13	0	6	0	6	0	1	0	1	1	3	0	4	24
Grand Total	0	0	34	34	0	23	0	23	0	1	0	1	22	8	0	30	88
Apprch %	0	0	100		0	100	0		0	100	0		73.3	26.7	0		
Total %	0	0	38.6	38.6	0	26.1	0	26.1	0	1.1	0	1.1	25	9.1	0	34.1	

	Dakota Road Southbound				Corwin Road Westbound				Dakota Avenue Northbound				Corwin Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 04:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:00 PM																	
04:00 PM	0	0	**7**	**7**	0	**7**	0	**7**	0	0	0	0	**7**	**2**	0	**9**	**23**
04:15 PM	0	0	6	6	0	4	0	4	0	0	0	0	7	1	0	8	18
04:30 PM	0	0	6	6	0	1	0	1	0	0	0	0	2	0	0	2	9
04:45 PM	0	0	2	2	0	5	0	5	0	0	0	0	5	2	0	7	14
Total Volume	0	0	21	21	0	17	0	17	0	0	0	0	21	5	0	26	64
% App. Total	0	0	100		0	100	0		0	0	0		80.8	19.2	0		
PHF	.000	.000	.750	.750	.000	.607	.000	.607	.000	.000	.000	.000	.750	.625	.000	.722	.696

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Peak Hour Analysis From 04:00 PM to 04:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:00 PM				04:00 PM				04:00 PM				04:00 PM			
+0 mins.	0	0	**7**	**7**	0	**7**	0	**7**	0	0	0	0	**7**	**2**	0	**9**
+15 mins.	0	0	6	6	0	4	0	4	0	0	0	0	7	1	0	8
+30 mins.	0	0	6	6	0	1	0	1	0	0	0	0	2	0	0	2
+45 mins.	0	0	2	2	0	5	0	5	0	0	0	0	5	2	0	7
Total Volume	0	0	21	21	0	17	0	17	0	0	0	0	21	5	0	26
% App. Total	0	0	100		0	100	0		0	0	0		80.8	19.2	0	
PHF	.000	.000	.750	.750	.000	.607	.000	.607	.000	.000	.000	.000	.750	.625	.000	.722

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Weather: Clear

File Name : 01_APV_Dak_Cor PM
Site Code : 05124741
Start Date : 8/27/2024
Page No : 1

Groups Printed- Large 2 Axle Vehicles

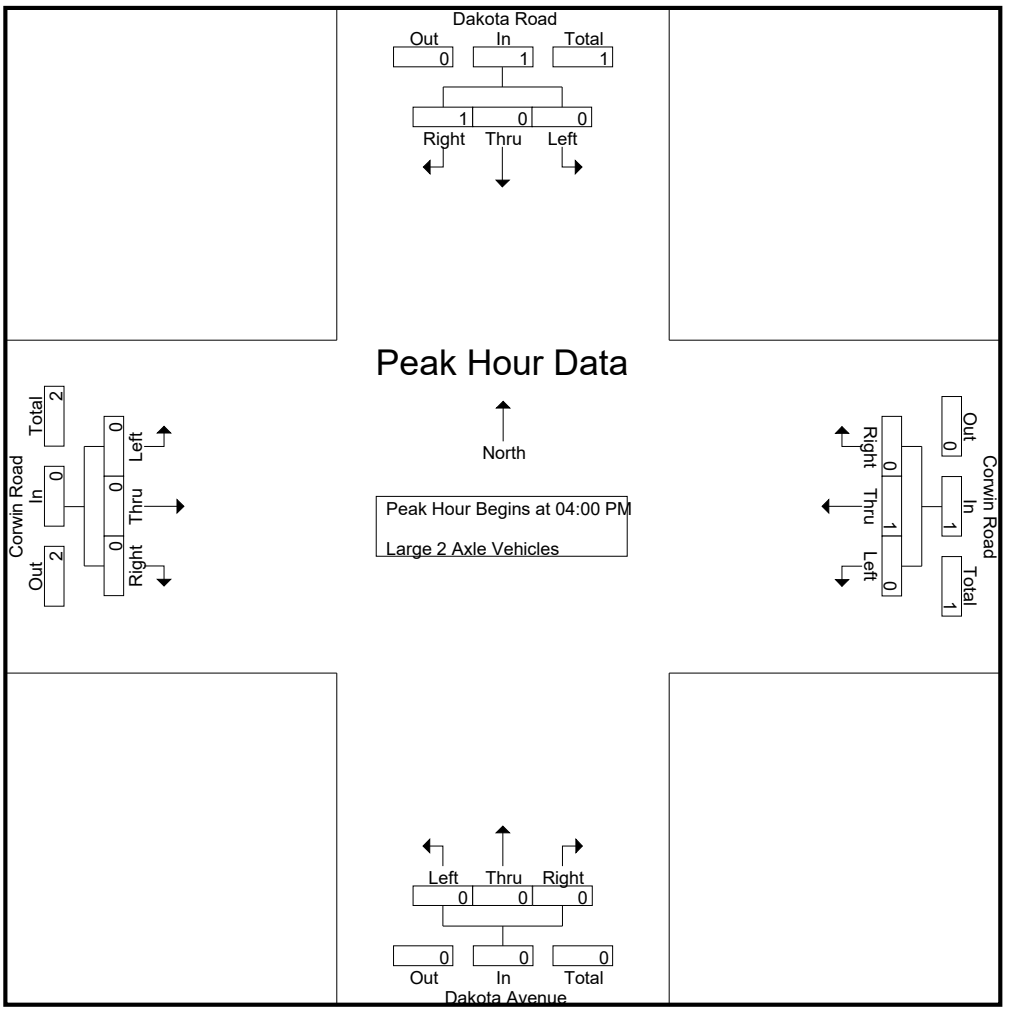
	Dakota Road Southbound				Corwin Road Westbound				Dakota Avenue Northbound				Corwin Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1
04:15 PM	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	1	1	0	1	0	1	0	0	0	0	0	0	0	0	2
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	1	1	0	1	0	1	0	0	0	0	0	0	0	0	2
Apprch %	0	0	100		0	100	0		0	0	0		0	0	0		
Total %	0	0	50	50	0	50	0	50	0	0	0	0	0	0	0	0	

	Dakota Road Southbound				Corwin Road Westbound				Dakota Avenue Northbound				Corwin Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 04:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:00 PM																	
04:00 PM	0	0	0	0	0	**1**	0	**1**	0	0	0	0	0	0	0	0	**1**
04:15 PM	0	0	**1**	**1**	0	0	0	0	0	0	0	0	0	0	0	0	1
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	1	1	0	1	0	1	0	0	0	0	0	0	0	0	2
% App. Total	0	0	100		0	100	0		0	0	0		0	0	0		
PHF	.000	.000	.250	.250	.000	.250	.000	.250	.000	.000	.000	.000	.000	.000	.000	.000	.500

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Site Code : 05124741
Start Date : 8/27/2024
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Peak Hour Analysis From 04:00 PM to 04:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:00 PM				04:00 PM				04:00 PM				04:00 PM			
+0 mins.	0	0	0	0	0	**1**	0	**1**	0	0	0	0	0	0	0	0
+15 mins.	0	0	**1**	**1**	0	0	0	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	1	1	0	1	0	1	0	0	0	0	0	0	0	0
% App. Total	0	0	100		0	100	0		0	0	0		0	0	0	
PHF	.000	.000	.250	.250	.000	.250	.000	.250	.000	.000	.000	.000	.000	.000	.000	.000

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Weather: Clear

File Name : 01_APV_Dak_Cor PM
Site Code : 05124741
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Groups Printed- 3 Axle Vehicles

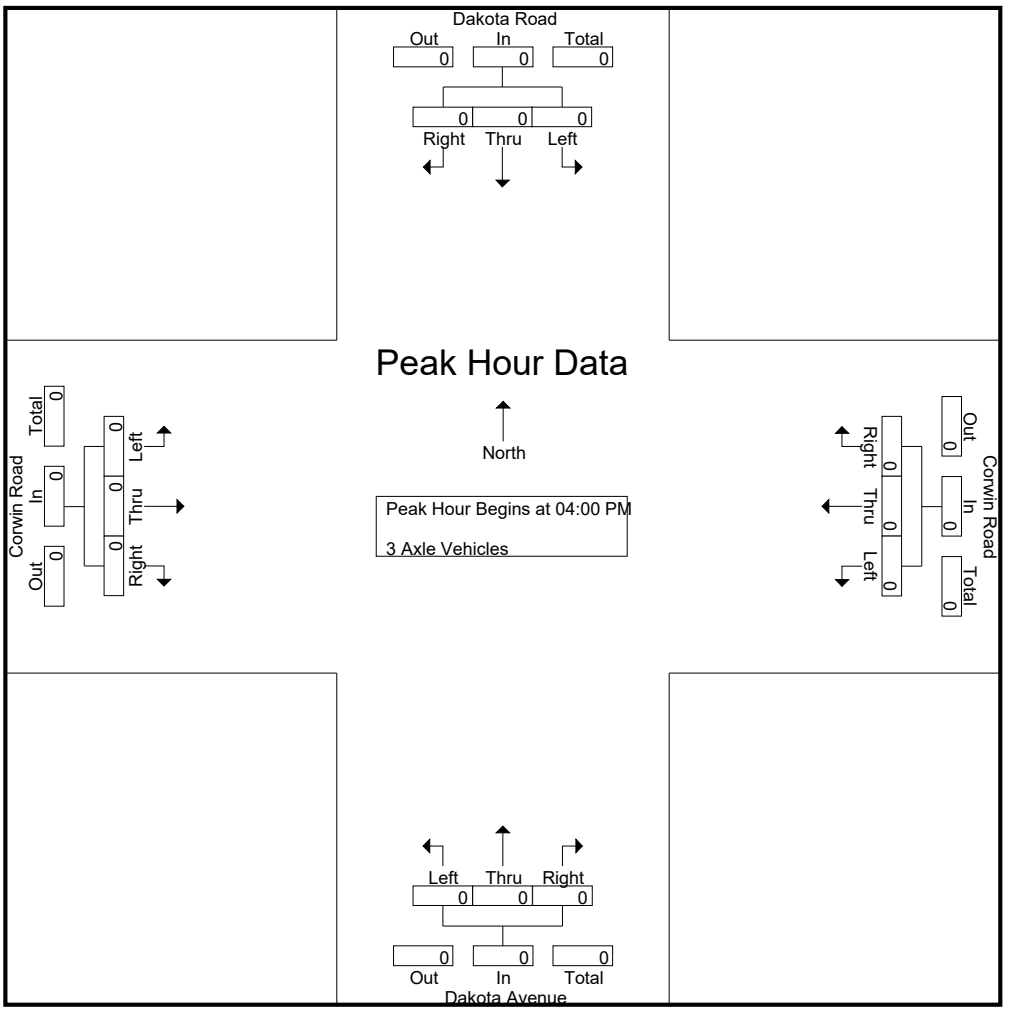
	Dakota Road Southbound				Corwin Road Westbound				Dakota Avenue Northbound				Corwin Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Apprch %	0	0	0		0	0	0		0	0	0		0	0	0		
Total %																	

	Dakota Road Southbound				Corwin Road Westbound				Dakota Avenue Northbound				Corwin Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 04:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:00 PM																	
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0		0	0	0		0	0	0		0	0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

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Peak Hour Analysis From 04:00 PM to 04:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:00 PM				04:00 PM				04:00 PM				04:00 PM			
+0 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0		0	0	0		0	0	0		0	0	0	
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

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E/W: Corwin Road
Weather: Clear

File Name : 01_APV_Dak_Cor PM
Site Code : 05124741
Start Date : 8/27/2024
Page No : 1

Groups Printed- 4+ Axle Trucks

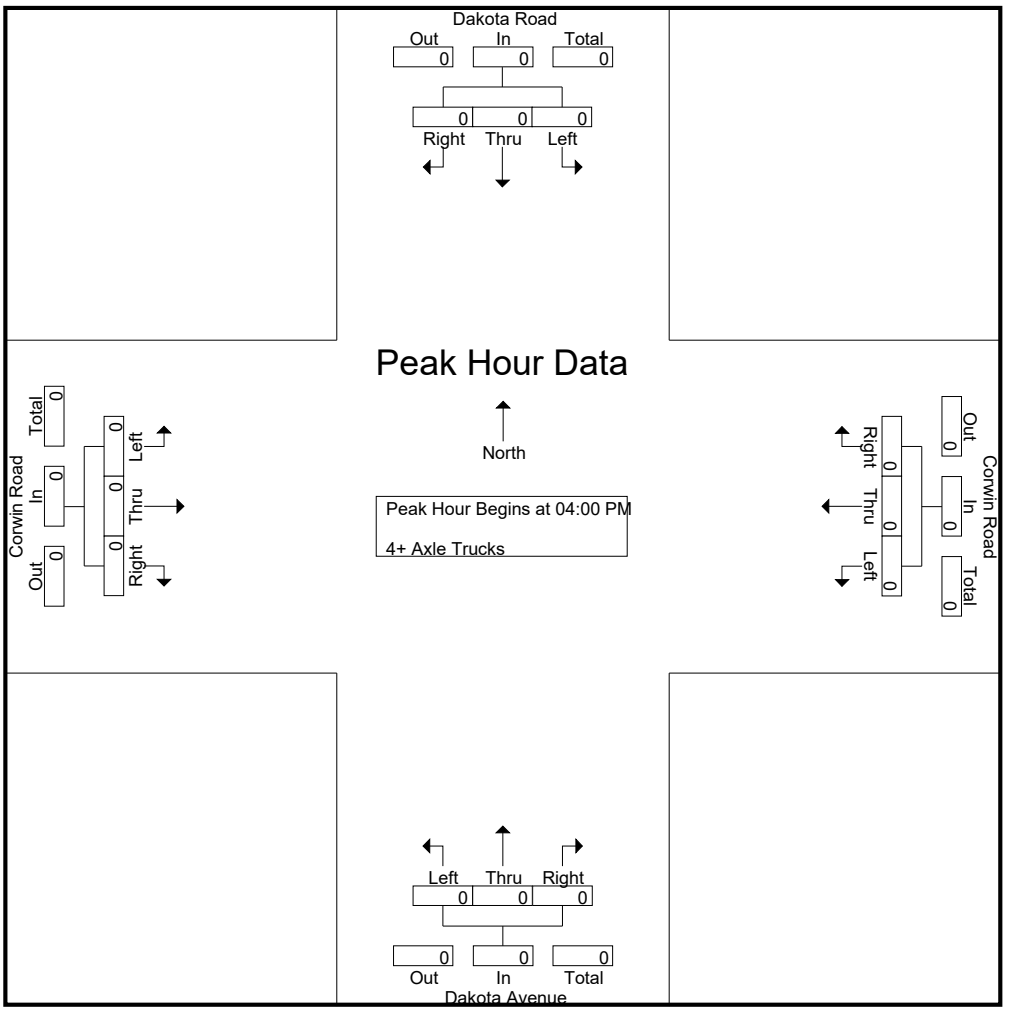
	Dakota Road Southbound				Corwin Road Westbound				Dakota Avenue Northbound				Corwin Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Apprch %	0	0	0		0	0	0		0	0	0		0	0	0		
Total %																	

	Dakota Road Southbound				Corwin Road Westbound				Dakota Avenue Northbound				Corwin Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 04:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:00 PM																	
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0		0	0	0		0	0	0		0	0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

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City of Apple Valley
N/S: Dakota Avenue
E/W: Corwin Road
Weather: Clear

File Name : 01_APV_Dak_Cor PM
Site Code : 05124741
Start Date : 8/27/2024
Page No : 2



Peak Hour Analysis From 04:00 PM to 04:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:00 PM				04:00 PM				04:00 PM				04:00 PM			
+0 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0		0	0	0		0	0	0		0	0	0	
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

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City of Apple Valley
N/S: Ramona Road
E/W: Fresno Road
Weather: Clear

File Name : 02_APV_Ram_Fres AM
Site Code : 05124741
Start Date : 8/27/2024
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

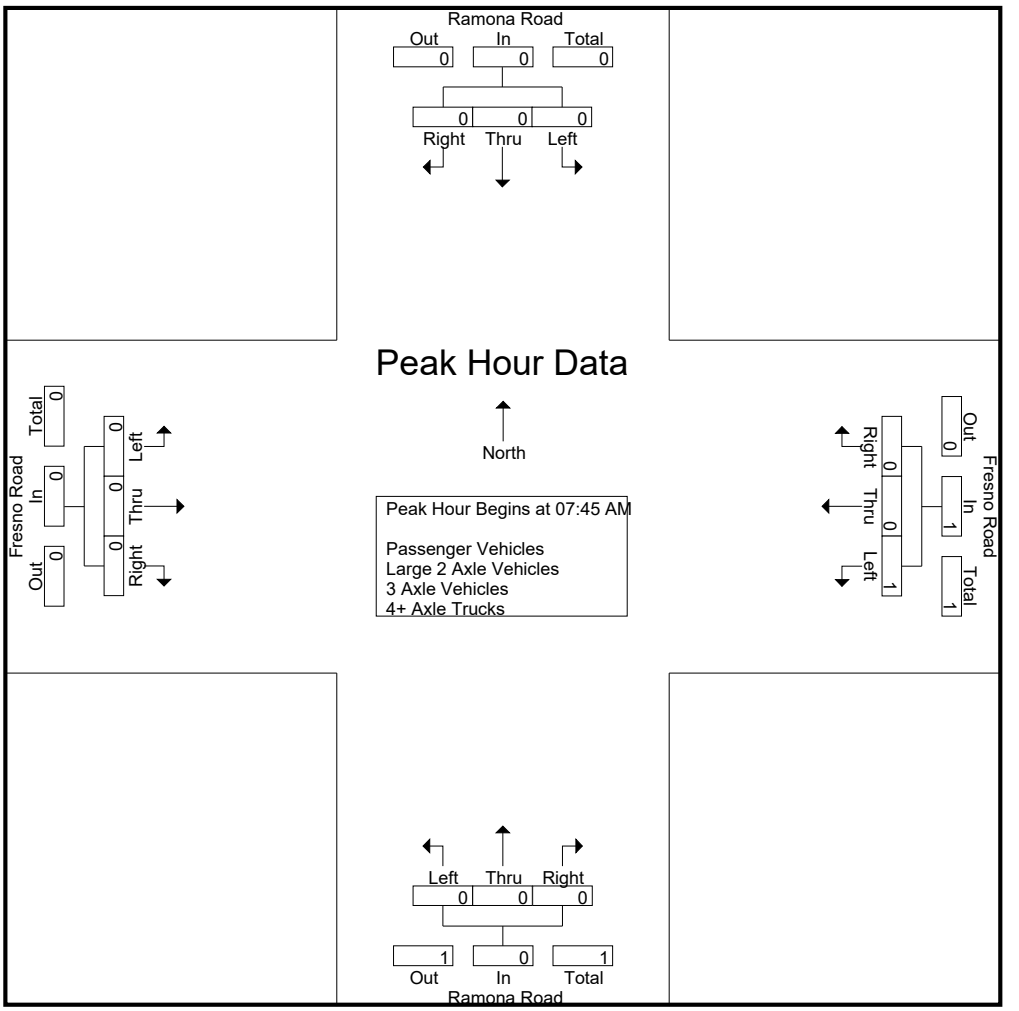
	Ramona Road Southbound				Fresno Road Westbound				Ramona Road Northbound				Fresno Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1
08:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1
Grand Total	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1
Apprch %	0	0	0		100	0	0		0	0	0		0	0	0		
Total %	0	0	0	0	100	0	0	100	0	0	0	0	0	0	0	0	
Passenger Vehicles	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1
% Passenger Vehicles	0	0	0	0	100	0	0	100	0	0	0	0	0	0	0	0	100
Large 2 Axle Vehicles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Large 2 Axle Vehicles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 Axle Vehicles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% 3 Axle Vehicles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4+ Axle Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% 4+ Axle Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	Ramona Road Southbound				Fresno Road Westbound				Ramona Road Northbound				Fresno Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:45 AM																	
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	**1**	0	0	**1**	0	0	0	0	0	0	0	0	**1**
Total Volume	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1
% App. Total	0	0	0		100	0	0		0	0	0		0	0	0		
PHF	.000	.000	.000	.000	.250	.000	.000	.250	.000	.000	.000	.000	.000	.000	.000	.000	.250

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City of Apple Valley
N/S: Ramona Road
E/W: Fresno Road
Weather: Clear

File Name : 02_APV_Ram_Fres AM
Site Code : 05124741
Start Date : 8/27/2024
Page No : 2



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM				07:45 AM				07:00 AM				07:00 AM			
+0 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	**1**	0	0	**1**	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0
% App. Total	0	0	0		100	0	0		0	0	0		0	0	0	
PHF	.000	.000	.000	.000	.250	.000	.000	.250	.000	.000	.000	.000	.000	.000	.000	.000

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City of Apple Valley
N/S: Ramona Road
E/W: Fresno Road
Weather: Clear

File Name : 02_APV_Ram_Fres AM
Site Code : 05124741
Start Date : 8/27/2024
Page No : 1

Groups Printed- Passenger Vehicles

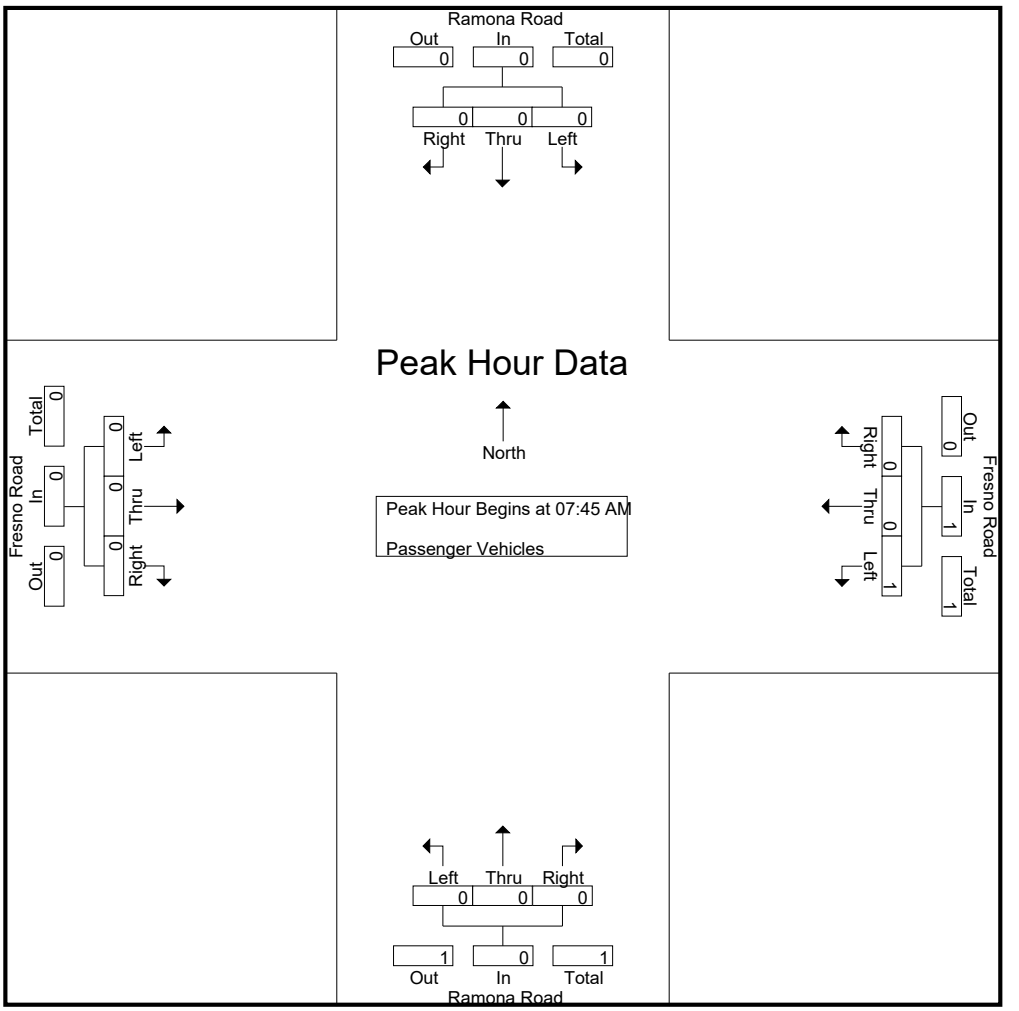
	Ramona Road Southbound				Fresno Road Westbound				Ramona Road Northbound				Fresno Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1
08:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1
Grand Total	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1
Apprch %	0	0	0		100	0	0		0	0	0		0	0	0		
Total %	0	0	0	0	100	0	0	100	0	0	0	0	0	0	0	0	

	Ramona Road Southbound				Fresno Road Westbound				Ramona Road Northbound				Fresno Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:45 AM																	
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	**1**	0	0	**1**	0	0	0	0	0	0	0	0	**1**
Total Volume	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1
% App. Total	0	0	0		100	0	0		0	0	0		0	0	0		
PHF	.000	.000	.000	.000	.250	.000	.000	.250	.000	.000	.000	.000	.000	.000	.000	.000	.250

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City of Apple Valley
N/S: Ramona Road
E/W: Fresno Road
Weather: Clear

File Name : 02_APV_Ram_Fres AM
Site Code : 05124741
Start Date : 8/27/2024
Page No : 2



Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:45 AM				07:45 AM				07:45 AM				07:45 AM			
+0 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	**1**	0	0	**1**	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0
% App. Total	0	0	0		100	0	0		0	0	0		0	0	0	
PHF	.000	.000	.000	.000	.250	.000	.000	.250	.000	.000	.000	.000	.000	.000	.000	.000

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City of Apple Valley
N/S: Ramona Road
E/W: Fresno Road
Weather: Clear

File Name : 02_APV_Ram_Fres AM
Site Code : 05124741
Start Date : 8/27/2024
Page No : 1

Groups Printed- Large 2 Axle Vehicles

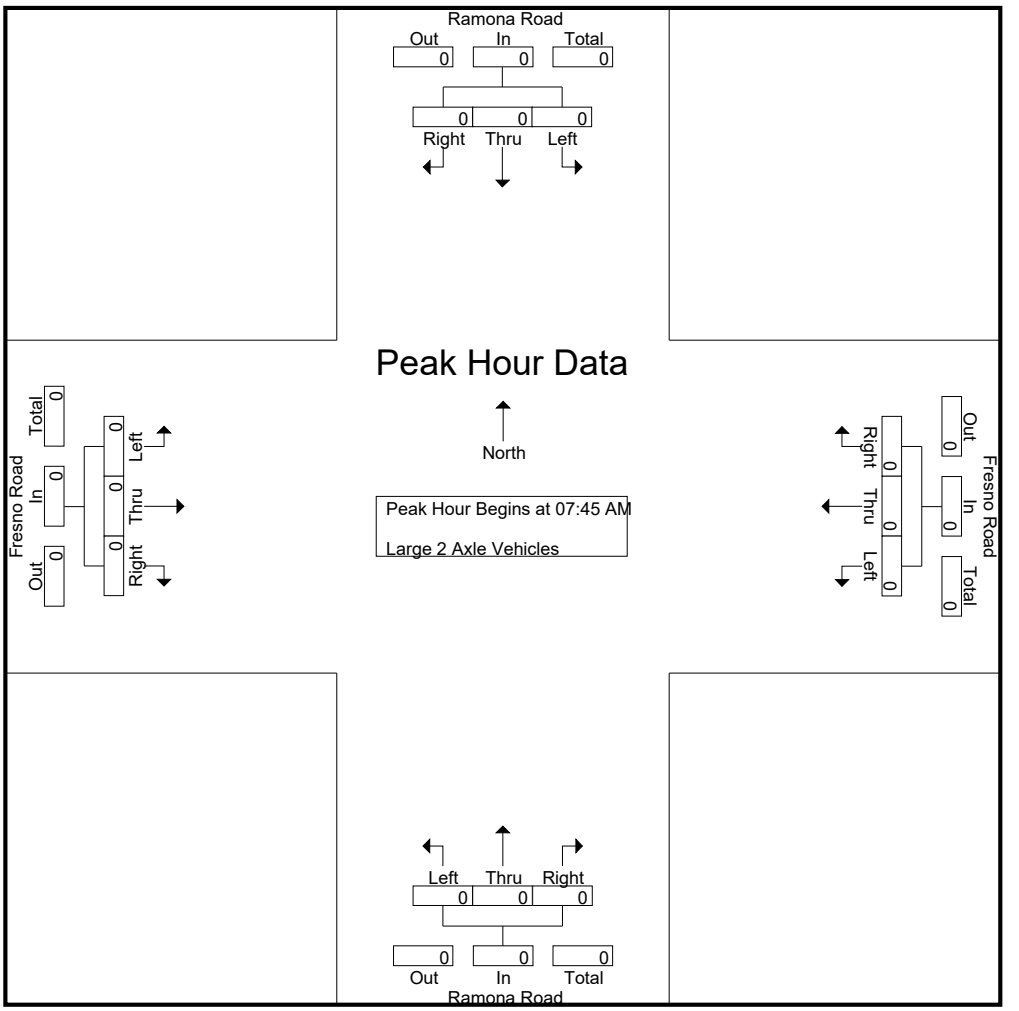
	Ramona Road Southbound				Fresno Road Westbound				Ramona Road Northbound				Fresno Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Apprch %	0	0	0		0	0	0		0	0	0		0	0	0		
Total %																	

	Ramona Road Southbound				Fresno Road Westbound				Ramona Road Northbound				Fresno Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:45 AM																	
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0		0	0	0		0	0	0		0	0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

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City of Apple Valley
N/S: Ramona Road
E/W: Fresno Road
Weather: Clear

File Name : 02_APV_Ram_Fres AM
Site Code : 05124741
Start Date : 8/27/2024
Page No : 2



Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:45 AM				07:45 AM				07:45 AM				07:45 AM			
+0 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0		0	0	0		0	0	0		0	0	0	
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

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City of Apple Valley
N/S: Ramona Road
E/W: Fresno Road
Weather: Clear

File Name : 02_APV_Ram_Fres AM
Site Code : 05124741
Start Date : 8/27/2024
Page No : 1

Groups Printed- 3 Axle Vehicles

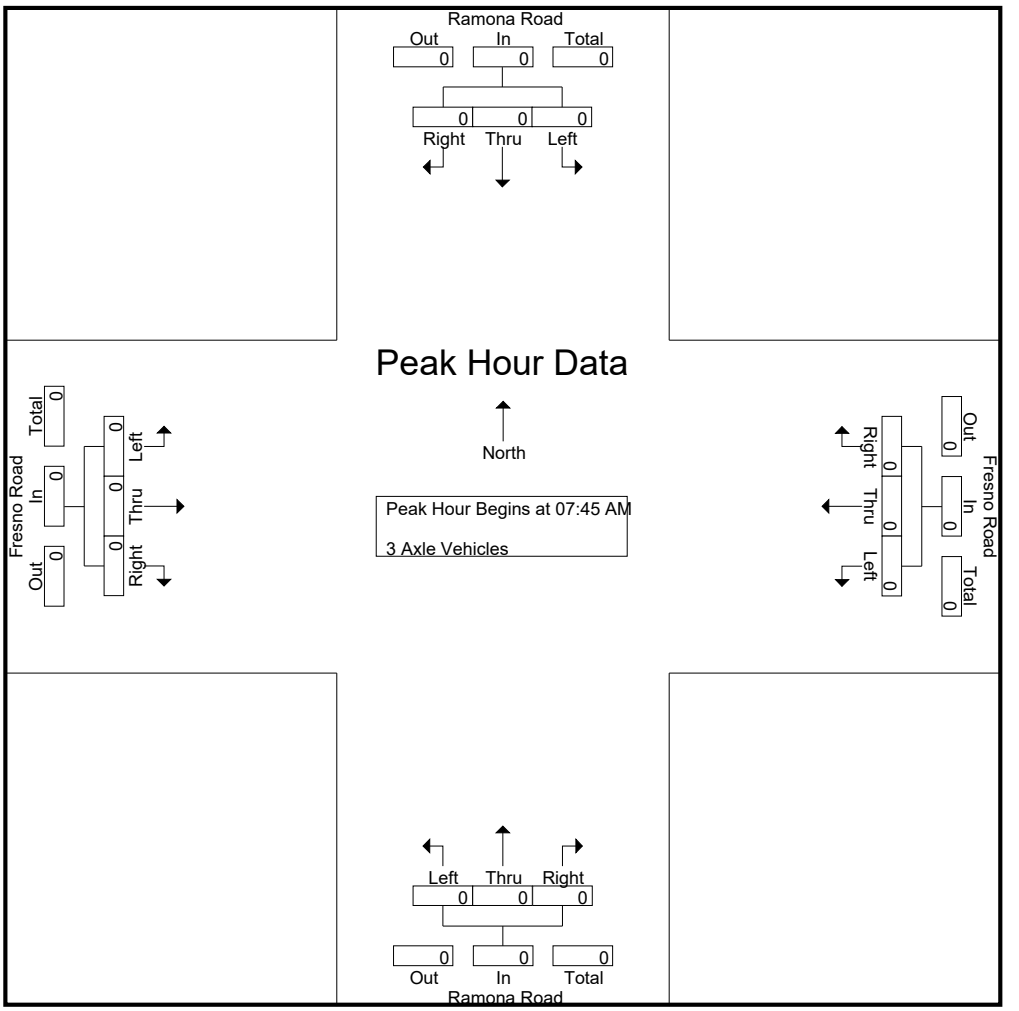
	Ramona Road Southbound				Fresno Road Westbound				Ramona Road Northbound				Fresno Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Apprch %	0	0	0		0	0	0		0	0	0		0	0	0		
Total %																	

	Ramona Road Southbound				Fresno Road Westbound				Ramona Road Northbound				Fresno Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:45 AM																	
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0		0	0	0		0	0	0		0	0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

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City of Apple Valley
N/S: Ramona Road
E/W: Fresno Road
Weather: Clear

File Name : 02_APV_Ram_Fres AM
Site Code : 05124741
Start Date : 8/27/2024
Page No : 2



Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:45 AM				07:45 AM				07:45 AM				07:45 AM			
+0 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0		0	0	0		0	0	0		0	0	0	
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

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City of Apple Valley
N/S: Ramona Road
E/W: Fresno Road
Weather: Clear

File Name : 02_APV_Ram_Fres AM
Site Code : 05124741
Start Date : 8/27/2024
Page No : 1

Groups Printed- 4+ Axle Trucks

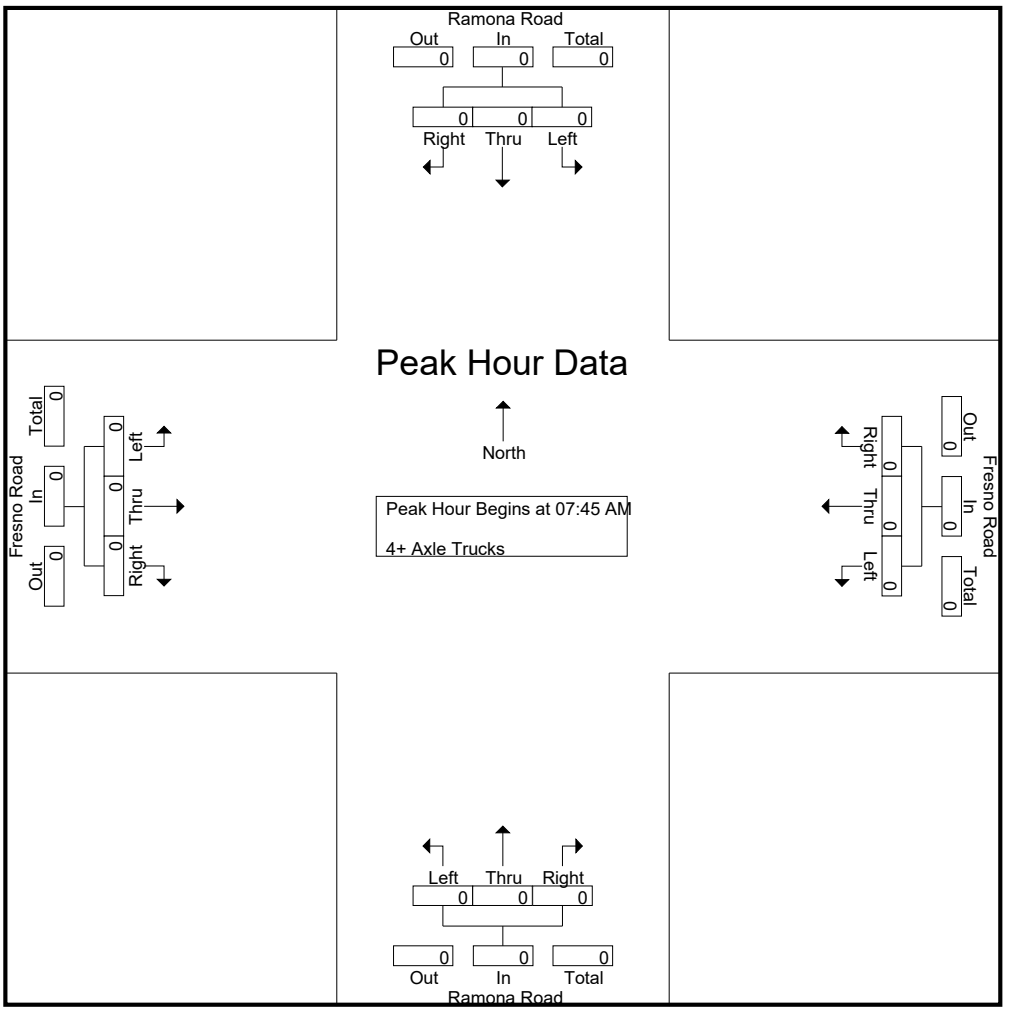
	Ramona Road Southbound				Fresno Road Westbound				Ramona Road Northbound				Fresno Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Apprch %	0	0	0		0	0	0		0	0	0		0	0	0		
Total %																	

	Ramona Road Southbound				Fresno Road Westbound				Ramona Road Northbound				Fresno Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:45 AM																	
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0		0	0	0		0	0	0		0	0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

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File Name : 02_APV_Ram_Fres AM
Site Code : 05124741
Start Date : 8/27/2024
Page No : 2



Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:45 AM				07:45 AM				07:45 AM				07:45 AM			
+0 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0		0	0	0		0	0	0		0	0	0	
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

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File Name : 02_APV_Ram_Fres PM
Site Code : 05124741
Start Date : 8/27/2024
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

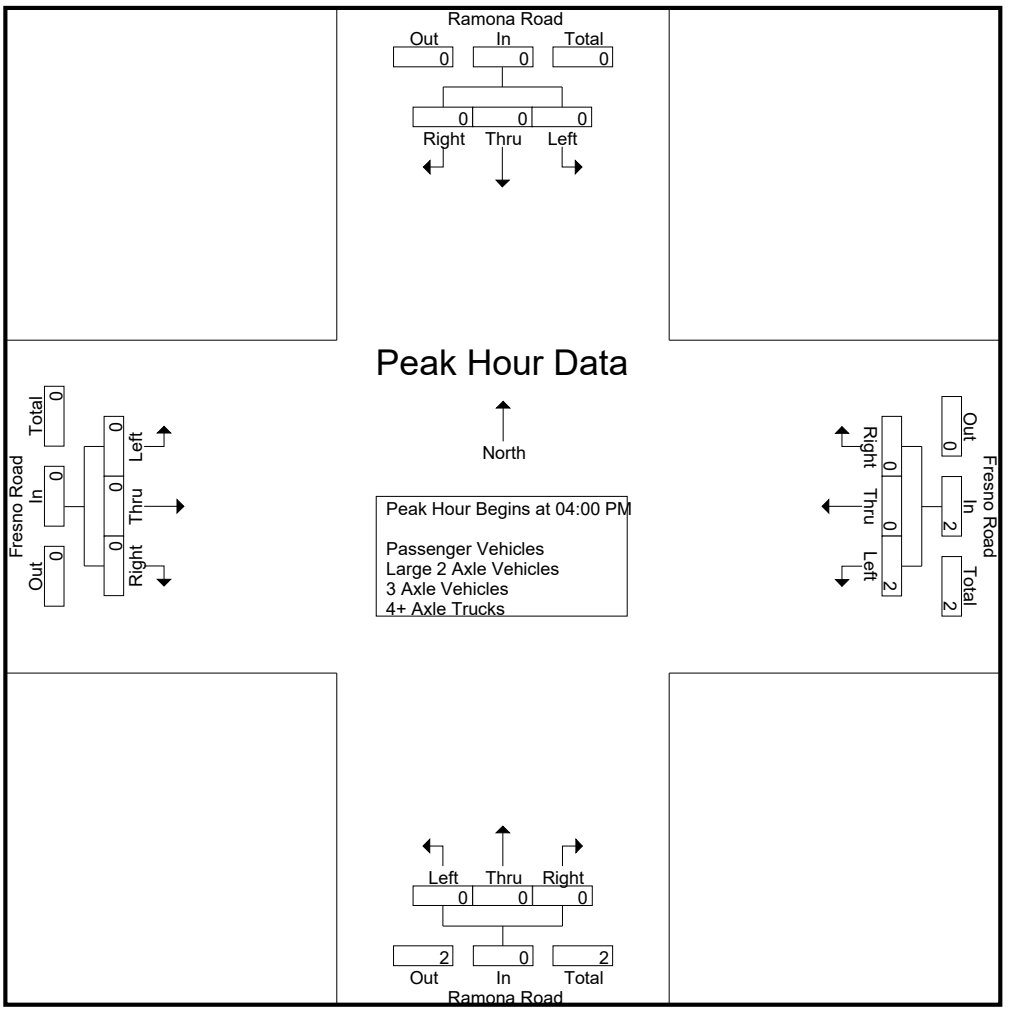
	Ramona Road Southbound				Fresno Road Westbound				Ramona Road Northbound				Fresno Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	2
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1
Total	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1
Grand Total	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0	3
Apprch %	0	0	0		100	0	0		0	0	0		0	0	0		
Total %	0	0	0	0	100	0	0	100	0	0	0	0	0	0	0	0	
Passenger Vehicles	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0	3
% Passenger Vehicles	0	0	0	0	100	0	0	100	0	0	0	0	0	0	0	0	100
Large 2 Axle Vehicles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Large 2 Axle Vehicles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 Axle Vehicles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% 3 Axle Vehicles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4+ Axle Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% 4+ Axle Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	Ramona Road Southbound				Fresno Road Westbound				Ramona Road Northbound				Fresno Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:00 PM																	
04:00 PM	0	0	0	0	**1**	0	0	**1**	0	0	0	0	0	0	0	0	**1**
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	2
% App. Total	0	0	0		100	0	0		0	0	0		0	0	0		
PHF	.000	.000	.000	.000	.500	.000	.000	.500	.000	.000	.000	.000	.000	.000	.000	.000	.500

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Start Date : 8/27/2024
Page No : 2



Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:00 PM				04:00 PM				04:00 PM				04:00 PM			
+0 mins.	0	0	0	0	**1**	0	0	**1**	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0
% App. Total	0	0	0		100	0	0		0	0	0		0	0	0	
PHF	.000	.000	.000	.000	.500	.000	.000	.500	.000	.000	.000	.000	.000	.000	.000	.000

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File Name : 02_APV_Ram_Fres PM
Site Code : 05124741
Start Date : 8/27/2024
Page No : 1

Groups Printed- Passenger Vehicles

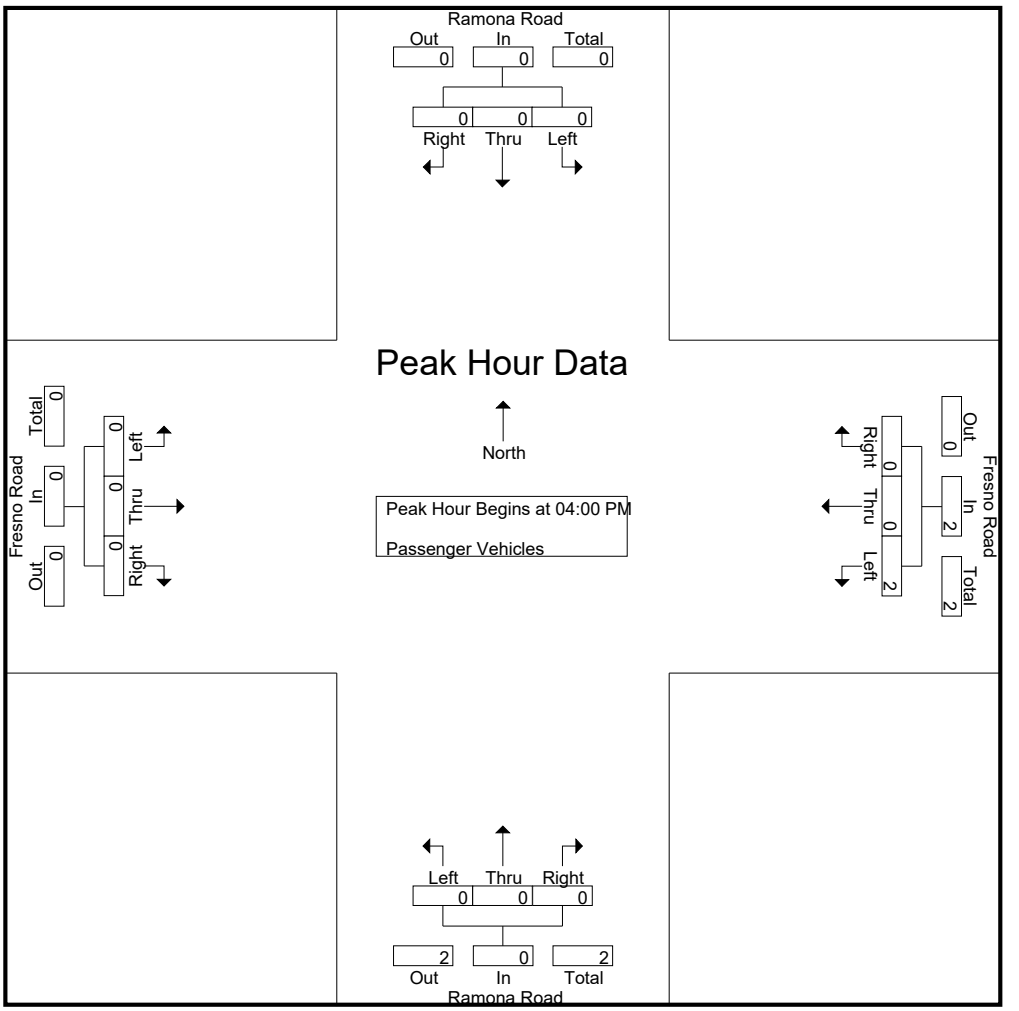
	Ramona Road Southbound				Fresno Road Westbound				Ramona Road Northbound				Fresno Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	2
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1
Total	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1
Grand Total	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0	3
Apprch %	0	0	0		100	0	0		0	0	0		0	0	0		
Total %	0	0	0	0	100	0	0	100	0	0	0	0	0	0	0	0	

	Ramona Road Southbound				Fresno Road Westbound				Ramona Road Northbound				Fresno Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 04:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:00 PM																	
04:00 PM	0	0	0	0	**1**	0	0	**1**	0	0	0	0	0	0	0	0	**1**
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	2
% App. Total	0	0	0		100	0	0		0	0	0		0	0	0		
PHF	.000	.000	.000	.000	.500	.000	.000	.500	.000	.000	.000	.000	.000	.000	.000	.000	.500

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Peak Hour Analysis From 04:00 PM to 04:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:00 PM				04:00 PM				04:00 PM				04:00 PM			
+0 mins.	0	0	0	0	**1**	0	0	**1**	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0
% App. Total	0	0	0		100	0	0		0	0	0		0	0	0	
PHF	.000	.000	.000	.000	.500	.000	.000	.500	.000	.000	.000	.000	.000	.000	.000	.000

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Weather: Clear

File Name : 02_APV_Ram_Fres PM
Site Code : 05124741
Start Date : 8/27/2024
Page No : 1

Groups Printed- Large 2 Axle Vehicles

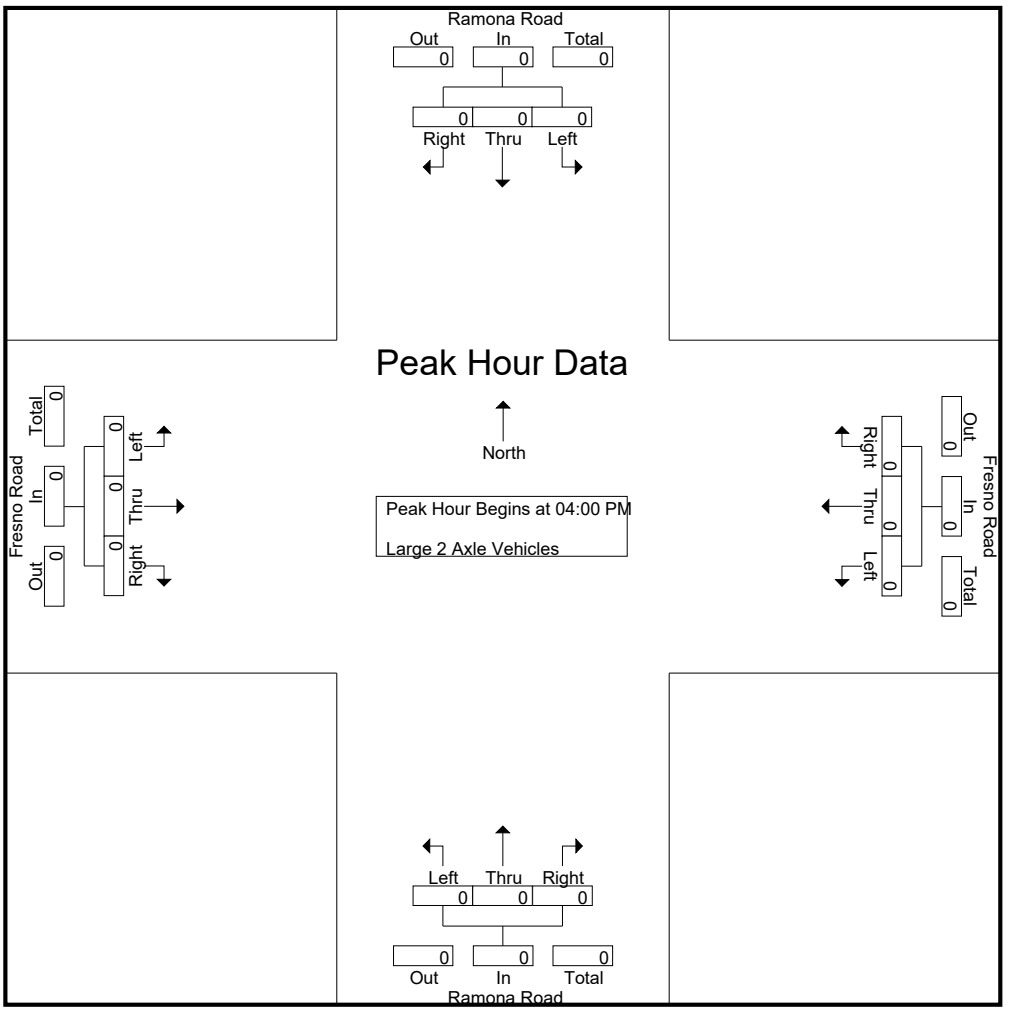
	Ramona Road Southbound				Fresno Road Westbound				Ramona Road Northbound				Fresno Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Apprch %	0	0	0		0	0	0		0	0	0		0	0	0		
Total %																	

	Ramona Road Southbound				Fresno Road Westbound				Ramona Road Northbound				Fresno Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 04:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:00 PM																	
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0		0	0	0		0	0	0		0	0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

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Peak Hour Analysis From 04:00 PM to 04:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:00 PM				04:00 PM				04:00 PM				04:00 PM			
+0 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0		0	0	0		0	0	0		0	0	0	
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

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Weather: Clear

File Name : 02_APV_Ram_Fres PM
Site Code : 05124741
Start Date : 8/27/2024
Page No : 1

Groups Printed- 3 Axle Vehicles

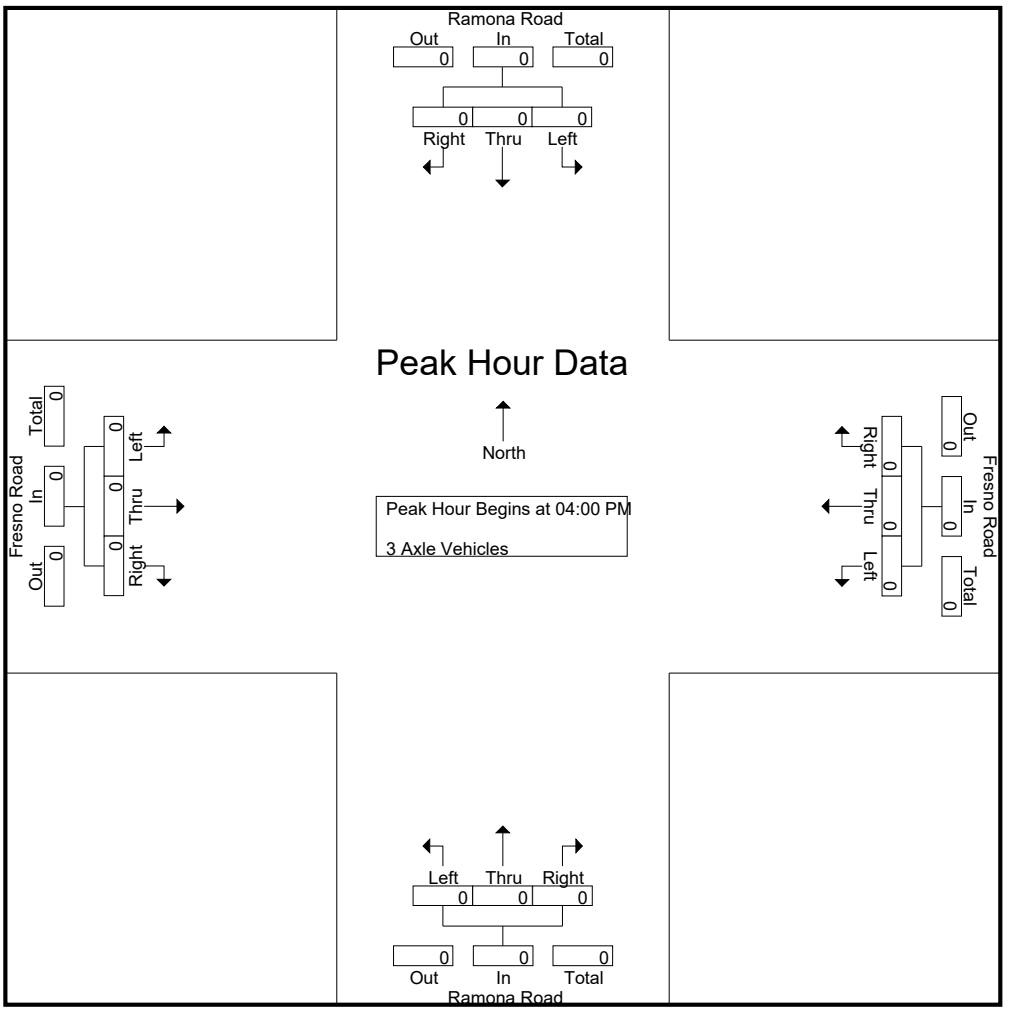
	Ramona Road Southbound				Fresno Road Westbound				Ramona Road Northbound				Fresno Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Apprch %	0	0	0		0	0	0		0	0	0		0	0	0		
Total %																	

	Ramona Road Southbound				Fresno Road Westbound				Ramona Road Northbound				Fresno Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 04:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:00 PM																	
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0		0	0	0		0	0	0		0	0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

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City of Apple Valley
N/S: Ramona Road
E/W: Fresno Road
Weather: Clear

File Name : 02_APV_Ram_Fres PM
Site Code : 05124741
Start Date : 8/27/2024
Page No : 2



Peak Hour Analysis From 04:00 PM to 04:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:00 PM				04:00 PM				04:00 PM				04:00 PM			
+0 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0		0	0	0		0	0	0		0	0	0	
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

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City of Apple Valley
N/S: Ramona Road
E/W: Fresno Road
Weather: Clear

File Name : 02_APV_Ram_Fres PM
Site Code : 05124741
Start Date : 8/27/2024
Page No : 1

Groups Printed- 4+ Axle Trucks

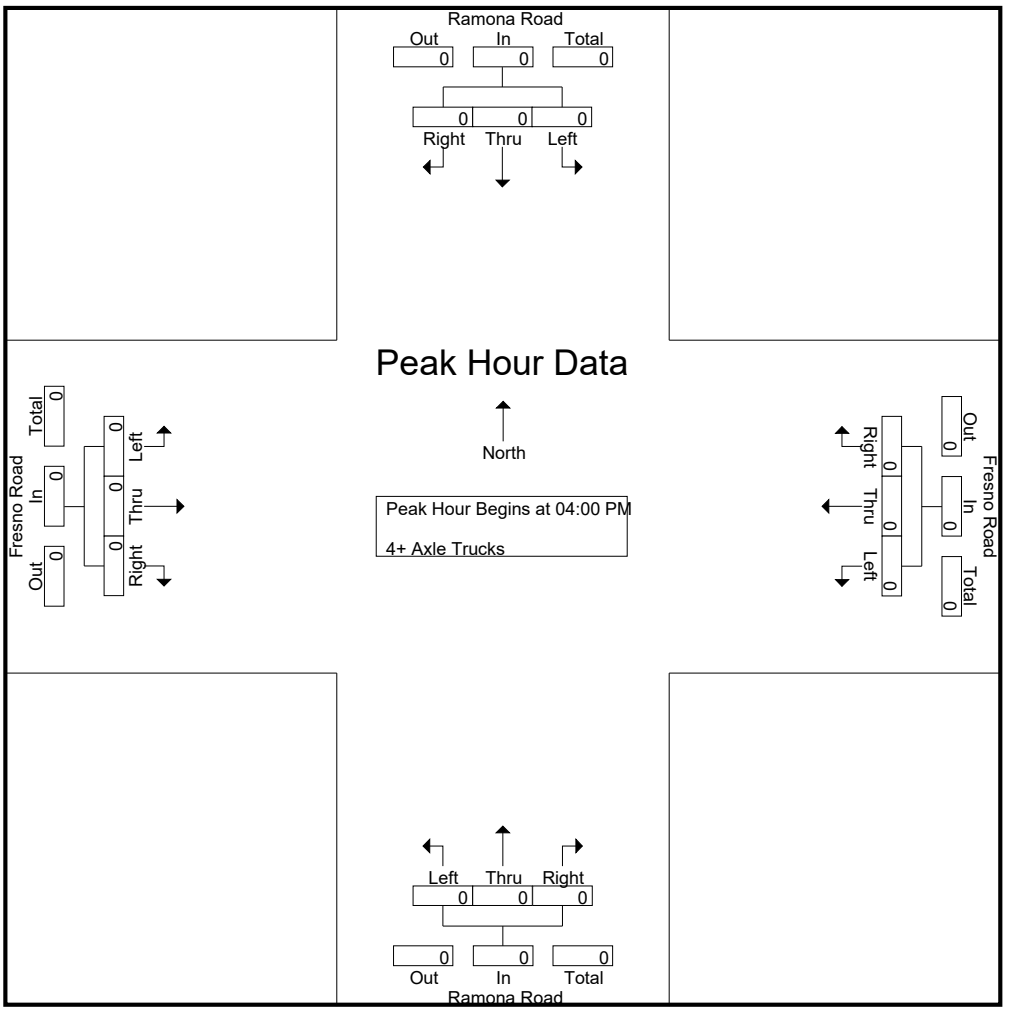
	Ramona Road Southbound				Fresno Road Westbound				Ramona Road Northbound				Fresno Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Apprch %	0	0	0		0	0	0		0	0	0		0	0	0		
Total %																	

	Ramona Road Southbound				Fresno Road Westbound				Ramona Road Northbound				Fresno Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 04:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:00 PM																	
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0		0	0	0		0	0	0		0	0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

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City of Apple Valley
N/S: Ramona Road
E/W: Fresno Road
Weather: Clear

File Name : 02_APV_Ram_Fres PM
Site Code : 05124741
Start Date : 8/27/2024
Page No : 2



Peak Hour Analysis From 04:00 PM to 04:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:00 PM				04:00 PM				04:00 PM				04:00 PM			
+0 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0		0	0	0		0	0	0		0	0	0	
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

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City of Apple Valley
N/S: Navajo Road
E/W: Altadena Street/Needham Avenue
Weather: Clear

File Name : 03_APV_Nav_Alta AM
Site Code : 05124741
Start Date : 8/27/2024
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

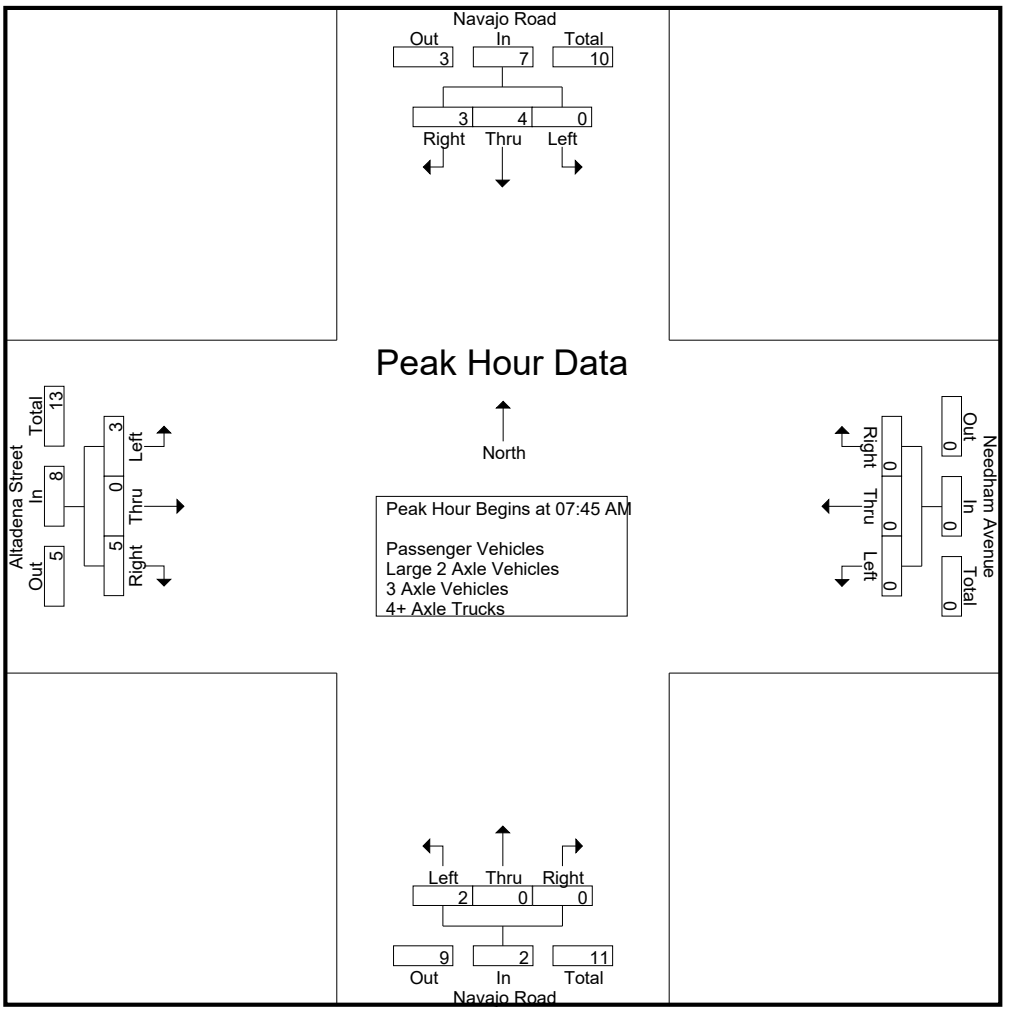
	Navajo Road Southbound				Needham Avenue Westbound				Navajo Road Northbound				Altadena Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	2	2
07:15 AM	0	0	2	2	0	0	0	0	1	0	0	1	2	0	1	3	6
07:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2
Total	0	0	2	2	0	0	0	0	1	0	0	1	4	0	4	8	11
08:00 AM	0	1	0	1	0	0	0	0	0	0	0	0	3	0	0	3	4
08:15 AM	0	2	2	4	0	0	0	0	1	0	0	1	0	0	1	1	6
08:30 AM	0	1	1	2	0	0	0	0	1	0	0	1	0	0	2	2	5
08:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	2	2
Total	0	4	3	7	0	0	0	0	2	0	0	2	4	0	4	8	17
Grand Total	0	4	5	9	0	0	0	0	3	0	0	3	8	0	8	16	28
Apprch %	0	44.4	55.6		0	0	0		100	0	0		50	0	50		
Total %	0	14.3	17.9	32.1	0	0	0	0	10.7	0	0	10.7	28.6	0	28.6	57.1	
Passenger Vehicles	0	4	5	9	0	0	0	0	3	0	0	3	8	0	8	16	28
% Passenger Vehicles	0	100	100	100	0	0	0	0	100	0	0	100	100	0	100	100	100
Large 2 Axle Vehicles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Large 2 Axle Vehicles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 Axle Vehicles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% 3 Axle Vehicles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4+ Axle Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% 4+ Axle Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	Navajo Road Southbound				Needham Avenue Westbound				Navajo Road Northbound				Altadena Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:45 AM																	
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**2**	2	2
08:00 AM	0	1	0	1	0	0	0	0	0	0	0	0	**3**	0	0	**3**	4
08:15 AM	0	**2**	**2**	**4**	0	0	0	0	**1**	0	0	**1**	0	0	1	1	**6**
08:30 AM	0	1	1	2	0	0	0	0	1	0	0	1	0	0	2	2	5
Total Volume	0	4	3	7	0	0	0	0	2	0	0	2	3	0	5	8	17
% App. Total	0	57.1	42.9		0	0	0		100	0	0		37.5	0	62.5		
PHF	.000	.500	.375	.438	.000	.000	.000	.000	.500	.000	.000	.500	.250	.000	.625	.667	.708

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City of Apple Valley
N/S: Navajo Road
E/W: Altadena Street/Needham Avenue
Weather: Clear

File Name : 03_APV_Nav_Alta AM
Site Code : 05124741
Start Date : 8/27/2024
Page No : 2



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:45 AM				07:00 AM				07:45 AM				07:15 AM			
+0 mins.	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	**3**
+15 mins.	0	1	0	1	0	0	0	0	0	0	0	0	1	0	0	1
+30 mins.	0	**2**	**2**	**4**	0	0	0	0	**1**	0	0	**1**	0	0	**2**	2
+45 mins.	0	1	1	2	0	0	0	0	1	0	0	1	**3**	0	0	3
Total Volume	0	4	3	7	0	0	0	0	2	0	0	2	6	0	3	9
% App. Total	0	57.1	42.9		0	0	0		100	0	0		66.7	0	33.3	
PHF	.000	.500	.375	.438	.000	.000	.000	.000	.500	.000	.000	.500	.500	.000	.375	.750

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City of Apple Valley
N/S: Navajo Road
E/W: Altadena Street/Needham Avenue
Weather: Clear

File Name : 03_APV_Nav_Alta AM
Site Code : 05124741
Start Date : 8/27/2024
Page No : 1

Groups Printed- Passenger Vehicles

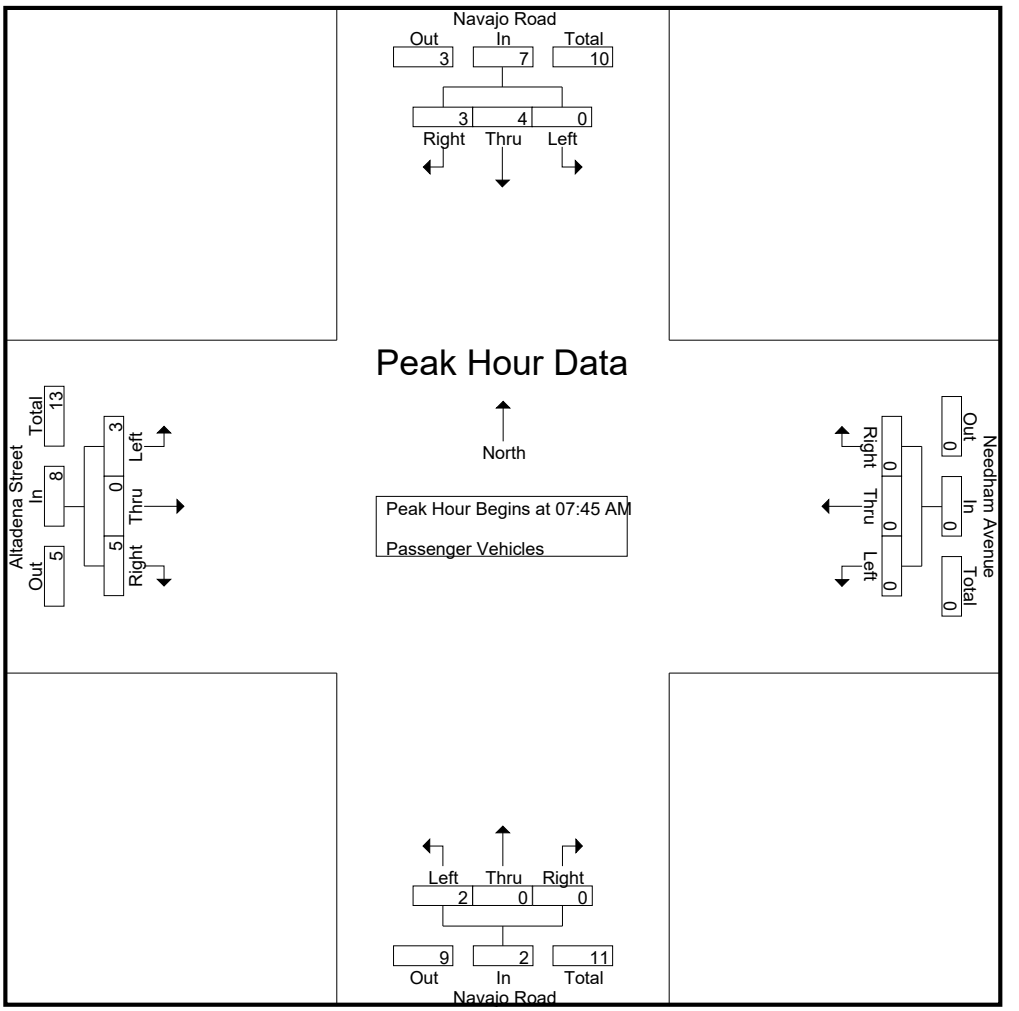
	Navajo Road Southbound				Needham Avenue Westbound				Navajo Road Northbound				Altadena Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	2	2
07:15 AM	0	0	2	2	0	0	0	0	1	0	0	1	2	0	1	3	6
07:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2
Total	0	0	2	2	0	0	0	0	1	0	0	1	4	0	4	8	11
08:00 AM	0	1	0	1	0	0	0	0	0	0	0	0	3	0	0	3	4
08:15 AM	0	2	2	4	0	0	0	0	1	0	0	1	0	0	1	1	6
08:30 AM	0	1	1	2	0	0	0	0	1	0	0	1	0	0	2	2	5
08:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	2	2
Total	0	4	3	7	0	0	0	0	2	0	0	2	4	0	4	8	17
Grand Total	0	4	5	9	0	0	0	0	3	0	0	3	8	0	8	16	28
Apprch %	0	44.4	55.6		0	0	0		100	0	0		50	0	50		
Total %	0	14.3	17.9	32.1	0	0	0	0	10.7	0	0	10.7	28.6	0	28.6	57.1	

	Navajo Road Southbound				Needham Avenue Westbound				Navajo Road Northbound				Altadena Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:45 AM																	
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**2**	2	2
08:00 AM	0	1	0	1	0	0	0	0	0	0	0	0	**3**	0	0	**3**	4
08:15 AM	0	**2**	**2**	**4**	0	0	0	0	**1**	0	0	**1**	0	0	1	1	**6**
08:30 AM	0	1	1	2	0	0	0	0	1	0	0	1	0	0	2	2	5
Total Volume	0	4	3	7	0	0	0	0	2	0	0	2	3	0	5	8	17
% App. Total	0	57.1	42.9		0	0	0		100	0	0		37.5	0	62.5		
PHF	.000	.500	.375	.438	.000	.000	.000	.000	.500	.000	.000	.500	.250	.000	.625	.667	.708

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City of Apple Valley
N/S: Navajo Road
E/W: Altadena Street/Needham Avenue
Weather: Clear

File Name : 03_APV_Nav_Alta AM
Site Code : 05124741
Start Date : 8/27/2024
Page No : 2



Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:45 AM				07:45 AM				07:45 AM				07:45 AM			
+0 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**2**	2
+15 mins.	0	1	0	1	0	0	0	0	0	0	0	0	**3**	0	0	**3**
+30 mins.	0	**2**	**2**	**4**	0	0	0	0	**1**	0	0	**1**	0	0	1	1
+45 mins.	0	1	1	2	0	0	0	0	1	0	0	1	0	0	2	2
Total Volume	0	4	3	7	0	0	0	0	2	0	0	2	3	0	5	8
% App. Total	0	57.1	42.9		0	0	0		100	0	0		37.5	0	62.5	
PHF	.000	.500	.375	.438	.000	.000	.000	.000	.500	.000	.000	.500	.250	.000	.625	.667

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City of Apple Valley
N/S: Navajo Road
E/W: Altadena Street/Needham Avenue
Weather: Clear

File Name : 03_APV_Nav_Alta AM
Site Code : 05124741
Start Date : 8/27/2024
Page No : 1

Groups Printed- Large 2 Axle Vehicles

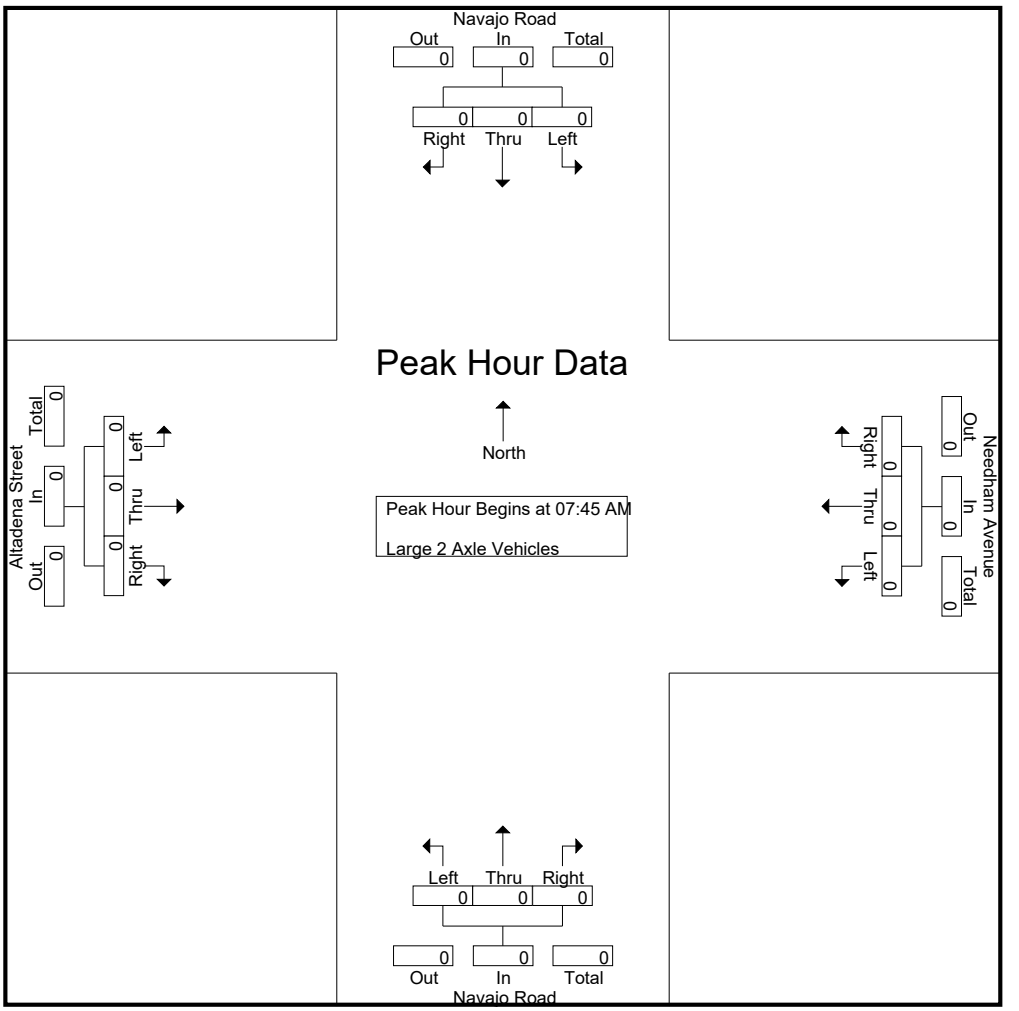
	Navajo Road Southbound				Needham Avenue Westbound				Navajo Road Northbound				Altadena Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Apprch %	0	0	0		0	0	0		0	0	0		0	0	0		
Total %																	

	Navajo Road Southbound				Needham Avenue Westbound				Navajo Road Northbound				Altadena Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:45 AM																	
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0		0	0	0		0	0	0		0	0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

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City of Apple Valley
N/S: Navajo Road
E/W: Altadena Street/Needham Avenue
Weather: Clear

File Name : 03_APV_Nav_Alta AM
Site Code : 05124741
Start Date : 8/27/2024
Page No : 2



Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:45 AM				07:45 AM				07:45 AM				07:45 AM			
+0 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0		0	0	0		0	0	0		0	0	0	
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

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City of Apple Valley
N/S: Navajo Road
E/W: Altadena Street/Needham Avenue
Weather: Clear

File Name : 03_APV_Nav_Alta AM
Site Code : 05124741
Start Date : 8/27/2024
Page No : 1

Groups Printed- 3 Axle Vehicles

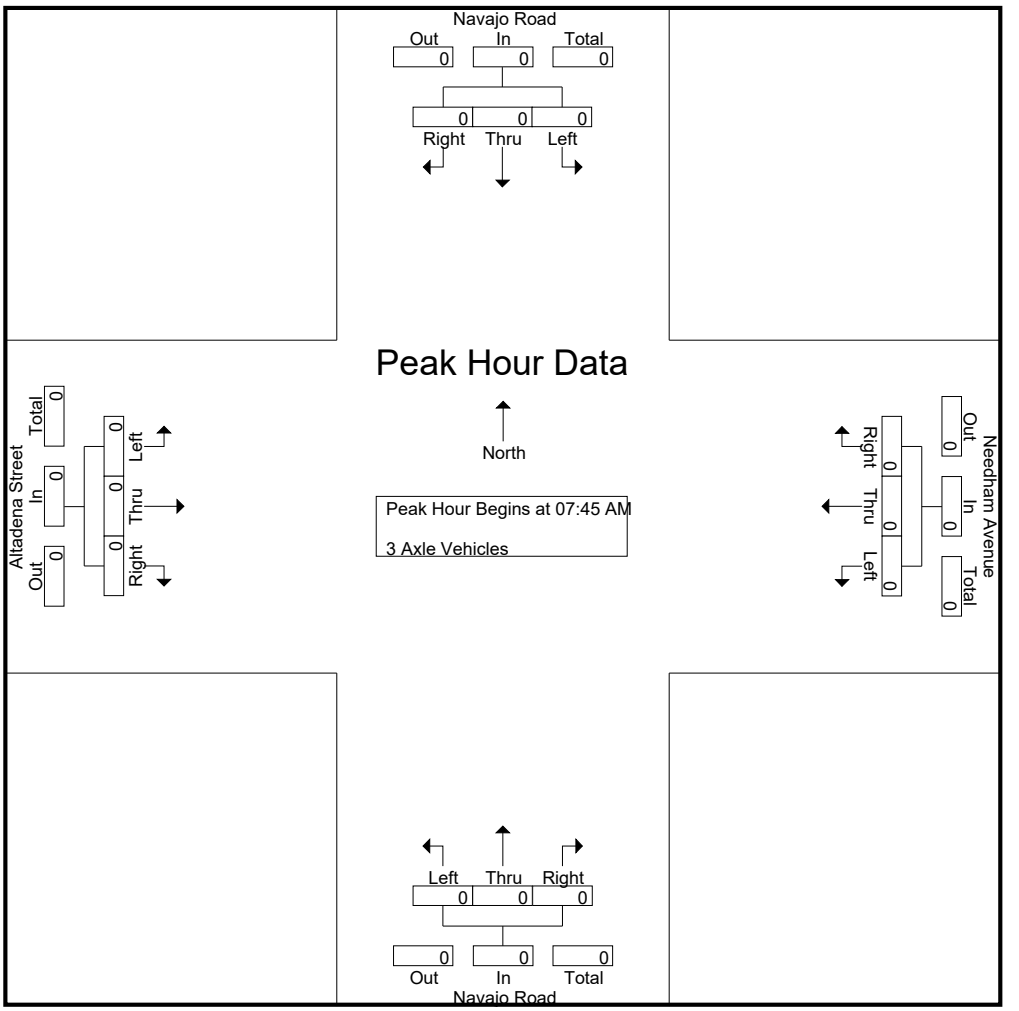
	Navajo Road Southbound				Needham Avenue Westbound				Navajo Road Northbound				Altadena Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Apprch %	0	0	0		0	0	0		0	0	0		0	0	0		
Total %																	

	Navajo Road Southbound				Needham Avenue Westbound				Navajo Road Northbound				Altadena Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:45 AM																	
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0		0	0	0		0	0	0		0	0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

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City of Apple Valley
N/S: Navajo Road
E/W: Altadena Street/Needham Avenue
Weather: Clear

File Name : 03_APV_Nav_Alta AM
Site Code : 05124741
Start Date : 8/27/2024
Page No : 2



Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:45 AM				07:45 AM				07:45 AM				07:45 AM			
+0 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0		0	0	0		0	0	0		0	0	0	
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

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City of Apple Valley
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File Name : 03_APV_Nav_Alta AM
Site Code : 05124741
Start Date : 8/27/2024
Page No : 1

Groups Printed- 4+ Axle Trucks

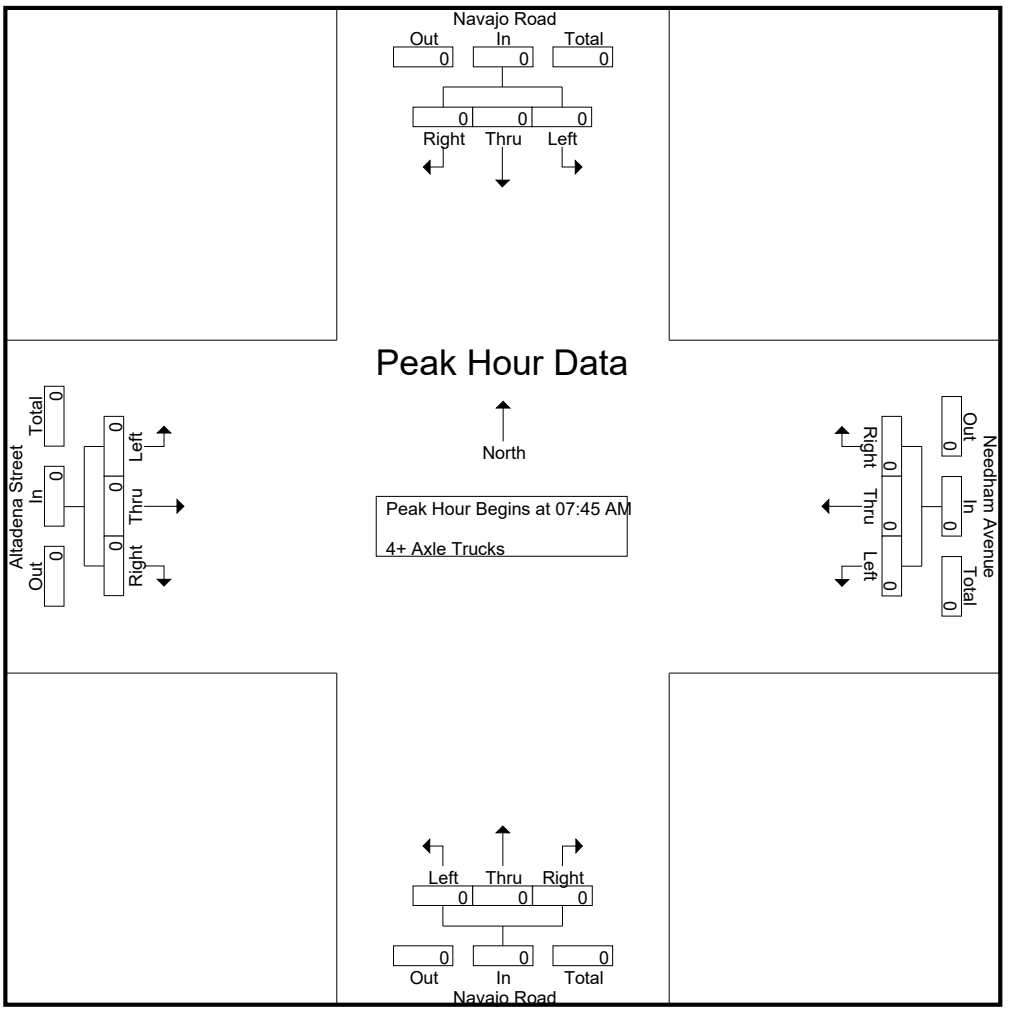
	Navajo Road Southbound				Needham Avenue Westbound				Navajo Road Northbound				Altadena Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Apprch %	0	0	0		0	0	0		0	0	0		0	0	0		
Total %																	

	Navajo Road Southbound				Needham Avenue Westbound				Navajo Road Northbound				Altadena Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:45 AM																	
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0		0	0	0		0	0	0		0	0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

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File Name : 03_APV_Nav_Alta AM
Site Code : 05124741
Start Date : 8/27/2024
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Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:45 AM				07:45 AM				07:45 AM				07:45 AM			
+0 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0		0	0	0		0	0	0		0	0	0	
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

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City of Apple Valley
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File Name : 03_APV_Nav_Alta PM
Site Code : 05124741
Start Date : 8/27/2024
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

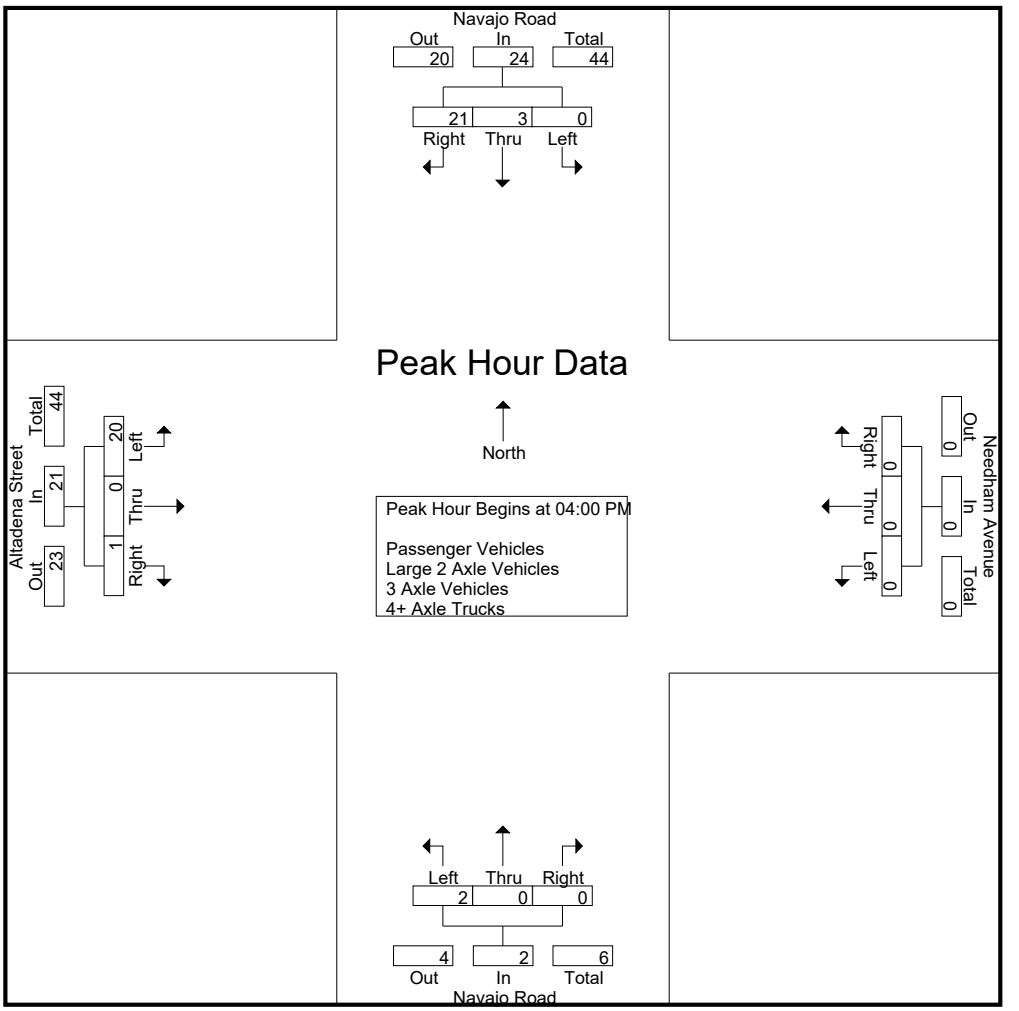
	Navajo Road Southbound				Needham Avenue Westbound				Navajo Road Northbound				Altadena Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	2	7	9	0	0	0	0	1	0	0	1	6	0	0	6	16
04:15 PM	0	0	6	6	0	0	0	0	1	0	0	1	8	0	0	8	15
04:30 PM	0	1	5	6	0	0	0	0	0	0	0	0	1	0	1	2	8
04:45 PM	0	0	3	3	0	0	0	0	0	0	0	0	5	0	0	5	8
Total	0	3	21	24	0	0	0	0	2	0	0	2	20	0	1	21	47
05:00 PM	0	0	5	5	0	0	0	0	0	0	0	0	2	0	0	2	7
05:15 PM	0	0	1	1	0	0	0	0	0	1	0	1	0	0	0	0	2
05:30 PM	0	0	5	5	0	0	0	0	1	0	0	1	1	0	0	1	7
05:45 PM	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	0	0	12	12	0	0	0	0	1	1	0	2	3	0	0	3	17
Grand Total	0	3	33	36	0	0	0	0	3	1	0	4	23	0	1	24	64
Apprch %	0	8.3	91.7		0	0	0		75	25	0		95.8	0	4.2		
Total %	0	4.7	51.6	56.2	0	0	0	0	4.7	1.6	0	6.2	35.9	0	1.6	37.5	
Passenger Vehicles	0	3	32	35	0	0	0	0	3	1	0	4	23	0	1	24	63
% Passenger Vehicles	0	100	97	97.2	0	0	0	0	100	100	0	100	100	0	100	100	98.4
Large 2 Axle Vehicles	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1
% Large 2 Axle Vehicles	0	0	3	2.8	0	0	0	0	0	0	0	0	0	0	0	0	1.6
3 Axle Vehicles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% 3 Axle Vehicles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4+ Axle Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% 4+ Axle Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	Navajo Road Southbound				Needham Avenue Westbound				Navajo Road Northbound				Altadena Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:00 PM																	
04:00 PM	0	**2**	**7**	**9**	0	0	0	0	**1**	0	0	**1**	6	0	0	6	**16**
04:15 PM	0	0	6	6	0	0	0	0	1	0	0	1	**8**	0	0	**8**	15
04:30 PM	0	1	5	6	0	0	0	0	0	0	0	0	1	0	**1**	2	8
04:45 PM	0	0	3	3	0	0	0	0	0	0	0	0	5	0	0	5	8
Total Volume	0	3	21	24	0	0	0	0	2	0	0	2	20	0	1	21	47
% App. Total	0	12.5	87.5		0	0	0		100	0	0		95.2	0	4.8		
PHF	.000	.375	.750	.667	.000	.000	.000	.000	.500	.000	.000	.500	.625	.000	.250	.656	.734

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City of Apple Valley
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Weather: Clear

File Name : 03_APV_Nav_Alta PM
Site Code : 05124741
Start Date : 8/27/2024
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Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:00 PM				04:00 PM				04:00 PM				04:00 PM			
+0 mins.	0	**2**	**7**	**9**	0	0	0	0	**1**	0	0	**1**	6	0	0	6
+15 mins.	0	0	6	6	0	0	0	0	1	0	0	1	**8**	0	0	**8**
+30 mins.	0	1	5	6	0	0	0	0	0	0	0	0	1	0	**1**	2
+45 mins.	0	0	3	3	0	0	0	0	0	0	0	0	5	0	0	5
Total Volume	0	3	21	24	0	0	0	0	2	0	0	2	20	0	1	21
% App. Total	0	12.5	87.5		0	0	0		100	0	0		95.2	0	4.8	
PHF	.000	.375	.750	.667	.000	.000	.000	.000	.500	.000	.000	.500	.625	.000	.250	.656

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File Name : 03_APV_Nav_Alta PM
Site Code : 05124741
Start Date : 8/27/2024
Page No : 1

Groups Printed- Passenger Vehicles

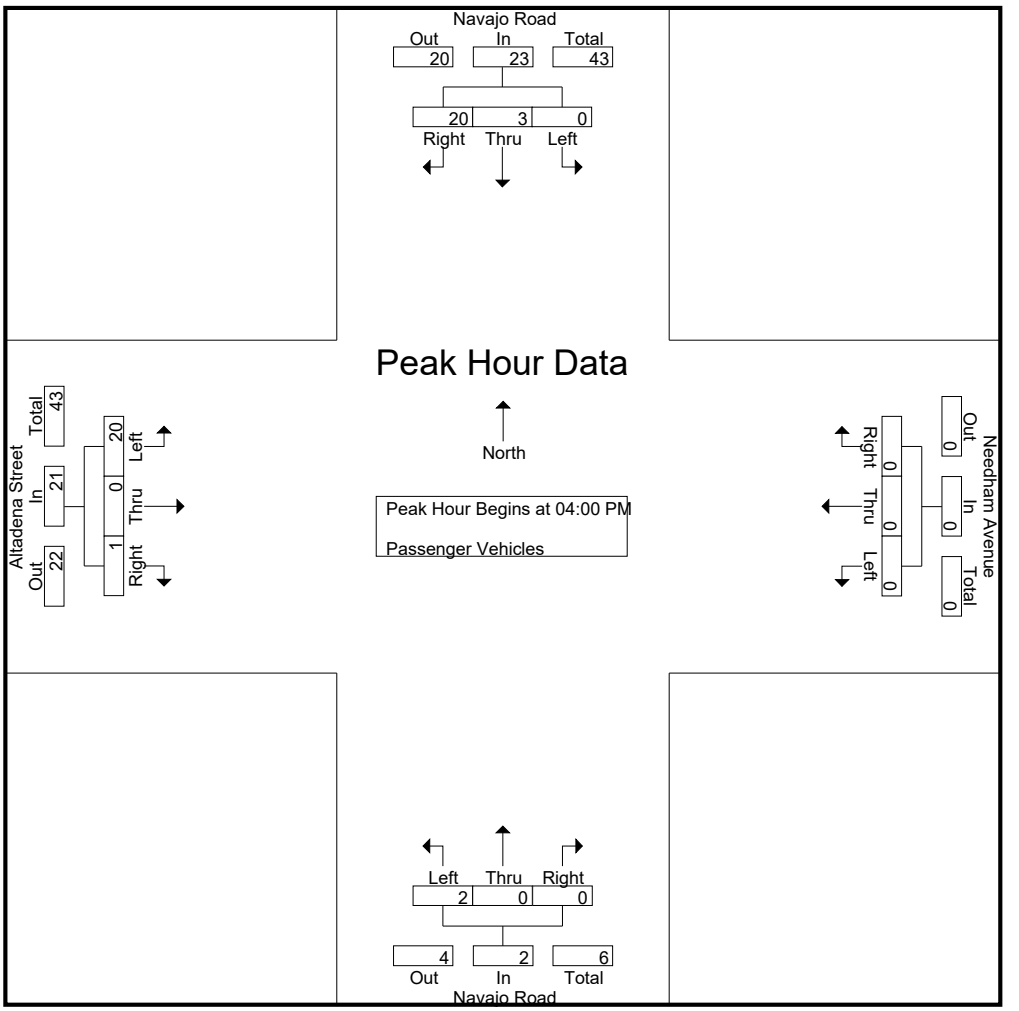
	Navajo Road Southbound				Needham Avenue Westbound				Navajo Road Northbound				Altadena Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	2	7	9	0	0	0	0	1	0	0	1	6	0	0	6	16
04:15 PM	0	0	5	5	0	0	0	0	1	0	0	1	8	0	0	8	14
04:30 PM	0	1	5	6	0	0	0	0	0	0	0	0	1	0	1	2	8
04:45 PM	0	0	3	3	0	0	0	0	0	0	0	0	5	0	0	5	8
Total	0	3	20	23	0	0	0	0	2	0	0	2	20	0	1	21	46
05:00 PM	0	0	5	5	0	0	0	0	0	0	0	0	2	0	0	2	7
05:15 PM	0	0	1	1	0	0	0	0	0	1	0	1	0	0	0	0	2
05:30 PM	0	0	5	5	0	0	0	0	1	0	0	1	1	0	0	1	7
05:45 PM	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	0	0	12	12	0	0	0	0	1	1	0	2	3	0	0	3	17
Grand Total	0	3	32	35	0	0	0	0	3	1	0	4	23	0	1	24	63
Apprch %	0	8.6	91.4		0	0	0		75	25	0		95.8	0	4.2		
Total %	0	4.8	50.8	55.6	0	0	0	0	4.8	1.6	0	6.3	36.5	0	1.6	38.1	

	Navajo Road Southbound				Needham Avenue Westbound				Navajo Road Northbound				Altadena Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 04:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:00 PM																	
04:00 PM	0	**2**	**7**	**9**	0	0	0	0	**1**	0	0	**1**	6	0	0	6	**16**
04:15 PM	0	0	5	5	0	0	0	0	1	0	0	1	**8**	0	0	**8**	14
04:30 PM	0	1	5	6	0	0	0	0	0	0	0	0	1	0	**1**	2	8
04:45 PM	0	0	3	3	0	0	0	0	0	0	0	0	5	0	0	5	8
Total Volume	0	3	20	23	0	0	0	0	2	0	0	2	20	0	1	21	46
% App. Total	0	13	87		0	0	0		100	0	0		95.2	0	4.8		
PHF	.000	.375	.714	.639	.000	.000	.000	.000	.500	.000	.000	.500	.625	.000	.250	.656	.719

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File Name : 03_APV_Nav_Alta PM
Site Code : 05124741
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Peak Hour Analysis From 04:00 PM to 04:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:00 PM				04:00 PM				04:00 PM				04:00 PM			
+0 mins.	0	**2**	**7**	**9**	0	0	0	0	**1**	0	0	**1**	6	0	0	6
+15 mins.	0	0	5	5	0	0	0	0	1	0	0	1	**8**	0	0	**8**
+30 mins.	0	1	5	6	0	0	0	0	0	0	0	0	1	0	**1**	2
+45 mins.	0	0	3	3	0	0	0	0	0	0	0	0	5	0	0	5
Total Volume	0	3	20	23	0	0	0	0	2	0	0	2	20	0	1	21
% App. Total	0	13	87		0	0	0		100	0	0		95.2	0	4.8	
PHF	.000	.375	.714	.639	.000	.000	.000	.000	.500	.000	.000	.500	.625	.000	.250	.656

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File Name : 03_APV_Nav_Alta PM
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Groups Printed- Large 2 Axle Vehicles

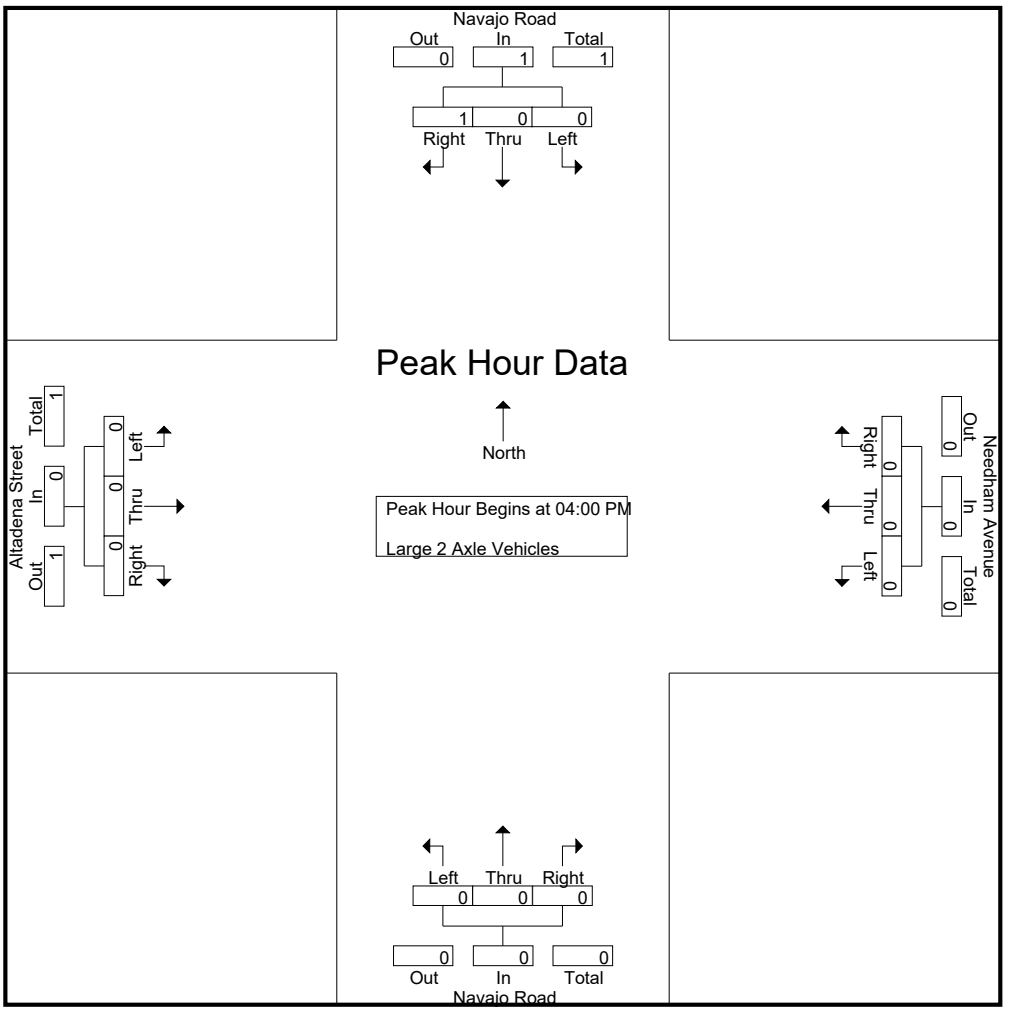
	Navajo Road Southbound				Needham Avenue Westbound				Navajo Road Northbound				Altadena Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Apprch %	0	0	100		0	0	0		0	0	0		0	0	0		
Total %	0	0	100	100	0	0	0	0	0	0	0	0	0	0	0	0	

	Navajo Road Southbound				Needham Avenue Westbound				Navajo Road Northbound				Altadena Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 04:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:00 PM																	
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	**1**	**1**	0	0	0	0	0	0	0	0	0	0	0	0	**1**
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1
% App. Total	0	0	100		0	0	0		0	0	0		0	0	0		
PHF	.000	.000	.250	.250	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.250

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951) 268-6268

City of Apple Valley
N/S: Navajo Road
E/W: Altadena Street/Needham Avenue
Weather: Clear

File Name : 03_APV_Nav_Alta PM
Site Code : 05124741
Start Date : 8/27/2024
Page No : 2



Peak Hour Analysis From 04:00 PM to 04:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:00 PM				04:00 PM				04:00 PM				04:00 PM			
+0 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	**1**	**1**	0	0	0	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	100		0	0	0		0	0	0		0	0	0	
PHF	.000	.000	.250	.250	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

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City of Apple Valley
N/S: Navajo Road
E/W: Altadena Street/Needham Avenue
Weather: Clear

File Name : 03_APV_Nav_Alta PM
Site Code : 05124741
Start Date : 8/27/2024
Page No : 1

Groups Printed- 3 Axle Vehicles

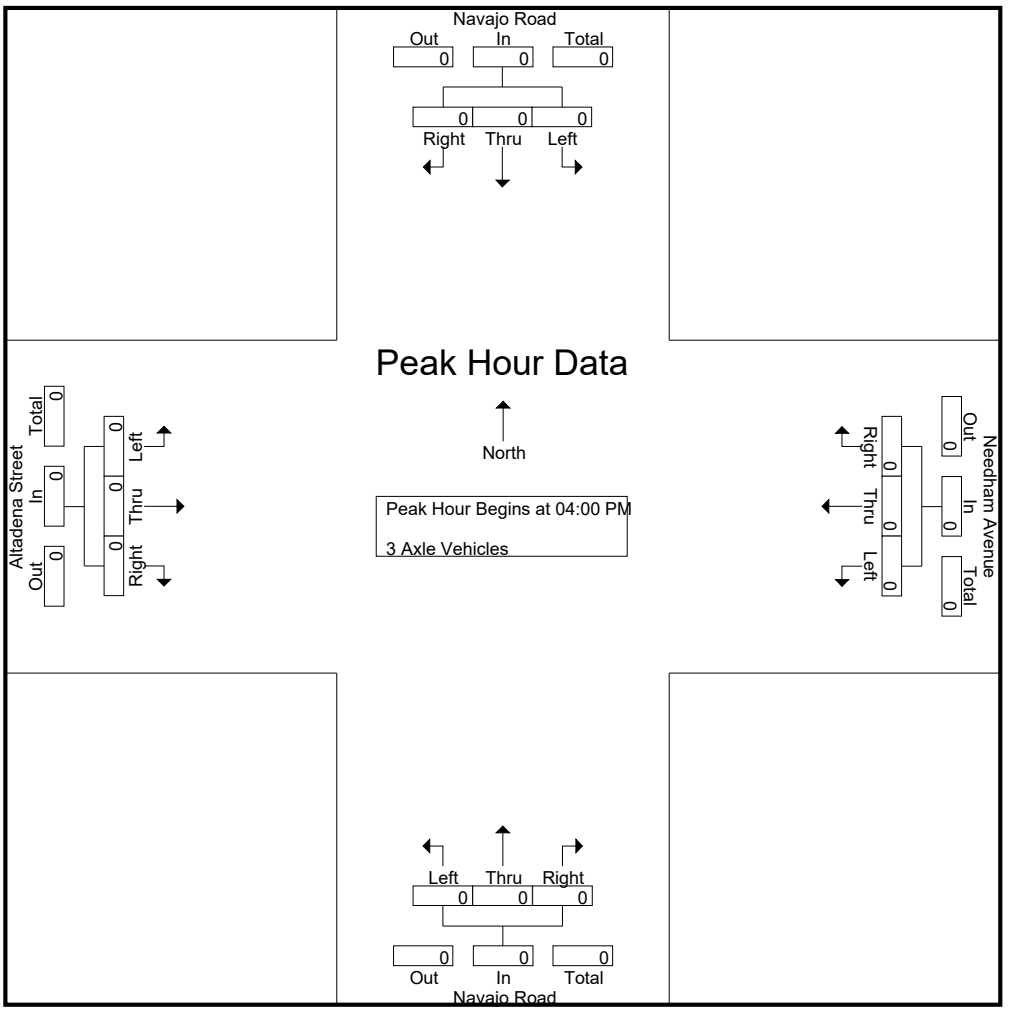
	Navajo Road Southbound				Needham Avenue Westbound				Navajo Road Northbound				Altadena Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Apprch %	0	0	0		0	0	0		0	0	0		0	0	0		
Total %																	

	Navajo Road Southbound				Needham Avenue Westbound				Navajo Road Northbound				Altadena Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 04:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:00 PM																	
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0		0	0	0		0	0	0		0	0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

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City of Apple Valley
N/S: Navajo Road
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Weather: Clear

File Name : 03_APV_Nav_Alta PM
Site Code : 05124741
Start Date : 8/27/2024
Page No : 2



Peak Hour Analysis From 04:00 PM to 04:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:00 PM				04:00 PM				04:00 PM				04:00 PM			
+0 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0		0	0	0		0	0	0		0	0	0	
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

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City of Apple Valley
N/S: Navajo Road
E/W: Altadena Street/Needham Avenue
Weather: Clear

File Name : 03_APV_Nav_Alta PM
Site Code : 05124741
Start Date : 8/27/2024
Page No : 1

Groups Printed- 4+ Axle Trucks

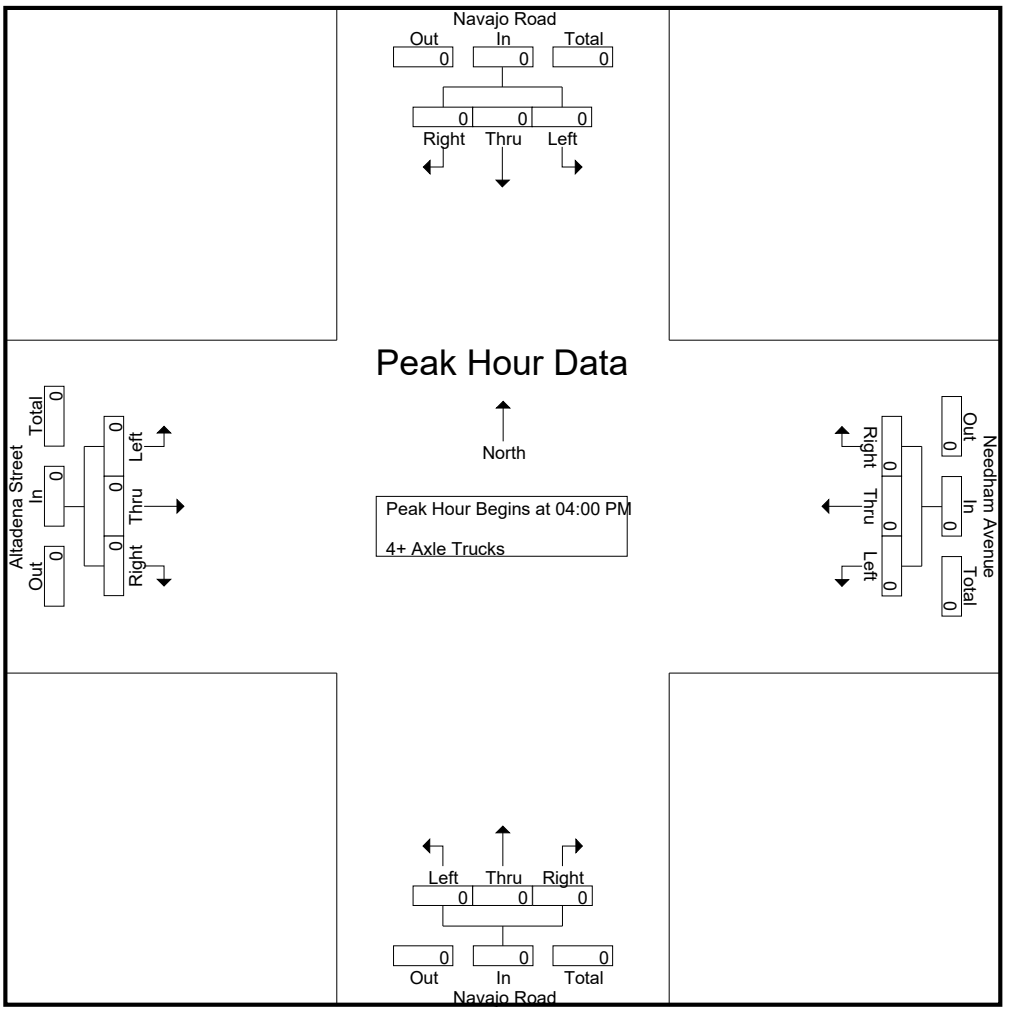
	Navajo Road Southbound				Needham Avenue Westbound				Navajo Road Northbound				Altadena Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Apprch %	0	0	0		0	0	0		0	0	0		0	0	0		
Total %																	

	Navajo Road Southbound				Needham Avenue Westbound				Navajo Road Northbound				Altadena Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 04:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:00 PM																	
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0		0	0	0		0	0	0		0	0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

Counts Unlimited, Inc.
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City of Apple Valley
N/S: Navajo Road
E/W: Altadena Street/Needham Avenue
Weather: Clear

File Name : 03_APV_Nav_Alta PM
Site Code : 05124741
Start Date : 8/27/2024
Page No : 2



Peak Hour Analysis From 04:00 PM to 04:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:00 PM				04:00 PM				04:00 PM				04:00 PM			
+0 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0		0	0	0		0	0	0		0	0	0	
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

INTERSECTION TURNING MOVEMENT COUNTS

T020624

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: Tue, Apr 2, 24	LOCATION:	Apple Valley	PROJECT #: SC4523
	NORTH & SOUTH:	Navajo Rd	LOCATION #: 11
	EAST & WEST:	Johnson Rd	CONTROL: STOP N

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND Navajo Rd			SOUTHBOUND Navajo Rd			EASTBOUND Johnson Rd			WESTBOUND Johnson Rd			
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
AM	7:00 AM	1	0	0	0	0	0	0	4	3	2	7	0	17
	7:15 AM	1	0	0	0	0	0	0	4	4	1	4	0	14
	7:30 AM	4	0	0	0	0	0	0	5	13	2	8	0	32
	7:45 AM	0	0	0	0	0	0	0	2	10	1	10	0	23
	8:00 AM	2	0	0	0	0	0	0	1	4	10	4	0	21
	8:15 AM	2	0	0	0	0	0	0	5	7	1	6	0	21
	8:30 AM	4	0	1	0	0	0	0	3	7	3	6	0	24
	8:45 AM	4	0	0	0	0	0	0	3	15	3	1	0	26
	VOLUMES	18	0	1	0	0	0	0	27	63	23	46	0	178
	APPROACH %	95%	0%	5%	0%	0%	0%	0%	30%	70%	33%	67%	0%	
	APP/DEPART	19	/	0	0	/	86	90	/	28	69	/	64	0
	BEGIN PEAK HR		7:30 AM											
	VOLUMES	8	0	0	0	0	0	0	13	34	14	28	0	97
	APPROACH %	100%	0%	0%	0%	0%	0%	0%	28%	72%	33%	67%	0%	
	PEAK HR FACTOR		0.500			0.000			0.653			0.750		0.758
	APP/DEPART	8	/	0	0	/	48	47	/	13	42	/	36	0
PM	4:00 PM	9	0	2	0	0	0	0	23	6	2	10	0	52
	4:15 PM	12	0	1	0	0	0	0	9	14	7	19	0	62
	4:30 PM	7	0	1	0	0	0	0	14	5	3	7	0	37
	4:45 PM	6	0	2	0	0	0	0	12	9	5	4	0	38
	5:00 PM	3	0	2	0	0	0	0	14	3	1	3	0	26
	5:15 PM	2	0	0	0	0	0	0	13	5	0	3	0	23
	5:30 PM	23	0	7	0	0	0	0	13	2	0	5	0	50
	5:45 PM	3	0	0	0	0	0	0	11	9	3	2	0	28
	VOLUMES	65	0	15	0	0	0	0	109	53	21	53	0	316
	APPROACH %	81%	0%	19%	0%	0%	0%	0%	67%	33%	28%	72%	0%	
	APP/DEPART	80	/	0	0	/	74	162	/	124	74	/	118	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	34	0	6	0	0	0	0	58	34	17	40	0	189
	APPROACH %	85%	0%	15%	0%	0%	0%	0%	63%	37%	30%	70%	0%	
	PEAK HR FACTOR		0.769			0.000			0.793			0.548		0.762
	APP/DEPART	40	/	0	0	/	51	92	/	64	57	/	74	0

U-TURNS

NB 0	SB 0	EB 0	WB 0	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	
0	0	0	0	0

RTOR

NRR X	SRR X	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

Navajo Rd

NORTH LEG

Johnson Rd WEST LEG — EAST LEG **Johnson Rd**

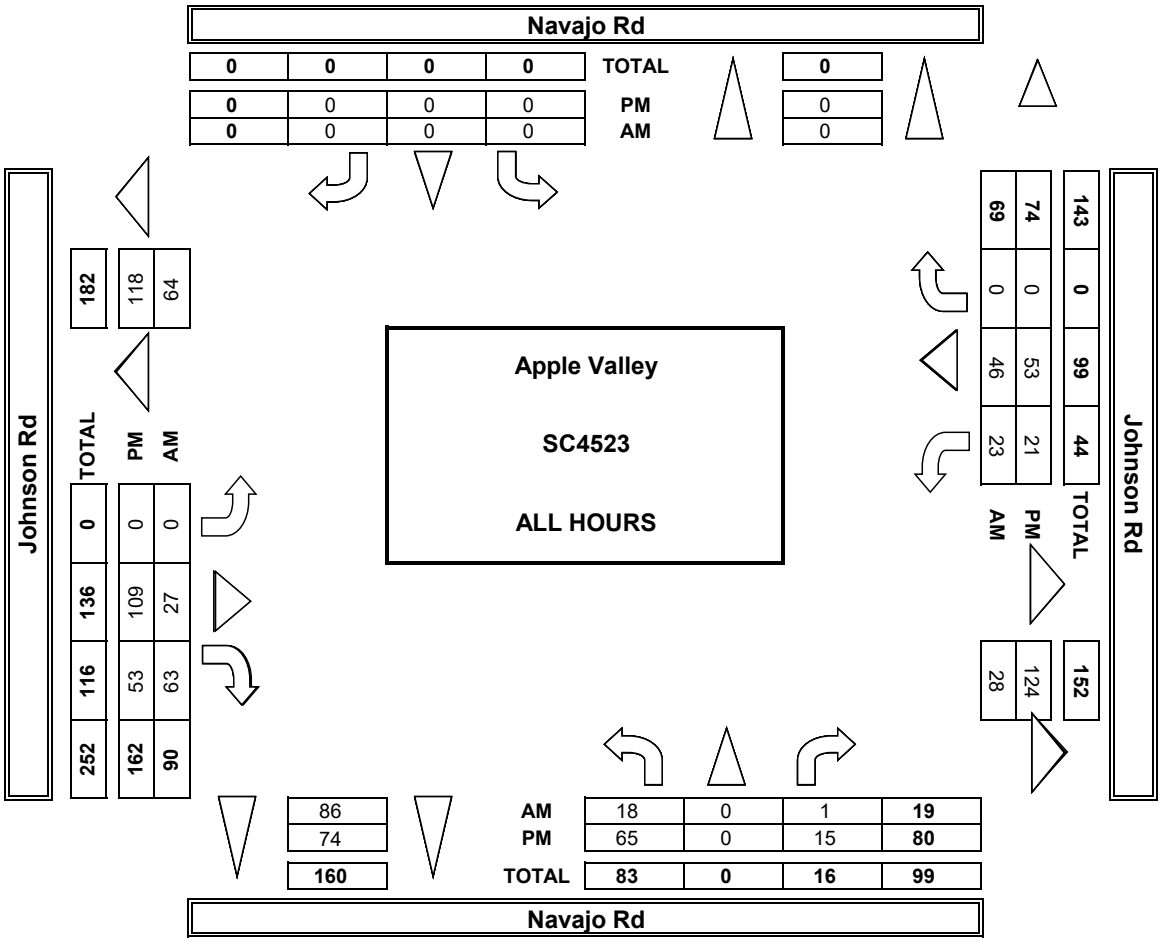
SOUTH LEG

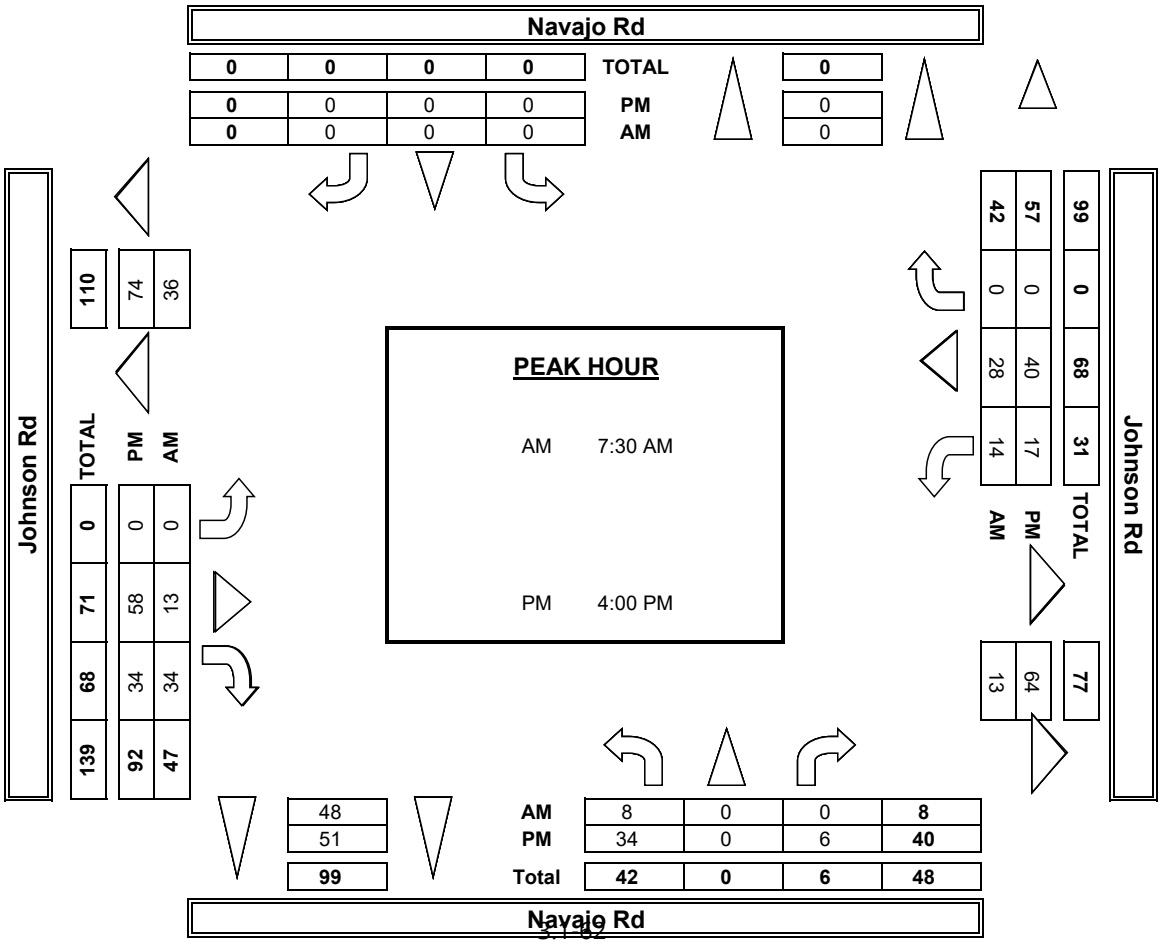
Navajo Rd

		ALL PED + BIKE & SCOOTER					PEDESTRIAN CROSSINGS					BICYCLE & SCOOTER CROSSINGS				
		E LEG	W LEG	S LEG	N LEG	TOTAL	E LEG	W LEG	S LEG	N LEG	TOTAL	EL	WL	SL	NL	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	1	0	1	0	0	1	0	1	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	1	0	1	0	0	1	0	1	0	0	0	0	0

AimTD LLC

TURNING MOVEMENT COUNTS





INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: 4/2/24 TUESDAY	LOCATION:	Apple Valley	PROJECT #:	SC4523
	NORTH & SOUTH:	Navajo Rd	LOCATION #:	11
	EAST & WEST:	Johnson Rd	CONTROL:	STOP N

	NOTES:											
PCE Adjusted	Class	1	2	3	4	5	6		AM		▲ N	
	Factor	1	1.5	2	3	2	2		PM	◄ W		E ►
									MD			
									OTHER		S ▼	
									OTHER			

		NORTHBOUND Navajo Rd			SOUTHBOUND Navajo Rd			EASTBOUND Johnson Rd			WESTBOUND Johnson Rd				U-TURNS				
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	3	0	0	0	0	0	0	5	6	2	10	0	25					0
	7:15 AM	3	0	0	0	0	0	0	4	4	1	5	0	17					0
	7:30 AM	9	0	0	0	0	0	0	5	13	3	9	0	39					0
	7:45 AM	0	0	0	0	0	0	0	4	10	1	11	0	26					0
	8:00 AM	5	0	0	0	0	0	0	1	7	11	5	0	28					0
	8:15 AM	6	0	0	0	0	0	0	6	11	2	7	0	31					0
	8:30 AM	9	0	1	0	0	0	0	3	10	3	6	0	31					0
	8:45 AM	10	0	0	0	0	0	0	5	17	3	1	0	36					0
	VOLUMES	44	0	1	0	0	0	0	32	78	25	53	0	232	0	0	0	0	0
	APPROACH %	98%	0%	2%	0%	0%	0%	0%	29%	71%	32%	68%	0%						
	APP/DEPART	45	/	0	0	/	102	110	/	33	77	/	97	0					
	BEGIN PEAK HR	7:30 AM																	
	VOLUMES	20	0	0	0	0	0	0	16	41	16	31	0	123					
	APPROACH %	100%	0%	0%	0%	0%	0%	0%	27%	73%	33%	67%	0%						
	PEAK HR FACTOR	0.542			0.000			0.785			0.750			0.795					
	APP/DEPART	20	/	0	0	/	57	57	/	16	47	/	51	0					
PM	4:00 PM	11	0	4	0	0	0	0	23	6	2	11	0	57					0
	4:15 PM	12	0	1	0	0	0	0	10	22	7	19	0	71					0
	4:30 PM	12	0	1	0	0	0	0	15	5	3	9	0	44					0
	4:45 PM	9	0	2	0	0	0	0	12	9	5	6	0	43					0
	5:00 PM	9	0	2	0	0	0	0	15	5	1	5	0	37					0
	5:15 PM	4	0	0	0	0	0	0	13	7	0	3	0	27					0
	5:30 PM	24	0	7	0	0	0	0	13	5	0	5	0	54					0
	5:45 PM	7	0	0	0	0	0	0	14	9	3	2	0	35					0
	VOLUMES	88	0	17	0	0	0	0	114	68	21	59	0	367	0	0	0	0	0
	APPROACH %	84%	0%	16%	0%	0%	0%	0%	63%	37%	26%	74%	0%						
	APP/DEPART	105	/	0	0	/	89	182	/	131	80	/	147	0					
	BEGIN PEAK HR	4:00 PM																	
	VOLUMES	44	0	8	0	0	0	0	60	42	17	44	0	215					
	APPROACH %	85%	0%	15%	0%	0%	0%	0%	59%	41%	28%	72%	0%						
	PEAK HR FACTOR	0.867			0.000			0.793			0.587			0.755					
	APP/DEPART	52	/	0	0	/	59	102	/	68	61	/	88	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Apple Valley	PROJECT #:	SC4523
4/2/24	NORTH & SOUTH:	Navajo Rd	LOCATION #:	11
TUESDAY	EAST & WEST:	Johnson Rd	CONTROL:	STOP N

CLASS 1: PASSENGER VEHICLES

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

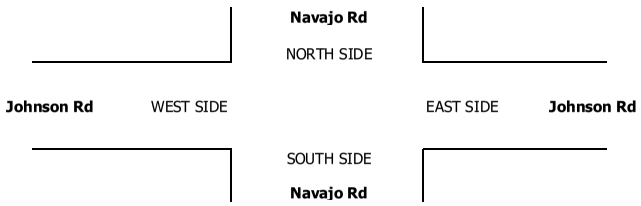
		NORTHBOUND Navajo Rd			SOUTHBOUND Navajo Rd			EASTBOUND Johnson Rd			WESTBOUND Johnson Rd			
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	3	1	2	5	0	11
	7:15 AM	0	0	0	0	0	0	0	4	4	1	3	0	12
	7:30 AM	1	0	0	0	0	0	0	5	13	1	7	0	27
	7:45 AM	0	0	0	0	0	0	0	1	10	1	9	0	21
	8:00 AM	0	0	0	0	0	0	0	1	2	9	2	0	14
	8:15 AM	0	0	0	0	0	0	0	4	5	0	5	0	14
	8:30 AM	0	0	1	0	0	0	0	3	5	3	6	0	18
	8:45 AM	1	0	0	0	0	0	0	2	14	3	1	0	21
	VOLUMES	2	0	1	0	0	0	0	23	54	20	38	0	138
	APPROACH %	67%	0%	33%	0%	0%	0%	0%	30%	70%	34%	66%	0%	
	APP/DEPART	3	/	0	0	/	74	77	/	24	58	/	40	0
	BEGIN PEAK HR		7:30 AM											
	VOLUMES	1	0	0	0	0	0	0	11	30	11	23	0	76
	APPROACH %	100%	0%	0%	0%	0%	0%	0%	27%	73%	32%	68%	0%	
	PEAK HR FACTOR		0.250			0.000			0.569			0.773		0.704
	APP/DEPART	1	/	0	0	/	41	41	/	11	34	/	24	0
PM	4:00 PM	8	0	1	0	0	0	0	23	6	2	9	0	49
	4:15 PM	12	0	1	0	0	0	0	7	9	7	19	0	55
	4:30 PM	4	0	1	0	0	0	0	13	5	3	5	0	31
	4:45 PM	4	0	2	0	0	0	0	12	9	5	2	0	34
	5:00 PM	0	0	2	0	0	0	0	12	2	1	2	0	19
	5:15 PM	1	0	0	0	0	0	0	13	3	0	3	0	20
	5:30 PM	22	0	7	0	0	0	0	13	0	0	5	0	47
	5:45 PM	1	0	0	0	0	0	0	9	9	3	2	0	24
	VOLUMES	52	0	14	0	0	0	0	102	43	21	47	0	279
	APPROACH %	79%	0%	21%	0%	0%	0%	0%	70%	30%	31%	69%	0%	
	APP/DEPART	66	/	0	0	/	64	145	/	116	68	/	99	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	28	0	5	0	0	0	0	55	29	17	35	0	169
	APPROACH %	85%	0%	15%	0%	0%	0%	0%	65%	35%	33%	67%	0%	
	PEAK HR FACTOR		0.635			0.000			0.724			0.500		0.768
	APP/DEPART	33	/	0	0	/	46	84	/	60	52	/	63	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR X	SRR X	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Apple Valley	PROJECT #:	SC4523
4/2/24	NORTH & SOUTH:	Navajo Rd	LOCATION #:	11
TUESDAY	EAST & WEST:	Johnson Rd	CONTROL:	STOP N

CLASS 2: 2-AXLE WORK VEHICLES/ TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND Navajo Rd			SOUTHBOUND Navajo Rd			EASTBOUND Johnson Rd			WESTBOUND Johnson Rd			
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	1	0	0	1	0	2
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	1	0	0	1
	7:45 AM	0	0	0	0	0	0	0	0	0	0	1	0	1
	8:00 AM	1	0	0	0	0	0	0	0	0	1	2	0	4
	8:15 AM	0	0	0	0	0	0	0	1	0	1	1	0	3
	8:30 AM	1	0	0	0	0	0	0	0	1	0	0	0	2
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	2	0	0	0	0	0	0	2	1	3	5	0	13
	APPROACH %	100%	0%	0%	0%	0%	0%	0%	67%	33%	38%	63%	0%	
	APP/DEPART	2	/	0	0	/	4	3	/	2	8	/	7	0
	BEGIN PEAK HR		7:30 AM											
	VOLUMES	1	0	0	0	0	0	0	1	0	3	4	0	9
	APPROACH %	100%	0%	0%	0%	0%	0%	0%	100%	0%	43%	57%	0%	
	PEAK HR FACTOR		0.250			0.000			0.250			0.583		0.563
	APP/DEPART	1	/	0	0	/	3	1	/	1	7	/	5	0
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	2	0	0	0	0	2
	4:30 PM	0	0	0	0	0	0	0	1	0	0	1	0	2
	4:45 PM	0	0	0	0	0	0	0	0	0	0	1	0	1
	5:00 PM	0	0	0	0	0	0	0	2	0	0	0	0	2
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	1	0	0	0	0	1
	VOLUMES	0	0	0	0	0	0	0	6	0	0	2	0	8
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	100%	0%	
	APP/DEPART	0	/	0	0	/	0	6	/	6	2	/	2	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	0	0	0	0	0	0	0	3	0	0	2	0	5
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	100%	0%	
	PEAK HR FACTOR		0.000			0.000			0.375			0.500		0.625
	APP/DEPART	0	/	0	0	/	0	3	/	3	2	/	2	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	
0	0	0	0	
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	
0	0	0	0	

RTOR

NRR X	SRR X	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

Navajo Rd

NORTH SIDE

Johnson Rd WEST SIDE EAST SIDE **Johnson Rd**

SOUTH SIDE

Navajo Rd

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

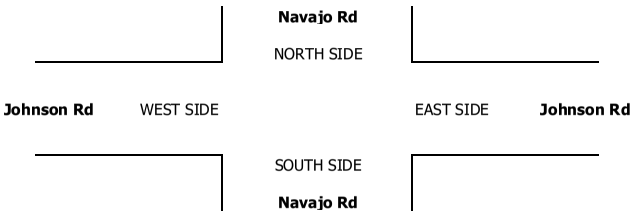
DATE:	LOCATION:	Apple Valley	PROJECT #:	SC4523
4/2/24	NORTH & SOUTH:	Navajo Rd	LOCATION #:	11
TUESDAY	EAST & WEST:	Johnson Rd	CONTROL:	STOP N

CLASS 3: 3-AXLE TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND Navajo Rd			SOUTHBOUND Navajo Rd			EASTBOUND Johnson Rd			WESTBOUND Johnson Rd				U-TURNS					RTOR			
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL	NB	SB	EB	WB	TTL	NRR X	SRR X	ERR X	WRR X
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	1	0	0	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0
	APPROACH %	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%										
	APP/DEPART	1	/	0	0	/	0	0	/	0	1	/	2	0									
	BEGIN PEAK HR		7:30 AM																				
	VOLUMES	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0		0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%										
	PEAK HR FACTOR		0.000			0.000			0.000			0.250		0.250									
	APP/DEPART	0	/	0	0	/	0	0	/	0	1	/	1	0									
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0
	4:45 PM	1	0	0	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	1	0	0	0	0	0	0	0	3	0	3	0	7	0	0	0	0	0	0	0	0	0
	APPROACH %	100%	0%	0%	0%	0%	0%	0%	0%	100%	0%	100%	0%										
	APP/DEPART	1	/	0	0	/	3	3	/	0	3	/	4	0									
	BEGIN PEAK HR		4:00 PM																				
	VOLUMES	1	0	0	0	0	0	0	0	1	0	3	0	5	0	0	0	0		0	0	0	0
	APPROACH %	100%	0%	0%	0%	0%	0%	0%	0%	100%	0%	100%	0%										
	PEAK HR FACTOR		0.250			0.000			0.250			0.750		0.625									
	APP/DEPART	1	/	0	0	/	1	1	/	0	3	/	4	0									



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Apple Valley	PROJECT #:	SC4523
4/2/24	NORTH & SOUTH:	Navajo Rd	LOCATION #:	11
TUESDAY	EAST & WEST:	Johnson Rd	CONTROL:	STOP N

CLASS 4: 4 OR MORE AXLE TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND Navajo Rd			SOUTHBOUND Navajo Rd			EASTBOUND Johnson Rd			WESTBOUND Johnson Rd			
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
AM	7:00 AM	1	0	0	0	0	0	0	0	1	0	1	0	3
	7:15 AM	1	0	0	0	0	0	0	0	0	0	0	0	1
	7:30 AM	2	0	0	0	0	0	0	0	0	0	0	0	2
	7:45 AM	0	0	0	0	0	0	0	1	0	0	0	0	1
	8:00 AM	1	0	0	0	0	0	0	0	1	0	0	0	2
	8:15 AM	2	0	0	0	0	0	0	0	2	0	0	0	4
	8:30 AM	1	0	0	0	0	0	0	0	1	0	0	0	2
	8:45 AM	3	0	0	0	0	0	0	1	1	0	0	0	5
	VOLUMES	11	0	0	0	0	0	0	2	6	0	1	0	20
	APPROACH %	100%	0%	0%	0%	0%	0%	0%	25%	75%	0%	100%	0%	
	APP/DEPART	11	/	0	0	/	6	8	/	2	1	/	12	0
	BEGIN PEAK HR	7:30 AM												
	VOLUMES	5	0	0	0	0	0	0	1	3	0	0	0	9
	APPROACH %	100%	0%	0%	0%	0%	0%	0%	25%	75%	0%	0%	0%	
	PEAK HR FACTOR	0.625			0.000			0.500			0.000			0.563
	APP/DEPART	5	/	0	0	/	3	4	/	1	0	/	5	0
PM	4:00 PM	1	0	1	0	0	0	0	0	0	0	0	0	2
	4:15 PM	0	0	0	0	0	0	0	0	3	0	0	0	3
	4:30 PM	2	0	0	0	0	0	0	0	0	0	0	0	2
	4:45 PM	1	0	0	0	0	0	0	0	0	0	0	0	1
	5:00 PM	3	0	0	0	0	0	0	0	1	0	1	0	5
	5:15 PM	1	0	0	0	0	0	0	0	0	0	0	0	1
	5:30 PM	0	0	0	0	0	0	0	0	1	0	0	0	1
	5:45 PM	2	0	0	0	0	0	0	1	0	0	0	0	3
	VOLUMES	10	0	1	0	0	0	0	1	5	0	1	0	18
	APPROACH %	91%	0%	9%	0%	0%	0%	0%	17%	83%	0%	100%	0%	
	APP/DEPART	11	/	0	0	/	5	6	/	2	1	/	11	0
	BEGIN PEAK HR	4:00 PM												
	VOLUMES	4	0	1	0	0	0	0	0	3	0	0	0	8
	APPROACH %	80%	0%	20%	0%	0%	0%	0%	0%	100%	0%	0%	0%	
	PEAK HR FACTOR	0.625			0.000			0.250			0.000			0.667
	APP/DEPART	5	/	0	0	/	3	3	/	1	0	/	4	0

U-TURNS					
NB	SB	EB	WB	TTL	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0		
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0		

RTOR			
NRR X	SRR X	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

Navajo Rd

NORTH SIDE

Johnson Rd WEST SIDE EAST SIDE **Johnson Rd**

SOUTH SIDE

Navajo Rd

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Apple Valley	PROJECT #:	SC4523
4/2/24	NORTH & SOUTH:	Navajo Rd	LOCATION #:	11
TUESDAY	EAST & WEST:	Johnson Rd	CONTROL:	STOP N

CLASS 5: RV

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND Navajo Rd			SOUTHBOUND Navajo Rd			EASTBOUND Johnson Rd			WESTBOUND Johnson Rd				U-TURNS					RTOR			
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL	NB	SB	EB	WB	TTL	NRR X	SRR X	ERR X	WRR X
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%										
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0									
	BEGIN PEAK HR		7:30 AM																				
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%										
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000									
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0									
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%										
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0									
	BEGIN PEAK HR		4:00 PM																				
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%										
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000									
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0									

Navajo Rd

NORTH SIDE

Johnson Rd WEST SIDE EAST SIDE **Johnson Rd**

SOUTH SIDE

Navajo Rd

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Apple Valley	PROJECT #:	SC4523
4/2/24	NORTH & SOUTH:	Navajo Rd	LOCATION #:	11
TUESDAY	EAST & WEST:	Johnson Rd	CONTROL:	STOP N

CLASS 6:	NOTES:
BUSES	

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND Navajo Rd			SOUTHBOUND Navajo Rd			EASTBOUND Johnson Rd			WESTBOUND Johnson Rd			
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	1	0	0	0	1
	7:15 AM	0	0	0	0	0	0	0	0	0	0	1	0	1
	7:30 AM	1	0	0	0	0	0	0	0	0	0	0	0	1
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	1	0	0	0	1
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	1	0	0	0	0	0	0	0	0	0	0	0	1
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	2	0	0	0	0	0	0	0	2	0	1	0	5
	APPROACH %	100%	0%	0%	0%	0%	0%	0%	0%	100%	0%	100%	0%	
	APP/DEPART	2	/	0	0	/	2	2	/	0	1	/	3	0
	BEGIN PEAK HR		7:30 AM											
	VOLUMES	1	0	0	0	0	0	0	0	1	0	0	0	2
	APPROACH %	100%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	
	PEAK HR FACTOR		0.250			0.000			0.250			0.000		0.500
	APP/DEPART	1	/	0	0	/	1	1	/	0	0	/	1	0
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	1	0	0	0	1
	4:30 PM	1	0	0	0	0	0	0	0	0	0	0	0	1
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	1	0	0	0	1
	5:30 PM	1	0	0	0	0	0	0	0	0	0	0	0	1
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	2	0	0	0	0	0	0	0	2	0	0	0	4
	APPROACH %	100%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	
	APP/DEPART	2	/	0	0	/	2	2	/	0	0	/	2	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	1	0	0	0	0	0	0	0	1	0	0	0	2
	APPROACH %	100%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	
	PEAK HR FACTOR		0.250			0.000			0.250			0.000		0.500
	APP/DEPART	1	/	0	0	/	1	1	/	0	0	/	1	0

U-TURNS					RTOR			
NB	SB	EB	WB	TTL	NRR X	SRR X	ERR X	WRR X
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0		0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0		0	0	0	0

Navajo Rd

NORTH SIDE

Johnson Rd WEST SIDE EAST SIDE **Johnson Rd**

SOUTH SIDE

Navajo Rd

INTERSECTION TURNING MOVEMENT COUNTS

T020624

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: Tue, Apr 2, 24

LOCATION: Apple Valley
NORTH & SOUTH: Dale Evans Pkwy
EAST & WEST: Johnson Rd

PROJECT #: SC4523
LOCATION #: 9
CONTROL: STOP ALL

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N / ◄ W / E ► / S ▼

		NORTHBOUND Dale Evans Pkwy			SOUTHBOUND Dale Evans Pkwy			EASTBOUND Johnson Rd			WESTBOUND Johnson Rd			
	LANES:	NL 1	NT 1	NR 1	SL 1	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0.5	WT 0.5	WR 1	TOTAL
AM	7:00 AM	3	27	2	1	10	0	0	12	2	2	6	5	70
	7:15 AM	3	32	6	4	16	1	0	7	1	1	3	8	82
	7:30 AM	2	35	3	8	12	0	0	24	2	2	11	7	106
	7:45 AM	4	24	2	2	12	0	0	17	4	0	16	5	86
	8:00 AM	1	26	2	2	8	0	0	13	1	0	9	6	68
	8:15 AM	0	20	3	2	10	0	0	13	3	0	8	5	64
	8:30 AM	1	19	4	2	16	0	0	20	4	1	12	4	83
	8:45 AM	4	16	4	2	14	0	0	22	3	2	7	3	77
	VOLUMES	18	199	26	23	98	1	0	128	20	8	72	43	636
	APPROACH %	7%	82%	11%	19%	80%	1%	0%	86%	14%	7%	59%	35%	
	APP/DEPART	243	/	242	122	/	126	148	/	177	123	/	91	0
	BEGIN PEAK HR		7:00 AM											
	VOLUMES	12	118	13	15	50	1	0	60	9	5	36	25	344
	APPROACH %	8%	83%	9%	23%	76%	2%	0%	87%	13%	8%	55%	38%	
	PEAK HR FACTOR		0.872			0.786			0.663			0.786		0.811
	APP/DEPART	143	/	143	66	/	64	69	/	88	66	/	49	0
PM	4:00 PM	4	10	13	11	36	0	0	31	10	25	72	9	221
	4:15 PM	2	14	28	10	42	0	0	74	7	7	27	4	215
	4:30 PM	11	13	6	8	50	0	0	25	5	7	15	5	145
	4:45 PM	5	25	1	5	47	0	0	13	8	4	14	4	126
	5:00 PM	0	13	1	13	52	0	0	18	3	3	11	4	118
	5:15 PM	2	11	1	9	41	0	0	14	2	5	9	4	98
	5:30 PM	3	13	1	7	31	1	0	11	6	3	33	2	111
	5:45 PM	3	19	1	7	33	0	0	19	5	2	5	1	95
	VOLUMES	30	118	52	70	332	1	0	205	46	56	186	33	1,129
	APPROACH %	15%	59%	26%	17%	82%	0%	0%	82%	18%	20%	68%	12%	
	APP/DEPART	200	/	151	403	/	434	251	/	327	275	/	217	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	22	62	48	34	175	0	0	143	30	43	128	22	707
	APPROACH %	17%	47%	36%	16%	84%	0%	0%	83%	17%	22%	66%	11%	
	PEAK HR FACTOR		0.750			0.901			0.534			0.455		0.800
	APP/DEPART	132	/	84	209	/	248	173	/	225	193	/	150	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	

RTOR

NRR X	SRR X	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

Dale Evans Pkwy

NORTH LEG

Johnson Rd WEST LEG — EAST LEG **Johnson Rd**

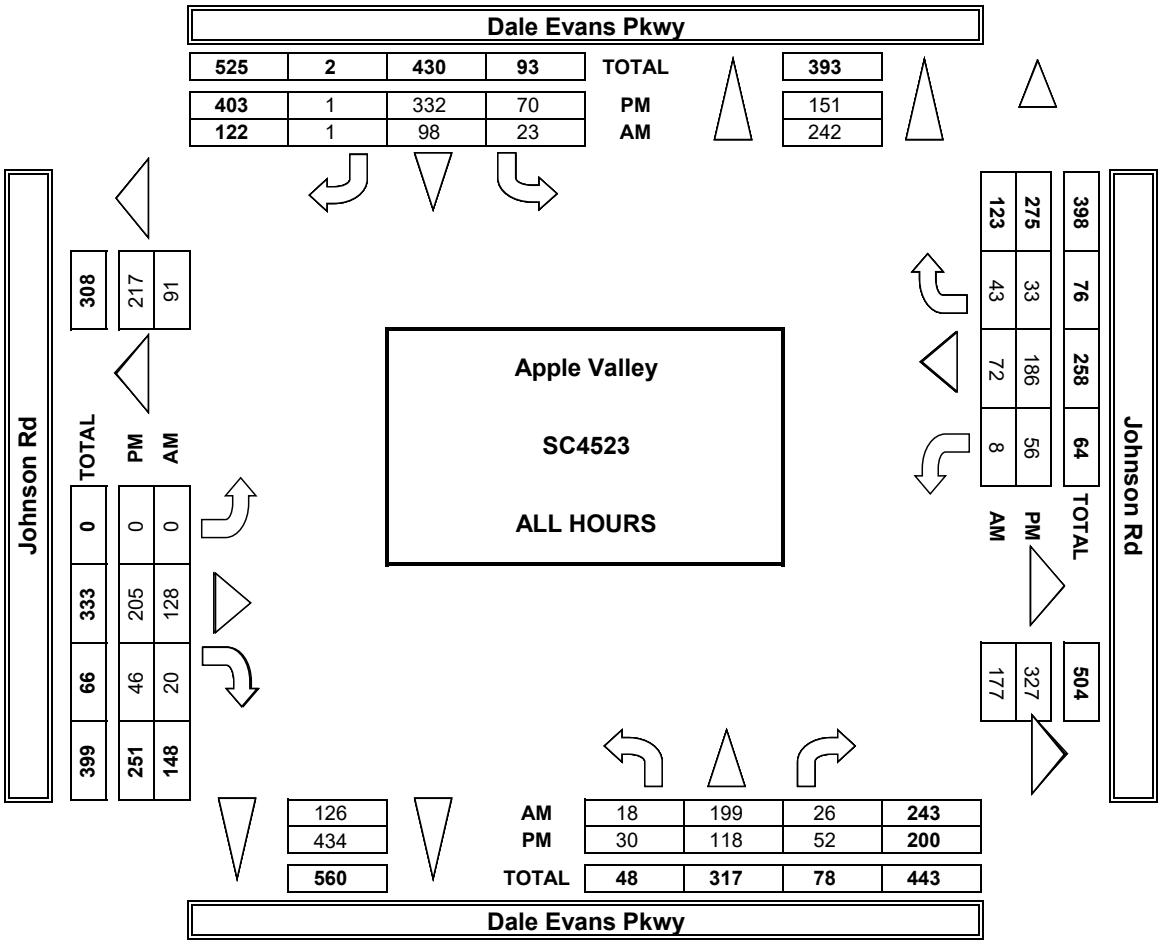
SOUTH LEG

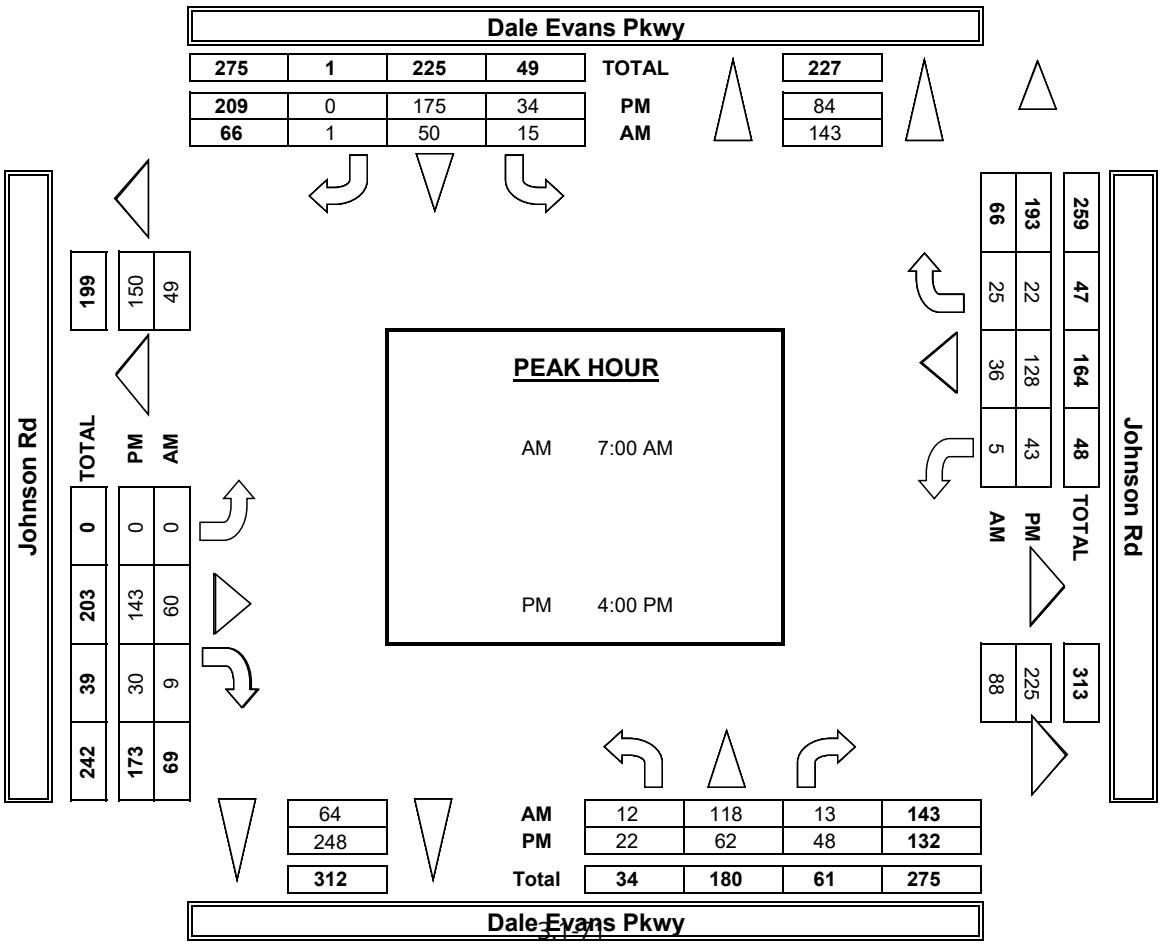
Dale Evans Pkwy

		ALL PED + BIKE & SCOOTER					PEDESTRIAN CROSSINGS					BICYCLE & SCOOTER CROSSINGS				
		E LEG	W LEG	S LEG	N LEG	TOTAL	E LEG	W LEG	S LEG	N LEG	TOTAL	EL	WL	SL	NL	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	1	0	0	0	1	1	0	0	0	1	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	1	0	0	0	1	1	0	0	0	1	0	0	0	0	0
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

AimTD LLC

TURNING MOVEMENT COUNTS





INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: 4/2/24 TUESDAY	LOCATION:	Apple Valley	PROJECT #:	SC4523
	NORTH & SOUTH:	Dale Evans Pkwy	LOCATION #:	9
	EAST & WEST:	Johnson Rd	CONTROL:	STOP ALL

	NOTES:											
PCE Adjusted	Class	1	2	3	4	5	6			AM	▲ N	
	Factor	1	1.5	2	3	2	2			PM		
										MD	◄ W	E ►
										OTHER	S ▼	
										OTHER		

		NORTHBOUND Dale Evans Pkwy			SOUTHBOUND Dale Evans Pkwy			EASTBOUND Johnson Rd			WESTBOUND Johnson Rd				U-TURNS				
	LANES:	NL 1	NT 1	NR 1	SL 1	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0.5	WT 0.5	WR 1	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	3	30	3	1	11	0	0	17	2	2	11	11	90					0
	7:15 AM	6	35	6	6	16	1	0	11	1	3	5	19	108					0
	7:30 AM	4	40	3	14	14	0	0	32	2	3	21	16	149					0
	7:45 AM	7	25	2	6	18	0	0	19	5	0	29	15	124					0
	8:00 AM	1	28	3	6	11	0	0	22	1	0	13	18	103					0
	8:15 AM	0	23	3	3	11	0	0	21	4	0	15	9	87					0
	8:30 AM	1	22	4	6	19	0	0	33	8	2	22	10	126					0
	8:45 AM	6	18	4	4	15	0	0	31	3	2	15	8	105					0
	VOLUMES	27	219	28	46	114	1	0	185	25	12	129	106	891	0	0	0	0	0
	APPROACH %	10%	80%	10%	29%	71%	1%	0%	88%	12%	5%	52%	43%						
	APP/DEPART	274	/	325	161	/	151	210	/	259	247	/	157	0					
	BEGIN PEAK HR		7:00 AM																
	VOLUMES	19	129	14	27	59	1	0	79	10	8	65	61	470					
	APPROACH %	12%	80%	9%	31%	68%	1%	0%	89%	11%	6%	49%	45%						
	PEAK HR FACTOR		0.862			0.772			0.647			0.767		0.791					
	APP/DEPART	162	/	190	87	/	76	88	/	120	134	/	85	0					
PM	4:00 PM	4	12	13	18	38	0	0	34	11	25	80	16	251					0
	4:15 PM	2	16	29	16	44	0	0	95	8	7	30	8	253					0
	4:30 PM	15	13	6	22	55	0	0	31	5	8	20	9	184					0
	4:45 PM	6	25	1	11	50	0	0	17	11	4	22	6	152					0
	5:00 PM	0	15	1	25	54	0	0	28	4	3	17	12	159					0
	5:15 PM	2	14	2	13	44	0	0	20	2	5	15	12	129					0
	5:30 PM	5	13	1	13	32	1	0	16	6	4	37	2	130					0
	5:45 PM	3	19	1	13	34	0	0	26	5	2	7	3	113					0
	VOLUMES	37	127	54	131	350	1	0	266	51	58	227	68	1,369	0	0	0	0	0
	APPROACH %	17%	58%	25%	27%	73%	0%	0%	84%	16%	16%	64%	19%						
	APP/DEPART	218	/	195	482	/	459	317	/	450	353	/	265	0					
	BEGIN PEAK HR		4:00 PM																
	VOLUMES	27	66	49	67	186	0	0	176	35	44	151	39	839					
	APPROACH %	19%	46%	35%	26%	74%	0%	0%	84%	16%	19%	65%	17%						
	PEAK HR FACTOR		0.755			0.820			0.516			0.485		0.829					
	APP/DEPART	142	/	105	253	/	265	211	/	292	234	/	178	0					

Dale Evans Pkwy

NORTH SIDE

Johnson Rd WEST SIDE EAST SIDE **Johnson Rd**

SOUTH SIDE

Dale Evans Pkwy

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Apple Valley	PROJECT #:	SC4523
4/2/24	NORTH & SOUTH:	Dale Evans Pkwy	LOCATION #:	9
TUESDAY	EAST & WEST:	Johnson Rd	CONTROL:	STOP ALL

CLASS 1: PASSENGER VEHICLES

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

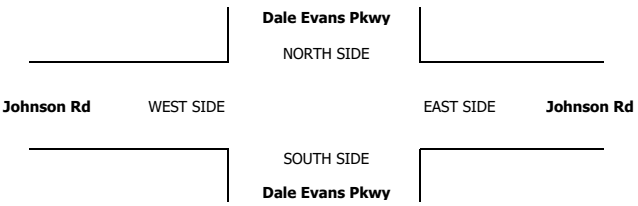
	NORTHBOUND (Dale Evans Pkwy)			SOUTHBOUND (Dale Evans Pkwy)			EASTBOUND (Johnson Rd)			WESTBOUND (Johnson Rd)			
LANES:	NL 1	NT 1	NR 1	SL 1	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0.5	WT 0.5	WR 1	TOTAL
7:00 AM	3	21	1	1	9	0	0	9	2	2	3	2	53
7:15 AM	1	30	6	3	16	1	0	4	1	0	2	2	66
7:30 AM	1	30	3	5	10	0	0	20	2	1	6	2	80
7:45 AM	2	23	2	0	8	0	0	16	3	0	9	0	63
8:00 AM	1	24	1	0	4	0	0	7	1	0	5	0	43
8:15 AM	0	16	3	1	9	0	0	7	2	0	4	3	45
8:30 AM	1	17	4	0	14	0	0	12	1	0	6	1	56
8:45 AM	3	14	4	1	13	0	0	15	3	2	3	0	58
VOLUMES	12	175	24	11	83	1	0	90	15	5	38	10	464
APPROACH %	6%	83%	11%	12%	87%	1%	0%	86%	14%	9%	72%	19%	
APP/DEPART	211	/	185	95	/	103	105	/	125	53	/	51	0
BEGIN PEAK HR	7:00 AM												
VOLUMES	7	104	12	9	43	1	0	49	8	3	20	6	262
APPROACH %	6%	85%	10%	17%	81%	2%	0%	86%	14%	10%	69%	21%	
PEAK HR FACTOR		0.831			0.663			0.648			0.806		0.819
APP/DEPART	123	/	110	53	/	54	57	/	70	29	/	28	0
4:00 PM	4	9	13	7	33	0	0	29	9	25	67	5	201
4:15 PM	2	13	27	6	39	0	0	63	6	7	25	2	190
4:30 PM	9	13	6	1	46	0	0	21	5	6	12	3	122
4:45 PM	4	25	1	2	45	0	0	11	6	4	8	3	109
5:00 PM	0	12	1	7	51	0	0	11	2	3	8	0	95
5:15 PM	2	9	0	7	38	0	0	11	2	5	5	0	79
5:30 PM	2	13	1	4	30	1	0	8	6	2	31	2	100
5:45 PM	3	19	1	4	31	0	0	15	5	2	4	0	84
VOLUMES	26	113	50	38	313	1	0	169	41	54	160	15	980
APPROACH %	14%	60%	26%	11%	89%	0%	0%	80%	20%	24%	70%	7%	
APP/DEPART	189	/	128	352	/	408	210	/	257	229	/	187	0
BEGIN PEAK HR	4:00 PM												
VOLUMES	19	60	47	16	163	0	0	124	26	42	112	13	622
APPROACH %	15%	48%	37%	9%	91%	0%	0%	83%	17%	25%	67%	8%	
PEAK HR FACTOR		0.750			0.952			0.543			0.430		0.774
APP/DEPART	126	/	73	179	/	231	150	/	187	167	/	131	0

U-TURNS

	NB	SB	EB	WB	TTL
AM	0	0	0	0	0
AM BEGIN PEAK HR	0	0	0	0	
PM	0	0	0	0	0
PM BEGIN PEAK HR	0	0	0	0	

RTOR

	NRR X	SRR X	ERR X	WRR X
AM	0	0	0	0
AM BEGIN PEAK HR	0	0	0	0
PM	0	0	0	0
PM BEGIN PEAK HR	0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Apple Valley	PROJECT #:	SC4523
4/2/24	NORTH & SOUTH:	Dale Evans Pkwy	LOCATION #:	9
TUESDAY	EAST & WEST:	Johnson Rd	CONTROL:	STOP ALL

CLASS 2: 2-AXLE WORK VEHICLES/ TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

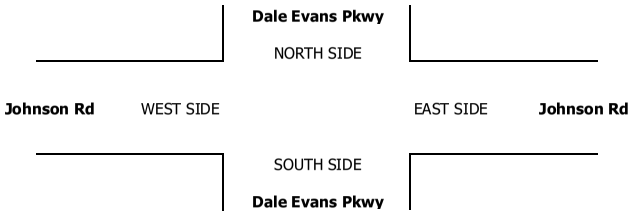
		NORTHBOUND Dale Evans Pkwy			SOUTHBOUND Dale Evans Pkwy			EASTBOUND Johnson Rd			WESTBOUND Johnson Rd			
	LANES:	NL 1	NT 1	NR 1	SL 1	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0.5	WT 0.5	WR 1	TOTAL
AM	7:00 AM	0	6	0	0	1	0	0	0	0	0	1	0	8
	7:15 AM	1	1	0	0	0	0	0	1	0	0	0	0	3
	7:30 AM	0	2	0	0	0	0	0	0	0	0	0	1	3
	7:45 AM	1	1	0	0	0	0	0	0	1	0	1	0	4
	8:00 AM	0	1	0	0	2	0	0	0	0	0	2	0	5
	8:15 AM	0	2	0	0	1	0	0	1	1	0	1	0	6
	8:30 AM	0	0	0	0	0	0	0	1	0	0	1	0	2
	8:45 AM	0	1	0	0	1	0	0	0	0	0	0	0	2
	VOLUMES	2	14	0	0	5	0	0	3	2	0	6	1	33
	APPROACH %	13%	88%	0%	0%	100%	0%	0%	60%	40%	0%	86%	14%	
	APP/DEPART	16	/	15	5	/	7	5	/	3	7	/	8	0
	BEGIN PEAK HR		7:00 AM											
	VOLUMES	2	10	0	0	1	0	0	1	1	0	2	1	18
	APPROACH %	17%	83%	0%	0%	100%	0%	0%	50%	50%	0%	67%	33%	
	PEAK HR FACTOR		0.500			0.250			0.500			0.750		0.563
	APP/DEPART	12	/	11	1	/	2	2	/	1	3	/	4	0
PM	4:00 PM	0	0	0	0	2	0	0	0	0	0	1	0	3
	4:15 PM	0	0	0	1	3	0	0	1	1	0	0	0	6
	4:30 PM	0	0	0	0	2	0	0	1	0	0	0	0	3
	4:45 PM	0	0	0	0	1	0	0	0	0	0	1	0	2
	5:00 PM	0	0	0	0	0	0	0	2	1	0	0	0	3
	5:15 PM	0	1	0	0	2	0	0	0	0	0	0	0	3
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	2	0	0	1	0	0	0	0	3
	VOLUMES	0	1	0	1	12	0	0	5	2	0	2	0	23
	APPROACH %	0%	100%	0%	8%	92%	0%	0%	71%	29%	0%	100%	0%	
	APP/DEPART	1	/	1	13	/	14	7	/	6	2	/	2	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	0	0	0	1	8	0	0	2	1	0	2	0	14
	APPROACH %	0%	0%	0%	11%	89%	0%	0%	67%	33%	0%	100%	0%	
	PEAK HR FACTOR		0.000			0.563			0.375			0.500		0.583
	APP/DEPART	0	/	0	9	/	9	3	/	3	2	/	2	0

U-TURNS

AM NB	AM SB	AM EB	AM WB	AM TTL	PM NB	PM SB	PM EB	PM WB	PM TTL
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0		0	0	0	0	

RTOR

AM NRR	AM SRR	AM ERR	AM WRR	PM NRR	PM SRR	PM ERR	PM WRR
X	X	X	X				
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0				



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Apple Valley	PROJECT #:	SC4523
4/2/24	NORTH & SOUTH:	Dale Evans Pkwy	LOCATION #:	9
TUESDAY	EAST & WEST:	Johnson Rd	CONTROL:	STOP ALL

CLASS 3: 3-AXLE TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND Dale Evans Pkwy			SOUTHBOUND Dale Evans Pkwy			EASTBOUND Johnson Rd			WESTBOUND Johnson Rd			
	LANES:	NL 1	NT 1	NR 1	SL 1	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0.5	WT 0.5	WR 1	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	1	0	0	0	0	1
	7:15 AM	0	0	0	0	0	0	0	1	0	0	0	0	1
	7:30 AM	0	1	0	0	1	0	0	0	0	0	0	0	2
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	1	0	0	0	0	0	3	0	0	1	0	5
	8:15 AM	0	1	0	1	0	0	0	3	0	0	0	0	5
	8:30 AM	0	1	0	0	0	0	0	2	2	0	1	0	6
	8:45 AM	0	0	0	0	0	0	0	5	0	0	0	1	6
	VOLUMES	0	4	0	1	1	0	0	15	2	0	2	1	26
	APPROACH %	0%	100%	0%	50%	50%	0%	0%	88%	12%	0%	67%	33%	
	APP/DEPART	4	/	5	2	/	3	17	/	16	3	/	2	0
	BEGIN PEAK HR		7:00 AM											
	VOLUMES	0	1	0	0	1	0	0	2	0	0	0	0	4
	APPROACH %	0%	100%	0%	0%	100%	0%	0%	100%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.250			0.250			0.500			0.000		0.500
	APP/DEPART	1	/	1	1	/	1	2	/	2	0	/	0	0
PM	4:00 PM	0	0	0	1	0	0	0	1	1	0	1	0	4
	4:15 PM	0	0	0	1	0	0	0	0	0	0	1	0	2
	4:30 PM	0	0	0	0	0	0	0	1	0	0	1	0	2
	4:45 PM	1	0	0	0	0	0	0	0	1	0	3	0	5
	5:00 PM	0	0	0	0	0	0	0	1	0	0	0	0	1
	5:15 PM	0	0	0	0	0	0	0	0	0	0	2	0	2
	5:30 PM	0	0	0	0	1	0	0	1	0	0	0	0	2
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	1	0	0	2	1	0	0	4	2	0	8	0	18
	APPROACH %	100%	0%	0%	67%	33%	0%	0%	67%	33%	0%	100%	0%	
	APP/DEPART	1	/	0	3	/	3	6	/	6	8	/	9	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	1	0	0	2	0	0	0	2	2	0	6	0	13
	APPROACH %	100%	0%	0%	100%	0%	0%	0%	50%	50%	0%	100%	0%	
	PEAK HR FACTOR		0.250			0.500			0.500			0.500		0.650
	APP/DEPART	1	/	0	2	/	2	4	/	4	6	/	7	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	
0	0	0	0	
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	
0	0	0	0	

RTOR

NRR X	SRR X	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

Dale Evans Pkwy

NORTH SIDE

Johnson Rd WEST SIDE EAST SIDE **Johnson Rd**

SOUTH SIDE

Dale Evans Pkwy

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Apple Valley	PROJECT #:	SC4523
4/2/24	NORTH & SOUTH:	Dale Evans Pkwy	LOCATION #:	9
TUESDAY	EAST & WEST:	Johnson Rd	CONTROL:	STOP ALL

CLASS 4: 4 OR MORE AXLE TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND Dale Evans Pkwy			SOUTHBOUND Dale Evans Pkwy			EASTBOUND Johnson Rd			WESTBOUND Johnson Rd			
	LANES:	NL 1	NT 1	NR 1	SL 1	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0.5	WT 0.5	WR 1	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	2	0	0	2	3	7
	7:15 AM	1	1	0	1	0	0	0	1	0	1	1	5	11
	7:30 AM	1	1	0	3	0	0	0	4	0	0	5	4	18
	7:45 AM	1	0	0	2	2	0	0	1	0	0	6	5	17
	8:00 AM	0	0	0	2	0	0	0	3	0	0	1	6	12
	8:15 AM	0	0	0	0	0	0	0	2	0	0	3	2	7
	8:30 AM	0	1	0	2	1	0	0	5	1	0	4	3	17
	8:45 AM	1	0	0	1	0	0	0	2	0	0	4	2	10
	VOLUMES	4	3	0	11	3	0	0	20	1	1	26	30	99
	APPROACH %	57%	43%	0%	79%	21%	0%	0%	95%	5%	2%	46%	53%	
	APP/DEPART	7	/	33	14	/	5	21	/	31	57	/	30	0
	BEGIN PEAK HR		7:00 AM											
	VOLUMES	3	2	0	6	2	0	0	8	0	1	14	17	53
	APPROACH %	60%	40%	0%	75%	25%	0%	0%	100%	0%	3%	44%	53%	
	PEAK HR FACTOR		0.625			0.500			0.500			0.727		0.736
	APP/DEPART	5	/	19	8	/	3	8	/	14	32	/	17	0
PM	4:00 PM	0	1	0	3	0	0	0	1	0	0	3	3	11
	4:15 PM	0	1	0	2	0	0	0	10	0	0	1	2	16
	4:30 PM	2	0	0	7	2	0	0	2	0	0	2	2	17
	4:45 PM	0	0	0	3	1	0	0	2	1	0	2	1	10
	5:00 PM	0	1	0	6	1	0	0	4	0	0	3	4	19
	5:15 PM	0	1	0	2	1	0	0	3	0	0	2	4	13
	5:30 PM	1	0	0	3	0	0	0	2	0	0	2	0	8
	5:45 PM	0	0	0	3	0	0	0	3	0	0	1	1	8
	VOLUMES	3	4	0	29	5	0	0	27	1	0	16	17	102
	APPROACH %	43%	57%	0%	85%	15%	0%	0%	96%	4%	0%	48%	52%	
	APP/DEPART	7	/	21	34	/	6	28	/	56	33	/	19	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	2	2	0	15	3	0	0	15	1	0	8	8	54
	APPROACH %	50%	50%	0%	83%	17%	0%	0%	94%	6%	0%	50%	50%	
	PEAK HR FACTOR		0.500			0.500			0.400			0.667		0.794
	APP/DEPART	4	/	10	18	/	4	16	/	30	16	/	10	0

U-TURNS					
NB	SB	EB	WB	TTL	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0		
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0		

RTOR			
NRR X	SRR X	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

Dale Evans Pkwy

NORTH SIDE

Johnson Rd WEST SIDE EAST SIDE **Johnson Rd**

SOUTH SIDE

Dale Evans Pkwy

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Apple Valley	PROJECT #:	SC4523
4/2/24	NORTH & SOUTH:	Dale Evans Pkwy	LOCATION #:	9
TUESDAY	EAST & WEST:	Johnson Rd	CONTROL:	STOP ALL

CLASS 5: RV

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND Dale Evans Pkwy			SOUTHBOUND Dale Evans Pkwy			EASTBOUND Johnson Rd			WESTBOUND Johnson Rd			
	LANES:	NL 1	NT 1	NR 1	SL 1	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0.5	WT 0.5	WR 1	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
	BEGIN PEAK HR		7:00 AM											
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR X	SRR X	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
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0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

Dale Evans Pkwy

NORTH SIDE

Johnson Rd WEST SIDE EAST SIDE **Johnson Rd**

SOUTH SIDE

Dale Evans Pkwy

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Apple Valley	PROJECT #:	SC4523
4/2/24	NORTH & SOUTH:	Dale Evans Pkwy	LOCATION #:	9
TUESDAY	EAST & WEST:	Johnson Rd	CONTROL:	STOP ALL

CLASS 6:	NOTES:
BUSES	

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

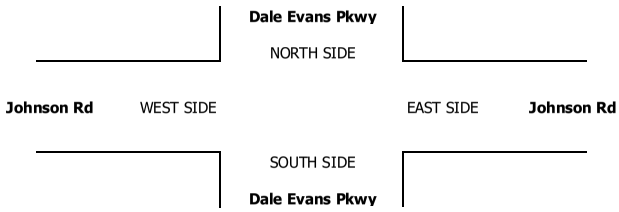
		NORTHBOUND Dale Evans Pkwy			SOUTHBOUND Dale Evans Pkwy			EASTBOUND Johnson Rd			WESTBOUND Johnson Rd			
	LANES:	NL 1	NT 1	NR 1	SL 1	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0.5	WT 0.5	WR 1	TOTAL
AM	7:00 AM	0	0	1	0	0	0	0	0	0	0	0	0	1
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	1	1
	7:30 AM	0	1	0	0	1	0	0	0	0	1	0	0	3
	7:45 AM	0	0	0	0	2	0	0	0	0	0	0	0	2
	8:00 AM	0	0	1	0	2	0	0	0	0	0	0	0	3
	8:15 AM	0	1	0	0	0	0	0	0	0	0	0	0	1
	8:30 AM	0	0	0	0	1	0	0	0	0	1	0	0	2
	8:45 AM	0	1	0	0	0	0	0	0	0	0	0	0	1
	VOLUMES	0	3	2	0	6	0	0	0	0	2	0	1	14
	APPROACH %	0%	60%	40%	0%	100%	0%	0%	0%	0%	67%	0%	33%	
	APP/DEPART	5	/	4	6	/	8	0	/	2	3	/	0	0
	BEGIN PEAK HR		7:00 AM											
	VOLUMES	0	1	1	0	3	0	0	0	0	1	0	1	7
	APPROACH %	0%	50%	50%	0%	100%	0%	0%	0%	0%	50%	0%	50%	
	PEAK HR FACTOR		0.500			0.375			0.000			0.500		0.583
	APP/DEPART	2	/	2	3	/	4	0	/	1	2	/	0	0
PM	4:00 PM	0	0	0	0	1	0	0	0	0	0	0	1	2
	4:15 PM	0	0	1	0	0	0	0	0	0	0	0	0	1
	4:30 PM	0	0	0	0	0	0	0	0	0	1	0	0	1
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	1	0	0	0	0	0	0	0	0	0	1
	5:30 PM	0	0	0	0	0	0	0	0	0	1	0	0	1
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	2	0	1	0	0	0	0	2	0	1	6
	APPROACH %	0%	0%	100%	0%	100%	0%	0%	0%	0%	67%	0%	33%	
	APP/DEPART	2	/	1	1	/	3	0	/	2	3	/	0	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	0	0	1	0	1	0	0	0	0	1	0	1	4
	APPROACH %	0%	0%	100%	0%	100%	0%	0%	0%	0%	50%	0%	50%	
	PEAK HR FACTOR		0.250			0.250			0.000			0.500		0.500
	APP/DEPART	1	/	1	1	/	2	0	/	1	2	/	0	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
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0	0	0	0	0
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0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR	SRR	ERR	WRR
X	X	X	X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

T020624

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: Tue, Apr 2, 24	LOCATION:	Apple Valley	PROJECT #: SC4523
	NORTH & SOUTH:	Stoddard Wells Rd	LOCATION #: 4
	EAST & WEST:	Johnson Rd	CONTROL: STOP W

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND Stoddard Wells Rd			SOUTHBOUND Stoddard Wells Rd			EASTBOUND Johnson Rd			WESTBOUND Johnson Rd			
	LANES:	NL X	NT 1	NR 1	SL 1	ST 1	SR X	EL X	ET X	ER X	WL 0	WT X	WR 0	TOTAL
AM	7:00 AM	0	8	12	1	4	0	0	0	0	11	0	0	36
	7:15 AM	0	5	14	0	4	0	0	0	0	7	0	0	30
	7:30 AM	0	5	23	0	3	0	0	0	0	11	0	0	42
	7:45 AM	0	3	18	0	9	0	0	0	0	21	0	0	51
	8:00 AM	0	5	17	0	4	0	0	0	0	10	0	0	36
	8:15 AM	0	5	17	0	7	0	0	0	0	9	0	0	38
	8:30 AM	0	2	23	1	1	0	0	0	0	12	0	0	39
	8:45 AM	0	2	20	0	11	0	0	0	0	7	0	0	40
	VOLUMES	0	35	144	2	43	0	0	0	0	88	0	0	312
	APPROACH %	0%	20%	80%	4%	96%	0%	0%	0%	0%	100%	0%	0%	
	APP/DEPART	179	/	35	45	/	131	0	/	146	88	/	0	0
	BEGIN PEAK HR		7:30 AM											
	VOLUMES	0	18	75	0	23	0	0	0	0	51	0	0	167
	APPROACH %	0%	19%	81%	0%	100%	0%	0%	0%	0%	100%	0%	0%	
	PEAK HR FACTOR		0.830			0.639			0.000			0.607		0.819
	APP/DEPART	93	/	18	23	/	74	0	/	75	51	/	0	0
PM	4:00 PM	0	1	41	2	7	0	0	0	0	81	0	0	132
	4:15 PM	0	6	76	0	6	0	0	0	0	27	0	1	116
	4:30 PM	0	2	26	0	5	0	0	0	0	23	0	0	56
	4:45 PM	0	2	20	0	6	0	0	0	0	22	0	2	52
	5:00 PM	0	3	20	0	1	0	0	0	0	10	0	0	34
	5:15 PM	0	2	18	0	2	0	0	0	0	12	0	0	34
	5:30 PM	0	2	21	0	4	0	0	0	0	37	0	0	64
	5:45 PM	0	1	22	1	3	0	0	0	0	9	0	0	36
	VOLUMES	0	19	244	3	34	0	0	0	0	221	0	3	524
	APPROACH %	0%	7%	93%	8%	92%	0%	0%	0%	0%	99%	0%	1%	
	APP/DEPART	263	/	22	37	/	255	0	/	247	224	/	0	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	0	11	163	2	24	0	0	0	0	153	0	3	356
	APPROACH %	0%	6%	94%	8%	92%	0%	0%	0%	0%	98%	0%	2%	
	PEAK HR FACTOR		0.530			0.722			0.000			0.481		0.674
	APP/DEPART	174	/	14	26	/	177	0	/	165	156	/	0	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	

RTOR

NRR X	SRR X	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

Stoddard Wells Rd

NORTH LEG

Johnson Rd WEST LEG — EAST LEG **Johnson Rd**

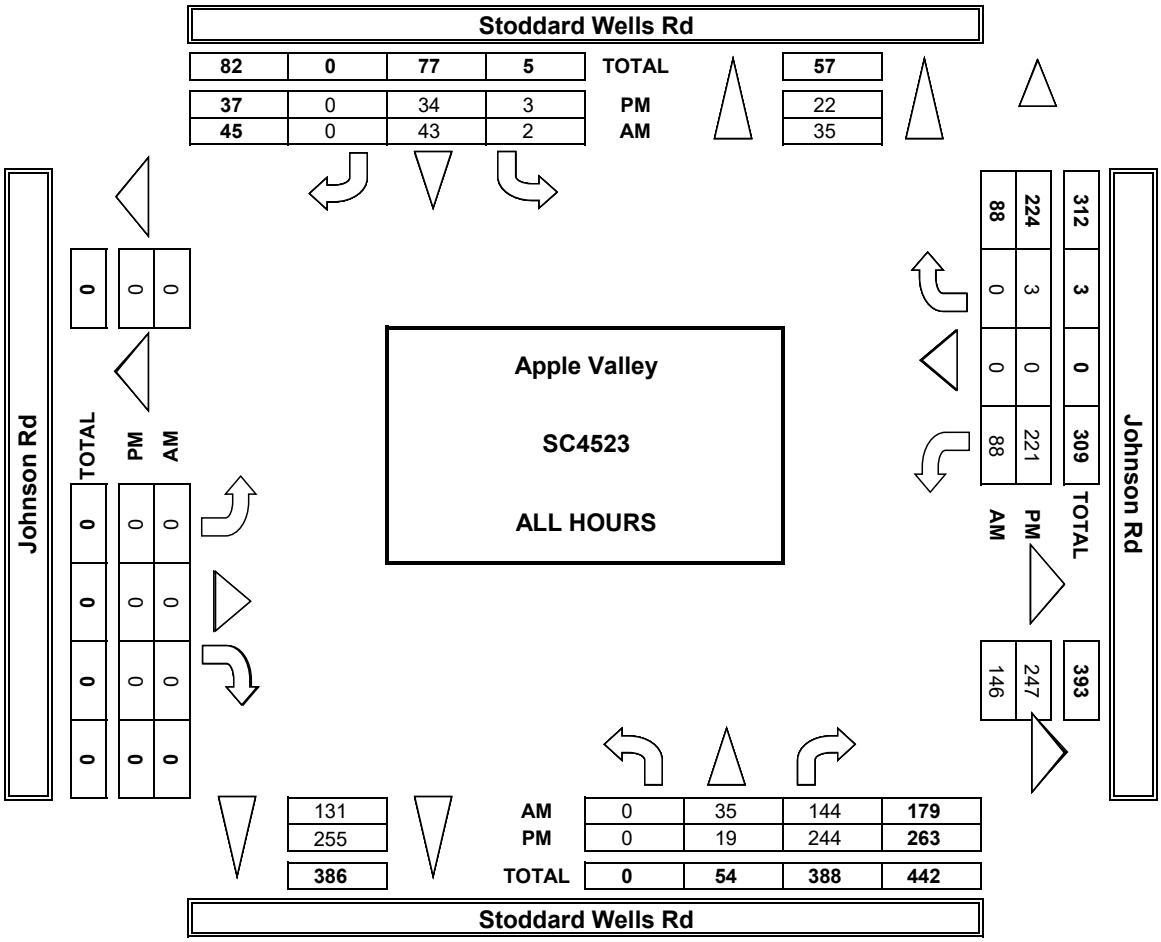
SOUTH LEG

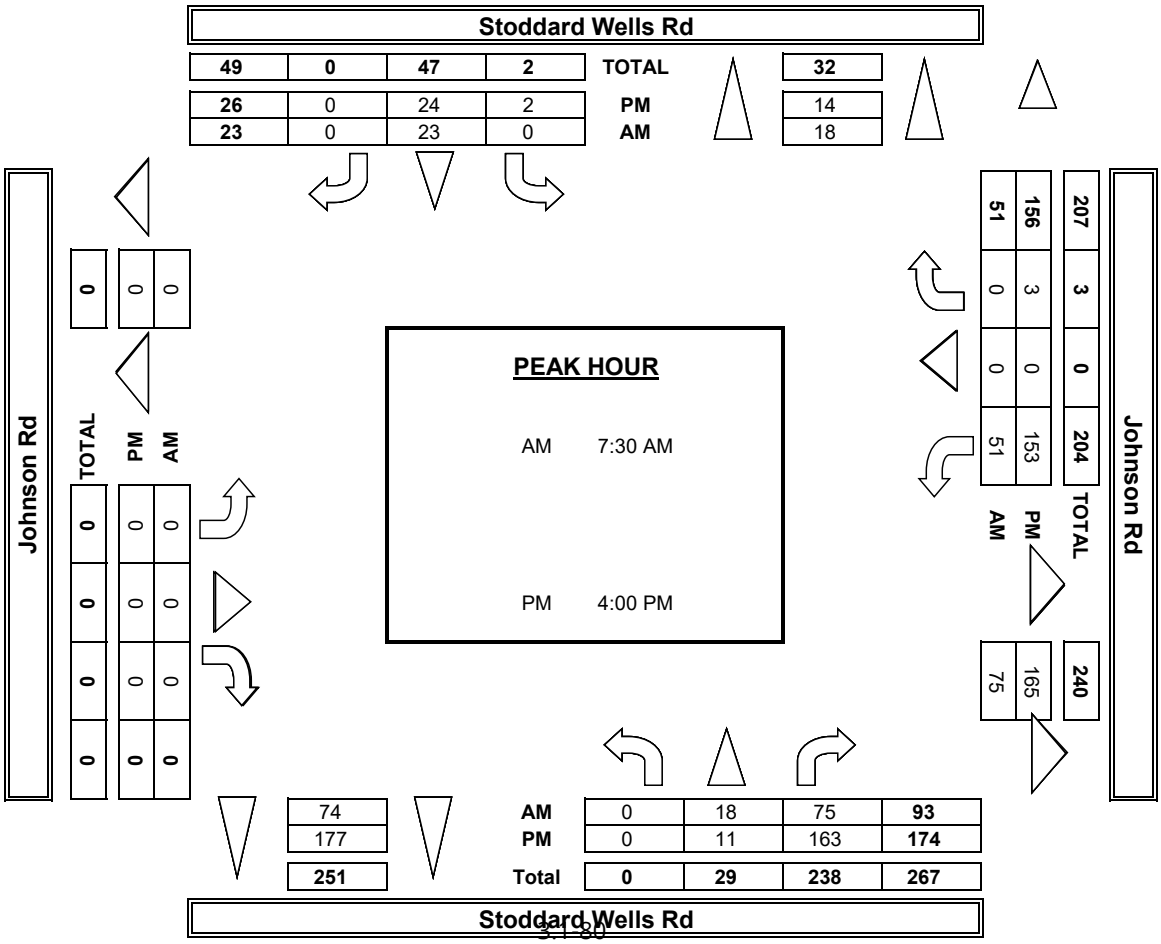
Stoddard Wells Rd

		ALL PED + BIKE & SCOOTER					PEDESTRIAN CROSSINGS					BICYCLE & SCOOTER CROSSINGS				
		E LEG	W LEG	S LEG	N LEG	TOTAL	E LEG	W LEG	S LEG	N LEG	TOTAL	EL	WL	SL	NL	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

AimTD LLC

TURNING MOVEMENT COUNTS





INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: 4/2/24 TUESDAY	LOCATION:	Apple Valley	PROJECT #: SC4523
	NORTH & SOUTH:	Stoddard Wells Rd	LOCATION #: 4
	EAST & WEST:	Johnson Rd	CONTROL: STOP W

NOTES:

PCE Adjusted									
Class	1	2	3	4	5	6			
Factor	1	1.5	2	3	2	2			

AM / PM / MD / OTHER / OTHER

▲ N ◄ W E ► S ▼

	NORTHBOUND Stoddard Wells Rd			SOUTHBOUND Stoddard Wells Rd			EASTBOUND Johnson Rd			WESTBOUND Johnson Rd				U-TURNS				
LANES:	NL X	NT 1	NR 1	SL 1	ST 1	SR X	EL X	ET X	ER X	WL 0	WT X	WR 0	TOTAL	NB	SB	EB	WB	TTL
7:00 AM	0	10	17	1	4	0	0	0	0	21	0	0	53					0
7:15 AM	0	6	20	0	6	0	0	0	0	12	0	0	43					0
7:30 AM	0	6	30	0	5	0	0	0	0	22	0	0	63					0
7:45 AM	0	3	19	0	24	0	0	0	0	41	0	0	86					0
8:00 AM	0	10	29	0	10	0	0	0	0	14	0	0	63					0
8:15 AM	0	9	27	0	13	0	0	0	0	16	0	0	65					0
8:30 AM	0	3	38	1	1	0	0	0	0	20	0	0	62					0
8:45 AM	0	4	27	0	16	0	0	0	0	16	0	0	62					0
AM VOLUMES	0	51	206	2	78	0	0	0	0	160	0	0	496	0	0	0	0	0
AM APPROACH %	0%	20%	80%	3%	98%	0%	0%	0%	0%	100%	0%	0%						
AM APP/DEPART	257	/	51	80	/	238	0	/	208	160	/	0	0					
AM BEGIN PEAK HR	7:30 AM																	
AM VOLUMES	0	28	105	0	52	0	0	0	0	92	0	0	276					
AM APPROACH %	0%	21%	79%	0%	100%	0%	0%	0%	0%	100%	0%	0%						
AM PEAK HR FACTOR	0.849			0.548			0.000			0.568			0.802					
AM APP/DEPART	133	/	28	52	/	144	0	/	105	92	/	0	0					
4:00 PM	0	1	46	2	7	0	0	0	0	87	0	0	142					0
4:15 PM	0	6	96	0	8	0	0	0	0	32	0	1	143					0
4:30 PM	0	3	30	0	5	0	0	0	0	30	0	0	67					0
4:45 PM	0	2	30	0	6	0	0	0	0	35	0	2	75					0
5:00 PM	0	3	28	0	3	0	0	0	0	14	0	0	48					0
5:15 PM	0	4	24	0	2	0	0	0	0	20	0	0	50					0
5:30 PM	0	2	26	0	5	0	0	0	0	43	0	0	76					0
5:45 PM	0	1	29	1	3	0	0	0	0	11	0	0	45					0
PM VOLUMES	0	22	308	3	39	0	0	0	0	271	0	3	644	0	0	0	0	0
PM APPROACH %	0%	7%	93%	7%	93%	0%	0%	0%	0%	99%	0%	1%						
PM APP/DEPART	329	/	25	42	/	309	0	/	311	274	/	0	0					
PM BEGIN PEAK HR	4:00 PM																	
PM VOLUMES	0	12	201	2	26	0	0	0	0	183	0	3	426					
PM APPROACH %	0%	5%	95%	7%	93%	0%	0%	0%	0%	98%	0%	2%						
PM PEAK HR FACTOR	0.521			0.778			0.000			0.536			0.747					
PM APP/DEPART	213	/	15	28	/	209	0	/	203	186	/	0	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Apple Valley	PROJECT #:	SC4523
4/2/24	NORTH & SOUTH:	Stoddard Wells Rd	LOCATION #:	4
TUESDAY	EAST & WEST:	Johnson Rd	CONTROL:	STOP W

CLASS 1: PASSENGER VEHICLES

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

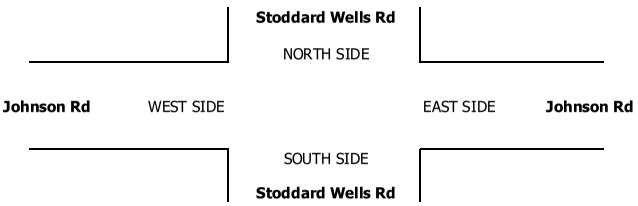
		NORTHBOUND Stoddard Wells Rd			SOUTHBOUND Stoddard Wells Rd			EASTBOUND Johnson Rd			WESTBOUND Johnson Rd			
	LANES:	NL X	NT 1	NR 1	SL 1	ST 1	SR X	EL X	ET X	ER X	WL 0	WT X	WR 0	TOTAL
AM	7:00 AM	0	7	9	1	4	0	0	0	0	6	0	0	27
	7:15 AM	0	3	10	0	3	0	0	0	0	4	0	0	20
	7:30 AM	0	3	19	0	2	0	0	0	0	5	0	0	29
	7:45 AM	0	3	17	0	1	0	0	0	0	9	0	0	30
	8:00 AM	0	1	8	0	1	0	0	0	0	6	0	0	16
	8:15 AM	0	3	10	0	4	0	0	0	0	5	0	0	22
	8:30 AM	0	1	14	1	1	0	0	0	0	7	0	0	24
	8:45 AM	0	1	14	0	8	0	0	0	0	2	0	0	25
	VOLUMES	0	22	101	2	24	0	0	0	0	44	0	0	193
	APPROACH %	0%	18%	82%	8%	92%	0%	0%	0%	0%	100%	0%	0%	
	APP/DEPART	123	/	22	26	/	68	0	/	103	44	/	0	0
	BEGIN PEAK HR		7:30 AM											
	VOLUMES	0	10	54	0	8	0	0	0	0	25	0	0	97
	APPROACH %	0%	16%	84%	0%	100%	0%	0%	0%	0%	100%	0%	0%	
	PEAK HR FACTOR		0.727			0.500			0.000			0.694		0.808
	APP/DEPART	64	/	10	8	/	33	0	/	54	25	/	0	0
PM	4:00 PM	0	1	37	2	7	0	0	0	0	77	0	0	124
	4:15 PM	0	6	66	0	5	0	0	0	0	24	0	1	102
	4:30 PM	0	1	23	0	5	0	0	0	0	19	0	0	48
	4:45 PM	0	2	15	0	6	0	0	0	0	13	0	2	38
	5:00 PM	0	3	14	0	0	0	0	0	0	8	0	0	25
	5:15 PM	0	1	15	0	2	0	0	0	0	7	0	0	25
	5:30 PM	0	2	18	0	3	0	0	0	0	34	0	0	57
	5:45 PM	0	1	18	1	3	0	0	0	0	8	0	0	31
	VOLUMES	0	17	206	3	31	0	0	0	0	190	0	3	450
	APPROACH %	0%	8%	92%	9%	91%	0%	0%	0%	0%	98%	0%	2%	
	APP/DEPART	223	/	20	34	/	221	0	/	209	193	/	0	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	0	10	141	2	23	0	0	0	0	133	0	3	312
	APPROACH %	0%	7%	93%	8%	92%	0%	0%	0%	0%	98%	0%	2%	
	PEAK HR FACTOR		0.524			0.694			0.000			0.442		0.629
	APP/DEPART	151	/	13	25	/	156	0	/	143	136	/	0	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR X	SRR X	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Apple Valley	PROJECT #:	SC4523
4/2/24	NORTH & SOUTH:	Stoddard Wells Rd	LOCATION #:	4
TUESDAY	EAST & WEST:	Johnson Rd	CONTROL:	STOP W

CLASS 2: 2-AXLE WORK VEHICLES/ TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND Stoddard Wells Rd			SOUTHBOUND Stoddard Wells Rd			EASTBOUND Johnson Rd			WESTBOUND Johnson Rd			
	LANES:	NL X	NT 1	NR 1	SL 1	ST 1	SR X	EL X	ET X	ER X	WL 0	WT X	WR 0	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	2	1	0	0	0	0	0	0	1	0	0	4
	7:30 AM	0	2	1	0	0	0	0	0	0	0	0	0	3
	7:45 AM	0	0	0	0	1	0	0	0	0	3	0	0	4
	8:00 AM	0	2	2	0	0	0	0	0	0	2	0	0	6
	8:15 AM	0	0	0	0	0	0	0	0	0	1	0	0	1
	8:30 AM	0	0	1	0	0	0	0	0	0	1	0	0	2
	8:45 AM	0	0	0	0	1	0	0	0	0	1	0	0	2
	VOLUMES	0	6	5	0	2	0	0	0	0	9	0	0	22
	APPROACH %	0%	55%	45%	0%	100%	0%	0%	0%	0%	100%	0%	0%	
	APP/DEPART	11	/	6	2	/	11	0	/	5	9	/	0	0
	BEGIN PEAK HR		7:30 AM											
	VOLUMES	0	4	3	0	1	0	0	0	0	6	0	0	14
	APPROACH %	0%	57%	43%	0%	100%	0%	0%	0%	0%	100%	0%	0%	
	PEAK HR FACTOR		0.438			0.250			0.000			0.500		0.583
	APP/DEPART	7	/	4	1	/	7	0	/	3	6	/	0	0
PM	4:00 PM	0	0	1	0	0	0	0	0	0	1	0	0	2
	4:15 PM	0	0	0	0	0	0	0	0	0	1	0	0	1
	4:30 PM	0	1	1	0	0	0	0	0	0	0	0	0	2
	4:45 PM	0	0	0	0	0	0	0	0	0	1	0	0	1
	5:00 PM	0	0	2	0	0	0	0	0	0	0	0	0	2
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	1	0	0	0	0	0	0	0	1
	5:45 PM	0	0	1	0	0	0	0	0	0	0	0	0	1
	VOLUMES	0	1	5	0	1	0	0	0	0	3	0	0	10
	APPROACH %	0%	17%	83%	0%	100%	0%	0%	0%	0%	100%	0%	0%	
	APP/DEPART	6	/	1	1	/	4	0	/	5	3	/	0	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	0	1	2	0	0	0	0	0	0	3	0	0	6
	APPROACH %	0%	33%	67%	0%	0%	0%	0%	0%	0%	100%	0%	0%	
	PEAK HR FACTOR		0.375			0.000			0.000			0.750		0.750
	APP/DEPART	3	/	1	0	/	3	0	/	2	3	/	0	0

U-TURNS NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	
0	0	0	0	0

RTOR NRR X	SRR X	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	
0	0	0	0

Stoddard Wells Rd

NORTH SIDE

Johnson Rd WEST SIDE EAST SIDE **Johnson Rd**

SOUTH SIDE

Stoddard Wells Rd

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Apple Valley	PROJECT #:	SC4523
4/2/24	NORTH & SOUTH:	Stoddard Wells Rd	LOCATION #:	4
TUESDAY	EAST & WEST:	Johnson Rd	CONTROL:	STOP W

CLASS 3: 3-AXLE TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND Stoddard Wells Rd			SOUTHBOUND Stoddard Wells Rd			EASTBOUND Johnson Rd			WESTBOUND Johnson Rd			
	LANES:	NL X	NT 1	NR 1	SL 1	ST 1	SR X	EL X	ET X	ER X	WL 0	WT X	WR 0	TOTAL
AM	7:00 AM	0	0	1	0	0	0	0	0	0	0	0	0	1
	7:15 AM	0	0	1	0	0	0	0	0	0	0	0	0	1
	7:30 AM	0	0	0	0	0	0	0	0	0	1	0	0	1
	7:45 AM	0	0	1	0	0	0	0	0	0	0	0	0	1
	8:00 AM	0	0	3	0	0	0	0	0	0	1	0	0	4
	8:15 AM	0	0	4	0	0	0	0	0	0	0	0	0	4
	8:30 AM	0	1	2	0	0	0	0	0	0	1	0	0	4
	8:45 AM	0	0	5	0	0	0	0	0	0	0	0	0	5
	VOLUMES	0	1	17	0	0	0	0	0	0	3	0	0	21
	APPROACH %	0%	6%	94%	0%	0%	0%	0%	0%	0%	100%	0%	0%	
	APP/DEPART	18	/	1	0	/	3	0	/	17	3	/	0	0
	BEGIN PEAK HR		7:30 AM											
	VOLUMES	0	0	8	0	0	0	0	0	0	2	0	0	10
	APPROACH %	0%	0%	100%	0%	0%	0%	0%	0%	0%	100%	0%	0%	
	PEAK HR FACTOR		0.500			0.000			0.000			0.500		0.625
	APP/DEPART	8	/	0	0	/	2	0	/	8	2	/	0	0
PM	4:00 PM	0	0	2	0	0	0	0	0	0	1	0	0	3
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	1	0	0	0	0	0	0	1	0	0	2
	4:45 PM	0	0	0	0	0	0	0	0	0	4	0	0	4
	5:00 PM	0	0	1	0	0	0	0	0	0	0	0	0	1
	5:15 PM	0	0	0	0	0	0	0	0	0	2	0	0	2
	5:30 PM	0	0	1	0	0	0	0	0	0	0	0	0	1
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	5	0	0	0	0	0	0	8	0	0	13
	APPROACH %	0%	0%	100%	0%	0%	0%	0%	0%	0%	100%	0%	0%	
	APP/DEPART	5	/	0	0	/	8	0	/	5	8	/	0	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	0	0	3	0	0	0	0	0	0	6	0	0	9
	APPROACH %	0%	0%	100%	0%	0%	0%	0%	0%	0%	100%	0%	0%	
	PEAK HR FACTOR		0.375			0.000			0.000			0.375		0.563
	APP/DEPART	3	/	0	0	/	6	0	/	3	6	/	0	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR X	SRR X	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

Stoddard Wells Rd

NORTH SIDE

Johnson Rd WEST SIDE EAST SIDE **Johnson Rd**

SOUTH SIDE

Stoddard Wells Rd

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Apple Valley	PROJECT #:	SC4523
4/2/24	NORTH & SOUTH:	Stoddard Wells Rd	LOCATION #:	4
TUESDAY	EAST & WEST:	Johnson Rd	CONTROL:	STOP W

CLASS 4: 4 OR MORE AXLE TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND Stoddard Wells Rd			SOUTHBOUND Stoddard Wells Rd			EASTBOUND Johnson Rd			WESTBOUND Johnson Rd			
	LANES:	NL X	NT 1	NR 1	SL 1	ST 1	SR X	EL X	ET X	ER X	WL 0	WT X	WR 0	TOTAL
AM	7:00 AM	0	1	2	0	0	0	0	0	0	5	0	0	8
	7:15 AM	0	0	2	0	1	0	0	0	0	2	0	0	5
	7:30 AM	0	0	3	0	1	0	0	0	0	5	0	0	9
	7:45 AM	0	0	0	0	7	0	0	0	0	9	0	0	16
	8:00 AM	0	2	4	0	3	0	0	0	0	1	0	0	10
	8:15 AM	0	2	3	0	3	0	0	0	0	3	0	0	11
	8:30 AM	0	0	6	0	0	0	0	0	0	3	0	0	9
	8:45 AM	0	1	1	0	2	0	0	0	0	4	0	0	8
	VOLUMES	0	6	21	0	17	0	0	0	0	32	0	0	76
	APPROACH %	0%	22%	78%	0%	100%	0%	0%	0%	0%	100%	0%	0%	
	APP/DEPART	27	/	6	17	/	49	0	/	21	32	/	0	0
	BEGIN PEAK HR		7:30 AM											
	VOLUMES	0	4	10	0	14	0	0	0	0	18	0	0	46
	APPROACH %	0%	29%	71%	0%	100%	0%	0%	0%	0%	100%	0%	0%	
	PEAK HR FACTOR		0.583			0.500			0.000			0.500		0.719
	APP/DEPART	14	/	4	14	/	32	0	/	10	18	/	0	0
PM	4:00 PM	0	0	1	0	0	0	0	0	0	2	0	0	3
	4:15 PM	0	0	10	0	1	0	0	0	0	2	0	0	13
	4:30 PM	0	0	1	0	0	0	0	0	0	3	0	0	4
	4:45 PM	0	0	5	0	0	0	0	0	0	4	0	0	9
	5:00 PM	0	0	3	0	1	0	0	0	0	2	0	0	6
	5:15 PM	0	1	3	0	0	0	0	0	0	3	0	0	7
	5:30 PM	0	0	2	0	0	0	0	0	0	3	0	0	5
	5:45 PM	0	0	3	0	0	0	0	0	0	1	0	0	4
	VOLUMES	0	1	28	0	2	0	0	0	0	20	0	0	51
	APPROACH %	0%	3%	97%	0%	100%	0%	0%	0%	0%	100%	0%	0%	
	APP/DEPART	29	/	1	2	/	22	0	/	28	20	/	0	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	0	0	17	0	1	0	0	0	0	11	0	0	29
	APPROACH %	0%	0%	100%	0%	100%	0%	0%	0%	0%	100%	0%	0%	
	PEAK HR FACTOR		0.425			0.250			0.000			0.688		0.558
	APP/DEPART	17	/	0	1	/	12	0	/	17	11	/	0	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR X	SRR X	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
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0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

Stoddard Wells Rd

NORTH SIDE

Johnson Rd WEST SIDE EAST SIDE **Johnson Rd**

SOUTH SIDE

Stoddard Wells Rd

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Apple Valley	PROJECT #:	SC4523
4/2/24	NORTH & SOUTH:	Stoddard Wells Rd	LOCATION #:	4
TUESDAY	EAST & WEST:	Johnson Rd	CONTROL:	STOP W

CLASS 5: RV

NOTES:

AM PM MD OTHER OTHER

▲ N ◄ W E ► S ▼

		NORTHBOUND Stoddard Wells Rd			SOUTHBOUND Stoddard Wells Rd			EASTBOUND Johnson Rd			WESTBOUND Johnson Rd			
		NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
	LANES:	X	1	1	1	1	X	X	X	X	0	X	0	
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
	BEGIN PEAK HR		7:30 AM											
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0

U-TURNS

	NB	SB	EB	WB	TTL
7:00 AM	0	0	0	0	0
7:15 AM	0	0	0	0	0
7:30 AM	0	0	0	0	0
7:45 AM	0	0	0	0	0
8:00 AM	0	0	0	0	0
8:15 AM	0	0	0	0	0
8:30 AM	0	0	0	0	0
8:45 AM	0	0	0	0	0
VOLUMES	0	0	0	0	0
PEAK HR VOLUMES	0	0	0	0	
4:00 PM	0	0	0	0	0
4:15 PM	0	0	0	0	0
4:30 PM	0	0	0	0	0
4:45 PM	0	0	0	0	0
5:00 PM	0	0	0	0	0
5:15 PM	0	0	0	0	0
5:30 PM	0	0	0	0	0
5:45 PM	0	0	0	0	0
VOLUMES	0	0	0	0	0
PEAK HR VOLUMES	0	0	0	0	

RTOR

	NRR	SRR	ERR	WRR
LANES	X	X	X	X
7:00 AM	0	0	0	0
7:15 AM	0	0	0	0
7:30 AM	0	0	0	0
7:45 AM	0	0	0	0
8:00 AM	0	0	0	0
8:15 AM	0	0	0	0
8:30 AM	0	0	0	0
8:45 AM	0	0	0	0
VOLUMES	0	0	0	0
PEAK HR VOLUMES	0	0	0	0
4:00 PM	0	0	0	0
4:15 PM	0	0	0	0
4:30 PM	0	0	0	0
4:45 PM	0	0	0	0
5:00 PM	0	0	0	0
5:15 PM	0	0	0	0
5:30 PM	0	0	0	0
5:45 PM	0	0	0	0
VOLUMES	0	0	0	0
PEAK HR VOLUMES	0	0	0	0

Stoddard Wells Rd

NORTH SIDE

Johnson Rd WEST SIDE

EAST SIDE **Johnson Rd**

SOUTH SIDE

Stoddard Wells Rd

INTERSECTION TURNING MOVEMENT COUNTS

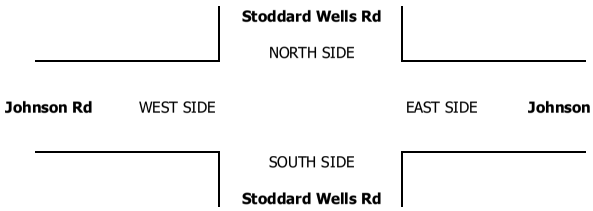
PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Apple Valley	PROJECT #:	SC4523
4/2/24	NORTH & SOUTH:	Stoddard Wells Rd	LOCATION #:	4
TUESDAY	EAST & WEST:	Johnson Rd	CONTROL:	STOP W

CLASS 6:	NOTES:
BUSES	

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND Stoddard Wells Rd			SOUTHBOUND Stoddard Wells Rd			EASTBOUND Johnson Rd			WESTBOUND Johnson Rd				U-TURNS					RTOR			
	LANES:	NL X	NT 1	NR 1	SL 1	ST 1	SR X	EL X	ET X	ER X	WL 0	WT X	WR 0	TOTAL	NB	SB	EB	WB	TTL	NRR X	SRR X	ERR X	WRR X
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%										
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0									
	BEGIN PEAK HR		7:30 AM																				
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%										
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000									
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0									
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%										
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0									
	BEGIN PEAK HR		4:00 PM																				
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%										
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000									
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0									



INTERSECTION TURNING MOVEMENT COUNTS

T020624

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: Tue, Apr 2, 24	LOCATION:	Apple Valley	PROJECT #: SC4523
	NORTH & SOUTH:	I-15 NB Ramps	LOCATION #: 3
	EAST & WEST:	Stoddard Wells Rd	CONTROL: STOP N/S

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND I-15 NB Ramps			SOUTHBOUND I-15 NB Ramps			EASTBOUND Stoddard Wells Rd			WESTBOUND Stoddard Wells Rd			
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
AM	7:00 AM	0	4	0	18	0	4	0	0	5	0	13	0	44
	7:15 AM	0	12	2	17	1	3	0	1	1	0	12	0	49
	7:30 AM	1	4	0	28	0	3	2	0	9	1	13	0	61
	7:45 AM	1	7	2	16	0	5	1	1	2	2	26	0	63
	8:00 AM	1	10	0	21	0	4	1	2	7	0	17	0	63
	8:15 AM	0	9	1	21	0	3	2	1	1	2	13	0	53
	8:30 AM	0	5	2	21	0	3	1	2	6	0	13	0	53
	8:45 AM	1	3	0	22	1	1	0	1	12	4	15	1	61
	VOLUMES	4	54	7	164	2	26	7	8	43	9	122	1	448
	APPROACH %	6%	83%	11%	85%	1%	13%	12%	14%	74%	7%	92%	1%	
	APP/DEPART	65	/	63	193	/	54	58	/	179	132	/	152	0
	BEGIN PEAK HR		7:30 AM											
	VOLUMES	3	30	3	86	0	15	6	4	19	5	69	0	241
	APPROACH %	8%	83%	8%	84%	0%	15%	21%	14%	66%	7%	93%	0%	
	PEAK HR FACTOR		0.818			0.823			0.659			0.661		0.956
	APP/DEPART	36	/	37	102	/	24	29	/	93	74	/	87	0
PM	4:00 PM	0	7	4	49	0	4	1	1	6	4	86	0	162
	4:15 PM	2	4	3	65	0	6	2	3	10	2	37	0	134
	4:30 PM	0	6	1	26	0	2	0	4	11	0	26	0	76
	4:45 PM	0	4	2	16	0	2	0	2	13	0	31	0	70
	5:00 PM	0	9	2	21	0	2	2	3	13	0	11	0	63
	5:15 PM	0	3	0	12	1	0	0	0	7	1	13	0	37
	5:30 PM	1	2	0	27	0	2	0	0	9	1	39	0	81
	5:45 PM	0	1	3	22	0	0	1	1	11	1	13	0	53
	VOLUMES	3	36	15	238	1	18	6	14	80	9	256	0	676
	APPROACH %	6%	67%	28%	93%	0%	7%	6%	14%	80%	3%	97%	0%	
	APP/DEPART	54	/	42	257	/	90	100	/	267	265	/	277	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	2	21	10	156	0	14	3	10	40	6	180	0	442
	APPROACH %	6%	64%	30%	92%	0%	8%	6%	19%	75%	3%	97%	0%	
	PEAK HR FACTOR		0.750			0.599			0.883			0.517		0.682
	APP/DEPART	33	/	24	170	/	46	53	/	176	186	/	196	0

U-TURNS

NB 0	SB 0	EB 0	WB 0	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	1	0	0	1
0	0	0	0	0
0	1	0	0	1
0	1	0	0	
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR X	SRR X	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
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0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

I-15 NB Ramps

NORTH LEG

Stoddard Wells Rd WEST LEG EAST LEG **Stoddard Wells Rd**

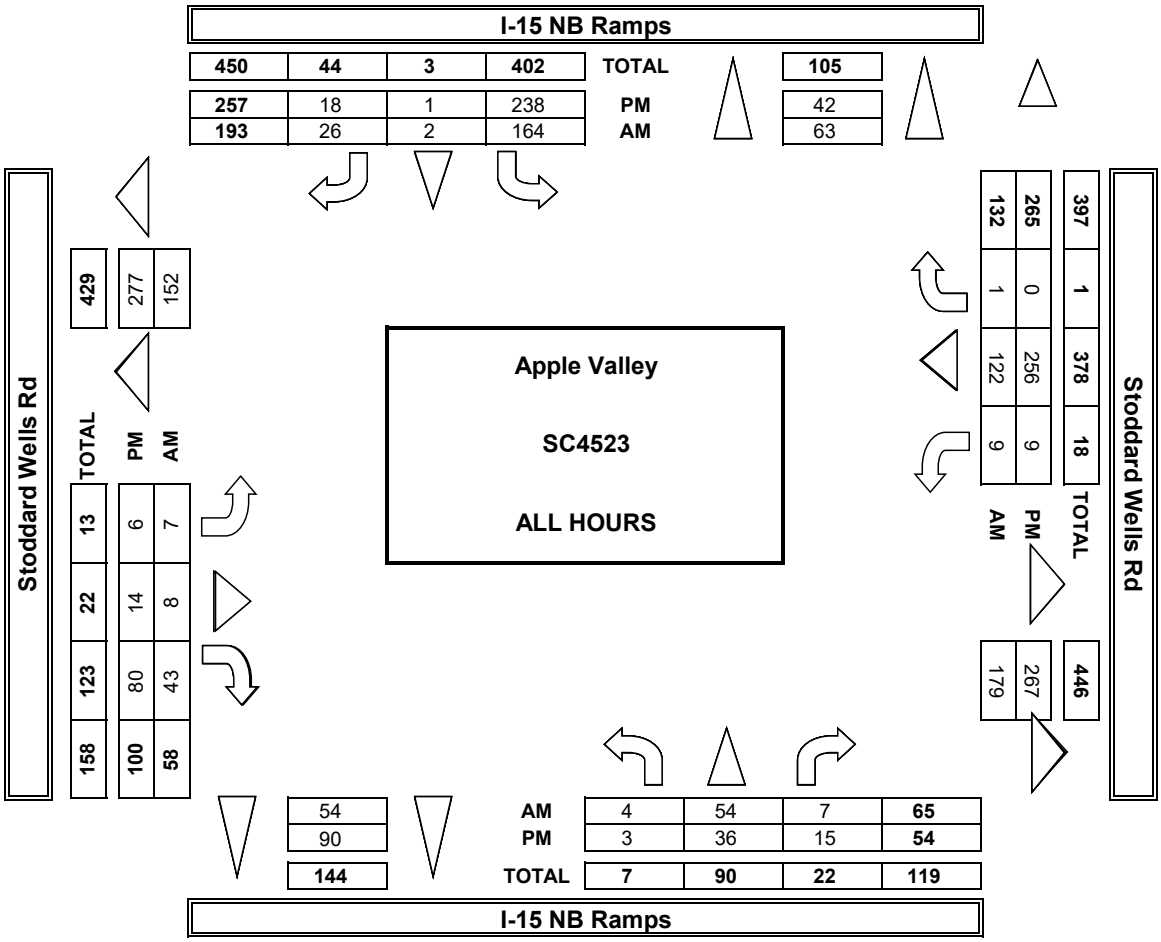
SOUTH LEG

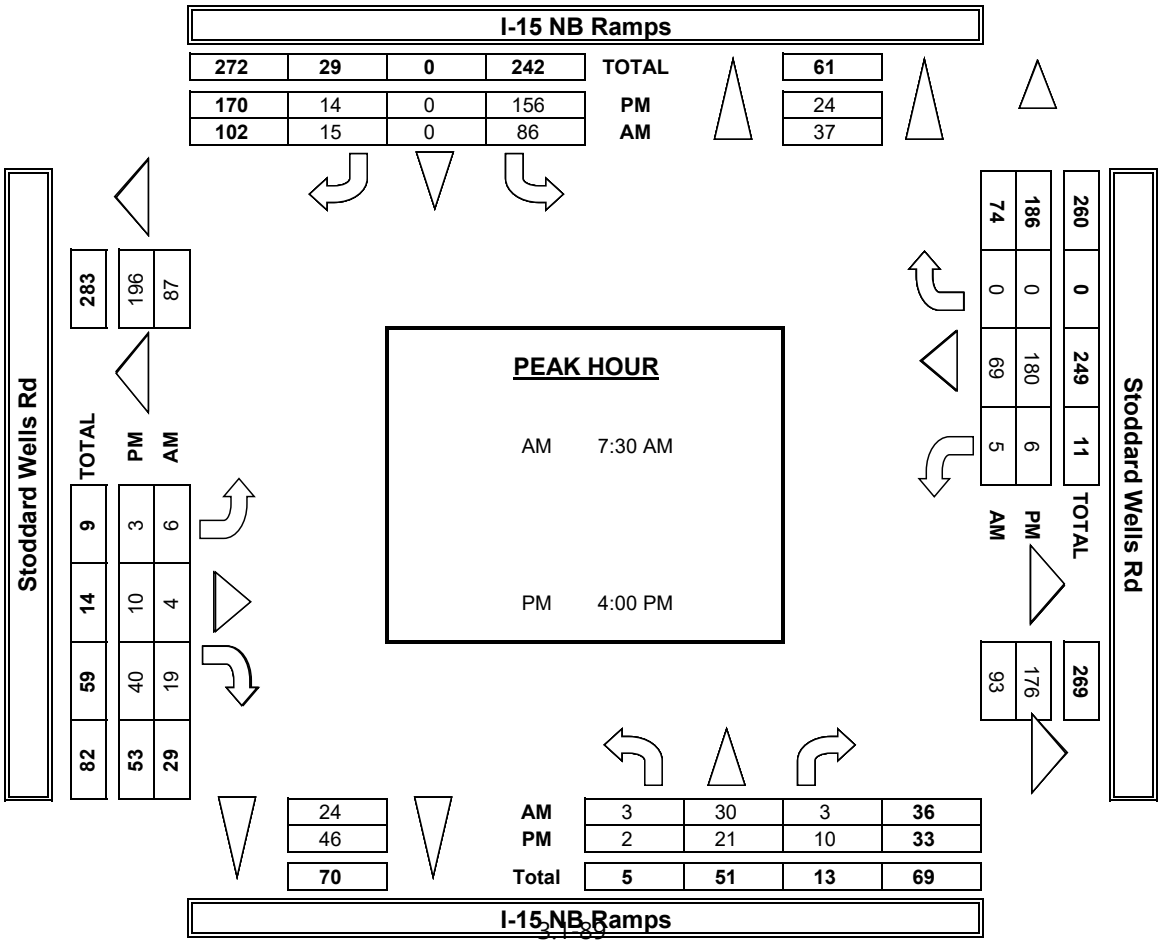
I-15 NB Ramps

	ALL PED + BIKE & SCOOTER					PEDESTRIAN CROSSINGS					BICYCLE & SCOOTER CROSSINGS				
		E LEG	W LEG	S LEG	N LEG	TOTAL	E LEG	W LEG	S LEG	N LEG	TOTAL	EL	WL	SL	NL	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

AimTD LLC

TURNING MOVEMENT COUNTS





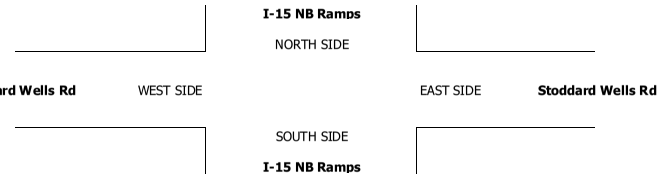
INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: 4/2/24 TUESDAY	LOCATION:	Apple Valley	PROJECT #:	SC4523
	NORTH & SOUTH:	I-15 NB Ramps	LOCATION #:	3
	EAST & WEST:	Stoddard Wells Rd	CONTROL:	STOP N/S

	NOTES:												
PCE Adjusted	Class	1	2	3	4	5	6			AM		▲ N	
	Factor	1	1.5	2	3	2	2			PM	◄ W		E ►
										MD			
										OTHER		S ▼	
										OTHER			

		NORTHBOUND I-15 NB Ramps			SOUTHBOUND I-15 NB Ramps			EASTBOUND Stoddard Wells Rd			WESTBOUND Stoddard Wells Rd				U-TURNS				
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	5	0	24	0	5	0	0	6	0	22	0	61					0
	7:15 AM	0	14	2	24	1	4	0	3	2	0	19	0	68					0
	7:30 AM	1	4	0	33	0	3	2	0	10	1	26	0	79					0
	7:45 AM	3	7	2	22	0	8	1	2	3	2	54	0	103					0
	8:00 AM	3	10	0	33	0	7	1	3	11	0	28	0	96					0
	8:15 AM	0	9	1	33	0	4	4	3	1	3	24	0	81					0
	8:30 AM	0	9	2	35	0	5	1	3	8	0	21	0	83					0
	8:45 AM	1	3	0	31	1	2	0	1	13	4	27	1	83					0
	VOLUMES	8	61	7	234	2	38	9	15	52	10	218	1	654	0	0	0	0	0
	APPROACH %	11%	80%	9%	86%	1%	14%	12%	20%	68%	4%	95%	0%						
	APP/DEPART	76	/	71	273	/	64	76	/	256	229	/	264	0					
	BEGIN PEAK HR		7:30 AM																
	VOLUMES	7	30	3	121	0	22	8	8	25	6	131	0	359					
	APPROACH %	18%	75%	8%	85%	0%	15%	20%	20%	60%	4%	96%	0%						
	PEAK HR FACTOR		0.769			0.888			0.675			0.615		0.871					
	APP/DEPART	40	/	38	142	/	30	41	/	132	137	/	160	0					
PM	4:00 PM	0	7	4	56	0	5	1	1	6	4	91	0	174					0
	4:15 PM	4	6	3	82	0	7	4	6	11	4	45	0	171					0
	4:30 PM	0	8	1	31	0	3	0	5	11	0	34	0	92					0
	4:45 PM	0	4	2	21	0	5	0	5	16	0	44	0	95					0
	5:00 PM	0	11	2	35	0	2	3	3	14	0	16	0	85					0
	5:15 PM	0	3	0	14	1	0	0	0	7	1	23	0	49					0
	5:30 PM	1	2	0	35	0	5	0	0	9	1	46	0	98					0
	5:45 PM	0	1	3	26	0	0	1	1	11	1	15	0	59					0
	VOLUMES	5	42	15	298	1	25	9	20	84	11	313	0	822	0	0	0	0	0
	APPROACH %	8%	68%	24%	92%	0%	8%	8%	17%	75%	3%	97%	0%						
	APP/DEPART	62	/	51	324	/	96	112	/	333	324	/	343	0					
	BEGIN PEAK HR		4:00 PM																
	VOLUMES	4	25	10	189	0	19	5	16	44	8	213	0	531					
	APPROACH %	10%	64%	26%	91%	0%	9%	8%	24%	68%	4%	96%	0%						
	PEAK HR FACTOR		0.750			0.586			0.780			0.583		0.763					
	APP/DEPART	39	/	30	208	/	52	64	/	215	221	/	235	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Apple Valley	PROJECT #:	SC4523
4/2/24	NORTH & SOUTH:	I-15 NB Ramps	LOCATION #:	3
TUESDAY	EAST & WEST:	Stoddard Wells Rd	CONTROL:	STOP N/S

CLASS 1: PASSENGER VEHICLES

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

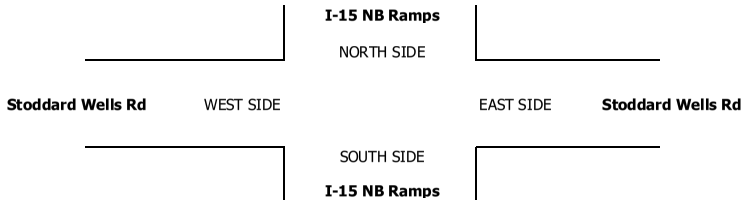
	NORTHBOUND (I-15 NB Ramps)			SOUTHBOUND (I-15 NB Ramps)			EASTBOUND (Stoddard Wells Rd)			WESTBOUND (Stoddard Wells Rd)			
LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
AM													
7:00 AM	0	3	0	14	0	3	0	0	4	0	8	0	32
7:15 AM	0	11	2	11	1	2	0	0	0	0	8	0	35
7:30 AM	1	4	0	25	0	3	2	0	8	1	6	0	50
7:45 AM	0	7	2	13	0	3	1	0	1	2	11	0	40
8:00 AM	0	10	0	11	0	1	1	0	5	0	9	0	37
8:15 AM	0	9	1	13	0	1	1	0	1	1	7	0	34
8:30 AM	0	3	2	12	0	2	1	1	5	0	8	0	34
8:45 AM	1	3	0	14	1	0	0	1	11	4	8	1	44
VOLUMES	2	50	7	113	2	15	6	2	35	8	65	1	306
APPROACH %	3%	85%	12%	87%	2%	12%	14%	5%	81%	11%	88%	1%	
APP/DEPART	59	/	57	130	/	45	43	/	122	74	/	82	0
BEGIN PEAK HR		7:30 AM											
VOLUMES	1	30	3	62	0	8	5	0	15	4	33	0	161
APPROACH %	3%	88%	9%	89%	0%	11%	25%	0%	75%	11%	89%	0%	
PEAK HR FACTOR		0.850			0.625			0.500			0.712		0.805
APP/DEPART	34	/	35	70	/	19	20	/	65	37	/	42	0
PM													
4:00 PM	0	7	4	43	0	3	1	1	6	4	83	0	152
4:15 PM	1	3	3	56	0	4	1	1	9	1	32	0	111
4:30 PM	0	5	1	23	0	1	0	3	11	0	21	0	65
4:45 PM	0	4	2	13	0	0	0	0	10	0	22	0	51
5:00 PM	0	8	2	13	0	2	1	3	12	0	8	0	49
5:15 PM	0	3	0	11	1	0	0	0	7	1	7	0	30
5:30 PM	1	2	0	22	0	0	0	0	9	1	34	0	69
5:45 PM	0	1	3	20	0	0	1	1	11	1	12	0	50
VOLUMES	2	33	15	201	1	10	4	9	75	8	219	0	577
APPROACH %	4%	66%	30%	95%	0%	5%	5%	10%	85%	4%	96%	0%	
APP/DEPART	50	/	37	212	/	84	88	/	225	227	/	231	0
BEGIN PEAK HR		4:00 PM											
VOLUMES	1	19	10	135	0	8	2	5	36	5	158	0	379
APPROACH %	3%	63%	33%	94%	0%	6%	5%	12%	84%	3%	97%	0%	
PEAK HR FACTOR		0.682			0.596			0.768			0.468		0.623
APP/DEPART	30	/	21	143	/	41	43	/	150	163	/	167	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
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0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR	SRR	ERR	WRR
X	X	X	X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Apple Valley	PROJECT #:	SC4523
4/2/24	NORTH & SOUTH:	I-15 NB Ramps	LOCATION #:	3
TUESDAY	EAST & WEST:	Stoddard Wells Rd	CONTROL:	STOP N/S

CLASS 2: 2-AXLE WORK VEHICLES/ TRUCKS

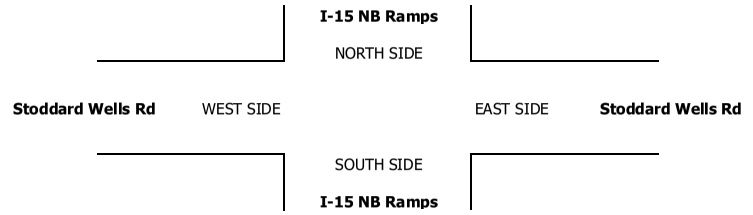
NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

	NORTHBOUND I-15 NB Ramps			SOUTHBOUND I-15 NB Ramps			EASTBOUND Stoddard Wells Rd			WESTBOUND Stoddard Wells Rd			
LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
7:00 AM	0	0	0	1	0	0	0	0	1	0	1	0	3
7:15 AM	0	0	0	2	0	0	0	0	1	0	1	0	4
7:30 AM	0	0	0	1	0	0	0	0	1	0	0	0	2
7:45 AM	0	0	0	0	0	1	0	0	0	0	1	0	2
8:00 AM	0	0	0	2	0	2	0	2	0	0	2	0	8
8:15 AM	0	0	0	0	0	2	0	0	0	1	1	0	4
8:30 AM	0	0	0	1	0	0	0	0	0	0	1	0	2
8:45 AM	0	0	0	2	0	0	0	0	1	0	1	0	4
VOLUMES	0	0	0	9	0	5	0	2	4	1	8	0	29
APPROACH %	0%	0%	0%	64%	0%	36%	0%	33%	67%	11%	89%	0%	
APP/DEPART	0	/	0	14	/	5	6	/	11	9	/	13	0
BEGIN PEAK HR	7:30 AM												
VOLUMES	0	0	0	3	0	5	0	2	1	1	4	0	16
APPROACH %	0%	0%	0%	38%	0%	63%	0%	67%	33%	20%	80%	0%	
PEAK HR FACTOR	0.000			0.500			0.375			0.625			0.500
APP/DEPART	0	/	0	8	/	2	3	/	5	5	/	9	0
4:00 PM	0	0	0	2	0	1	0	0	0	0	1	0	4
4:15 PM	0	0	0	1	0	2	0	1	1	0	0	0	5
4:30 PM	0	0	0	0	0	1	0	1	0	0	1	0	3
4:45 PM	0	0	0	1	0	1	0	1	2	0	1	0	6
5:00 PM	0	0	0	1	0	0	1	0	1	0	0	0	3
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	1	0	1	0	0	0	0	2	0	4
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
VOLUMES	0	0	0	6	0	6	1	3	4	0	5	0	25
APPROACH %	0%	0%	0%	50%	0%	50%	13%	38%	50%	0%	100%	0%	
APP/DEPART	0	/	1	12	/	4	8	/	9	5	/	11	0
BEGIN PEAK HR	4:00 PM												
VOLUMES	0	0	0	4	0	5	0	3	3	0	3	0	18
APPROACH %	0%	0%	0%	44%	0%	56%	0%	50%	50%	0%	100%	0%	
PEAK HR FACTOR	0.000			0.750			0.500			0.750			0.750
APP/DEPART	0	/	0	9	/	3	6	/	7	3	/	8	0

U-TURNS NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	
0	0	0	0	
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	
0	0	0	0	

RTOR NRR X	SRR X	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
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0	0	0	0
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0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Apple Valley	PROJECT #:	SC4523
4/2/24	NORTH & SOUTH:	I-15 NB Ramps	LOCATION #:	3
TUESDAY	EAST & WEST:	Stoddard Wells Rd	CONTROL:	STOP N/S

CLASS 3: 3-AXLE TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND I-15 NB Ramps			SOUTHBOUND I-15 NB Ramps			EASTBOUND Stoddard Wells Rd			WESTBOUND Stoddard Wells Rd			
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
AM	7:00 AM	0	1	0	1	0	1	0	0	0	0	0	0	3
	7:15 AM	0	0	0	2	0	1	0	0	0	0	0	0	3
	7:30 AM	0	0	0	0	0	0	0	0	0	0	1	0	1
	7:45 AM	0	0	0	0	0	0	0	1	1	0	1	0	3
	8:00 AM	0	0	0	5	0	0	0	0	0	0	2	0	7
	8:15 AM	0	0	0	4	0	0	0	0	0	0	0	0	4
	8:30 AM	0	0	0	3	0	0	0	1	0	0	1	0	5
	8:45 AM	0	0	0	4	0	1	0	0	0	0	1	0	6
	VOLUMES	0	1	0	19	0	3	0	2	1	0	6	0	32
	APPROACH %	0%	100%	0%	86%	0%	14%	0%	67%	33%	0%	100%	0%	
	APP/DEPART	1	/	1	22	/	1	3	/	21	6	/	9	0
	BEGIN PEAK HR		7:30 AM											
	VOLUMES	0	0	0	9	0	0	0	1	1	0	4	0	15
	APPROACH %	0%	0%	0%	100%	0%	0%	0%	50%	50%	0%	100%	0%	
	PEAK HR FACTOR		0.000			0.450			0.250			0.500		0.536
	APP/DEPART	0	/	0	9	/	1	2	/	10	4	/	4	0
PM	4:00 PM	0	0	0	2	0	0	0	0	0	0	0	0	2
	4:15 PM	0	0	0	0	0	0	0	0	0	0	2	0	2
	4:30 PM	0	0	0	1	0	0	0	0	0	0	1	0	2
	4:45 PM	0	0	0	0	0	0	0	0	0	0	4	0	4
	5:00 PM	0	0	0	1	0	0	0	0	0	0	1	0	2
	5:15 PM	0	0	0	0	0	0	0	0	0	0	2	0	2
	5:30 PM	0	0	0	1	0	0	0	0	0	0	0	0	1
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	5	0	0	0	0	0	0	10	0	15
	APPROACH %	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	100%	0%	
	APP/DEPART	0	/	0	5	/	0	0	/	5	10	/	10	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	0	0	0	3	0	0	0	0	0	0	7	0	10
	APPROACH %	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	100%	0%	
	PEAK HR FACTOR		0.000			0.375			0.000			0.438		0.625
	APP/DEPART	0	/	0	3	/	0	0	/	3	7	/	7	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	
0	0	0	0	
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	
0	0	0	0	

RTOR

NRR X	SRR X	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	
0	0	0	
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	
0	0	0	

I-15 NB Ramps

NORTH SIDE

Stoddard Wells Rd WEST SIDE EAST SIDE **Stoddard Wells Rd**

SOUTH SIDE

I-15 NB Ramps

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Apple Valley	PROJECT #:	SC4523
4/2/24	NORTH & SOUTH:	I-15 NB Ramps	LOCATION #:	3
TUESDAY	EAST & WEST:	Stoddard Wells Rd	CONTROL:	STOP N/S

CLASS 4: 4 OR MORE AXLE TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

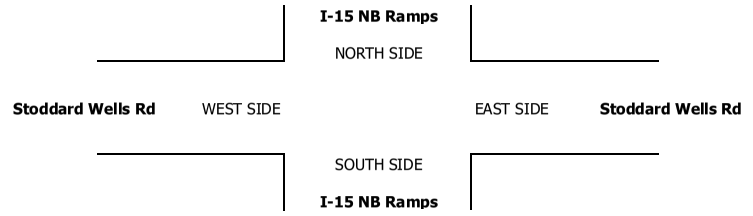
		NORTHBOUND I-15 NB Ramps			SOUTHBOUND I-15 NB Ramps			EASTBOUND Stoddard Wells Rd			WESTBOUND Stoddard Wells Rd			
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
AM	7:00 AM	0	0	0	2	0	0	0	0	0	0	4	0	6
	7:15 AM	0	1	0	2	0	0	0	1	0	0	3	0	7
	7:30 AM	0	0	0	2	0	0	0	0	0	0	6	0	8
	7:45 AM	1	0	0	3	0	1	0	0	0	0	13	0	18
	8:00 AM	1	0	0	3	0	1	0	0	2	0	4	0	11
	8:15 AM	0	0	0	4	0	0	1	1	0	0	5	0	11
	8:30 AM	0	2	0	5	0	1	0	0	1	0	3	0	12
	8:45 AM	0	0	0	2	0	0	0	0	0	0	5	0	7
	VOLUMES	2	3	0	23	0	3	1	2	3	0	43	0	81
	APPROACH %	40%	60%	0%	85%	0%	11%	17%	33%	50%	0%	100%	0%	
	APP/DEPART	5	/	5	27	/	3	6	/	25	43	/	48	0
	BEGIN PEAK HR		7:30 AM											
	VOLUMES	2	0	0	12	0	2	1	1	2	0	28	0	49
	APPROACH %	100%	0%	0%	80%	0%	13%	25%	25%	50%	0%	100%	0%	
	PEAK HR FACTOR		0.500			0.750			0.500			0.538		0.681
	APP/DEPART	2	/	2	15	/	2	4	/	13	28	/	32	0
PM	4:00 PM	0	0	0	2	0	0	0	0	0	0	2	0	4
	4:15 PM	1	1	0	8	0	0	1	1	0	1	3	0	16
	4:30 PM	0	1	0	2	0	0	0	0	0	0	3	0	6
	4:45 PM	0	0	0	2	0	1	0	1	1	0	4	0	9
	5:00 PM	0	1	0	6	0	0	0	0	0	0	2	0	9
	5:15 PM	0	0	0	1	0	0	0	0	0	0	4	0	5
	5:30 PM	0	0	0	3	0	1	0	0	0	0	3	0	7
	5:45 PM	0	0	0	2	0	0	0	0	0	0	1	0	3
	VOLUMES	1	3	0	26	0	2	1	2	1	1	22	0	59
	APPROACH %	25%	75%	0%	93%	0%	7%	25%	50%	25%	4%	96%	0%	
	APP/DEPART	4	/	4	28	/	2	4	/	28	23	/	25	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	1	2	0	14	0	1	1	2	1	1	12	0	35
	APPROACH %	33%	67%	0%	93%	0%	7%	25%	50%	25%	8%	92%	0%	
	PEAK HR FACTOR		0.375			0.469			0.500			0.813		0.547
	APP/DEPART	3	/	3	15	/	2	4	/	16	13	/	14	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	1	0	0	1
0	0	0	0	0
0	0	0	0	0
0	1	0	0	1
0	1	0	0	
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	

RTOR

NRR X	SRR X	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
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0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Apple Valley	PROJECT #:	SC4523
4/2/24	NORTH & SOUTH:	I-15 NB Ramps	LOCATION #:	3
TUESDAY	EAST & WEST:	Stoddard Wells Rd	CONTROL:	STOP N/S

CLASS 5: RV

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND I-15 NB Ramps			SOUTHBOUND I-15 NB Ramps			EASTBOUND Stoddard Wells Rd			WESTBOUND Stoddard Wells Rd			
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
	BEGIN PEAK HR		7:30 AM											
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
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0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR X	SRR X	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
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0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

I-15 NB Ramps

NORTH SIDE

Stoddard Wells Rd WEST SIDE EAST SIDE **Stoddard Wells Rd**

SOUTH SIDE

I-15 NB Ramps

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Apple Valley	PROJECT #:	SC4523
4/2/24	NORTH & SOUTH:	I-15 NB Ramps	LOCATION #:	3
TUESDAY	EAST & WEST:	Stoddard Wells Rd	CONTROL:	STOP N/S

CLASS 6:	NOTES:
BUSES	

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

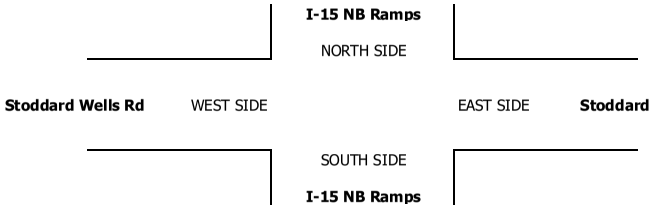
	NORTHBOUND I-15 NB Ramps			SOUTHBOUND I-15 NB Ramps			EASTBOUND Stoddard Wells Rd			WESTBOUND Stoddard Wells Rd			
LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
AM VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
AM APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
AM APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
BEGIN PEAK HR		7:30 AM											
PEAK VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
PEAK APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000
PEAK APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
PM VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
PM APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
PM APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
BEGIN PEAK HR		4:00 PM											
PEAK VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
PEAK APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000
PEAK APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR X	SRR X	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

T020624

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: Tue, Apr 2, 24	LOCATION:	Apple Valley	PROJECT #: SC4523
	NORTH & SOUTH:	Quarry Rd	LOCATION #: 2
	EAST & WEST:	Stoddard Wells Rd	CONTROL: STOP S

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND Quarry Rd			SOUTHBOUND Quarry Rd			EASTBOUND Stoddard Wells Rd			WESTBOUND Stoddard Wells Rd			
	LANES:	NL X	NT X	NR X	SL 0	ST X	SR 0	EL 0	ET 1	ER X	WL X	WT 1	WR 1	TOTAL
AM	7:00 AM	0	0	0	4	0	0	0	0	0	0	3	13	20
	7:15 AM	0	0	0	1	0	1	0	1	0	0	6	11	20
	7:30 AM	0	0	0	8	0	0	1	3	0	0	4	12	28
	7:45 AM	0	0	0	2	0	0	0	2	0	0	12	18	34
	8:00 AM	0	0	0	8	0	1	0	2	0	0	6	18	35
	8:15 AM	0	0	0	1	0	0	0	3	0	0	4	11	19
	8:30 AM	0	0	0	6	0	0	2	3	0	0	1	14	26
	8:45 AM	0	0	0	12	0	1	2	1	0	0	6	13	35
	VOLUMES	0	0	0	42	0	3	5	15	0	0	42	110	217
	APPROACH %	0%	0%	0%	93%	0%	7%	25%	75%	0%	0%	28%	72%	
	APP/DEPART	0	/	115	45	/	0	20	/	57	152	/	45	0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	0	0	0	19	0	2	1	8	0	0	28	59	117
	APPROACH %	0%	0%	0%	90%	0%	10%	11%	89%	0%	0%	32%	68%	
	PEAK HR FACTOR		0.000			0.583			0.563			0.725		0.836
	APP/DEPART	0	/	60	21	/	0	9	/	27	87	/	30	0
PM	4:00 PM	0	0	0	9	0	0	0	3	0	0	2	96	110
	4:15 PM	0	0	0	10	0	1	2	4	0	0	5	36	58
	4:30 PM	0	0	0	10	0	1	1	3	0	0	6	19	40
	4:45 PM	0	0	0	13	0	0	2	2	0	0	4	28	49
	5:00 PM	0	0	0	13	0	0	6	4	0	0	3	11	37
	5:15 PM	0	0	0	6	0	2	3	1	0	0	0	13	25
	5:30 PM	0	0	0	10	0	1	1	1	0	0	1	39	53
	5:45 PM	0	0	0	11	0	1	0	2	0	0	1	14	29
	VOLUMES	0	0	0	82	0	6	15	20	0	0	22	256	401
	APPROACH %	0%	0%	0%	93%	0%	7%	43%	57%	0%	0%	8%	92%	
	APP/DEPART	0	/	271	88	/	0	35	/	102	278	/	28	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	0	0	0	42	0	2	5	12	0	0	17	179	257
	APPROACH %	0%	0%	0%	95%	0%	5%	29%	71%	0%	0%	9%	91%	
	PEAK HR FACTOR		0.000			0.846			0.708			0.500		0.584
	APP/DEPART	0	/	184	44	/	0	17	/	54	196	/	19	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	

RTOR

NRR X	SRR X	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

Quarry Rd

NORTH LEG

Stoddard Wells Rd WEST LEG EAST LEG **Stoddard Wells Rd**

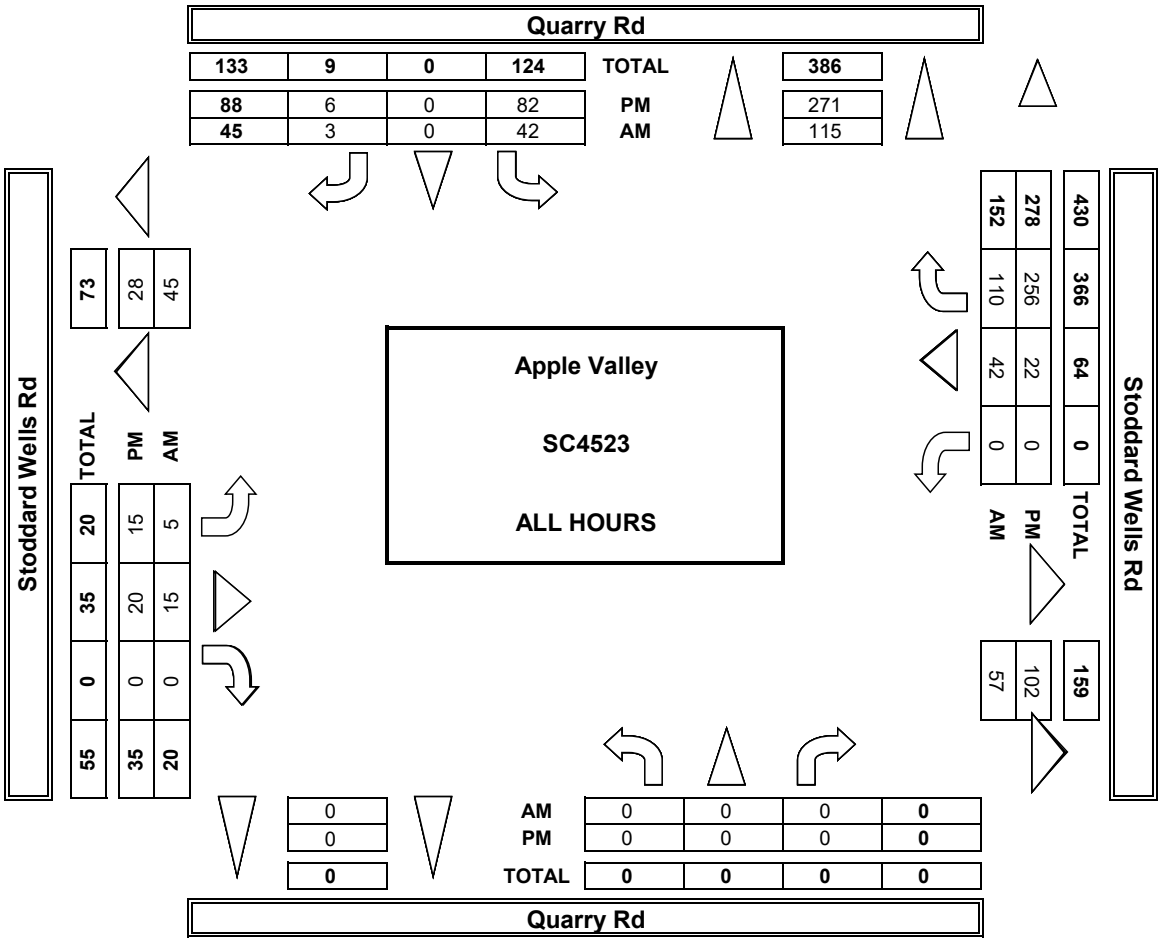
SOUTH LEG

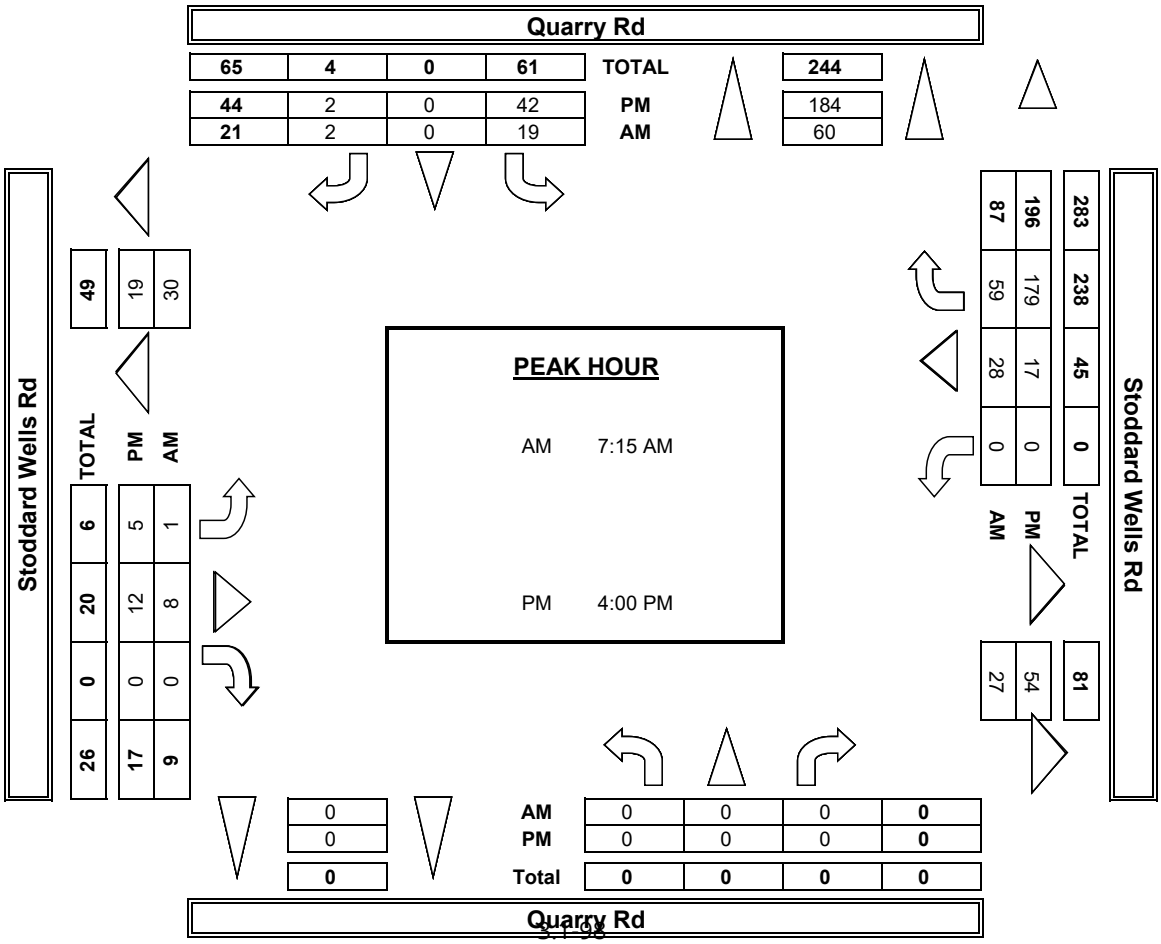
Quarry Rd

		ALL PED + BIKE & SCOOTER					PEDESTRIAN CROSSINGS					BICYCLE & SCOOTER CROSSINGS				
		E LEG	W LEG	S LEG	N LEG	TOTAL	E LEG	W LEG	S LEG	N LEG	TOTAL	EL	WL	SL	NL	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

AimTD LLC

TURNING MOVEMENT COUNTS





INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: 4/2/24 TUESDAY	LOCATION:	Apple Valley	PROJECT #:	SC4523
	NORTH & SOUTH:	Quarry Rd	LOCATION #:	2
	EAST & WEST:	Stoddard Wells Rd	CONTROL:	STOP S

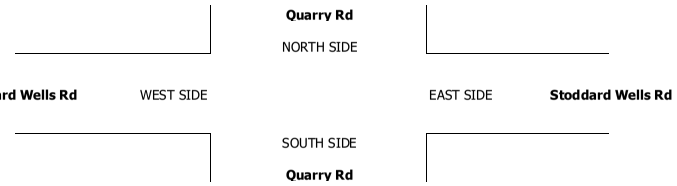
NOTES:

PCE Adjusted									
Class	1	2	3	4	5	6			
Factor	1	1.5	2	3	2	2			

AM PM MD OTHER OTHER

▲ N ◄ W E ► S ▼

		NORTHBOUND Quarry Rd			SOUTHBOUND Quarry Rd			EASTBOUND Stoddard Wells Rd			WESTBOUND Stoddard Wells Rd				U-TURNS				
	LANES:	NL X	NT X	NR X	SL 0	ST X	SR 0	EL 0	ET 1	ER X	WL X	WT 1	WR 1	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	0	0	5	0	0	0	0	0	0	5	22	32					0
	7:15 AM	0	0	0	2	0	1	0	3	0	0	7	19	31					0
	7:30 AM	0	0	0	8	0	0	1	4	0	0	7	22	42					0
	7:45 AM	0	0	0	3	0	0	0	3	0	0	22	37	65					0
	8:00 AM	0	0	0	12	0	1	0	3	0	0	9	32	57					0
	8:15 AM	0	0	0	1	0	0	0	7	0	0	5	20	33					0
	8:30 AM	0	0	0	6	0	0	3	6	0	0	1	24	39					0
	8:45 AM	0	0	0	13	0	1	3	1	0	0	10	24	51					0
	VOLUMES	0	0	0	49	0	3	6	27	0	0	65	199	348	0	0	0	0	0
	APPROACH %	0%	0%	0%	94%	0%	6%	18%	82%	0%	0%	25%	75%						
	APP/DEPART	0	/	205	52	/	0	33	/	75	264	/	68	0					
	BEGIN PEAK HR		7:15 AM																
	VOLUMES	0	0	0	25	0	2	1	13	0	0	45	110	194					
	APPROACH %	0%	0%	0%	92%	0%	8%	7%	93%	0%	0%	29%	71%						
	PEAK HR FACTOR		0.000			0.510			0.750			0.658		0.752					
	APP/DEPART	0	/	111	27	/	0	14	/	37	154	/	47	0					
PM	4:00 PM	0	0	0	9	0	0	0	4	0	0	5	99	116					0
	4:15 PM	0	0	0	10	0	1	2	9	0	0	9	43	74					0
	4:30 PM	0	0	0	10	0	1	1	4	0	0	10	24	49					0
	4:45 PM	0	0	0	14	0	0	3	6	0	0	8	39	69					0
	5:00 PM	0	0	0	14	0	0	6	5	0	0	3	16	43					0
	5:15 PM	0	0	0	6	0	2	3	1	0	0	0	23	35					0
	5:30 PM	0	0	0	10	0	3	1	1	0	0	1	49	65					0
	5:45 PM	0	0	0	11	0	1	0	2	0	0	1	16	31					0
	VOLUMES	0	0	0	84	0	8	16	31	0	0	36	308	481	0	0	0	0	0
	APPROACH %	0%	0%	0%	91%	0%	9%	34%	66%	0%	0%	10%	90%						
	APP/DEPART	0	/	324	92	/	0	46	/	114	344	/	44	0					
	BEGIN PEAK HR		4:00 PM																
	VOLUMES	0	0	0	43	0	2	6	22	0	0	31	205	308					
	APPROACH %	0%	0%	0%	96%	0%	4%	20%	80%	0%	0%	13%	87%						
	PEAK HR FACTOR		0.000			0.804			0.625			0.568		0.663					
	APP/DEPART	0	/	210	45	/	0	28	/	65	235	/	33	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Apple Valley	PROJECT #:	SC4523
4/2/24	NORTH & SOUTH:	Quarry Rd	LOCATION #:	2
TUESDAY	EAST & WEST:	Stoddard Wells Rd	CONTROL:	STOP S

CLASS 1: PASSENGER VEHICLES

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND Quarry Rd			SOUTHBOUND Quarry Rd			EASTBOUND Stoddard Wells Rd			WESTBOUND Stoddard Wells Rd			
	LANES:	NL X	NT X	NR X	SL 0	ST X	SR 0	EL 0	ET 1	ER X	WL X	WT 1	WR 1	TOTAL
AM	7:00 AM	0	0	0	3	0	0	0	0	0	0	2	8	13
	7:15 AM	0	0	0	0	0	1	0	0	0	0	4	6	11
	7:30 AM	0	0	0	8	0	0	1	2	0	0	2	7	20
	7:45 AM	0	0	0	1	0	0	0	1	0	0	5	8	15
	8:00 AM	0	0	0	6	0	1	0	0	0	0	4	9	20
	8:15 AM	0	0	0	1	0	0	0	1	0	0	2	6	10
	8:30 AM	0	0	0	6	0	0	1	1	0	0	1	8	17
	8:45 AM	0	0	0	11	0	1	1	1	0	0	3	7	24
	VOLUMES	0	0	0	36	0	3	3	6	0	0	23	59	130
	APPROACH %	0%	0%	0%	92%	0%	8%	33%	67%	0%	0%	28%	72%	
	APP/DEPART	0	/	62	39	/	0	9	/	42	82	/	26	0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	0	0	0	15	0	2	1	3	0	0	15	30	66
	APPROACH %	0%	0%	0%	88%	0%	12%	25%	75%	0%	0%	33%	67%	
	PEAK HR FACTOR		0.000			0.531			0.333			0.865		0.825
	APP/DEPART	0	/	31	17	/	0	4	/	18	45	/	17	0
PM	4:00 PM	0	0	0	9	0	0	0	2	0	0	0	93	104
	4:15 PM	0	0	0	10	0	1	2	0	0	0	2	32	47
	4:30 PM	0	0	0	10	0	1	1	2	0	0	2	16	32
	4:45 PM	0	0	0	11	0	0	1	0	0	0	1	21	34
	5:00 PM	0	0	0	12	0	0	6	3	0	0	3	8	32
	5:15 PM	0	0	0	6	0	2	3	1	0	0	0	7	19
	5:30 PM	0	0	0	10	0	0	1	1	0	0	1	32	45
	5:45 PM	0	0	0	11	0	1	0	2	0	0	1	13	28
	VOLUMES	0	0	0	79	0	5	14	11	0	0	10	222	341
	APPROACH %	0%	0%	0%	94%	0%	6%	56%	44%	0%	0%	4%	96%	
	APP/DEPART	0	/	236	84	/	0	25	/	90	232	/	15	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	0	0	0	40	0	2	4	4	0	0	5	162	217
	APPROACH %	0%	0%	0%	95%	0%	5%	50%	50%	0%	0%	3%	97%	
	PEAK HR FACTOR		0.000			0.955			0.667			0.449		0.522
	APP/DEPART	0	/	166	42	/	0	8	/	44	167	/	7	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR X	SRR X	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

Quarry Rd

NORTH SIDE

Stoddard Wells Rd WEST SIDE EAST SIDE **Stoddard Wells Rd**

SOUTH SIDE

Quarry Rd

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Apple Valley	PROJECT #:	SC4523
4/2/24	NORTH & SOUTH:	Quarry Rd	LOCATION #:	2
TUESDAY	EAST & WEST:	Stoddard Wells Rd	CONTROL:	STOP S

CLASS 2: 2-AXLE WORK VEHICLES/ TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND Quarry Rd			SOUTHBOUND Quarry Rd			EASTBOUND Stoddard Wells Rd			WESTBOUND Stoddard Wells Rd			
	LANES:	NL X	NT X	NR X	SL 0	ST X	SR 0	EL 0	ET 1	ER X	WL X	WT 1	WR 1	TOTAL
AM	7:00 AM	0	0	0	1	0	0	0	0	0	0	0	0	1
	7:15 AM	0	0	0	1	0	0	0	0	0	0	2	1	4
	7:30 AM	0	0	0	0	0	0	0	1	0	0	0	0	1
	7:45 AM	0	0	0	0	0	0	0	0	0	0	3	0	3
	8:00 AM	0	0	0	0	0	0	0	2	0	0	0	2	4
	8:15 AM	0	0	0	0	0	0	0	0	0	0	2	1	3
	8:30 AM	0	0	0	0	0	0	1	0	0	0	0	1	2
	8:45 AM	0	0	0	1	0	0	1	0	0	0	1	0	3
	VOLUMES	0	0	0	3	0	0	2	3	0	0	8	5	21
	APPROACH %	0%	0%	0%	100%	0%	0%	40%	60%	0%	0%	62%	38%	
	APP/DEPART	0	/	7	3	/	0	5	/	6	13	/	8	0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	0	0	0	1	0	0	0	3	0	0	5	3	12
	APPROACH %	0%	0%	0%	100%	0%	0%	0%	100%	0%	0%	63%	38%	
	PEAK HR FACTOR		0.000			0.250			0.375			0.667		0.750
	APP/DEPART	0	/	3	1	/	0	3	/	4	8	/	5	0
PM	4:00 PM	0	0	0	0	0	0	0	1	0	0	1	2	4
	4:15 PM	0	0	0	0	0	0	0	2	0	0	1	0	3
	4:30 PM	0	0	0	0	0	0	0	1	0	0	3	0	4
	4:45 PM	0	0	0	2	0	0	1	0	0	0	0	1	4
	5:00 PM	0	0	0	1	0	0	0	1	0	0	0	0	2
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	3	3
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	3	0	0	1	5	0	0	5	6	20
	APPROACH %	0%	0%	0%	100%	0%	0%	17%	83%	0%	0%	45%	55%	
	APP/DEPART	0	/	7	3	/	0	6	/	8	11	/	5	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	0	0	0	2	0	0	1	4	0	0	5	3	15
	APPROACH %	0%	0%	0%	100%	0%	0%	20%	80%	0%	0%	63%	38%	
	PEAK HR FACTOR		0.000			0.250			0.625			0.667		0.938
	APP/DEPART	0	/	4	2	/	0	5	/	6	8	/	5	0

U-TURNS					
	NB	SB	EB	WB	TTL
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0

RTOR			
NRR X	SRR X	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

Quarry Rd

NORTH SIDE

Stoddard Wells Rd WEST SIDE EAST SIDE **Stoddard Wells Rd**

SOUTH SIDE

Quarry Rd

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Apple Valley	PROJECT #:	SC4523
4/2/24	NORTH & SOUTH:	Quarry Rd	LOCATION #:	2
TUESDAY	EAST & WEST:	Stoddard Wells Rd	CONTROL:	STOP S

CLASS 3: 3-AXLE TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND Quarry Rd			SOUTHBOUND Quarry Rd			EASTBOUND Stoddard Wells Rd			WESTBOUND Stoddard Wells Rd			
	LANES:	NL X	NT X	NR X	SL 0	ST X	SR 0	EL 0	ET 1	ER X	WL X	WT 1	WR 1	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	1	1
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	1	1
	7:30 AM	0	0	0	0	0	0	0	0	0	0	1	0	1
	7:45 AM	0	0	0	1	0	0	0	1	0	0	0	1	3
	8:00 AM	0	0	0	0	0	0	0	0	0	0	1	1	2
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	1	0	0	0	1	2
	8:45 AM	0	0	0	0	0	0	0	0	0	0	1	1	2
	VOLUMES	0	0	0	1	0	0	0	2	0	0	3	6	12
	APPROACH %	0%	0%	0%	100%	0%	0%	0%	100%	0%	0%	33%	67%	
	APP/DEPART	0	/	6	1	/	0	2	/	3	9	/	3	0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	0	0	0	1	0	0	0	1	0	0	2	3	7
	APPROACH %	0%	0%	0%	100%	0%	0%	0%	100%	0%	0%	40%	60%	
	PEAK HR FACTOR		0.000			0.250			0.250			0.625		0.583
	APP/DEPART	0	/	3	1	/	0	1	/	2	5	/	2	0
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	1	1	2
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	1	1
	4:45 PM	0	0	0	0	0	0	0	0	0	0	2	2	4
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	1	1
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	2	2
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	3	7	10
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	30%	70%	
	APP/DEPART	0	/	7	0	/	0	0	/	0	10	/	3	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	0	0	0	0	0	0	0	0	0	0	3	4	7
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	43%	57%	
	PEAK HR FACTOR		0.000			0.000			0.000			0.438		0.438
	APP/DEPART	0	/	4	0	/	0	0	/	0	7	/	3	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR X	SRR X	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

Quarry Rd

NORTH SIDE

Stoddard Wells Rd WEST SIDE EAST SIDE **Stoddard Wells Rd**

SOUTH SIDE

Quarry Rd

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Apple Valley	PROJECT #:	SC4523
4/2/24	NORTH & SOUTH:	Quarry Rd	LOCATION #:	2
TUESDAY	EAST & WEST:	Stoddard Wells Rd	CONTROL:	STOP S

CLASS 4: 4 OR MORE AXLE TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND Quarry Rd			SOUTHBOUND Quarry Rd			EASTBOUND Stoddard Wells Rd			WESTBOUND Stoddard Wells Rd			
	LANES:	NL X	NT X	NR X	SL 0	ST X	SR 0	EL 0	ET 1	ER X	WL X	WT 1	WR 1	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	1	4	5
	7:15 AM	0	0	0	0	0	0	0	1	0	0	0	3	4
	7:30 AM	0	0	0	0	0	0	0	0	0	0	1	5	6
	7:45 AM	0	0	0	0	0	0	0	0	0	0	4	9	13
	8:00 AM	0	0	0	2	0	0	0	0	0	0	1	6	9
	8:15 AM	0	0	0	0	0	0	0	2	0	0	0	4	6
	8:30 AM	0	0	0	0	0	0	0	1	0	0	0	4	5
	8:45 AM	0	0	0	0	0	0	0	0	0	0	1	5	6
	VOLUMES	0	0	0	2	0	0	0	4	0	0	8	40	54
	APPROACH %	0%	0%	0%	100%	0%	0%	0%	100%	0%	0%	17%	83%	
	APP/DEPART	0	/	40	2	/	0	4	/	6	48	/	8	0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	0	0	0	2	0	0	0	1	0	0	6	23	32
	APPROACH %	0%	0%	0%	100%	0%	0%	0%	100%	0%	0%	21%	79%	
	PEAK HR FACTOR		0.000			0.250			0.250			0.558		0.615
	APP/DEPART	0	/	23	2	/	0	1	/	3	29	/	6	0
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	1	1	2
	4:15 PM	0	0	0	0	0	0	0	2	0	0	1	3	6
	4:30 PM	0	0	0	0	0	0	0	0	0	0	1	2	3
	4:45 PM	0	0	0	0	0	0	0	2	0	0	1	4	7
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	2	2
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	4	4
	5:30 PM	0	0	0	0	0	1	0	0	0	0	0	4	5
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	1	1
	VOLUMES	0	0	0	0	0	1	0	4	0	0	4	21	30
	APPROACH %	0%	0%	0%	0%	0%	100%	0%	100%	0%	0%	16%	84%	
	APP/DEPART	0	/	21	1	/	0	4	/	4	25	/	5	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	0	0	0	0	0	0	0	4	0	0	4	10	18
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	29%	71%	
	PEAK HR FACTOR		0.000			0.000			0.500			0.700		0.643
	APP/DEPART	0	/	10	0	/	0	4	/	4	14	/	4	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	

RTOR

NRR X	SRR X	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

Quarry Rd

NORTH SIDE

Stoddard Wells Rd WEST SIDE EAST SIDE **Stoddard Wells Rd**

SOUTH SIDE

Quarry Rd

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Apple Valley	PROJECT #:	SC4523
4/2/24	NORTH & SOUTH:	Quarry Rd	LOCATION #:	2
TUESDAY	EAST & WEST:	Stoddard Wells Rd	CONTROL:	STOP S

CLASS 5: RV

NOTES:

AM PM MD OTHER OTHER

N ▲ ◄ W E ► S ▼

		NORTHBOUND Quarry Rd			SOUTHBOUND Quarry Rd			EASTBOUND Stoddard Wells Rd			WESTBOUND Stoddard Wells Rd			
		NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
	LANES:	X	X	X	0	X	0	0	1	X	X	1	1	
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0

U-TURNS

	NB	SB	EB	WB	TTL
7:00 AM	0	0	0	0	0
7:15 AM	0	0	0	0	0
7:30 AM	0	0	0	0	0
7:45 AM	0	0	0	0	0
8:00 AM	0	0	0	0	0
8:15 AM	0	0	0	0	0
8:30 AM	0	0	0	0	0
8:45 AM	0	0	0	0	0
VOLUMES	0	0	0	0	0
PEAK HR VOLUMES	0	0	0	0	
4:00 PM	0	0	0	0	0
4:15 PM	0	0	0	0	0
4:30 PM	0	0	0	0	0
4:45 PM	0	0	0	0	0
5:00 PM	0	0	0	0	0
5:15 PM	0	0	0	0	0
5:30 PM	0	0	0	0	0
5:45 PM	0	0	0	0	0
VOLUMES	0	0	0	0	0
PEAK HR VOLUMES	0	0	0	0	

RTOR

	NRR	SRR	ERR	WRR
LANES	X	X	X	X
7:00 AM	0	0	0	0
7:15 AM	0	0	0	0
7:30 AM	0	0	0	0
7:45 AM	0	0	0	0
8:00 AM	0	0	0	0
8:15 AM	0	0	0	0
8:30 AM	0	0	0	0
8:45 AM	0	0	0	0
VOLUMES	0	0	0	0
PEAK HR VOLUMES	0	0	0	0
4:00 PM	0	0	0	0
4:15 PM	0	0	0	0
4:30 PM	0	0	0	0
4:45 PM	0	0	0	0
5:00 PM	0	0	0	0
5:15 PM	0	0	0	0
5:30 PM	0	0	0	0
5:45 PM	0	0	0	0
VOLUMES	0	0	0	0
PEAK HR VOLUMES	0	0	0	0

Quarry Rd

NORTH SIDE

Stoddard Wells Rd WEST SIDE

EAST SIDE **Stoddard Wells Rd**

SOUTH SIDE

Quarry Rd

INTERSECTION TURNING MOVEMENT COUNTS

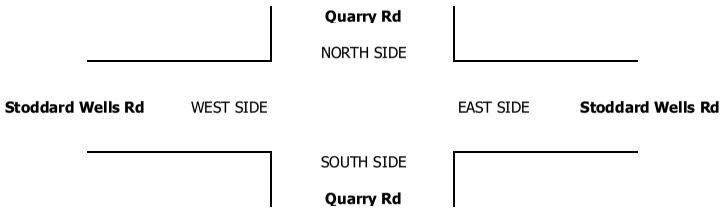
PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Apple Valley	PROJECT #:	SC4523
4/2/24	NORTH & SOUTH:	Quarry Rd	LOCATION #:	2
TUESDAY	EAST & WEST:	Stoddard Wells Rd	CONTROL:	STOP S

CLASS 6:	NOTES:
BUSES	

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND Quarry Rd			SOUTHBOUND Quarry Rd			EASTBOUND Stoddard Wells Rd			WESTBOUND Stoddard Wells Rd				U-TURNS					RTOR			
	LANES:	NL X	NT X	NR X	SL 0	ST X	SR 0	EL 0	ET 1	ER X	WL X	WT 1	WR 1	TOTAL	NB	SB	EB	WB	TTL	NRR X	SRR X	ERR X	WRR X
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%										
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0									
	BEGIN PEAK HR		7:15 AM																				
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%										
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000									
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0									
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%										
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0									
	BEGIN PEAK HR		4:00 PM																				
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%										
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000									
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0									



INTERSECTION TURNING MOVEMENT COUNTS

T020624

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: Tue, Apr 2, 24	LOCATION:	Apple Valley	PROJECT #: SC4523
	NORTH & SOUTH:	Quarry Rd	LOCATION #: 1
	EAST & WEST:	I-15 SB Ramps	CONTROL: STOP W

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND Quarry Rd			SOUTHBOUND Quarry Rd			EASTBOUND I-15 SB Ramps			WESTBOUND I-15 SB Ramps			
	LANES:	NL X	NT 1	NR 0	SL 0	ST 1	SR X	EL X	ET X	ER X	WL 0	WT X	WR 0	TOTAL
AM	7:00 AM	0	0	12	0	0	0	0	0	0	3	0	0	15
	7:15 AM	0	0	12	0	0	0	0	0	0	2	0	0	14
	7:30 AM	0	1	12	1	0	0	0	0	0	8	0	1	23
	7:45 AM	0	0	17	0	0	0	0	0	0	2	0	0	19
	8:00 AM	0	0	19	0	1	0	0	0	0	9	0	0	29
	8:15 AM	0	0	11	0	0	0	0	0	0	0	0	0	11
	8:30 AM	0	1	14	1	1	0	0	0	0	5	0	1	23
	8:45 AM	0	0	16	0	0	0	0	0	0	13	0	0	29
	VOLUMES	0	2	113	2	2	0	0	0	0	42	0	2	164
	APPROACH %	0%	2%	98%	50%	50%	0%	0%	0%	0%	93%	0%	4%	
	APP/DEPART	115	/	4	4	/	44	0	/	116	45	/	0	0
	BEGIN PEAK HR		8:00 AM											
	VOLUMES	0	1	60	1	2	0	0	0	0	27	0	1	92
	APPROACH %	0%	2%	98%	33%	67%	0%	0%	0%	0%	96%	0%	4%	
	PEAK HR FACTOR		0.803			0.375			0.000			0.538		0.793
	APP/DEPART	61	/	2	3	/	29	0	/	61	28	/	0	0
PM	4:00 PM	0	0	94	0	0	0	0	0	0	7	0	1	102
	4:15 PM	0	0	39	1	0	0	0	0	0	12	0	0	52
	4:30 PM	0	0	20	0	0	0	0	0	0	11	0	0	31
	4:45 PM	0	0	30	0	0	0	0	0	0	13	0	0	43
	5:00 PM	0	0	17	0	1	0	0	0	0	12	0	1	31
	5:15 PM	0	0	17	0	1	0	0	0	0	8	0	0	26
	5:30 PM	0	0	40	0	0	0	0	0	0	11	0	0	51
	5:45 PM	0	0	13	1	0	0	0	0	0	11	0	1	26
	VOLUMES	0	0	270	2	2	0	0	0	0	85	0	3	364
	APPROACH %	0%	0%	100%	50%	50%	0%	0%	0%	0%	94%	0%	3%	
	APP/DEPART	270	/	3	4	/	87	0	/	274	90	/	0	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	0	0	183	1	0	0	0	0	0	43	0	1	229
	APPROACH %	0%	0%	100%	100%	0%	0%	0%	0%	0%	96%	0%	2%	
	PEAK HR FACTOR		0.487			0.250			0.000			0.865		0.556
	APP/DEPART	183	/	1	1	/	43	0	/	185	45	/	0	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	1	1
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	1	1
0	0	0	0	0
0	0	0	1	1
0	0	0	2	2
0	0	0	1	

RTOR

NRR X	SRR X	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

Quarry Rd

NORTH LEG

I-15 SB Ramps WEST LEG EAST LEG **I-15 SB Ramps**

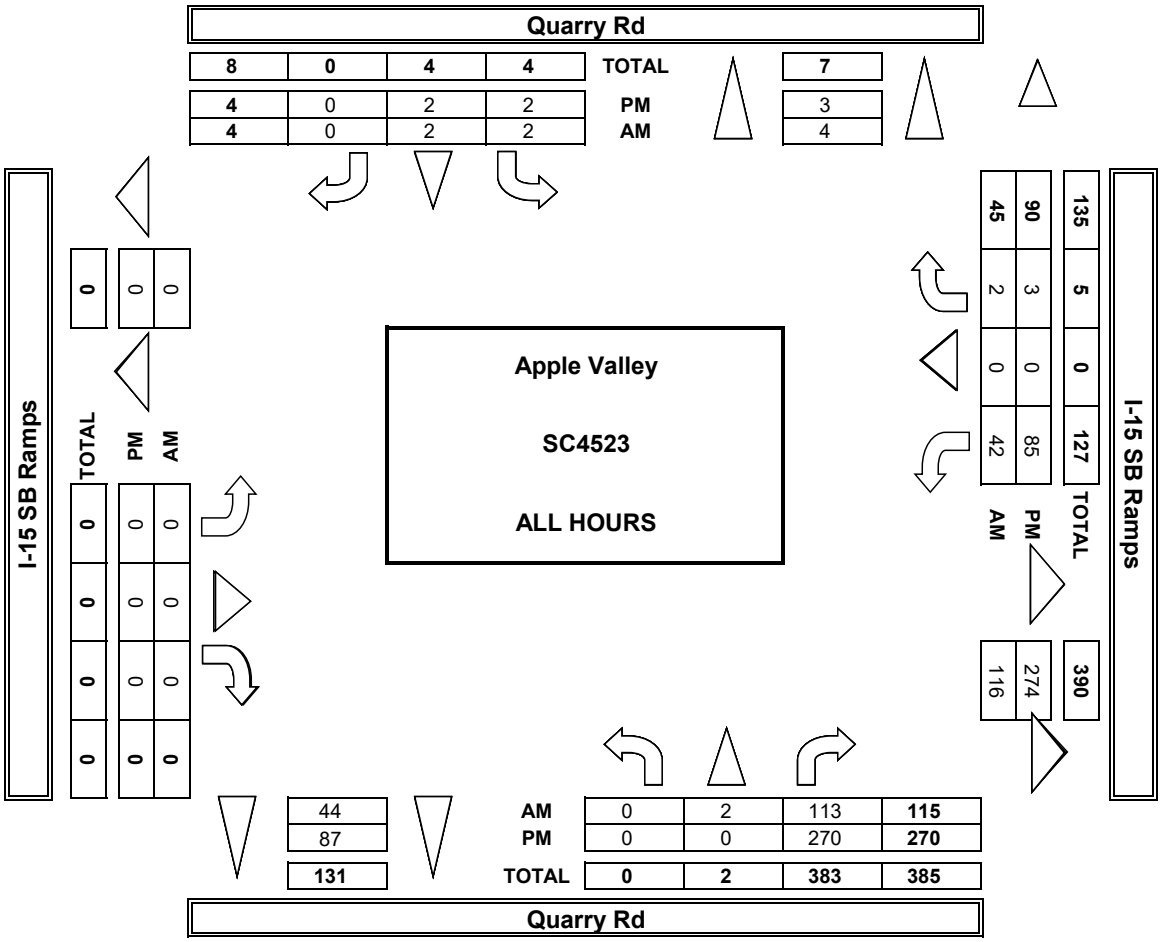
SOUTH LEG

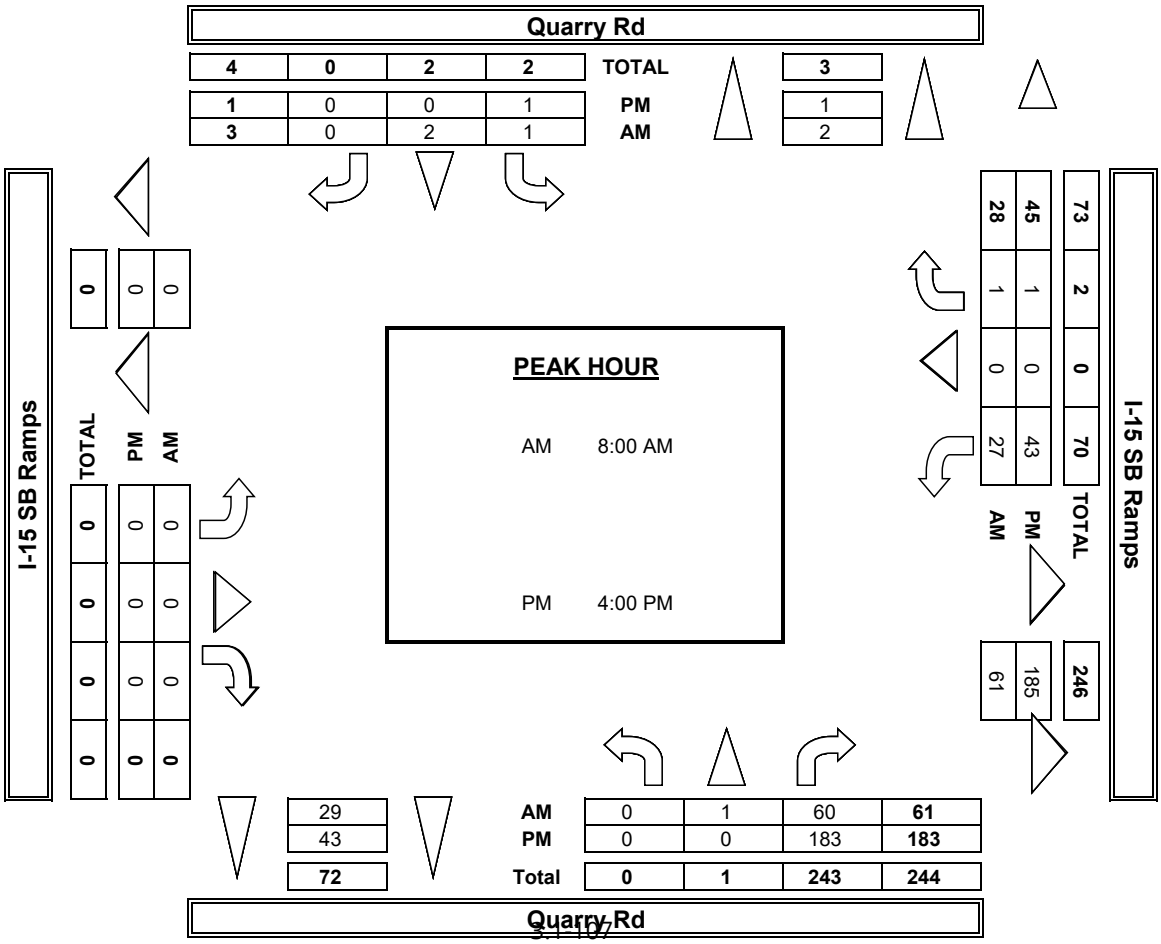
Quarry Rd

		ALL PED + BIKE & SCOOTER					PEDESTRIAN CROSSINGS					BICYCLE & SCOOTER CROSSINGS				
		E LEG	W LEG	S LEG	N LEG	TOTAL	E LEG	W LEG	S LEG	N LEG	TOTAL	EL	WL	SL	NL	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

AimTD LLC

TURNING MOVEMENT COUNTS





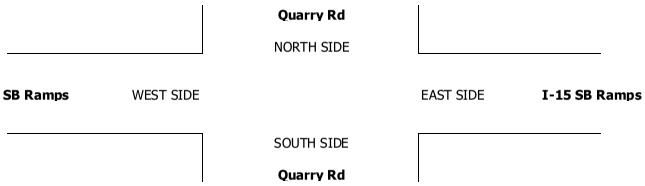
INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: 4/2/24 TUESDAY	LOCATION:	Apple Valley	PROJECT #:	SC4523
	NORTH & SOUTH:	Quarry Rd	LOCATION #:	1
	EAST & WEST:	I-15 SB Ramps	CONTROL:	STOP W

	NOTES:											
PCE Adjusted	Class	1	2	3	4	5	6			AM	▲ N	
	Factor	1	1.5	2	3	2	2			PM	◄ W	E ►
										MD		
										OTHER	S ▼	
										OTHER		

		NORTHBOUND Quarry Rd			SOUTHBOUND Quarry Rd			EASTBOUND I-15 SB Ramps			WESTBOUND I-15 SB Ramps				U-TURNS				
	LANES:	NL X	NT 1	NR 0	SL 0	ST 1	SR X	EL X	ET X	ER X	WL 0	WT X	WR 0	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	0	21	0	0	0	0	0	0	4	0	0	25					0
	7:15 AM	0	0	20	0	0	0	0	0	0	3	0	0	22					0
	7:30 AM	0	1	22	1	0	0	0	0	0	8	0	1	33					0
	7:45 AM	0	0	34	0	0	0	0	0	0	3	0	0	37					0
	8:00 AM	0	0	35	0	1	0	0	0	0	13	0	0	49					0
	8:15 AM	0	0	20	0	0	0	0	0	0	0	0	0	20					0
	8:30 AM	0	1	22	1	1	0	0	0	0	5	0	1	31					0
	8:45 AM	0	0	30	0	0	0	0	0	0	14	0	0	43					0
	VOLUMES	0	2	203	2	2	0	0	0	0	49	0	2	259	0	0	0	0	0
	APPROACH %	0%	1%	99%	50%	50%	0%	0%	0%	0%	96%	0%	4%						
	APP/DEPART	205	/	4	4	/	51	0	/	205	51	/	0	0					
	BEGIN PEAK HR		8:00 AM																
	VOLUMES	0	1	106	1	2	0	0	0	0	32	0	1	143					
	APPROACH %	0%	1%	99%	33%	67%	0%	0%	0%	0%	97%	0%	3%						
	PEAK HR FACTOR		0.764			0.375			0.000			0.602		0.727					
	APP/DEPART	107	/	2	3	/	34	0	/	107	33	/	0	0					
PM	4:00 PM	0	0	98	0	0	0	0	0	0	7	0	1	106					0
	4:15 PM	0	0	45	1	0	0	0	0	0	12	0	0	58					0
	4:30 PM	0	0	25	0	0	0	0	0	0	11	0	0	36					0
	4:45 PM	0	0	41	0	0	0	0	0	0	14	0	0	55					0
	5:00 PM	0	0	22	0	1	0	0	0	0	13	0	1	37					0
	5:15 PM	0	0	27	0	1	0	0	0	0	8	0	0	36					0
	5:30 PM	0	0	50	0	0	0	0	0	0	13	0	0	63					0
	5:45 PM	0	0	15	1	0	0	0	0	0	11	0	1	28					0
	VOLUMES	0	0	323	2	2	0	0	0	0	89	0	3	418	0	0	0	0	0
	APPROACH %	0%	0%	100%	50%	50%	0%	0%	0%	0%	97%	0%	3%						
	APP/DEPART	323	/	3	4	/	91	0	/	325	92	/	0	0					
	BEGIN PEAK HR		4:00 PM																
	VOLUMES	0	0	209	1	0	0	0	0	0	44	0	1	255					
	APPROACH %	0%	0%	100%	100%	0%	0%	0%	0%	0%	98%	0%	2%						
	PEAK HR FACTOR		0.533			0.250			0.000			0.804		0.601					
	APP/DEPART	209	/	1	1	/	44	0	/	210	45	/	0	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Apple Valley	PROJECT #:	SC4523
4/2/24	NORTH & SOUTH:	Quarry Rd	LOCATION #:	1
TUESDAY	EAST & WEST:	I-15 SB Ramps	CONTROL:	STOP W

CLASS 1: PASSENGER VEHICLES

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

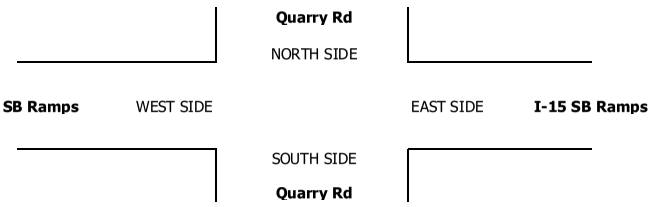
		NORTHBOUND (Quarry Rd)			SOUTHBOUND (Quarry Rd)			EASTBOUND (I-15 SB Ramps)			WESTBOUND (I-15 SB Ramps)			
	LANES:	NL X	NT 1	NR 0	SL 0	ST 1	SR X	EL X	ET X	ER X	WL 0	WT X	WR 0	TOTAL
AM	7:00 AM	0	0	7	0	0	0	0	0	0	2	0	0	9
	7:15 AM	0	0	7	0	0	0	0	0	0	1	0	0	8
	7:30 AM	0	1	7	1	0	0	0	0	0	8	0	1	18
	7:45 AM	0	0	8	0	0	0	0	0	0	1	0	0	9
	8:00 AM	0	0	9	0	1	0	0	0	0	7	0	0	17
	8:15 AM	0	0	6	0	0	0	0	0	0	0	0	0	6
	8:30 AM	0	1	8	1	1	0	0	0	0	5	0	1	17
	8:45 AM	0	0	8	0	0	0	0	0	0	12	0	0	20
	VOLUMES	0	2	60	2	2	0	0	0	0	36	0	2	105
	APPROACH %	0%	3%	97%	50%	50%	0%	0%	0%	0%	92%	0%	5%	
	APP/DEPART	62	/	4	4	/	38	0	/	63	39	/	0	0
	BEGIN PEAK HR		8:00 AM											
	VOLUMES	0	1	31	1	2	0	0	0	0	24	0	1	60
	APPROACH %	0%	3%	97%	33%	67%	0%	0%	0%	0%	96%	0%	4%	
	PEAK HR FACTOR		0.889			0.375			0.000			0.521		0.750
	APP/DEPART	32	/	2	3	/	26	0	/	32	25	/	0	0
PM	4:00 PM	0	0	90	0	0	0	0	0	0	7	0	1	98
	4:15 PM	0	0	36	1	0	0	0	0	0	12	0	0	49
	4:30 PM	0	0	17	0	0	0	0	0	0	11	0	0	28
	4:45 PM	0	0	22	0	0	0	0	0	0	11	0	0	33
	5:00 PM	0	0	14	0	1	0	0	0	0	11	0	1	27
	5:15 PM	0	0	11	0	1	0	0	0	0	8	0	0	20
	5:30 PM	0	0	33	0	0	0	0	0	0	10	0	0	43
	5:45 PM	0	0	12	1	0	0	0	0	0	11	0	1	25
	VOLUMES	0	0	235	2	2	0	0	0	0	81	0	3	325
	APPROACH %	0%	0%	100%	50%	50%	0%	0%	0%	0%	94%	0%	3%	
	APP/DEPART	235	/	3	4	/	83	0	/	239	86	/	0	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	0	0	165	1	0	0	0	0	0	41	0	1	209
	APPROACH %	0%	0%	100%	100%	0%	0%	0%	0%	0%	95%	0%	2%	
	PEAK HR FACTOR		0.458			0.250			0.000			0.896		0.528
	APP/DEPART	165	/	1	1	/	41	0	/	167	43	/	0	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	1	1
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	1	1
0	0	0	0	
0	0	0	1	1
0	0	0	1	

RTOR

NRR X	SRR X	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Apple Valley	PROJECT #:	SC4523
4/2/24	NORTH & SOUTH:	Quarry Rd	LOCATION #:	1
TUESDAY	EAST & WEST:	I-15 SB Ramps	CONTROL:	STOP W

CLASS 2: 2-AXLE WORK VEHICLES/ TRUCKS

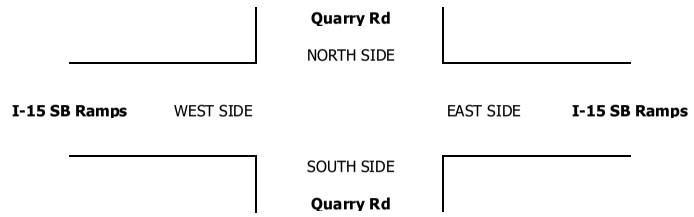
NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

	NORTHBOUND Quarry Rd			SOUTHBOUND Quarry Rd			EASTBOUND I-15 SB Ramps			WESTBOUND I-15 SB Ramps			
LANES:	NL X	NT 1	NR 0	SL 0	ST 1	SR X	EL X	ET X	ER X	WL 0	WT X	WR 0	TOTAL
AM													
7:00 AM	0	0	0	0	0	0	0	0	0	1	0	0	1
7:15 AM	0	0	1	0	0	0	0	0	0	1	0	0	2
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	2	0	0	0	0	0	0	0	0	0	2
8:15 AM	0	0	1	0	0	0	0	0	0	0	0	0	1
8:30 AM	0	0	2	0	0	0	0	0	0	0	0	0	2
8:45 AM	0	0	1	0	0	0	0	0	0	1	0	0	2
VOLUMES	0	0	7	0	0	0	0	0	0	3	0	0	10
APPROACH %	0%	0%	100%	0%	0%	0%	0%	0%	0%	100%	0%	0%	
APP/DEPART	7	/	0	0	/	3	0	/	7	3	/	0	0
BEGIN PEAK HR		8:00 AM											
VOLUMES	0	0	6	0	0	0	0	0	0	1	0	0	7
APPROACH %	0%	0%	100%	0%	0%	0%	0%	0%	0%	100%	0%	0%	
PEAK HR FACTOR		0.750			0.000			0.000			0.250		0.875
APP/DEPART	6	/	0	0	/	1	0	/	6	1	/	0	0
PM													
4:00 PM	0	0	2	0	0	0	0	0	0	0	0	0	2
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	2	0	0	0	0	0	0	2	0	0	4
5:00 PM	0	0	0	0	0	0	0	0	0	1	0	0	1
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	3	0	0	0	0	0	0	0	0	0	3
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
VOLUMES	0	0	7	0	0	0	0	0	0	3	0	0	10
APPROACH %	0%	0%	100%	0%	0%	0%	0%	0%	0%	100%	0%	0%	
APP/DEPART	7	/	0	0	/	3	0	/	7	3	/	0	0
BEGIN PEAK HR		4:00 PM											
VOLUMES	0	0	4	0	0	0	0	0	0	2	0	0	6
APPROACH %	0%	0%	100%	0%	0%	0%	0%	0%	0%	100%	0%	0%	
PEAK HR FACTOR		0.500			0.000			0.000			0.250		0.375
APP/DEPART	4	/	0	0	/	2	0	/	4	2	/	0	0

U-TURNS					
NB	SB	EB	WB	TTL	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0		
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0		

RTOR			
NRR X	SRR X	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

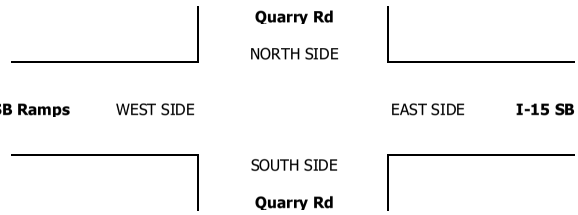
DATE:	LOCATION:	Apple Valley	PROJECT #:	SC4523
4/2/24	NORTH & SOUTH:	Quarry Rd	LOCATION #:	1
TUESDAY	EAST & WEST:	I-15 SB Ramps	CONTROL:	STOP W

CLASS 3: 3-AXLE TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND Quarry Rd			SOUTHBOUND Quarry Rd			EASTBOUND I-15 SB Ramps			WESTBOUND I-15 SB Ramps				U-TURNS					RTOR			
	LANES:	NL X	NT 1	NR 0	SL 0	ST 1	SR X	EL X	ET X	ER X	WL 0	WT X	WR 0	TOTAL	NB	SB	EB	WB	TTL	NRR X	SRR X	ERR X	WRR X
AM	7:00 AM	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	1	0	0	0	0	0	0	1	0	0	2	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	6	0	0	0	0	0	0	1	0	0	7	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	100%	0%	0%	0%	0%	0%	0%	100%	0%	0%										
	APP/DEPART	6	/	0	0	/	1	0	/	6	1	/	0	0									
	BEGIN PEAK HR		8:00 AM																				
	VOLUMES	0	0	3	0	0	0	0	0	0	0	0	0	3	0	0	0	0		0	0	0	0
	APPROACH %	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%										
	PEAK HR FACTOR		0.750			0.000			0.000			0.000		0.750									
	APP/DEPART	3	/	0	0	/	0	0	/	3	0	/	0	0									
PM	4:00 PM	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	2	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	2	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	7	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%										
	APP/DEPART	7	/	0	0	/	0	0	/	7	0	/	0	0									
	BEGIN PEAK HR		4:00 PM																				
	VOLUMES	0	0	4	0	0	0	0	0	0	0	0	0	4	0	0	0	0		0	0	0	0
	APPROACH %	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%										
	PEAK HR FACTOR		0.500			0.000			0.000			0.000		0.500									
	APP/DEPART	4	/	0	0	/	0	0	/	4	0	/	0	0									



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Apple Valley	PROJECT #:	SC4523
4/2/24	NORTH & SOUTH:	Quarry Rd	LOCATION #:	1
TUESDAY	EAST & WEST:	I-15 SB Ramps	CONTROL:	STOP W

CLASS 4: 4 OR MORE AXLE TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

	NORTHBOUND Quarry Rd			SOUTHBOUND Quarry Rd			EASTBOUND I-15 SB Ramps			WESTBOUND I-15 SB Ramps			
LANES:	NL X	NT 1	NR 0	SL 0	ST 1	SR X	EL X	ET X	ER X	WL 0	WT X	WR 0	TOTAL
AM													
7:00 AM	0	0	4	0	0	0	0	0	0	0	0	0	4
7:15 AM	0	0	3	0	0	0	0	0	0	0	0	0	3
7:30 AM	0	0	5	0	0	0	0	0	0	0	0	0	5
7:45 AM	0	0	8	0	0	0	0	0	0	0	0	0	8
8:00 AM	0	0	7	0	0	0	0	0	0	2	0	0	9
8:15 AM	0	0	4	0	0	0	0	0	0	0	0	0	4
8:30 AM	0	0	3	0	0	0	0	0	0	0	0	0	3
8:45 AM	0	0	6	0	0	0	0	0	0	0	0	0	6
VOLUMES	0	0	40	0	0	0	0	0	0	2	0	0	42
APPROACH %	0%	0%	100%	0%	0%	0%	0%	0%	0%	100%	0%	0%	
APP/DEPART	40	/	0	0	/	2	0	/	40	2	/	0	0
BEGIN PEAK HR		8:00 AM											
VOLUMES	0	0	20	0	0	0	0	0	0	2	0	0	22
APPROACH %	0%	0%	100%	0%	0%	0%	0%	0%	0%	100%	0%	0%	
PEAK HR FACTOR		0.714			0.000			0.000			0.250		0.611
APP/DEPART	20	/	0	0	/	2	0	/	20	2	/	0	0
PM													
4:00 PM	0	0	1	0	0	0	0	0	0	0	0	0	1
4:15 PM	0	0	3	0	0	0	0	0	0	0	0	0	3
4:30 PM	0	0	2	0	0	0	0	0	0	0	0	0	2
4:45 PM	0	0	4	0	0	0	0	0	0	0	0	0	4
5:00 PM	0	0	2	0	0	0	0	0	0	0	0	0	2
5:15 PM	0	0	4	0	0	0	0	0	0	0	0	0	4
5:30 PM	0	0	4	0	0	0	0	0	0	1	0	0	5
5:45 PM	0	0	1	0	0	0	0	0	0	0	0	0	1
VOLUMES	0	0	21	0	0	0	0	0	0	1	0	0	22
APPROACH %	0%	0%	100%	0%	0%	0%	0%	0%	0%	100%	0%	0%	
APP/DEPART	21	/	0	0	/	1	0	/	21	1	/	0	0
BEGIN PEAK HR		4:00 PM											
VOLUMES	0	0	10	0	0	0	0	0	0	0	0	0	10
APPROACH %	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
PEAK HR FACTOR		0.625			0.000			0.000			0.000		0.625
APP/DEPART	10	/	0	0	/	0	0	/	10	0	/	0	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	
0	0	0	0	
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	
0	0	0	0	

RTOR

NRR X	SRR X	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

Quarry Rd

NORTH SIDE

I-15 SB Ramps WEST SIDE EAST SIDE **I-15 SB Ramps**

SOUTH SIDE

Quarry Rd

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Apple Valley	PROJECT #:	SC4523
4/2/24	NORTH & SOUTH:	Quarry Rd	LOCATION #:	1
TUESDAY	EAST & WEST:	I-15 SB Ramps	CONTROL:	STOP W

CLASS 5:	NOTES:	AM PM MD OTHER OTHER	▲ N ◄ W E ► S ▼
RV			

		NORTHBOUND Quarry Rd			SOUTHBOUND Quarry Rd			EASTBOUND I-15 SB Ramps			WESTBOUND I-15 SB Ramps				U-TURNS					RTOR			
		NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL	NB	SB	EB	WB	TTL	NRR	SRR	ERR	WRR
	LANES:	X	1	0	0	1	X	X	X	X	0	X	0							X	X	X	X
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%										
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0									
	BEGIN PEAK HR		8:00 AM																				
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%										
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000									
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0									
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%										
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0									
	BEGIN PEAK HR		4:00 PM																				
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%										
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000									
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0									

Quarry Rd

NORTH SIDE

I-15 SB Ramps WEST SIDE

EAST SIDE **I-15 SB Ramps**

SOUTH SIDE

Quarry Rd

INTERSECTION TURNING MOVEMENT COUNTS

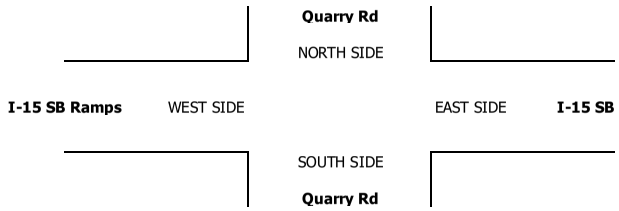
PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Apple Valley	PROJECT #:	SC4523
4/2/24	NORTH & SOUTH:	Quarry Rd	LOCATION #:	1
TUESDAY	EAST & WEST:	I-15 SB Ramps	CONTROL:	STOP W

CLASS 6:	NOTES:
BUSES	

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND Quarry Rd			SOUTHBOUND Quarry Rd			EASTBOUND I-15 SB Ramps			WESTBOUND I-15 SB Ramps				U-TURNS					RTOR			
	LANES:	NL X	NT 1	NR 0	SL 0	ST 1	SR X	EL X	ET X	ER X	WL 0	WT X	WR 0	TOTAL	NB	SB	EB	WB	TTL	NRR X	SRR X	ERR X	WRR X
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%										
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0									
	BEGIN PEAK HR		8:00 AM																				
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%										
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000									
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0									
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%										
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0									
	BEGIN PEAK HR		4:00 PM																				
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%										
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000									
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0									



INTERSECTION TURNING MOVEMENT COUNTS

T020624

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: Tue, Apr 2, 24	LOCATION:	Apple Valley	PROJECT #: SC4523
	NORTH & SOUTH:	Dale Evans Pkwy	LOCATION #: 10
	EAST & WEST:	Corwin Rd	CONTROL: STOP ALL

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND Dale Evans Pkwy			SOUTHBOUND Dale Evans Pkwy			EASTBOUND Corwin Rd			WESTBOUND Corwin Rd				U-TURNS					RTOR			
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL	NB 0	SB 0	EB 0	WB 0	TTL	NRR X	SRR X	ERR X	WRR X
AM	7:00 AM	0	33	4	0	12	3	3	3	0	1	0	0	59	0	0	0	0	0	0	0	0	0
	7:15 AM	0	41	1	0	16	1	7	3	0	1	0	1	71	0	0	0	0	0	0	0	0	0
	7:30 AM	0	31	6	0	9	4	5	2	1	1	0	0	59	0	0	0	0	0	0	0	0	0
	7:45 AM	4	32	8	1	12	0	3	2	0	3	0	1	66	0	0	0	0	0	0	0	0	0
	8:00 AM	0	24	4	0	4	0	7	1	0	2	2	0	44	0	0	0	0	0	0	0	0	0
	8:15 AM	0	20	4	1	8	6	4	3	1	4	4	0	55	0	0	0	0	0	0	0	0	0
	8:30 AM	1	24	4	0	9	6	5	1	1	1	1	1	54	0	0	0	0	0	0	0	0	0
	8:45 AM	1	20	1	0	19	4	1	2	0	1	0	0	49	0	0	0	0	0	0	0	0	0
	VOLUMES	6	225	32	2	89	24	35	17	3	14	7	3	457	0	0	0	0	0	0	0	0	0
	APPROACH %	2%	86%	12%	2%	77%	21%	64%	31%	5%	58%	29%	13%										
	APP/DEPART	263	/	263	115	/	106	55	/	51	24	/	37	0									
	BEGIN PEAK HR		7:00 AM																				
	VOLUMES	4	137	19	1	49	8	18	10	1	6	0	2	255	0	0	0	0		0	0	0	0
	APPROACH %	3%	86%	12%	2%	84%	14%	62%	34%	3%	75%	0%	25%										
	PEAK HR FACTOR		0.909			0.853			0.725			0.500		0.898									
	APP/DEPART	160	/	157	58	/	56	29	/	30	8	/	12	0									
PM	4:00 PM	0	25	4	0	53	16	5	3	1	6	7	0	120	0	0	0	0	0	0	0	0	0
	4:15 PM	1	34	5	1	44	9	11	0	0	5	4	0	114	0	0	0	0	0	0	0	0	0
	4:30 PM	1	21	3	1	52	11	4	2	0	8	3	2	108	0	0	0	0	0	0	0	0	0
	4:45 PM	1	28	3	1	50	9	2	1	1	6	2	0	104	0	0	0	0	0	0	0	0	0
	5:00 PM	0	13	1	1	50	12	2	1	0	6	2	0	88	0	0	0	0	0	0	0	0	0
	5:15 PM	0	14	2	0	42	3	5	1	0	2	2	0	71	0	0	0	0	0	0	0	0	0
	5:30 PM	0	17	1	1	36	8	0	0	0	3	1	0	67	0	0	0	0	0	0	0	0	0
	5:45 PM	1	17	3	0	35	4	2	2	0	5	1	0	70	0	0	1	0	1	0	0	0	0
	VOLUMES	4	169	22	5	362	72	31	10	2	41	22	2	743	0	0	1	0	1	0	0	0	0
	APPROACH %	2%	87%	11%	1%	82%	16%	70%	23%	5%	63%	34%	3%										
	APP/DEPART	195	/	202	439	/	405	44	/	37	65	/	99	0									
	BEGIN PEAK HR		4:00 PM																				
	VOLUMES	3	108	15	3	199	45	22	6	2	25	16	2	446	0	0	0	0		0	0	0	0
	APPROACH %	2%	86%	12%	1%	81%	18%	73%	20%	7%	58%	37%	5%										
	PEAK HR FACTOR		0.788			0.895			0.682			0.827		0.929									
	APP/DEPART	126	/	132	247	/	226	30	/	24	43	/	64	0									

Dale Evans Pkwy

NORTH LEG

Corwin Rd WEST LEG EAST LEG **Corwin Rd**

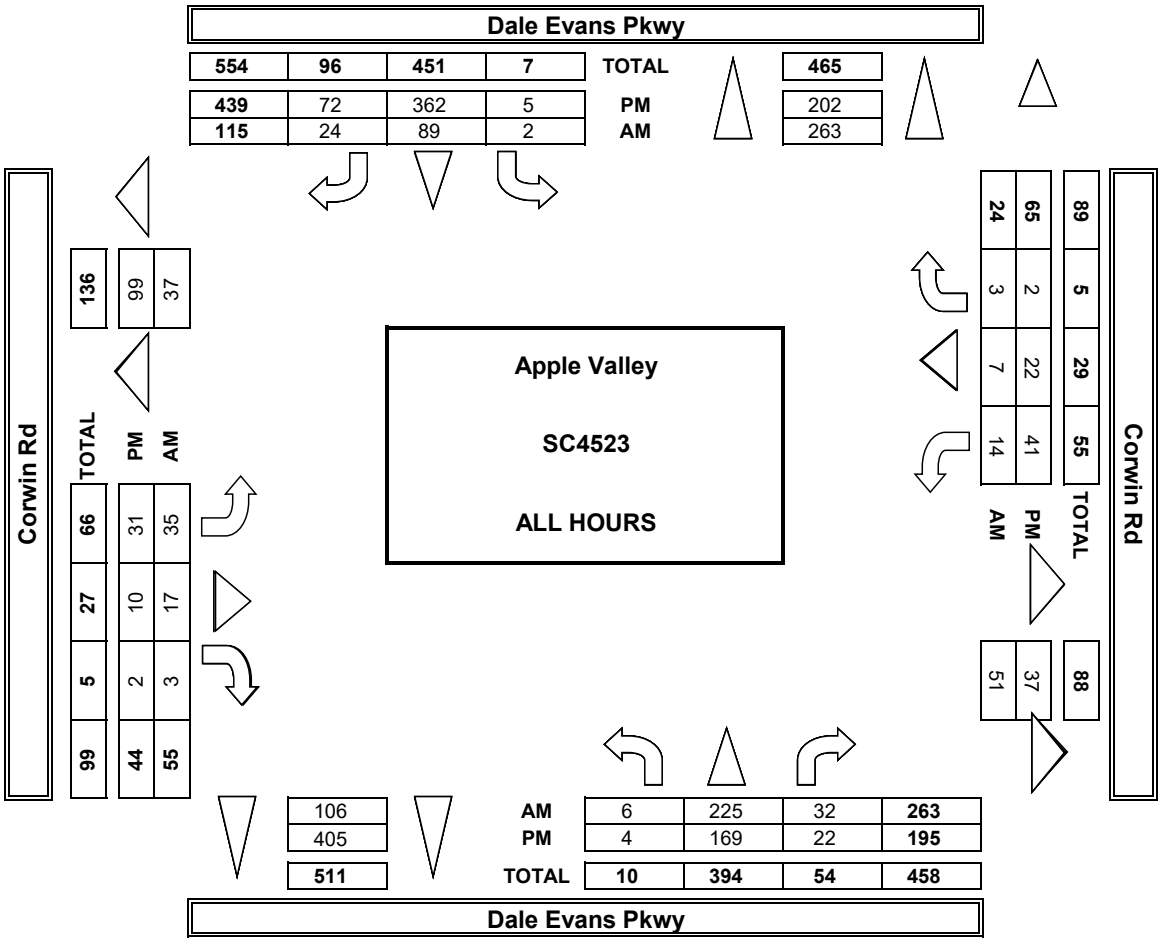
SOUTH LEG

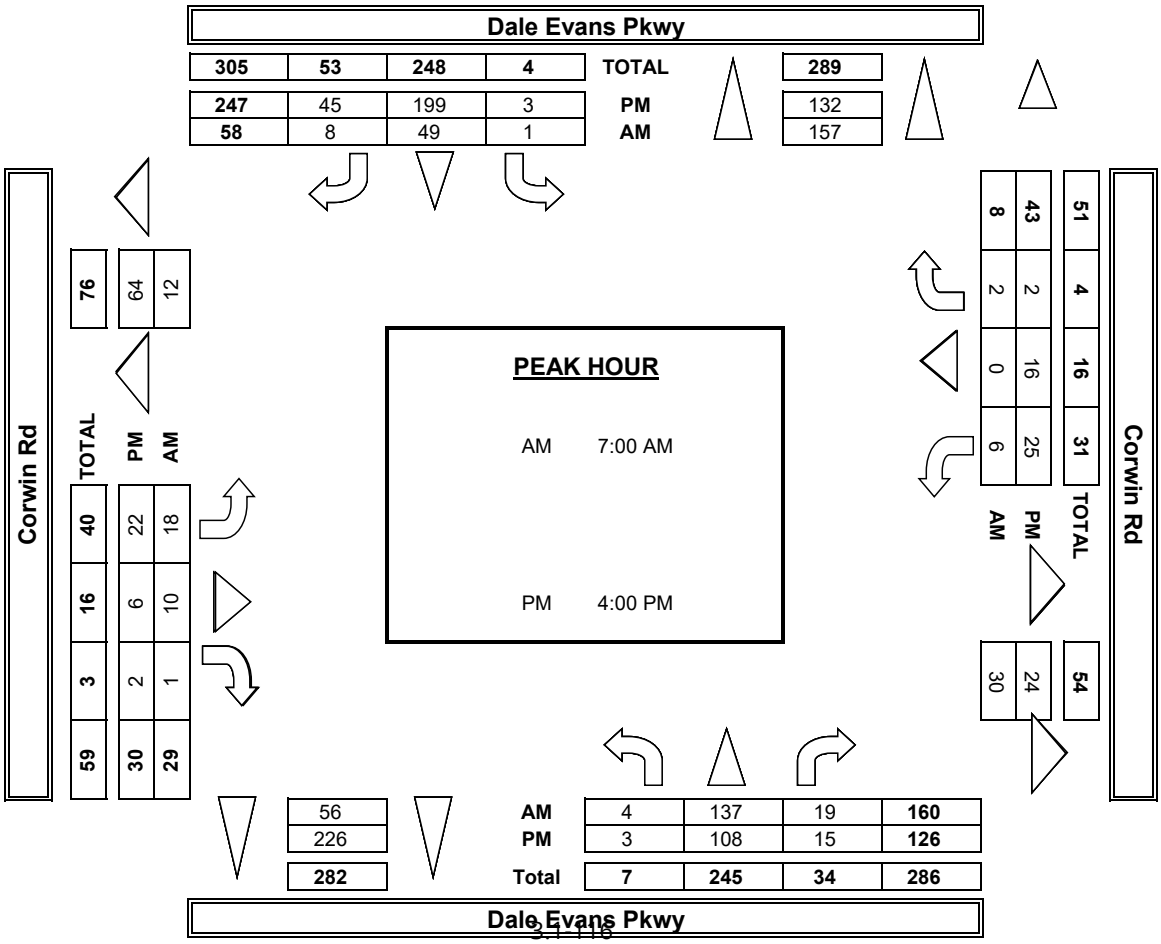
Dale Evans Pkwy

		ALL PED + BIKE & SCOOTER					PEDESTRIAN CROSSINGS					BICYCLE & SCOOTER CROSSINGS				
		E LEG	W LEG	S LEG	N LEG	TOTAL	E LEG	W LEG	S LEG	N LEG	TOTAL	EL	WL	SL	NL	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1

AimTD LLC

TURNING MOVEMENT COUNTS





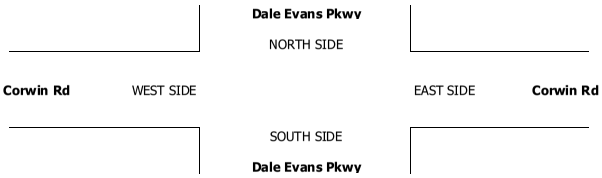
INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: 4/2/24 TUESDAY	LOCATION:	Apple Valley	PROJECT #:	SC4523
	NORTH & SOUTH:	Dale Evans Pkwy	LOCATION #:	10
	EAST & WEST:	Corwin Rd	CONTROL:	STOP ALL

	NOTES:												
PCE Adjusted	Class	1	2	3	4	5	6			AM PM MD OTHER OTHER		▲ N S ▼	
	Factor	1	1.5	2	3	2	2				◄ W		E ►

		NORTHBOUND Dale Evans Pkwy			SOUTHBOUND Dale Evans Pkwy			EASTBOUND Corwin Rd			WESTBOUND Corwin Rd				U-TURNS				
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	37	4	0	13	3	3	4	0	1	0	0	64					0
	7:15 AM	0	48	1	0	16	1	7	4	0	2	0	2	79					0
	7:30 AM	0	36	6	0	11	6	7	2	2	1	0	0	71					0
	7:45 AM	7	32	9	1	14	0	3	2	0	3	0	1	72					0
	8:00 AM	0	28	4	0	7	0	7	1	0	2	4	0	53					0
	8:15 AM	0	21	5	1	10	6	6	3	1	4	5	0	60					0
	8:30 AM	1	28	4	0	11	9	5	1	1	1	1	1	63					0
	8:45 AM	2	26	1	0	20	4	1	2	0	1	0	0	57					0
	VOLUMES	10	254	33	2	101	29	39	18	4	15	10	4	517	0	0	0	0	0
	APPROACH %	3%	86%	11%	2%	76%	22%	64%	30%	7%	53%	35%	13%						
	APP/DEPART	297	/	297	132	/	119	61	/	53	28	/	49	0					
	BEGIN PEAK HR		7:00 AM																
	VOLUMES	7	152	20	1	54	10	20	11	2	7	0	3	285					
	APPROACH %	4%	85%	11%	2%	83%	16%	61%	33%	6%	72%	0%	28%						
	PEAK HR FACTOR		0.918			0.949			0.750			0.563		0.900					
	APP/DEPART	178	/	174	65	/	62	33	/	32	9	/	17	0					
PM	4:00 PM	0	27	4	0	54	16	5	4	1	6	7	0	124					0
	4:15 PM	1	35	5	1	46	9	11	0	0	5	4	0	117					0
	4:30 PM	1	23	4	2	54	12	5	2	0	8	3	2	114					0
	4:45 PM	2	28	3	1	56	10	2	1	1	8	2	0	113					0
	5:00 PM	0	15	1	1	54	12	2	1	0	6	2	0	94					0
	5:15 PM	0	18	3	0	43	3	5	1	0	2	2	0	76					0
	5:30 PM	0	19	1	1	38	9	0	0	0	3	1	0	72					0
	5:45 PM	2	17	3	0	35	4	2	2	0	5	1	0	71					0
	VOLUMES	6	182	23	6	379	75	32	11	2	43	22	2	780	0	0	0	0	0
	APPROACH %	3%	86%	11%	1%	83%	16%	71%	25%	4%	64%	33%	3%						
	APP/DEPART	211	/	215	459	/	423	45	/	40	67	/	103	0					
	BEGIN PEAK HR		4:00 PM																
	VOLUMES	4	113	16	4	209	47	23	7	2	27	16	2	468					
	APPROACH %	3%	85%	12%	1%	81%	18%	71%	22%	6%	60%	36%	4%						
	PEAK HR FACTOR		0.808			0.932			0.716			0.856		0.946					
	APP/DEPART	133	/	138	259	/	238	32	/	26	45	/	67	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Apple Valley	PROJECT #:	SC4523
4/2/24	NORTH & SOUTH:	Dale Evans Pkwy	LOCATION #:	10
TUESDAY	EAST & WEST:	Corwin Rd	CONTROL:	STOP ALL

CLASS 1: PASSENGER VEHICLES

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

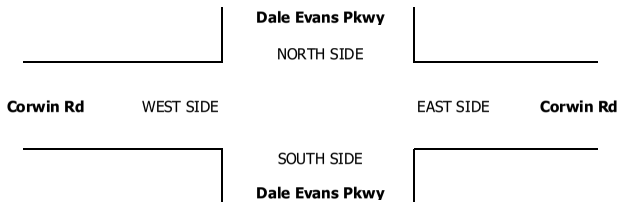
		NORTHBOUND (Dale Evans Pkwy)			SOUTHBOUND (Dale Evans Pkwy)			EASTBOUND (Corwin Rd)			WESTBOUND (Corwin Rd)			
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
AM	7:00 AM	0	27	4	0	11	3	3	2	0	1	0	0	51
	7:15 AM	0	37	1	0	16	1	7	2	0	0	0	0	64
	7:30 AM	0	26	6	0	8	2	4	2	0	1	0	0	49
	7:45 AM	2	32	7	1	10	0	3	2	0	3	0	1	61
	8:00 AM	0	19	4	0	2	0	7	1	0	2	1	0	36
	8:15 AM	0	19	3	1	5	6	3	3	1	4	3	0	48
	8:30 AM	1	22	4	0	7	4	5	1	1	1	1	1	48
	8:45 AM	0	15	1	0	18	4	1	2	0	1	0	0	42
	VOLUMES	3	197	30	2	77	20	33	15	2	13	5	2	399
	APPROACH %	1%	86%	13%	2%	78%	20%	66%	30%	4%	65%	25%	10%	
	APP/DEPART	230	/	232	99	/	92	50	/	47	20	/	28	0
	BEGIN PEAK HR		7:00 AM											
	VOLUMES	2	122	18	1	45	6	17	8	0	5	0	1	225
	APPROACH %	1%	86%	13%	2%	87%	12%	68%	32%	0%	83%	0%	17%	
	PEAK HR FACTOR		0.866			0.765			0.694			0.375		0.879
	APP/DEPART	142	/	140	52	/	50	25	/	27	6	/	8	0
PM	4:00 PM	0	22	4	0	52	16	5	2	1	6	7	0	115
	4:15 PM	1	33	5	1	41	9	11	0	0	5	4	0	110
	4:30 PM	1	20	2	0	51	10	3	2	0	8	3	2	102
	4:45 PM	0	28	3	1	45	8	2	1	1	3	2	0	94
	5:00 PM	0	12	1	1	48	12	2	1	0	6	2	0	85
	5:15 PM	0	11	1	0	41	3	5	1	0	2	2	0	66
	5:30 PM	0	16	1	1	35	7	0	0	0	3	1	0	64
	5:45 PM	0	17	3	0	35	4	2	2	0	5	1	0	69
	VOLUMES	2	159	20	4	348	69	30	9	2	38	22	2	706
	APPROACH %	1%	88%	11%	1%	83%	16%	71%	21%	5%	61%	35%	3%	
	APP/DEPART	181	/	191	421	/	388	42	/	33	62	/	94	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	2	103	14	2	189	43	21	5	2	22	16	2	421
	APPROACH %	2%	87%	12%	1%	81%	18%	75%	18%	7%	55%	40%	5%	
	PEAK HR FACTOR		0.763			0.860			0.636			0.769		0.915
	APP/DEPART	119	/	126	234	/	213	28	/	21	40	/	61	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
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0	0	0	0	0
0	0	0	0	0
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0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	1	0	1
0	0	1	0	1
0	0	0	0	0

RTOR

NRR X	SRR X	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
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0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Apple Valley	PROJECT #:	SC4523
4/2/24	NORTH & SOUTH:	Dale Evans Pkwy	LOCATION #:	10
TUESDAY	EAST & WEST:	Corwin Rd	CONTROL:	STOP ALL

CLASS 2: 2-AXLE WORK VEHICLES/ TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND Dale Evans Pkwy			SOUTHBOUND Dale Evans Pkwy			EASTBOUND Corwin Rd			WESTBOUND Corwin Rd			
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
AM	7:00 AM	0	5	0	0	1	0	0	1	0	0	0	0	7
	7:15 AM	0	1	0	0	0	0	0	1	0	1	0	1	4
	7:30 AM	0	3	0	0	0	0	0	0	0	0	0	0	3
	7:45 AM	0	0	1	0	0	0	0	0	0	0	0	0	1
	8:00 AM	0	2	0	0	0	0	0	0	0	0	0	0	2
	8:15 AM	0	1	1	0	3	0	0	0	0	0	1	0	6
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	2	0	0	1	0	0	0	0	0	0	0	3
	VOLUMES	0	14	2	0	5	0	0	2	0	1	1	1	26
	APPROACH %	0%	88%	13%	0%	100%	0%	0%	100%	0%	33%	33%	33%	
	APP/DEPART	16	/	15	5	/	6	2	/	4	3	/	1	0
	BEGIN PEAK HR		7:00 AM											
	VOLUMES	0	9	1	0	1	0	0	2	0	1	0	1	15
	APPROACH %	0%	90%	10%	0%	100%	0%	0%	100%	0%	50%	0%	50%	
	PEAK HR FACTOR		0.500			0.250			0.500			0.250		0.536
	APP/DEPART	10	/	10	1	/	2	2	/	3	2	/	0	0
PM	4:00 PM	0	2	0	0	1	0	0	0	0	0	0	0	3
	4:15 PM	0	0	0	0	2	0	0	0	0	0	0	0	2
	4:30 PM	0	0	1	1	0	1	1	0	0	0	0	0	4
	4:45 PM	0	0	0	0	3	0	0	0	0	3	0	0	6
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	1	1	0	1	0	0	0	0	0	0	0	3
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	3	2	1	7	1	1	0	0	3	0	0	18
	APPROACH %	0%	60%	40%	11%	78%	11%	100%	0%	0%	100%	0%	0%	
	APP/DEPART	5	/	4	9	/	10	1	/	3	3	/	1	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	0	2	1	1	6	1	1	0	0	3	0	0	15
	APPROACH %	0%	67%	33%	13%	75%	13%	100%	0%	0%	100%	0%	0%	
	PEAK HR FACTOR		0.375			0.667			0.250			0.250		0.625
	APP/DEPART	3	/	3	8	/	9	1	/	2	3	/	1	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
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0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR X	SRR X	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

Dale Evans Pkwy

NORTH SIDE

Corwin Rd WEST SIDE EAST SIDE **Corwin Rd**

SOUTH SIDE

Dale Evans Pkwy

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Apple Valley	PROJECT #:	SC4523
4/2/24	NORTH & SOUTH:	Dale Evans Pkwy	LOCATION #:	10
TUESDAY	EAST & WEST:	Corwin Rd	CONTROL:	STOP ALL

CLASS 3: 3-AXLE TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND Dale Evans Pkwy			SOUTHBOUND Dale Evans Pkwy			EASTBOUND Corwin Rd			WESTBOUND Corwin Rd			
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	1	0	0	0	1
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	1	0	0	0	0	0	0	0	0	0	0	1
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	1	0	0	0	0	0	0	0	1
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	1	0	0	1	0	0	0	1	0	0	0	3
	APPROACH %	0%	100%	0%	0%	100%	0%	0%	0%	100%	0%	0%	0%	
	APP/DEPART	1	/	1	1	/	2	1	/	0	0	/	0	0
	BEGIN PEAK HR		7:00 AM											
	VOLUMES	0	0	0	0	0	0	0	0	1	0	0	0	1
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	
	PEAK HR FACTOR		0.000			0.000			0.250			0.000		0.250
	APP/DEPART	0	/	0	0	/	1	1	/	0	0	/	0	0
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR X	SRR X	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

Dale Evans Pkwy

NORTH SIDE

Corwin Rd WEST SIDE EAST SIDE **Corwin Rd**

SOUTH SIDE

Dale Evans Pkwy

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Apple Valley	PROJECT #:	SC4523
4/2/24	NORTH & SOUTH:	Dale Evans Pkwy	LOCATION #:	10
TUESDAY	EAST & WEST:	Corwin Rd	CONTROL:	STOP ALL

CLASS 4: 4 OR MORE AXLE TRUCKS

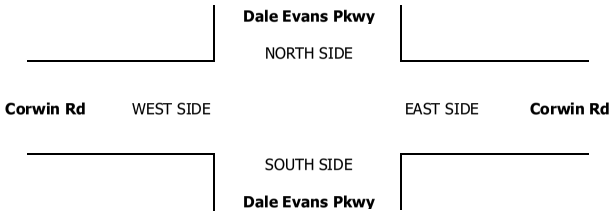
NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND Dale Evans Pkwy			SOUTHBOUND Dale Evans Pkwy			EASTBOUND Corwin Rd			WESTBOUND Corwin Rd			
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	3	0	0	0	0	0	0	0	0	0	0	3
	7:30 AM	0	1	0	0	1	0	1	0	0	0	0	0	3
	7:45 AM	1	0	0	0	0	0	0	0	0	0	0	0	1
	8:00 AM	0	0	0	0	1	0	0	0	0	0	1	0	2
	8:15 AM	0	0	0	0	0	0	1	0	0	0	0	0	1
	8:30 AM	0	2	0	0	0	1	0	0	0	0	0	0	3
	8:45 AM	0	2	0	0	0	0	0	0	0	0	0	0	2
	VOLUMES	1	8	0	0	2	1	2	0	0	0	1	0	15
	APPROACH %	11%	89%	0%	0%	67%	33%	100%	0%	0%	0%	100%	0%	
	APP/DEPART	9	/	10	3	/	2	2	/	0	1	/	3	0
	BEGIN PEAK HR		7:00 AM											
	VOLUMES	1	4	0	0	1	0	1	0	0	0	0	0	7
	APPROACH %	20%	80%	0%	0%	100%	0%	100%	0%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.417			0.250			0.250			0.000		0.583
	APP/DEPART	5	/	5	1	/	1	1	/	0	0	/	1	0
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	1	0	0	1	0	0	0	0	0	0	0	2
	4:45 PM	0	0	0	0	2	0	0	0	0	0	0	0	2
	5:00 PM	0	1	0	0	2	0	0	0	0	0	0	0	3
	5:15 PM	0	1	0	0	0	0	0	0	0	0	0	0	1
	5:30 PM	0	1	0	0	1	0	0	0	0	0	0	0	2
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	4	0	0	6	0	0	0	0	0	0	0	10
	APPROACH %	0%	100%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	
	APP/DEPART	4	/	4	6	/	6	0	/	0	0	/	0	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	0	1	0	0	3	0	0	0	0	0	0	0	4
	APPROACH %	0%	100%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.250			0.375			0.000			0.000		0.500
	APP/DEPART	1	/	1	3	/	3	0	/	0	0	/	0	0

U-TURNS					
	NB	SB	EB	WB	TTL
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0

RTOR			
NRR X	SRR X	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Apple Valley	PROJECT #:	SC4523
4/2/24	NORTH & SOUTH:	Dale Evans Pkwy	LOCATION #:	10
TUESDAY	EAST & WEST:	Corwin Rd	CONTROL:	STOP ALL

CLASS 5: RV

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND Dale Evans Pkwy			SOUTHBOUND Dale Evans Pkwy			EASTBOUND Corwin Rd			WESTBOUND Corwin Rd			
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
	BEGIN PEAK HR		7:00 AM											
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR X	SRR X	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
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0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

Dale Evans Pkwy

NORTH SIDE

Corwin Rd WEST SIDE EAST SIDE **Corwin Rd**

SOUTH SIDE

Dale Evans Pkwy

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Apple Valley	PROJECT #:	SC4523
4/2/24	NORTH & SOUTH:	Dale Evans Pkwy	LOCATION #:	10
TUESDAY	EAST & WEST:	Corwin Rd	CONTROL:	STOP ALL

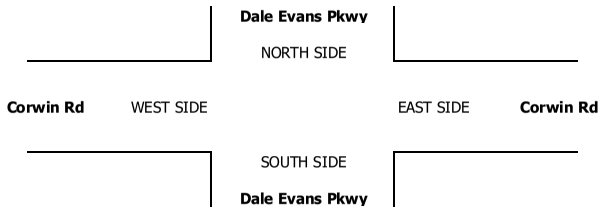
CLASS 6:	NOTES:
BUSES	

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND Dale Evans Pkwy			SOUTHBOUND Dale Evans Pkwy			EASTBOUND Corwin Rd			WESTBOUND Corwin Rd			
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
AM	7:00 AM	0	1	0	0	0	0	0	0	0	0	0	0	1
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	1	0	0	0	2	0	0	0	0	0	0	3
	7:45 AM	1	0	0	0	2	0	0	0	0	0	0	0	3
	8:00 AM	0	2	0	0	1	0	0	0	0	0	0	0	3
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	1	1	0	0	0	0	0	0	2
	8:45 AM	1	1	0	0	0	0	0	0	0	0	0	0	2
	VOLUMES	2	5	0	0	4	3	0	0	0	0	0	0	14
	APPROACH %	29%	71%	0%	0%	57%	43%	0%	0%	0%	0%	0%	0%	
	APP/DEPART	7	/	5	7	/	4	0	/	0	0	/	5	0
	BEGIN PEAK HR		7:00 AM											
	VOLUMES	1	2	0	0	2	2	0	0	0	0	0	0	7
	APPROACH %	33%	67%	0%	0%	50%	50%	0%	0%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.750			0.500			0.000			0.000		0.583
	APP/DEPART	3	/	2	4	/	2	0	/	0	0	/	3	0
PM	4:00 PM	0	1	0	0	0	0	0	1	0	0	0	0	2
	4:15 PM	0	1	0	0	1	0	0	0	0	0	0	0	2
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	1	0	0	0	0	1	0	0	0	0	0	0	2
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	1	0	0	0	0	0	0	0	0	0	0	1
	5:30 PM	0	0	0	0	0	1	0	0	0	0	0	0	1
	5:45 PM	1	0	0	0	0	0	0	0	0	0	0	0	1
	VOLUMES	2	3	0	0	1	2	0	1	0	0	0	0	9
	APPROACH %	40%	60%	0%	0%	33%	67%	0%	100%	0%	0%	0%	0%	
	APP/DEPART	5	/	3	3	/	1	1	/	1	0	/	4	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	1	2	0	0	1	1	0	1	0	0	0	0	6
	APPROACH %	33%	67%	0%	0%	50%	50%	0%	100%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.750			0.500			0.250			0.000		0.750
	APP/DEPART	3	/	2	2	/	1	1	/	1	0	/	2	0

U-TURNS					
	NB	SB	EB	WB	TTL
AM	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
PEAK HR	0	0	0	0	
PM	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
PEAK HR	0	0	0	0	

RTOR			
NRR X	SRR X	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0



A102423

24-HOUR ROADWAY SEGMENT COUNTS (WITH CLASSIFICATION)

Prepared by AimTD LLC tel. 714 253 7888 cs@aimtd.com

DATE: Tuesday, April 02, 2024 **CITY:** Apple Valley

JOB #: SC4523 **LOCATION:** CLASS4 Stoddard Wells Rd east of I-15 NB Ramps

AM TIME	EB 1	2	3	4	5	6	TOTAL
0:00	1	0	0	0	0	0	1
0:15	3	0	0	1	0	0	4
0:30	2	0	1	0	0	0	3
0:45	2	0	1	1	0	0	4
1:00	0	0	0	2	0	0	2
1:15	2	0	1	1	0	0	4
1:30	5	0	0	0	0	0	5
1:45	5	0	0	0	0	0	5
2:00	2	0	1	1	0	0	4
2:15	2	0	0	0	0	0	2
2:30	4	0	0	1	0	0	5
2:45	8	0	0	0	0	0	8
3:00	7	0	0	0	0	0	7
3:15	6	0	0	0	0	0	6
3:30	15	0	0	1	0	0	16
3:45	17	0	0	2	0	0	19
4:00	18	0	0	0	0	0	18
4:15	25	0	1	0	0	0	26
4:30	33	0	0	2	0	0	35
4:45	63	0	0	3	0	0	66
5:00	29	0	1	3	0	0	33
5:15	60	1	0	3	0	0	64
5:30	32	2	1	4	0	0	39
5:45	34	0	0	2	0	0	36
6:00	20	0	2	6	0	0	28
6:15	23	2	2	0	0	0	27
6:30	17	3	1	2	0	0	23
6:45	14	2	1	3	0	0	20
7:00	14	1	1	2	0	0	18
7:15	13	2	2	3	0	0	20
7:30	25	1	0	2	0	0	28
7:45	15	0	1	3	0	0	19
8:00	11	4	5	3	0	0	23
8:15	14	0	4	5	0	0	23
8:30	15	1	4	5	0	0	25
8:45	15	2	4	2	0	0	23
9:00	13	0	1	9	0	0	23
9:15	6	2	3	8	0	0	19
9:30	10	4	3	3	0	0	20
9:45	4	2	1	3	0	0	10
10:00	10	1	7	10	0	0	28
10:15	6	4	2	4	0	0	16
10:30	11	2	6	10	0	0	29
10:45	5	4	3	3	0	0	15
11:00	8	6	2	6	0	0	22
11:15	6	1	1	4	0	0	12
11:30	7	1	5	4	0	0	17
11:45	8	1	3	7	0	0	19
TOTAL	665	49	71	134	0	0	919

AM PEAK HOUR	4:45 AM
AM PEAK VOLUME	202

PM Time	EB 1	2	3	4	5	6	TOTAL
12:00	3	2	5	4	0	0	14
12:15	5	0	2	4	0	0	11
12:30	8	1	2	7	0	0	18
12:45	4	0	2	8	0	0	14
13:00	9	2	1	3	0	0	15
13:15	7	1	2	3	0	0	13
13:30	10	1	6	6	0	0	23
13:45	13	1	3	3	0	0	20
14:00	10	0	2	5	0	0	17
14:15	21	4	1	4	0	0	30
14:30	18	1	2	3	0	0	24
14:45	13	0	1	5	0	0	19
15:00	17	1	1	6	0	0	25
15:15	31	1	4	5	0	0	41
15:30	27	4	2	8	0	0	41
15:45	52	1	0	4	0	0	57
16:00	48	2	2	2	0	0	54
16:15	60	2	0	9	0	0	71
16:30	27	1	1	2	0	0	31
16:45	15	2	0	3	0	0	20
17:00	18	1	1	6	0	0	26
17:15	11	0	0	1	0	0	12
17:30	22	1	1	3	0	0	27
17:45	24	0	0	2	0	0	26
18:00	10	1	2	5	0	0	18
18:15	12	0	0	9	0	0	21
18:30	12	0	3	4	0	0	19
18:45	10	0	0	3	0	0	13
19:00	10	0	1	0	0	0	11
19:15	9	0	0	0	0	0	9
19:30	11	1	0	5	0	0	17
19:45	7	0	2	3	0	0	12
20:00	8	0	0	2	0	0	10
20:15	6	0	0	6	0	0	12
20:30	11	0	0	5	0	0	16
20:45	9	0	3	1	1	0	14
21:00	4	0	0	0	0	0	4
21:15	4	0	1	2	0	0	7
21:30	1	0	0	0	0	0	1
21:45	7	0	0	2	0	0	9
22:00	3	0	0	2	0	0	5
22:15	5	0	0	1	0	0	6
22:30	2	0	1	0	0	0	3
22:45	3	0	2	2	0	0	7
23:00	0	0	0	1	0	0	1
23:15	1	0	0	0	0	0	1
23:30	0	0	1	2	0	0	3
23:45	1	0	0	3	0	0	4
TOTAL	619	31	57	164	1	0	872

AM PEAK HOUR	3:30 PM
AM PEAK VOLUME	223

CLASS 1	PASSENGER VEHICLES	TOTAL: AM+PM	1,284	80	128	298	1	0	1,791
CLASS 2	2-AXLE TRUCKS	% OF TOTAL	71.7%	4.5%	7.1%	16.6%	0.1%	0.0%	100.0%
CLASS 3	3-AXLE TRUCKS								
CLASS 4	4 OR MORE AXLE TRUCKS								
CLASS 5	RV	TOTAL: ALL	2,346	148	191	678	1	0	3,364
CLASS 6	Buses	% OF TOTAL	69.7%	4.4%	5.7%	20.2%	0.0%	0.0%	100.0%

A102423

24-HOUR ROADWAY SEGMENT COUNTS (WITH CLASSIFICATION)

Prepared by AimTD LLC tel. 714 253 7888 cs@aimtd.com

DATE: Tuesday, April 02, 2024
JOB #: SC4523
CITY: Apple Valley
LOCATION: CLASS4 Stoddard Wells Rd east of I-15 NB Ramps

AM	WB						
TIME	1	2	3	4	5	6	TOTAL
0:00	2	0	1	2	0	0	5
0:15	1	0	0	2	0	0	3
0:30	2	0	0	2	0	0	4
0:45	2	0	0	2	0	0	4
1:00	9	0	0	1	0	0	10
1:15	7	0	0	0	0	0	7
1:30	7	0	0	3	0	0	10
1:45	2	0	0	1	0	0	3
2:00	9	0	0	1	0	0	10
2:15	4	0	0	1	0	0	5
2:30	11	1	0	6	0	0	18
2:45	11	0	0	1	0	0	12
3:00	29	0	0	1	0	0	30
3:15	19	0	0	2	0	0	21
3:30	15	0	0	1	0	0	16
3:45	19	0	0	2	0	0	21
4:00	5	0	0	1	0	0	6
4:15	1	0	1	0	0	0	2
4:30	3	0	0	2	0	0	5
4:45	5	0	0	3	0	0	8
5:00	7	0	0	2	0	0	9
5:15	3	0	0	1	0	0	4
5:30	8	2	0	0	0	0	10
5:45	6	1	1	2	0	0	10
6:00	13	0	0	4	0	0	17
6:15	5	0	0	2	0	0	7
6:30	8	0	0	4	0	0	12
6:45	6	0	0	7	0	0	13
7:00	8	1	0	4	0	0	13
7:15	8	1	0	3	0	0	12
7:30	7	0	1	6	0	0	14
7:45	13	1	1	13	0	0	28
8:00	9	2	2	4	0	0	17
8:15	8	2	0	5	0	0	15
8:30	8	1	1	3	0	0	13
8:45	13	1	1	5	0	0	20
9:00	10	0	0	7	0	0	17
9:15	7	1	3	5	0	0	16
9:30	3	0	0	9	0	0	12
9:45	4	3	1	5	0	0	13
10:00	6	1	4	6	0	0	17
10:15	7	1	2	10	0	0	20
10:30	3	0	1	11	0	0	15
10:45	6	5	1	9	0	0	21
11:00	8	2	1	9	0	0	20
11:15	2	1	2	12	0	0	17
11:30	11	6	1	10	0	0	28
11:45	8	4	2	4	0	0	18
TOTAL	368	37	27	196	0	0	628

AM PEAK HOUR	3:00 AM
AM PEAK VOLUME	88

PM	WB						
Time	1	2	3	4	5	6	TOTAL
12:00	10	2	2	3	0	0	17
12:15	4	1	3	6	0	0	14
12:30	6	2	1	7	0	0	16
12:45	7	3	0	8	0	0	18
13:00	10	1	0	8	0	0	19
13:15	10	1	2	8	0	0	21
13:30	20	1	1	6	0	0	28
13:45	30	1	0	3	0	0	34
14:00	14	1	1	5	0	0	21
14:15	7	1	0	7	0	0	15
14:30	34	0	0	4	0	0	38
14:45	14	0	1	4	0	0	19
15:00	21	1	3	9	0	0	34
15:15	18	2	1	4	0	0	25
15:30	61	4	0	9	0	0	74
15:45	31	1	1	4	0	0	37
16:00	87	1	0	2	0	0	90
16:15	33	0	2	4	0	0	39
16:30	21	1	1	3	0	0	26
16:45	22	1	4	4	0	0	31
17:00	8	0	1	2	0	0	11
17:15	8	0	2	4	0	0	14
17:30	35	2	0	3	0	0	40
17:45	13	0	0	1	0	0	14
18:00	6	0	0	1	0	0	7
18:15	11	1	2	3	0	0	17
18:30	20	0	0	1	0	0	21
18:45	13	0	0	10	0	0	23
19:00	9	0	0	6	0	0	15
19:15	10	0	1	5	0	0	16
19:30	10	0	0	3	0	0	13
19:45	9	0	1	0	0	0	10
20:00	3	2	0	3	0	0	8
20:15	7	0	0	4	0	0	11
20:30	9	0	1	3	0	0	13
20:45	12	1	0	5	0	0	18
21:00	13	0	0	3	0	0	16
21:15	8	0	0	0	0	0	8
21:30	4	0	0	3	0	0	7
21:45	2	0	0	0	0	0	2
22:00	6	0	0	4	0	0	10
22:15	3	0	0	1	0	0	4
22:30	8	0	1	0	0	0	9
22:45	3	0	0	2	0	0	5
23:00	1	0	1	1	0	0	3
23:15	0	0	1	1	0	0	2
23:30	2	0	1	6	0	0	9
23:45	1	0	1	1	0	0	3
TOTAL	694	31	36	184	0	0	945

AM PEAK HOUR	3:30 PM
AM PEAK VOLUME	240

TOTAL: AM+PM	1,062	68	63	380	0	0	1,573
% OF TOTAL	67.5%	4.3%	4.0%	24.2%	0.0%	0.0%	100.0%

CLASS 1	PASSENGER VEHICLES
CLASS 2	2-AXLE TRUCKS
CLASS 3	3-AXLE TRUCKS
CLASS 4	4 OR MORE AXLE TRUCKS
CLASS 5	RV
CLASS 6	BUS

A102423

24-HOUR ROADWAY SEGMENT COUNTS (WITH CLASSIFICATION)

Prepared by AimTD LLC tel. 714 253 7888 cs@aimtd.com

DATE: Tuesday, April 02, 2024 **CITY:** Apple Valley

JOB #: SC4523 **LOCATION:** CLASS4 Stoddard Wells Rd east of I-15 NB Ramps

AM TIME	COMBINED 1	2	3	4	5	6	TOTAL	PM Time	COMBINED 1	2	3	4	5	6	TOTAL
0:00	3	0	1	2	0	0	6	12:00	13	4	7	7	0	0	31
0:15	4	0	0	3	0	0	7	12:15	9	1	5	10	0	0	25
0:30	4	0	1	2	0	0	7	12:30	14	3	3	14	0	0	34
0:45	4	0	1	3	0	0	8	12:45	11	3	2	16	0	0	32
1:00	9	0	0	3	0	0	12	13:00	19	3	1	11	0	0	34
1:15	9	0	1	1	0	0	11	13:15	17	2	4	11	0	0	34
1:30	12	0	0	3	0	0	15	13:30	30	2	7	12	0	0	51
1:45	7	0	0	1	0	0	8	13:45	43	2	3	6	0	0	54
2:00	11	0	1	2	0	0	14	14:00	24	1	3	10	0	0	38
2:15	6	0	0	1	0	0	7	14:15	28	5	1	11	0	0	45
2:30	15	1	0	7	0	0	23	14:30	52	1	2	7	0	0	62
2:45	19	0	0	1	0	0	20	14:45	27	0	2	9	0	0	38
3:00	36	0	0	1	0	0	37	15:00	38	2	4	15	0	0	59
3:15	25	0	0	2	0	0	27	15:15	49	3	5	9	0	0	66
3:30	30	0	0	2	0	0	32	15:30	88	8	2	17	0	0	115
3:45	36	0	0	4	0	0	40	15:45	83	2	1	8	0	0	94
4:00	23	0	0	1	0	0	24	16:00	135	3	2	4	0	0	144
4:15	26	0	2	0	0	0	28	16:15	93	2	2	13	0	0	110
4:30	36	0	0	4	0	0	40	16:30	48	2	2	5	0	0	57
4:45	68	0	0	6	0	0	74	16:45	37	3	4	7	0	0	51
5:00	36	0	1	5	0	0	42	17:00	26	1	2	8	0	0	37
5:15	63	1	0	4	0	0	68	17:15	19	0	2	5	0	0	26
5:30	40	4	1	4	0	0	49	17:30	57	3	1	6	0	0	67
5:45	40	1	1	4	0	0	46	17:45	37	0	0	3	0	0	40
6:00	33	0	2	10	0	0	45	18:00	16	1	2	6	0	0	25
6:15	28	2	2	2	0	0	34	18:15	23	1	2	12	0	0	38
6:30	25	3	1	6	0	0	35	18:30	32	0	3	5	0	0	40
6:45	20	2	1	10	0	0	33	18:45	23	0	0	13	0	0	36
7:00	22	2	1	6	0	0	31	19:00	19	0	1	6	0	0	26
7:15	21	3	2	6	0	0	32	19:15	19	0	1	5	0	0	25
7:30	32	1	1	8	0	0	42	19:30	21	1	0	8	0	0	30
7:45	28	1	2	16	0	0	47	19:45	16	0	3	3	0	0	22
8:00	20	6	7	7	0	0	40	20:00	11	2	0	5	0	0	18
8:15	22	2	4	10	0	0	38	20:15	13	0	0	10	0	0	23
8:30	23	2	5	8	0	0	38	20:30	20	0	1	8	0	0	29
8:45	28	3	5	7	0	0	43	20:45	21	1	3	6	1	0	32
9:00	23	0	1	16	0	0	40	21:00	17	0	0	3	0	0	20
9:15	13	3	6	13	0	0	35	21:15	12	0	1	2	0	0	15
9:30	13	4	3	12	0	0	32	21:30	5	0	0	3	0	0	8
9:45	8	5	2	8	0	0	23	21:45	9	0	0	2	0	0	11
10:00	16	2	11	16	0	0	45	22:00	9	0	0	6	0	0	15
10:15	13	5	4	14	0	0	36	22:15	8	0	0	2	0	0	10
10:30	14	2	7	21	0	0	44	22:30	10	0	2	0	0	0	12
10:45	11	9	4	12	0	0	36	22:45	6	0	2	4	0	0	12
11:00	16	8	3	15	0	0	42	23:00	1	0	1	2	0	0	4
11:15	8	2	3	16	0	0	29	23:15	1	0	1	1	0	0	3
11:30	18	7	6	14	0	0	45	23:30	2	0	2	8	0	0	12
11:45	16	5	5	11	0	0	37	23:45	2	0	1	4	0	0	7
TOTAL	1,033	86	98	330	0	0	1,547	TOTAL	1,313	62	93	348	1	0	1,817

AM PEAK HOUR	4:45 AM
AM PEAK VOLUME	233

AM PEAK HOUR	3:30 PM
AM PEAK VOLUME	463

CLASS 1	PASSENGER VEHICLES
CLASS 2	2-AXLE TRUCKS
CLASS 3	3-AXLE TRUCKS
CLASS 4	4 OR MORE AXLE TRUCKS
CLASS 5	RV
CLASS 6	Buses

	1	2	3	4	5	6	TOTAL
TOTAL: AM+PM	2,346	148	191	678	1	0	3,364
% OF TOTAL	69.7%	4.4%	5.7%	20.2%	0.0%	0.0%	100.0%

31124

24-HOUR ROADWAY SEGMENT COUNTS (WITH CLASSIFICATION)

Prepared by AimTD LLC tel. 714 253 7888 cs@aimtd.com

DATE: Tuesday, April 02, 2024 **CITY:** Apple Valley

JOB #: SC4523 **LOCATION:** CLASS2 Johnson Rd west of Navajo Rd

AM	EB							PM	EB						
TIME	1	2	3	4	5	6	TOTAL	Time	1	2	3	4	5	6	TOTAL
0:00	3	3	0	1	0	0	7	12:00	6	2	0	1	0	1	10
0:15	3	0	0	0	0	0	3	12:15	1	1	0	0	0	0	2
0:30	1	1	1	1	0	0	4	12:30	0	1	0	0	0	0	1
0:45	2	0	1	1	0	0	4	12:45	1	0	0	3	0	0	4
1:00	2	0	0	0	0	0	2	13:00	3	2	1	5	0	1	12
1:15	1	0	1	1	0	0	3	13:15	3	3	0	0	0	0	6
1:30	2	0	0	0	0	0	2	13:30	3	4	0	1	0	0	8
1:45	2	0	0	1	0	0	3	13:45	4	0	0	3	0	0	7
2:00	5	1	0	0	0	0	6	14:00	10	2	0	2	0	1	15
2:15	0	1	1	1	0	0	3	14:15	13	3	0	3	0	0	19
2:30	1	0	1	2	0	0	4	14:30	7	1	0	2	0	0	10
2:45	4	0	0	0	0	0	4	14:45	12	3	0	0	0	0	15
3:00	17	4	0	0	0	0	21	15:00	10	4	0	1	0	0	15
3:15	2	0	0	1	0	0	3	15:15	16	9	0	1	0	1	27
3:30	4	1	0	1	0	0	6	15:30	13	10	0	4	0	0	27
3:45	0	1	0	1	0	0	2	15:45	22	8	0	1	0	0	31
4:00	2	1	0	1	0	0	4	16:00	29	0	0	0	0	0	29
4:15	0	1	0	0	0	0	1	16:15	16	2	1	3	0	1	23
4:30	3	1	0	0	0	0	4	16:30	18	1	0	0	0	0	19
4:45	9	1	0	1	0	0	11	16:45	21	0	0	0	0	0	21
5:00	2	0	1	1	0	0	4	17:00	14	2	0	1	0	0	17
5:15	3	1	0	0	0	0	4	17:15	16	0	1	0	0	1	18
5:30	9	0	0	3	0	0	12	17:30	13	0	1	1	0	0	15
5:45	12	1	0	2	0	0	15	17:45	18	1	0	1	0	0	20
6:00	8	3	0	0	0	0	11	18:00	8	3	1	0	0	0	12
6:15	1	1	0	2	0	0	4	18:15	2	4	0	2	0	1	9
6:30	4	2	0	0	0	1	7	18:30	4	1	0	1	0	0	6
6:45	4	2	0	2	0	0	8	18:45	7	2	0	0	0	0	9
7:00	4	1	0	1	0	1	7	19:00	2	3	0	1	0	1	7
7:15	8	0	0	0	0	0	8	19:15	7	2	0	2	0	0	11
7:30	18	0	0	0	0	0	18	19:30	8	0	0	0	0	0	8
7:45	11	0	0	1	0	0	12	19:45	6	1	0	1	0	0	8
8:00	3	0	0	1	0	1	5	20:00	4	0	0	1	0	1	6
8:15	9	1	0	2	0	0	12	20:15	4	1	0	0	0	0	5
8:30	8	1	0	1	0	0	10	20:30	7	0	0	2	0	0	9
8:45	16	0	0	2	0	0	18	20:45	4	1	1	0	0	1	7
9:00	6	2	0	2	0	1	11	21:00	2	0	0	0	0	0	2
9:15	5	1	0	0	0	0	6	21:15	1	1	0	1	0	0	3
9:30	2	2	0	3	0	0	7	21:30	2	1	0	1	0	0	4
9:45	3	1	0	1	0	0	5	21:45	5	1	0	1	0	0	7
10:00	1	2	1	3	0	0	7	22:00	2	4	0	1	0	0	7
10:15	3	3	2	1	0	1	10	22:15	2	1	0	2	0	0	5
10:30	7	1	1	2	0	0	11	22:30	1	0	0	1	0	0	2
10:45	3	1	1	0	0	0	5	22:45	1	0	0	0	0	0	1
11:00	1	6	0	2	0	2	11	23:00	0	0	0	1	0	0	1
11:15	3	0	0	1	0	0	4	23:15	3	0	1	1	0	0	5
11:30	1	1	0	0	0	0	2	23:30	0	1	1	0	0	0	2
11:45	2	2	0	1	0	0	5	23:45	1	1	0	2	0	0	4
TOTAL	220	51	11	47	0	7	336	TOTAL	352	87	8	54	0	10	511

AM PEAK HOUR	8:15 AM
AM PEAK VOLUME	51

AM PEAK HOUR	3:15 PM
AM PEAK VOLUME	114

CLASS 1	PASSENGER VEHICLES	TOTAL: AM+PM	572	138	19	101	0	17	847
CLASS 2	2-AXLE TRUCKS	% OF TOTAL	67.5%	16.3%	2.2%	11.9%	0.0%	2.0%	100.0%
CLASS 3	3-AXLE TRUCKS								
CLASS 4	4 OR MORE AXLE TRUCKS								
CLASS 5	RV	TOTAL: ALL	980	279	37	201	0	37	1,534
CLASS 6	Buses	% OF TOTAL	63.9%	18.2%	2.4%	13.1%	0.0%	2.4%	100.0%

24-HOUR ROADWAY SEGMENT COUNTS (WITH CLASSIFICATION)

Prepared by AimTD LLC tel. 714 253 7888 cs@aimtd.com

DATE: Tuesday, April 02, 2024
JOB #: SC4523
CITY: Apple Valley
LOCATION: CLASS2 Johnson Rd west of Navajo Rd

AM TIME	WB 1	2	3	4	5	6	TOTAL	PM Time	WB 1	2	3	4	5	6	TOTAL
0:00	0	0	0	0	0	0	0	12:00	2	2	1	0	0	0	5
0:15	0	0	1	1	0	0	2	12:15	1	1	0	0	0	0	2
0:30	0	0	0	1	0	0	1	12:30	2	0	0	2	0	1	5
0:45	0	1	0	1	0	0	2	12:45	1	2	0	0	0	0	3
1:00	0	1	0	2	0	0	3	13:00	1	1	0	2	0	0	4
1:15	3	1	0	2	0	0	6	13:15	5	2	1	1	0	0	9
1:30	3	1	0	1	0	0	5	13:30	5	1	0	1	0	1	8
1:45	1	1	0	1	0	0	3	13:45	4	2	0	1	0	1	8
2:00	2	1	0	0	0	0	3	14:00	3	3	0	0	0	0	6
2:15	2	2	0	0	0	0	4	14:15	5	1	0	1	0	0	7
2:30	2	3	0	3	0	0	8	14:30	8	1	0	2	0	1	12
2:45	0	0	0	2	0	0	2	14:45	1	3	0	1	0	0	5
3:00	2	1	0	0	0	0	3	15:00	5	3	1	2	0	0	11
3:15	2	0	0	1	0	0	3	15:15	1	2	0	0	0	0	3
3:30	6	2	0	2	0	0	10	15:30	6	2	0	0	0	1	9
3:45	3	0	0	1	0	0	4	15:45	6	3	0	3	0	0	12
4:00	2	1	0	1	0	0	4	16:00	17	0	1	1	0	0	19
4:15	6	2	1	0	0	0	9	16:15	31	0	0	0	0	0	31
4:30	2	3	0	2	0	0	7	16:30	9	1	1	2	0	1	14
4:45	5	4	1	2	0	0	12	16:45	6	1	2	1	0	0	10
5:00	9	6	0	0	0	1	16	17:00	2	0	0	4	0	0	6
5:15	9	6	0	0	0	0	15	17:15	4	0	0	1	0	0	5
5:30	2	7	0	0	0	0	9	17:30	27	0	0	0	0	1	28
5:45	5	2	0	0	0	0	7	17:45	3	0	0	2	0	0	5
6:00	9	2	0	0	0	1	12	18:00	4	1	0	1	0	0	6
6:15	5	3	0	2	0	0	10	18:15	8	5	0	1	0	0	14
6:30	4	1	0	1	0	1	7	18:30	6	1	0	1	0	1	9
6:45	1	2	0	0	0	0	3	18:45	8	1	0	3	0	0	12
7:00	5	1	0	2	0	0	8	19:00	4	3	0	1	0	0	8
7:15	3	0	0	1	0	1	5	19:15	5	1	0	0	0	0	6
7:30	8	0	1	2	0	1	12	19:30	5	0	0	1	0	1	7
7:45	9	1	0	0	0	0	10	19:45	4	1	0	0	0	0	5
8:00	2	3	0	1	0	0	6	20:00	0	0	0	1	0	0	1
8:15	5	1	0	2	0	0	8	20:15	2	3	0	1	0	0	6
8:30	6	1	1	1	0	1	10	20:30	14	1	0	0	0	1	16
8:45	2	0	0	3	0	0	5	20:45	10	5	0	0	0	0	15
9:00	7	1	1	3	0	0	12	21:00	7	3	0	0	0	0	10
9:15	5	0	0	1	0	0	6	21:15	3	2	0	1	0	0	6
9:30	0	2	0	3	0	2	7	21:30	1	0	0	1	0	0	2
9:45	0	0	0	2	0	0	2	21:45	3	0	0	1	0	0	4
10:00	1	1	0	2	0	0	4	22:00	5	1	0	1	0	0	7
10:15	1	1	1	0	0	0	3	22:15	0	1	0	1	0	0	2
10:30	3	1	0	1	0	1	6	22:30	1	1	0	1	0	0	3
10:45	6	4	0	1	0	0	11	22:45	0	0	1	0	0	0	1
11:00	9	1	0	1	0	0	11	23:00	0	0	0	0	0	0	0
11:15	2	1	0	1	0	0	4	23:15	1	1	1	0	0	0	3
11:30	2	4	1	1	0	1	9	23:30	0	0	0	1	0	0	1
11:45	1	3	1	1	0	0	6	23:45	0	0	0	1	0	0	1
TOTAL	162	79	9	55	0	10	315	**TOTAL**	246	62	9	45	0	10	372
				AM PEAK HOUR			4:45 AM					**AM PEAK HOUR**			3:45 PM
				AM PEAK VOLUME			52					**AM PEAK VOLUME**			76

CLASS 1	PASSENGER VEHICLES	**TOTAL: AM+PM**	408	141	18	100	0	20	687
CLASS 2	2-AXLE TRUCKS	**% OF TOTAL**	59.4%	20.5%	2.6%	14.6%	0.0%	2.9%	100.0%
CLASS 3	3-AXLE TRUCKS								
CLASS 4	4 OR MORE AXLE TRUCKS								
CLASS 5	RV								
CLASS 6	BUS								

31124

24-HOUR ROADWAY SEGMENT COUNTS (WITH CLASSIFICATION)

Prepared by AimTD LLC tel. 714 253 7888 cs@aimtd.com

DATE: Tuesday, April 02, 2024 **CITY:** Apple Valley

JOB #: SC4523 **LOCATION:** CLASS2 Johnson Rd west of Navajo Rd

AM	COMBINED							PM	COMBINED						
TIME	1	2	3	4	5	6	TOTAL	Time	1	2	3	4	5	6	TOTAL
0:00	3	3	0	1	0	0	7	12:00	8	4	1	1	0	1	15
0:15	3	0	1	1	0	0	5	12:15	2	2	0	0	0	0	4
0:30	1	1	1	2	0	0	5	12:30	2	1	0	2	0	1	6
0:45	2	1	1	2	0	0	6	12:45	2	2	0	3	0	0	7
1:00	2	1	0	2	0	0	5	13:00	4	3	1	7	0	1	16
1:15	4	1	1	3	0	0	9	13:15	8	5	1	1	0	0	15
1:30	5	1	0	1	0	0	7	13:30	8	5	0	2	0	1	16
1:45	3	1	0	2	0	0	6	13:45	8	2	0	4	0	1	15
2:00	7	2	0	0	0	0	9	14:00	13	5	0	2	0	1	21
2:15	2	3	1	1	0	0	7	14:15	18	4	0	4	0	0	26
2:30	3	3	1	5	0	0	12	14:30	15	2	0	4	0	1	22
2:45	4	0	0	2	0	0	6	14:45	13	6	0	1	0	0	20
3:00	19	5	0	0	0	0	24	15:00	15	7	1	3	0	0	26
3:15	4	0	0	2	0	0	6	15:15	17	11	0	1	0	1	30
3:30	10	3	0	3	0	0	16	15:30	19	12	0	4	0	1	36
3:45	3	1	0	2	0	0	6	15:45	28	11	0	4	0	0	43
4:00	4	2	0	2	0	0	8	16:00	46	0	1	1	0	0	48
4:15	6	3	1	0	0	0	10	16:15	47	2	1	3	0	1	54
4:30	5	4	0	2	0	0	11	16:30	27	2	1	2	0	1	33
4:45	14	5	1	3	0	0	23	16:45	27	1	2	1	0	0	31
5:00	11	6	1	1	0	1	20	17:00	16	2	0	5	0	0	23
5:15	12	7	0	0	0	0	19	17:15	20	0	1	1	0	1	23
5:30	11	7	0	3	0	0	21	17:30	40	0	1	1	0	1	43
5:45	17	3	0	2	0	0	22	17:45	21	1	0	3	0	0	25
6:00	17	5	0	0	0	1	23	18:00	12	4	1	1	0	0	18
6:15	6	4	0	4	0	0	14	18:15	10	9	0	3	0	1	23
6:30	8	3	0	1	0	2	14	18:30	10	2	0	2	0	1	15
6:45	5	4	0	2	0	0	11	18:45	15	3	0	3	0	0	21
7:00	9	2	0	3	0	1	15	19:00	6	6	0	2	0	1	15
7:15	11	0	0	1	0	1	13	19:15	12	3	0	2	0	0	17
7:30	26	0	1	2	0	1	30	19:30	13	0	0	1	0	1	15
7:45	20	1	0	1	0	0	22	19:45	10	2	0	1	0	0	13
8:00	5	3	0	2	0	1	11	20:00	4	0	0	2	0	1	7
8:15	14	2	0	4	0	0	20	20:15	6	4	0	1	0	0	11
8:30	14	2	1	2	0	1	20	20:30	21	1	0	2	0	1	25
8:45	18	0	0	5	0	0	23	20:45	14	6	1	0	0	1	22
9:00	13	3	1	5	0	1	23	21:00	9	3	0	0	0	0	12
9:15	10	1	0	1	0	0	12	21:15	4	3	0	2	0	0	9
9:30	2	4	0	6	0	2	14	21:30	3	1	0	2	0	0	6
9:45	3	1	0	3	0	0	7	21:45	8	1	0	2	0	0	11
10:00	2	3	1	5	0	0	11	22:00	7	5	0	2	0	0	14
10:15	4	4	3	1	0	1	13	22:15	2	2	0	3	0	0	7
10:30	10	2	1	3	0	1	17	22:30	2	1	0	2	0	0	5
10:45	9	5	1	1	0	0	16	22:45	1	0	1	0	0	0	2
11:00	10	7	0	3	0	2	22	23:00	0	0	0	1	0	0	1
11:15	5	1	0	2	0	0	8	23:15	4	1	2	1	0	0	8
11:30	3	5	1	1	0	1	11	23:30	0	1	1	1	0	0	3
11:45	3	5	1	2	0	0	11	23:45	1	1	0	3	0	0	5
TOTAL	382	130	20	102	0	17	651	TOTAL	598	149	17	99	0	20	883

AM PEAK HOUR	8:15 AM
AM PEAK VOLUME	86

AM PEAK HOUR	3:30 PM
AM PEAK VOLUME	181

TOTAL: AM+PM	980	279	37	201	0	37	1,534		
% OF TOTAL	63.9%	18.2%	2.4%	13.1%	0.0%	2.4%	100.0%		

CLASS 1	PASSENGER VEHICLES
CLASS 2	2-AXLE TRUCKS
CLASS 3	3-AXLE TRUCKS
CLASS 4	4 OR MORE AXLE TRUCKS
CLASS 5	RV
CLASS 6	Buses

Counts Unlimited, Inc.

PO Box 1178
Corona, CA 92878
Phone: (951) 268-6268
email: counts@countsunlimited.com

Town of Apple Valley
Johnson Road
W/ Central Road
24 Hour Directional Classification Count

APV003
Site Code: 051-24070

Eastbound

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
01/30/24	0	10	0	0	0	0	0	0	0	0	0	0	0	10
01:00	0	13	0	0	0	0	0	0	1	0	0	0	0	14
02:00	0	5	0	0	0	0	0	0	1	0	0	0	0	6
03:00	0	**17**	2	0	0	0	0	0	0	0	0	0	0	**19**
04:00	0	7	1	0	0	0	0	0	1	0	0	0	0	9
05:00	0	7	1	0	0	0	0	**1**	1	0	0	0	0	10
06:00	0	11	6	0	0	**1**	0	1	0	0	0	0	0	19
07:00	0	7	4	0	0	0	0	0	1	0	0	0	0	12
08:00	0	9	2	0	0	0	0	0	0	0	0	0	0	11
09:00	0	6	1	0	0	1	0	0	0	0	0	0	0	8
10:00	**1**	9	5	0	0	0	0	0	**2**	0	0	0	0	17
11:00	0	2	**8**	0	**1**	0	0	1	2	0	0	0	0	14
12 PM	0	18	5	0	**2**	0	0	0	0	0	0	0	0	25
13:00	0	20	8	0	1	0	0	0	**1**	0	0	0	0	30
14:00	0	21	9	0	1	0	0	**1**	0	0	0	0	0	32
15:00	**1**	52	17	0	2	0	0	1	1	0	0	0	0	74
16:00	0	**56**	**25**	0	0	**1**	0	0	0	0	0	0	0	**82**
17:00	0	43	11	0	0	0	0	0	1	0	0	0	0	55
18:00	0	26	2	0	0	0	0	1	1	0	0	0	0	30
19:00	0	14	0	0	0	0	0	0	1	0	0	0	0	15
20:00	0	8	0	0	0	0	0	0	0	0	0	0	0	8
21:00	0	4	0	0	0	0	0	0	0	0	0	0	0	4
22:00	0	14	0	0	0	0	0	0	0	0	0	0	0	14
23:00	0	7	0	0	0	0	0	0	0	0	0	0	0	7
Total	2	386	107	0	7	3	0	6	14	0	0	0	0	525
Percent	0.4%	73.5%	20.4%	0.0%	1.3%	0.6%	0.0%	1.1%	2.7%	0.0%	0.0%	0.0%	0.0%	
AM Peak	10:00	03:00	11:00		11:00	06:00		05:00	10:00					03:00
Vol.	1	17	8		1	1		1	2					19
PM Peak	15:00	16:00	16:00		12:00	16:00		14:00	13:00					16:00
Vol.	1	56	25		2	1		1	1					82
Grand Total	2	386	107	0	7	3	0	6	14	0	0	0	0	525
Percent	0.4%	73.5%	20.4%	0.0%	1.3%	0.6%	0.0%	1.1%	2.7%	0.0%	0.0%	0.0%	0.0%	

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Town of Apple Valley
Johnson Road
W/ Central Road
24 Hour Directional Classification Count

APV003
Site Code: 051-24070

Westbound

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
01/30/24	0	1	0	0	0	0	0	0	0	0	0	0	0	1
01:00	0	0	0	0	1	0	0	0	0	0	0	0	0	1
02:00	0	4	0	0	0	0	0	0	0	0	0	0	0	4
03:00	0	6	1	0	0	0	0	0	0	0	0	0	0	7
04:00	0	32	7	0	0	0	0	**1**	0	0	0	0	0	40
05:00	0	**42**	**14**	0	0	0	0	0	0	0	0	0	0	**56**
06:00	0	28	5	1	0	0	0	0	**1**	0	0	0	0	35
07:00	0	31	5	1	0	0	0	0	1	0	0	0	0	38
08:00	0	17	6	**2**	1	0	0	0	1	0	0	0	0	27
09:00	0	16	3	0	0	0	0	1	0	0	0	0	0	20
10:00	**1**	9	3	0	2	0	0	0	0	0	0	0	0	15
11:00	1	8	2	0	**3**	0	0	0	1	0	0	0	0	15
12 PM	0	13	6	0	0	0	0	0	**2**	0	0	0	0	21
13:00	**1**	13	**9**	0	0	0	0	0	0	0	0	0	0	23
14:00	0	10	6	0	**1**	0	0	0	1	0	0	0	0	18
15:00	0	18	9	**1**	0	1	0	0	1	0	0	0	0	30
16:00	0	**40**	9	0	1	**2**	0	**2**	1	0	0	0	0	**55**
17:00	0	13	2	0	0	0	0	0	0	0	0	0	0	15
18:00	0	4	0	0	0	0	0	0	0	0	0	0	0	4
19:00	1	7	0	0	0	0	0	0	2	0	0	0	0	10
20:00	0	4	0	0	0	0	0	0	0	0	0	0	0	4
21:00	0	3	0	0	0	0	0	0	0	0	0	0	0	3
22:00	0	3	0	0	0	0	0	0	0	0	0	0	0	3
23:00	0	2	0	0	0	0	0	0	0	0	0	0	0	2
Total	4	324	87	5	9	3	0	4	11	0	0	0	0	447
Percent	0.9%	72.5%	19.5%	1.1%	2.0%	0.7%	0.0%	0.9%	2.5%	0.0%	0.0%	0.0%	0.0%	
AM Peak	10:00	05:00	05:00	08:00	11:00			04:00	06:00					05:00
Vol.	1	42	14	2	3			1	1					56
PM Peak	13:00	16:00	13:00	15:00	14:00	16:00		16:00	12:00					16:00
Vol.	1	40	9	1	1	2		2	2					55
Grand Total	4	324	87	5	9	3	0	4	11	0	0	0	0	447
Percent	0.9%	72.5%	19.5%	1.1%	2.0%	0.7%	0.0%	0.9%	2.5%	0.0%	0.0%	0.0%	0.0%	

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Town of Apple Valley
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24 Hour Directional Classification Count

APV003
Site Code: 051-24070

Eastbound, Westbound

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
01/30/24	0	11	0	0	0	0	0	0	0	0	0	0	0	11
01:00	0	13	0	0	1	0	0	0	1	0	0	0	0	15
02:00	0	9	0	0	0	0	0	0	1	0	0	0	0	10
03:00	0	23	3	0	0	0	0	0	0	0	0	0	0	26
04:00	0	39	8	0	0	0	0	**1**	1	0	0	0	0	49
05:00	0	**49**	**15**	0	0	0	0	1	1	0	0	0	0	**66**
06:00	0	39	11	1	0	**1**	0	1	1	0	0	0	0	54
07:00	0	38	9	1	0	0	0	0	2	0	0	0	0	50
08:00	0	26	8	**2**	1	0	0	0	1	0	0	0	0	38
09:00	0	22	4	0	0	1	0	1	0	0	0	0	0	28
10:00	**2**	18	8	0	2	0	0	0	2	0	0	0	0	32
11:00	1	10	10	0	**4**	0	0	1	**3**	0	0	0	0	29
12 PM	0	31	11	0	**2**	0	0	0	2	0	0	0	0	46
13:00	**1**	33	17	0	1	0	0	0	1	0	0	0	0	53
14:00	0	31	15	0	2	0	0	1	1	0	0	0	0	50
15:00	1	70	26	**1**	2	1	0	1	2	0	0	0	0	104
16:00	0	**96**	**34**	0	1	**3**	0	**2**	1	0	0	0	0	**137**
17:00	0	56	13	0	0	0	0	0	1	0	0	0	0	70
18:00	0	30	2	0	0	0	0	1	1	0	0	0	0	34
19:00	1	21	0	0	0	0	0	0	**3**	0	0	0	0	25
20:00	0	12	0	0	0	0	0	0	0	0	0	0	0	12
21:00	0	7	0	0	0	0	0	0	0	0	0	0	0	7
22:00	0	17	0	0	0	0	0	0	0	0	0	0	0	17
23:00	0	9	0	0	0	0	0	0	0	0	0	0	0	9
Total	6	710	194	5	16	6	0	10	25	0	0	0	0	972
Percent	0.6%	73.0%	20.0%	0.5%	1.6%	0.6%	0.0%	1.0%	2.6%	0.0%	0.0%	0.0%	0.0%	
AM Peak	10:00	05:00	05:00	08:00	11:00	06:00		04:00	11:00					05:00
Vol.	2	49	15	2	4	1		1	3					66
PM Peak	13:00	16:00	16:00	15:00	12:00	16:00		16:00	19:00					16:00
Vol.	1	96	34	1	2	3		2	3					137
Grand Total	6	710	194	5	16	6	0	10	25	0	0	0	0	972
Percent	0.6%	73.0%	20.0%	0.5%	1.6%	0.6%	0.0%	1.0%	2.6%	0.0%	0.0%	0.0%	0.0%	

A102423

24-HOUR ROADWAY SEGMENT COUNTS (WITH CLASSIFICATION)

Prepared by AimTD LLC tel. 714 253 7888 cs@aimtd.com

DATE: Tuesday, April 02, 2024 **CITY:** Apple Valley

JOB #: SC4523 **LOCATION:** CLASS3 Dale Evans Pkwy south of Johnson Rd

AM	NB						
TIME	1	2	3	4	5	6	TOTAL
0:00	3	0	0	1	0	0	4
0:15	6	0	0	0	0	0	6
0:30	2	0	0	0	0	0	2
0:45	5	0	0	0	0	0	5
1:00	1	0	0	1	0	0	2
1:15	2	0	0	0	0	0	2
1:30	4	0	0	0	0	0	4
1:45	0	0	0	0	0	0	0
2:00	6	0	0	0	0	0	6
2:15	1	0	0	0	0	0	1
2:30	9	0	0	1	0	0	10
2:45	10	0	0	0	0	0	10
3:00	2	1	0	0	0	0	3
3:15	11	0	0	0	0	0	11
3:30	10	0	0	0	0	0	10
3:45	10	0	0	0	0	0	10
4:00	11	0	0	0	0	0	11
4:15	19	0	0	0	0	0	19
4:30	19	0	0	1	0	0	20
4:45	33	0	0	1	0	0	34
5:00	35	1	0	0	0	0	36
5:15	49	5	0	0	0	0	54
5:30	52	0	0	0	0	0	52
5:45	29	1	0	0	0	0	30
6:00	22	0	1	2	0	0	25
6:15	33	1	0	0	0	1	35
6:30	33	1	0	0	0	0	34
6:45	26	1	1	1	0	0	29
7:00	25	6	0	0	0	1	32
7:15	37	2	0	2	0	0	41
7:30	34	2	1	2	0	1	40
7:45	27	2	0	1	0	0	30
8:00	26	1	1	0	0	1	29
8:15	19	2	1	0	0	1	23
8:30	22	0	1	1	0	0	24
8:45	21	1	0	1	0	1	24
9:00	17	1	0	4	0	1	23
9:15	14	2	2	3	0	0	21
9:30	16	2	1	1	0	0	20
9:45	23	3	0	2	0	0	28
10:00	16	1	1	0	1	1	20
10:15	15	2	1	2	0	0	20
10:30	12	2	2	1	0	0	17
10:45	17	1	0	2	0	0	20
11:00	9	2	0	0	0	1	12
11:15	11	1	0	0	0	0	12
11:30	15	3	0	1	0	0	19
11:45	23	1	2	0	0	0	26
TOTAL	842	48	15	31	1	9	946

AM PEAK HOUR	4:45 AM
AM PEAK VOLUME	176

PM	NB						
Time	1	2	3	4	5	6	TOTAL
12:00	25	2	1	0	0	1	29
12:15	20	0	1	1	0	0	22
12:30	15	1	0	1	0	0	17
12:45	20	1	1	3	0	0	25
13:00	17	0	0	1	0	1	19
13:15	25	1	1	1	0	0	28
13:30	26	1	0	1	0	1	29
13:45	23	1	0	2	0	0	26
14:00	31	2	0	0	1	1	35
14:15	34	1	0	2	0	1	38
14:30	33	0	0	0	0	2	35
14:45	18	2	0	1	0	0	21
15:00	18	1	2	0	0	2	23
15:15	23	0	0	0	0	1	24
15:30	39	1	0	1	0	0	41
15:45	22	0	0	1	0	0	23
16:00	26	0	0	1	0	0	27
16:15	42	0	0	1	0	1	44
16:30	28	0	0	2	0	0	30
16:45	30	0	1	0	0	0	31
17:00	13	0	0	1	0	0	14
17:15	11	1	0	1	0	1	14
17:30	16	0	0	1	0	0	17
17:45	23	0	0	0	0	0	23
18:00	12	0	0	0	0	0	12
18:15	13	1	0	1	0	1	16
18:30	14	0	0	1	1	0	16
18:45	9	0	0	1	0	0	10
19:00	7	0	0	0	0	1	8
19:15	10	0	0	1	0	0	11
19:30	11	0	1	1	0	0	13
19:45	8	0	1	2	0	0	11
20:00	11	0	0	1	0	1	13
20:15	16	0	0	0	0	0	16
20:30	12	1	1	0	0	0	14
20:45	6	0	0	0	0	0	6
21:00	11	0	0	0	0	0	11
21:15	13	0	0	0	0	0	13
21:30	5	0	0	0	0	0	5
21:45	8	0	0	0	0	0	8
22:00	12	0	0	0	0	0	12
22:15	6	0	0	0	0	0	6
22:30	4	0	0	1	0	0	5
22:45	3	0	0	0	0	0	3
23:00	0	0	0	0	0	0	0
23:15	5	0	0	0	0	0	5
23:30	5	0	0	0	0	0	5
23:45	2	0	0	0	0	0	2
TOTAL	781	17	10	31	2	15	856

AM PEAK HOUR	3:30 PM
AM PEAK VOLUME	135

CLASS 1	PASSENGER VEHICLES
CLASS 2	2-AXLE TRUCKS
CLASS 3	3-AXLE TRUCKS
CLASS 4	4 OR MORE AXLE TRUCKS
CLASS 5	RV
CLASS 6	Buses

TOTAL: AM+PM	1,623	65	25	62	3	24	1,802
% OF TOTAL	90.1%	3.6%	1.4%	3.4%	0.2%	1.3%	100.0%
TOTAL: ALL	3,407	137	55	124	4	52	3,779
% OF TOTAL	90.2%	3.6%	1.5%	3.3%	0.1%	1.4%	100.0%

A102423

24-HOUR ROADWAY SEGMENT COUNTS (WITH CLASSIFICATION)

Prepared by AimTD LLC tel. 714 253 7888 cs@aimtd.com

DATE: Tuesday, April 02, 2024
JOB #: SC4523
CITY: Apple Valley
LOCATION: CLASS3 Dale Evans Pkwy south of Johnson Rd

AM TIME	SB 1	2	3	4	5	6	TOTAL
0:00	7	0	0	0	0	0	7
0:15	0	0	0	0	0	0	0
0:30	5	0	0	0	0	0	5
0:45	7	1	0	2	0	0	10
1:00	9	0	0	0	0	0	9
1:15	6	0	0	0	0	0	6
1:30	2	0	0	0	0	0	2
1:45	3	0	0	0	0	0	3
2:00	4	1	0	0	0	0	5
2:15	4	0	0	0	0	0	4
2:30	2	0	0	0	0	0	2
2:45	16	0	0	1	0	0	17
3:00	29	0	0	1	0	0	30
3:15	10	0	0	0	0	0	10
3:30	10	0	0	0	0	0	10
3:45	14	0	0	0	0	0	14
4:00	9	0	0	0	0	0	9
4:15	6	0	0	0	0	0	6
4:30	7	0	0	0	0	0	7
4:45	26	1	0	1	0	0	28
5:00	7	0	0	1	0	0	8
5:15	10	0	0	0	0	0	10
5:30	16	1	0	1	0	0	18
5:45	18	0	0	0	0	0	18
6:00	7	0	0	0	0	0	7
6:15	9	1	0	1	0	1	12
6:30	11	0	1	0	0	1	13
6:45	6	0	0	0	0	0	6
7:00	13	1	0	0	0	0	14
7:15	17	0	0	1	0	0	18
7:30	13	0	1	0	0	2	16
7:45	11	1	0	2	0	2	16
8:00	5	2	0	0	0	2	9
8:15	11	2	0	0	0	0	13
8:30	15	0	2	2	0	2	21
8:45	18	1	0	0	0	0	19
9:00	12	1	0	2	0	0	15
9:15	15	0	1	1	0	0	17
9:30	19	1	0	0	0	1	21
9:45	12	1	0	1	0	0	14
10:00	17	1	2	1	0	0	21
10:15	14	3	0	1	0	0	18
10:30	22	0	2	4	0	1	29
10:45	17	1	0	1	0	0	19
11:00	21	1	0	1	0	0	23
11:15	16	2	0	1	0	0	19
11:30	22	0	2	1	0	1	26
11:45	23	1	1	1	0	0	26
TOTAL	573	24	12	28	0	13	650

AM PEAK HOUR	11:00 AM
AM PEAK VOLUME	94

PM Time	SB 1	2	3	4	5	6	TOTAL
12:00	23	1	3	1	0	0	28
12:15	23	1	1	1	0	0	26
12:30	23	0	1	3	0	1	28
12:45	22	2	0	2	0	0	26
13:00	16	3	0	1	0	0	20
13:15	14	1	0	1	0	0	16
13:30	25	1	1	2	0	1	30
13:45	21	2	0	0	0	1	24
14:00	18	2	2	0	1	1	24
14:15	26	0	2	0	0	0	28
14:30	31	1	0	1	0	2	35
14:45	37	2	1	2	0	1	43
15:00	29	2	1	2	0	0	34
15:15	44	4	0	1	0	1	50
15:30	51	3	0	0	0	1	55
15:45	53	5	1	0	0	0	59
16:00	67	2	1	0	0	1	71
16:15	52	4	0	0	0	0	56
16:30	57	2	0	2	0	1	62
16:45	55	1	1	2	0	0	59
17:00	56	1	0	1	0	0	58
17:15	45	2	0	1	0	0	48
17:30	38	0	1	0	0	1	40
17:45	38	2	0	0	0	0	40
18:00	31	1	0	1	0	0	33
18:15	28	0	0	0	0	0	28
18:30	25	1	0	0	0	1	27
18:45	20	0	0	2	0	0	22
19:00	27	0	1	0	0	0	28
19:15	18	0	0	1	0	0	19
19:30	18	1	0	0	0	1	20
19:45	21	1	0	0	0	0	22
20:00	13	0	0	0	0	0	13
20:15	13	0	0	0	0	0	13
20:30	16	0	0	1	0	1	18
20:45	19	0	0	1	0	0	20
21:00	15	0	1	0	0	0	16
21:15	12	0	0	1	0	0	13
21:30	9	0	0	0	0	0	9
21:45	5	0	0	0	0	0	5
22:00	7	0	0	2	0	0	9
22:15	2	0	0	1	0	0	3
22:30	8	0	0	0	0	0	8
22:45	9	0	0	0	0	0	9
23:00	10	0	0	0	0	0	10
23:15	13	0	0	0	0	0	13
23:30	7	0	0	0	0	0	7
23:45	1	0	0	1	0	0	2
TOTAL	1,211	48	18	34	1	15	1,327

AM PEAK HOUR	4:00 PM
AM PEAK VOLUME	248

TOTAL: AM+PM	1,784	72	30	62	1	28	1,977
% OF TOTAL	90.2%	3.6%	1.5%	3.1%	0.1%	1.4%	100.0%

CLASS 1	PASSENGER VEHICLES
CLASS 2	2-AXLE TRUCKS
CLASS 3	3-AXLE TRUCKS
CLASS 4	4 OR MORE AXLE TRUCKS
CLASS 5	RV
CLASS 6	BUS

A102423

24-HOUR ROADWAY SEGMENT COUNTS (WITH CLASSIFICATION)

Prepared by AimTD LLC tel. 714 253 7888 cs@aimtd.com

DATE: Tuesday, April 02, 2024 **CITY:** Apple Valley

JOB #: SC4523 **LOCATION:** CLASS3 Dale Evans Pkwy south of Johnson Rd

AM TIME	COMBINED 1	2	3	4	5	6	TOTAL	PM Time	COMBINED 1	2	3	4	5	6	TOTAL
0:00	10	0	0	1	0	0	11	12:00	48	3	4	1	0	1	57
0:15	6	0	0	0	0	0	6	12:15	43	1	2	2	0	0	48
0:30	7	0	0	0	0	0	7	12:30	38	1	1	4	0	1	45
0:45	12	1	0	2	0	0	15	12:45	42	3	1	5	0	0	51
1:00	10	0	0	1	0	0	11	13:00	33	3	0	2	0	1	39
1:15	8	0	0	0	0	0	8	13:15	39	2	1	2	0	0	44
1:30	6	0	0	0	0	0	6	13:30	51	2	1	3	0	2	59
1:45	3	0	0	0	0	0	3	13:45	44	3	0	2	0	1	50
2:00	10	1	0	0	0	0	11	14:00	49	4	2	0	2	2	59
2:15	5	0	0	0	0	0	5	14:15	60	1	2	2	0	1	66
2:30	11	0	0	1	0	0	12	14:30	64	1	0	1	0	4	70
2:45	26	0	0	1	0	0	27	14:45	55	4	1	3	0	1	64
3:00	31	1	0	1	0	0	33	15:00	47	3	3	2	0	2	57
3:15	21	0	0	0	0	0	21	15:15	67	4	0	1	0	2	74
3:30	20	0	0	0	0	0	20	15:30	90	4	0	1	0	1	96
3:45	24	0	0	0	0	0	24	15:45	75	5	1	1	0	0	82
4:00	20	0	0	0	0	0	20	16:00	93	2	1	1	0	1	98
4:15	25	0	0	0	0	0	25	16:15	94	4	0	1	0	1	100
4:30	26	0	0	1	0	0	27	16:30	85	2	0	4	0	1	92
4:45	59	1	0	2	0	0	62	16:45	85	1	2	2	0	0	90
5:00	42	1	0	1	0	0	44	17:00	69	1	0	2	0	0	72
5:15	59	5	0	0	0	0	64	17:15	56	3	0	2	0	1	62
5:30	68	1	0	1	0	0	70	17:30	54	0	1	1	0	1	57
5:45	47	1	0	0	0	0	48	17:45	61	2	0	0	0	0	63
6:00	29	0	1	2	0	0	32	18:00	43	1	0	1	0	0	45
6:15	42	2	0	1	0	2	47	18:15	41	1	0	1	0	1	44
6:30	44	1	1	0	0	1	47	18:30	39	1	0	1	1	1	43
6:45	32	1	1	1	0	0	35	18:45	29	0	0	3	0	0	32
7:00	38	7	0	0	0	1	46	19:00	34	0	1	0	0	1	36
7:15	54	2	0	3	0	0	59	19:15	28	0	0	2	0	0	30
7:30	47	2	2	2	0	3	56	19:30	29	1	1	1	0	1	33
7:45	38	3	0	3	0	2	46	19:45	29	1	1	2	0	0	33
8:00	31	3	1	0	0	3	38	20:00	24	0	0	1	0	1	26
8:15	30	4	1	0	0	1	36	20:15	29	0	0	0	0	0	29
8:30	37	0	3	3	0	2	45	20:30	28	1	1	1	0	1	32
8:45	39	2	0	1	0	1	43	20:45	25	0	0	1	0	0	26
9:00	29	2	0	6	0	1	38	21:00	26	0	1	0	0	0	27
9:15	29	2	3	4	0	0	38	21:15	25	0	0	1	0	0	26
9:30	35	3	1	1	0	1	41	21:30	14	0	0	0	0	0	14
9:45	35	4	0	3	0	0	42	21:45	13	0	0	0	0	0	13
10:00	33	2	3	1	1	1	41	22:00	19	0	0	2	0	0	21
10:15	29	5	1	3	0	0	38	22:15	8	0	0	1	0	0	9
10:30	34	2	4	5	0	1	46	22:30	12	0	0	1	0	0	13
10:45	34	2	0	3	0	0	39	22:45	12	0	0	0	0	0	12
11:00	30	3	0	1	0	1	35	23:00	10	0	0	0	0	0	10
11:15	27	3	0	1	0	0	31	23:15	18	0	0	0	0	0	18
11:30	37	3	2	2	0	1	45	23:30	12	0	0	0	0	0	12
11:45	46	2	3	1	0	0	52	23:45	3	0	0	1	0	0	4
TOTAL	1,415	72	27	59	1	22	1,596	TOTAL	1,992	65	28	65	3	30	2,183

AM PEAK HOUR	4:45 AM	PM PEAK HOUR	4:00 PM
AM PEAK VOLUME	240	AM PEAK VOLUME	380

TOTAL: AM+PM	3,407	137	55	124	4	52	3,779
% OF TOTAL	90.2%	3.6%	1.5%	3.3%	0.1%	1.4%	100.0%

CLASS 1	PASSENGER VEHICLES
CLASS 2	2-AXLE TRUCKS
CLASS 3	3-AXLE TRUCKS
CLASS 4	4 OR MORE AXLE TRUCKS
CLASS 5	RV
CLASS 6	Buses

31124

24-HOUR ROADWAY SEGMENT COUNTS (WITH CLASSIFICATION)

Prepared by AimTD LLC tel. 714 253 7888 cs@aimtd.com

DATE: Tuesday, April 02, 2024 **CITY:** Apple Valley

JOB #: SC4523 **LOCATION:** CLASS1 Navajo Rd north of Los Padres Rd

AM TIME	NB 1	2	3	4	5	6	TOTAL
0:00	1	0	0	0	0	0	1
0:15	0	0	0	0	0	0	0
0:30	0	0	0	0	0	0	0
0:45	0	0	0	0	0	0	0
1:00	0	0	0	0	0	0	0
1:15	0	0	0	0	0	0	0
1:30	0	0	0	0	0	0	0
1:45	1	0	0	0	0	0	1
2:00	1	0	0	0	0	0	1
2:15	0	0	0	0	0	0	0
2:30	0	0	0	0	0	0	0
2:45	0	0	0	0	0	0	0
3:00	1	0	0	0	0	0	1
3:15	0	0	0	0	0	0	0
3:30	3	0	0	0	0	0	3
3:45	1	0	0	0	0	0	1
4:00	1	0	0	0	0	0	1
4:15	2	0	0	0	0	0	2
4:30	6	1	0	0	0	0	7
4:45	8	0	0	0	0	0	8
5:00	0	0	0	0	0	0	0
5:15	3	1	0	0	0	0	4
5:30	0	0	0	0	0	0	0
5:45	2	1	0	0	0	0	3
6:00	2	0	0	0	0	0	2
6:15	0	0	0	0	0	0	0
6:30	0	0	0	0	0	0	0
6:45	1	0	0	0	0	0	1
7:00	1	0	0	0	0	0	1
7:15	0	1	0	0	0	0	1
7:30	1	0	0	0	0	0	1
7:45	1	0	0	0	0	0	1
8:00	0	0	0	0	0	0	0
8:15	2	0	0	0	0	0	2
8:30	1	0	0	0	0	0	1
8:45	2	0	0	0	0	0	2
9:00	1	2	0	0	0	0	3
9:15	2	0	1	0	0	0	3
9:30	3	1	0	0	0	0	4
9:45	4	0	0	0	0	0	4
10:00	2	0	0	0	0	0	2
10:15	1	1	0	0	0	0	2
10:30	2	0	0	0	0	0	2
10:45	0	0	0	0	0	0	0
11:00	0	0	0	0	0	0	0
11:15	1	0	0	0	0	0	1
11:30	1	1	0	0	0	0	2
11:45	2	0	0	0	0	0	2
TOTAL	60	9	1	0	0	0	70

AM PEAK HOUR	4:30 AM
AM PEAK VOLUME	19

PM Time	NB 1	2	3	4	5	6	TOTAL
12:00	0	0	0	0	0	0	0
12:15	1	0	0	0	0	0	1
12:30	0	1	0	0	0	0	1
12:45	0	1	0	0	0	0	1
13:00	1	0	0	0	0	0	1
13:15	0	0	0	0	0	0	0
13:30	3	0	0	0	0	0	3
13:45	2	1	0	0	0	0	3
14:00	0	1	0	0	0	0	1
14:15	4	0	0	0	0	0	4
14:30	3	0	0	0	0	0	3
14:45	2	2	0	0	0	0	4
15:00	0	0	0	1	0	0	1
15:15	8	4	1	0	0	0	13
15:30	3	2	0	0	0	0	5
15:45	4	0	0	0	0	0	4
16:00	3	2	0	0	0	0	5
16:15	5	0	1	0	0	0	6
16:30	2	0	0	0	0	0	2
16:45	2	0	0	0	0	0	2
17:00	0	0	0	0	0	0	0
17:15	0	0	0	0	0	0	0
17:30	1	0	0	0	0	0	1
17:45	1	0	0	0	0	0	1
18:00	0	0	0	0	0	0	0
18:15	1	0	0	0	0	0	1
18:30	1	0	0	0	0	0	1
18:45	0	0	0	0	0	0	0
19:00	1	0	0	0	0	0	1
19:15	1	1	0	0	0	0	2
19:30	1	0	0	0	0	0	1
19:45	0	1	0	0	0	0	1
20:00	0	0	0	0	0	0	0
20:15	2	0	0	0	0	0	2
20:30	1	0	0	0	0	0	1
20:45	0	0	0	0	0	0	0
21:00	0	0	0	0	0	0	0
21:15	2	0	0	0	0	0	2
21:30	1	0	0	0	0	0	1
21:45	1	0	0	0	0	0	1
22:00	0	0	0	0	0	0	0
22:15	0	0	0	0	0	0	0
22:30	0	0	0	0	0	0	0
22:45	0	0	0	0	0	0	0
23:00	0	0	0	0	0	0	0
23:15	0	0	0	0	0	0	0
23:30	0	0	0	0	0	0	0
23:45	0	0	0	0	0	0	0
TOTAL	57	16	2	1	0	0	76

AM PEAK HOUR	3:15 PM
AM PEAK VOLUME	27

CLASS 1	PASSENGER VEHICLES	TOTAL: AM+PM	117	25	3	1	0	0	146
CLASS 2	2-AXLE TRUCKS	% OF TOTAL	80.1%	17.1%	2.1%	0.7%	0.0%	0.0%	100.0%
CLASS 3	3-AXLE TRUCKS								
CLASS 4	4 OR MORE AXLE TRUCKS								
CLASS 5	RV	TOTAL: ALL	305	66	4	2	0	0	377
CLASS 6	Buses	% OF TOTAL	80.9%	17.5%	1.1%	0.5%	0.0%	0.0%	100.0%

24-HOUR ROADWAY SEGMENT COUNTS (WITH CLASSIFICATION)

Prepared by AimTD LLC tel. 714 253 7888 cs@aimtd.com

DATE: Tuesday, April 02, 2024
JOB #: SC4523
CITY: Apple Valley
LOCATION: CLASS1 Navajo Rd north of Los Padres Rd

AM TIME	SB 1	2	3	4	5	6	TOTAL	PM Time	SB 1	2	3	4	5	6	TOTAL
0:00	0	0	0	0	0	0	0	12:00	0	0	0	0	0	0	0
0:15	1	0	0	0	0	0	1	12:15	1	0	0	0	0	0	1
0:30	1	1	0	0	0	0	2	12:30	1	2	0	0	0	0	3
0:45	0	0	0	0	0	0	0	12:45	3	0	0	0	0	0	3
1:00	2	0	0	0	0	0	2	13:00	1	0	0	0	0	0	1
1:15	0	0	0	0	0	0	0	13:15	1	1	0	0	0	0	2
1:30	1	0	0	0	0	0	1	13:30	7	2	0	0	0	0	9
1:45	2	0	0	0	0	0	2	13:45	6	1	0	0	0	0	7
2:00	2	0	0	0	0	0	2	14:00	3	0	0	0	0	0	3
2:15	1	0	0	0	0	0	1	14:15	5	1	0	0	0	0	6
2:30	0	0	0	0	0	0	0	14:30	10	3	0	0	0	0	13
2:45	0	0	0	0	0	0	0	14:45	5	1	0	0	0	0	6
3:00	5	1	0	0	0	0	6	15:00	4	0	0	1	0	0	5
3:15	4	0	0	0	0	0	4	15:15	5	1	0	0	0	0	6
3:30	3	0	0	0	0	0	3	15:30	10	0	0	0	0	0	10
3:45	4	0	0	0	0	0	4	15:45	2	0	0	0	0	0	2
4:00	4	0	0	0	0	0	4	16:00	4	5	0	0	0	0	9
4:15	1	0	0	0	0	0	1	16:15	0	0	0	0	0	0	0
4:30	0	0	0	0	0	0	0	16:30	4	0	0	0	0	0	4
4:45	2	0	0	0	0	0	2	16:45	1	0	0	0	0	0	1
5:00	0	0	0	0	0	0	0	17:00	0	0	0	0	0	0	0
5:15	0	2	0	0	0	0	2	17:15	2	0	0	0	0	0	2
5:30	1	0	0	0	0	0	1	17:30	5	0	0	0	0	0	5
5:45	1	1	0	0	0	0	2	17:45	5	1	0	0	0	0	6
6:00	0	0	0	0	0	0	0	18:00	1	1	0	0	0	0	2
6:15	0	0	0	0	0	0	0	18:15	1	0	0	0	0	0	1
6:30	0	0	0	0	0	0	0	18:30	7	1	0	0	0	0	8
6:45	0	0	0	0	0	0	0	18:45	5	0	0	0	0	0	5
7:00	0	0	0	0	0	0	0	19:00	0	1	0	0	0	0	1
7:15	0	0	0	0	0	0	0	19:15	0	0	0	0	0	0	0
7:30	1	1	0	0	0	0	2	19:30	1	0	0	0	0	0	1
7:45	1	1	0	0	0	0	2	19:45	1	0	0	0	0	0	1
8:00	2	4	0	0	0	0	6	20:00	5	0	0	0	0	0	5
8:15	1	0	0	0	0	0	1	20:15	2	1	0	0	0	0	3
8:30	1	0	1	0	0	0	2	20:30	2	0	0	0	0	0	2
8:45	2	1	0	0	0	0	3	20:45	0	0	0	0	0	0	0
9:00	2	1	0	0	0	0	3	21:00	4	0	0	0	0	0	4
9:15	2	0	0	0	0	0	2	21:15	1	0	0	0	0	0	1
9:30	3	0	0	0	0	0	3	21:30	0	0	0	0	0	0	0
9:45	2	0	0	0	0	0	2	21:45	0	0	0	0	0	0	0
10:00	1	1	0	0	0	0	2	22:00	0	0	0	0	0	0	0
10:15	4	1	0	0	0	0	5	22:15	0	0	0	0	0	0	0
10:30	1	0	0	0	0	0	1	22:30	3	0	0	0	0	0	3
10:45	2	0	0	0	0	0	2	22:45	0	0	0	0	0	0	0
11:00	3	1	0	0	0	0	4	23:00	0	0	0	0	0	0	0
11:15	2	1	0	0	0	0	3	23:15	0	0	0	0	0	0	0
11:30	2	2	0	0	0	0	4	23:30	0	0	0	0	0	0	0
11:45	2	0	0	0	0	0	2	23:45	1	0	0	0	0	0	1
TOTAL	69	19	1	0	0	0	89	**TOTAL**	119	22	0	1	0	0	142
	AM PEAK HOUR						3:00 AM					**AM PEAK HOUR**			2:30 PM
	AM PEAK VOLUME						17					**AM PEAK VOLUME**			30

TOTAL: AM+PM	188	41	1	1	0	0	231
% OF TOTAL	81.4%	17.7%	0.4%	0.4%	0.0%	0.0%	100.0%

CLASS 1	PASSENGER VEHICLES
CLASS 2	2-AXLE TRUCKS
CLASS 3	3-AXLE TRUCKS
CLASS 4	4 OR MORE AXLE TRUCKS
CLASS 5	RV
CLASS 6	BUS

31124

24-HOUR ROADWAY SEGMENT COUNTS (WITH CLASSIFICATION)

Prepared by AimTD LLC tel. 714 253 7888 cs@aimtd.com

DATE: Tuesday, April 02, 2024 **CITY:** Apple Valley

JOB #: SC4523 **LOCATION:** CLASS1 Navajo Rd north of Los Padres Rd

AM TIME	COMBINED 1	2	3	4	5	6	TOTAL	PM Time	COMBINED 1	2	3	4	5	6	TOTAL
0:00	1	0	0	0	0	0	1	12:00	0	0	0	0	0	0	0
0:15	1	0	0	0	0	0	1	12:15	2	0	0	0	0	0	2
0:30	1	1	0	0	0	0	2	12:30	1	3	0	0	0	0	4
0:45	0	0	0	0	0	0	0	12:45	3	1	0	0	0	0	4
1:00	2	0	0	0	0	0	2	13:00	2	0	0	0	0	0	2
1:15	0	0	0	0	0	0	0	13:15	1	1	0	0	0	0	2
1:30	1	0	0	0	0	0	1	13:30	10	2	0	0	0	0	12
1:45	3	0	0	0	0	0	3	13:45	8	2	0	0	0	0	10
2:00	3	0	0	0	0	0	3	14:00	3	1	0	0	0	0	4
2:15	1	0	0	0	0	0	1	14:15	9	1	0	0	0	0	10
2:30	0	0	0	0	0	0	0	14:30	13	3	0	0	0	0	16
2:45	0	0	0	0	0	0	0	14:45	7	3	0	0	0	0	10
3:00	6	1	0	0	0	0	7	15:00	4	0	0	2	0	0	6
3:15	4	0	0	0	0	0	4	15:15	13	5	1	0	0	0	19
3:30	6	0	0	0	0	0	6	15:30	13	2	0	0	0	0	15
3:45	5	0	0	0	0	0	5	15:45	6	0	0	0	0	0	6
4:00	5	0	0	0	0	0	5	16:00	7	7	0	0	0	0	14
4:15	3	0	0	0	0	0	3	16:15	5	0	1	0	0	0	6
4:30	6	1	0	0	0	0	7	16:30	6	0	0	0	0	0	6
4:45	10	0	0	0	0	0	10	16:45	3	0	0	0	0	0	3
5:00	0	0	0	0	0	0	0	17:00	0	0	0	0	0	0	0
5:15	3	3	0	0	0	0	6	17:15	2	0	0	0	0	0	2
5:30	1	0	0	0	0	0	1	17:30	6	0	0	0	0	0	6
5:45	3	2	0	0	0	0	5	17:45	6	1	0	0	0	0	7
6:00	2	0	0	0	0	0	2	18:00	1	1	0	0	0	0	2
6:15	0	0	0	0	0	0	0	18:15	2	0	0	0	0	0	2
6:30	0	0	0	0	0	0	0	18:30	8	1	0	0	0	0	9
6:45	1	0	0	0	0	0	1	18:45	5	0	0	0	0	0	5
7:00	1	0	0	0	0	0	1	19:00	1	1	0	0	0	0	2
7:15	0	1	0	0	0	0	1	19:15	1	1	0	0	0	0	2
7:30	2	1	0	0	0	0	3	19:30	2	0	0	0	0	0	2
7:45	2	1	0	0	0	0	3	19:45	1	1	0	0	0	0	2
8:00	2	4	0	0	0	0	6	20:00	5	0	0	0	0	0	5
8:15	3	0	0	0	0	0	3	20:15	4	1	0	0	0	0	5
8:30	2	0	1	0	0	0	3	20:30	3	0	0	0	0	0	3
8:45	4	1	0	0	0	0	5	20:45	0	0	0	0	0	0	0
9:00	3	3	0	0	0	0	6	21:00	4	0	0	0	0	0	4
9:15	4	0	1	0	0	0	5	21:15	3	0	0	0	0	0	3
9:30	6	1	0	0	0	0	7	21:30	1	0	0	0	0	0	1
9:45	6	0	0	0	0	0	6	21:45	1	0	0	0	0	0	1
10:00	3	1	0	0	0	0	4	22:00	0	0	0	0	0	0	0
10:15	5	2	0	0	0	0	7	22:15	0	0	0	0	0	0	0
10:30	3	0	0	0	0	0	3	22:30	3	0	0	0	0	0	3
10:45	2	0	0	0	0	0	2	22:45	0	0	0	0	0	0	0
11:00	3	1	0	0	0	0	4	23:00	0	0	0	0	0	0	0
11:15	3	1	0	0	0	0	4	23:15	0	0	0	0	0	0	0
11:30	3	3	0	0	0	0	6	23:30	0	0	0	0	0	0	0
11:45	4	0	0	0	0	0	4	23:45	1	0	0	0	0	0	1
TOTAL	129	28	2	0	0	0	159	TOTAL	176	38	2	2	0	0	218
				AM PEAK HOUR			4:00 AM					AM PEAK HOUR			3:15 PM
				AM PEAK VOLUME			25					AM PEAK VOLUME			54

TOTAL: AM+PM	305	66	4	2	0	0	377
% OF TOTAL	80.9%	17.5%	1.1%	0.5%	0.0%	0.0%	100.0%

CLASS 1	PASSENGER VEHICLES
CLASS 2	2-AXLE TRUCKS
CLASS 3	3-AXLE TRUCKS
CLASS 4	4 OR MORE AXLE TRUCKS
CLASS 5	RV
CLASS 6	Buses

Counts Unlimited, Inc.

PO Box 1178
Corona, CA 92878
(951) 268-6268
email: counts@countsunlimited.com

City of Apple Valley
Dakota Avenue
N/ Corwin Road
24 Hour Directional Classification Count

APV001
Site Code: 051-24741

Northbound

Start Time	Motorcy	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
08/27/24	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00	0	0	1	0	0	0	0	0	0	0	0	0	0	1
02:00	0	2	0	0	0	0	0	0	0	0	0	0	0	2
03:00	0	8	0	0	0	**1**	0	0	0	0	0	0	0	9
04:00	0	**19**	1	0	0	0	0	0	0	0	0	0	0	**20**
05:00	0	13	**2**	0	0	0	0	0	0	0	0	0	0	15
06:00	0	4	1	0	0	0	0	0	0	0	0	0	0	5
07:00	0	7	1	0	0	0	0	0	0	0	0	0	0	8
08:00	0	6	1	0	**1**	0	0	0	0	0	0	0	0	8
09:00	0	6	0	0	0	0	0	0	0	0	0	0	0	6
10:00	0	2	2	0	0	0	0	0	0	0	0	0	0	4
11:00	0	1	0	0	0	0	0	0	0	0	0	0	0	1
12 PM	0	0	2	0	**1**	0	0	0	0	0	0	0	0	3
13:00	0	4	0	0	1	0	0	0	0	0	0	0	0	5
14:00	0	4	0	0	0	0	0	0	0	0	0	0	0	4
15:00	0	8	1	0	1	0	0	0	0	0	0	0	0	10
16:00	0	**15**	**4**	0	0	0	0	0	0	0	0	0	0	**19**
17:00	0	2	0	0	0	0	0	0	0	0	0	0	0	2
18:00	0	5	0	0	0	0	0	0	0	0	0	0	0	5
19:00	0	2	1	0	0	0	0	0	0	0	0	0	0	3
20:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21:00	0	4	1	0	0	0	0	0	0	0	0	0	0	5
22:00	0	3	0	0	0	0	0	0	0	0	0	0	0	3
23:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	115	18	0	4	1	0	0	0	0	0	0	0	138
Percent	0.0%	83.3%	13.0%	0.0%	2.9%	0.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
AM Peak		04:00	05:00		08:00	03:00								04:00
Vol.		19	2		1	1								20
PM Peak		16:00	16:00		12:00									16:00
Vol.		15	4		1									19
Grand Total	0	115	18	0	4	1	0	0	0	0	0	0	0	138
Percent	0.0%	83.3%	13.0%	0.0%	2.9%	0.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	

Counts Unlimited, Inc.

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City of Apple Valley
Dakota Avenue
N/ Corwin Road
24 Hour Directional Classification Count

APV001
Site Code: 051-24741

Southbound

Start Time	Motorcy	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
08/27/24	0	0	**2**	0	0	0	0	0	0	0	0	0	0	2
01:00	0	2	0	0	0	0	0	0	0	0	0	0	0	2
02:00	0	2	0	0	0	0	0	0	0	0	0	0	0	2
03:00	0	7	0	0	0	0	0	0	0	0	0	0	0	7
04:00	0	7	0	0	0	0	0	0	0	0	0	0	0	7
05:00	0	6	1	0	0	0	0	0	0	0	0	0	0	7
06:00	0	3	0	0	0	0	0	0	0	0	0	0	0	3
07:00	0	3	1	0	0	0	0	0	0	0	0	0	0	4
08:00	0	5	0	0	**1**	0	0	0	0	0	0	0	0	6
09:00	0	**9**	1	0	1	0	0	0	0	0	0	0	0	**11**
10:00	0	3	1	0	0	0	0	**1**	0	0	0	0	0	5
11:00	0	6	1	0	1	0	0	0	**1**	0	0	0	0	9
12 PM	0	**18**	1	0	1	**1**	0	0	**1**	0	0	0	0	**22**
13:00	0	11	1	0	**2**	0	0	0	0	0	0	0	0	14
14:00	0	14	2	0	1	0	0	0	0	0	0	0	0	17
15:00	0	6	2	0	2	0	0	0	0	0	0	0	0	10
16:00	0	17	4	0	1	0	0	0	0	0	0	0	0	22
17:00	0	7	**5**	0	1	0	0	0	0	0	0	0	0	13
18:00	0	9	0	0	0	0	0	0	0	0	0	0	0	9
19:00	0	0	2	0	0	0	0	0	0	0	0	0	0	2
20:00	0	3	0	0	0	0	0	0	0	0	0	0	0	3
21:00	0	1	0	0	0	0	0	0	0	0	0	0	0	1
22:00	0	11	1	0	0	0	0	0	0	0	0	0	0	12
23:00	0	3	0	0	0	0	0	0	0	0	0	0	0	3
Total	0	153	25	0	11	1	0	1	2	0	0	0	0	193
Percent	0.0%	79.3%	13.0%	0.0%	5.7%	0.5%	0.0%	0.5%	1.0%	0.0%	0.0%	0.0%	0.0%	
AM Peak		09:00	00:00		08:00			10:00	11:00					09:00
Vol.		9	2		1			1	1					11
PM Peak		12:00	17:00		13:00	12:00			12:00					12:00
Vol.		18	5		2	1			1					22
Grand Total	0	153	25	0	11	1	0	1	2	0	0	0	0	193
Percent	0.0%	79.3%	13.0%	0.0%	5.7%	0.5%	0.0%	0.5%	1.0%	0.0%	0.0%	0.0%	0.0%	

Counts Unlimited, Inc.

PO Box 1178
Corona, CA 92878
(951) 268-6268
email: counts@countsunlimited.com

City of Apple Valley
Dakota Avenue
N/ Corwin Road
24 Hour Directional Classification Count

APV001
Site Code: 051-24741

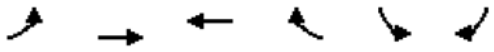
Northbound, Southbound

Start Time	Motorcy	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
08/27/24	0	0	2	0	0	0	0	0	0	0	0	0	0	2
01:00	0	2	1	0	0	0	0	0	0	0	0	0	0	3
02:00	0	4	0	0	0	0	0	0	0	0	0	0	0	4
03:00	0	15	0	0	0	**1**	0	0	0	0	0	0	0	16
04:00	0	**26**	1	0	0	0	0	0	0	0	0	0	0	**27**
05:00	0	19	**3**	0	0	0	0	0	0	0	0	0	0	22
06:00	0	7	1	0	0	0	0	0	0	0	0	0	0	8
07:00	0	10	2	0	0	0	0	0	0	0	0	0	0	12
08:00	0	11	1	0	**2**	0	0	0	0	0	0	0	0	14
09:00	0	15	1	0	1	0	0	0	0	0	0	0	0	17
10:00	0	5	3	0	0	0	0	**1**	0	0	0	0	0	9
11:00	0	7	1	0	1	0	0	0	**1**	0	0	0	0	10
12 PM	0	18	3	0	2	**1**	0	0	**1**	0	0	0	0	25
13:00	0	15	1	0	**3**	0	0	0	0	0	0	0	0	19
14:00	0	18	2	0	1	0	0	0	0	0	0	0	0	21
15:00	0	14	3	0	3	0	0	0	0	0	0	0	0	20
16:00	0	**32**	**8**	0	1	0	0	0	0	0	0	0	0	**41**
17:00	0	9	5	0	1	0	0	0	0	0	0	0	0	15
18:00	0	14	0	0	0	0	0	0	0	0	0	0	0	14
19:00	0	2	3	0	0	0	0	0	0	0	0	0	0	5
20:00	0	3	0	0	0	0	0	0	0	0	0	0	0	3
21:00	0	5	1	0	0	0	0	0	0	0	0	0	0	6
22:00	0	14	1	0	0	0	0	0	0	0	0	0	0	15
23:00	0	3	0	0	0	0	0	0	0	0	0	0	0	3
Total	0	268	43	0	15	2	0	1	2	0	0	0	0	331
Percent	0.0%	81.0%	13.0%	0.0%	4.5%	0.6%	0.0%	0.3%	0.6%	0.0%	0.0%	0.0%	0.0%	
AM Peak		04:00	05:00		08:00	03:00		10:00	11:00					04:00
Vol.		26	3		2	1		1	1					27
PM Peak		16:00	16:00		13:00	12:00			12:00					16:00
Vol.		32	8		3	1			1					41
Grand Total	0	268	43	0	15	2	0	1	2	0	0	0	0	331
Percent	0.0%	81.0%	13.0%	0.0%	4.5%	0.6%	0.0%	0.3%	0.6%	0.0%	0.0%	0.0%	0.0%	

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APPENDIX 3.2: EXISTING (2024) CONDITIONS INTERSECTION OPERATIONS ANALYSIS WORKSHEETS

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Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (vph)	9	14	7	1	1	6
Future Volume (vph)	9	14	7	1	1	6
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Link Speed (mph)		55	55		45	
Link Distance (ft)		3330	1344		1769	
Travel Time (s)		41.3	16.7		26.8	
Peak Hour Factor	0.64	0.64	0.64	0.64	0.64	0.64
Shared Lane Traffic (%)						
Sign Control		Free	Free		Stop	

Intersection Summary	
Area Type:	Other

Control Type: Unsignalized

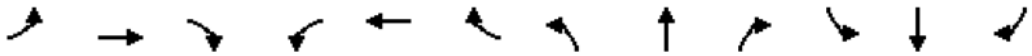
Intersection	
Int Delay, s/veh	3.3

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	9	14	7	1	1	6
Future Vol, veh/h	9	14	7	1	1	6
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	64	64	64	64	64	64
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	14	22	11	2	2	9

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	13	0	-	0	62	12
Stage 1	-	-	-	-	12	-
Stage 2	-	-	-	-	50	-
Critical Hdwy	4.1	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.2	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	1619	-	-	-	950	1075
Stage 1	-	-	-	-	1016	-
Stage 2	-	-	-	-	978	-
Platoon blocked, %			-	-	-	
Mov Cap-1 Maneuver	1619	-	-	-	941	1075
Mov Cap-2 Maneuver	-	-	-	-	941	-
Stage 1	-	-	-	-	1007	-
Stage 2	-	-	-	-	978	-

Approach	EB	WB	SB
HCM Control Delay, s/v	2.83	0	8.45
HCM LOS			A

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	704	-	-	-	1054
HCM Lane V/C Ratio	0.009	-	-	-	0.01
HCM Control Delay (s/veh)	7.2	0	-	-	8.5
HCM Lane LOS	A	A	-	-	A
HCM 95th %tile Q(veh)	0	-	-	-	0



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	0	0	0	1	0	0	0	0	1	0	0	0
Future Volume (vph)	0	0	0	1	0	0	0	0	1	0	0	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Link Speed (mph)		45			45			45			45	
Link Distance (ft)		1354			321			1023			285	
Travel Time (s)		20.5			4.9			15.5			4.3	
Peak Hour Factor	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Shared Lane Traffic (%)												
Sign Control		Stop			Stop			Free			Free	

Intersection Summary	
Area Type:	Other

Control Type: Unsignalized

Intersection	
Int Delay, s/veh	2.8

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	0	0	0	1	0	0	0	0	1	0	0	0
Future Vol, veh/h	0	0	0	1	0	0	0	0	1	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	50	50	50	50	50	50	50	50	50	50	50	50
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	0	0	2	0	0	0	0	2	0	0	0

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	2	4	2	3	3	1	2	0	0	2	0	0
Stage 1	2	2	-	1	1	-	-	-	-	-	-	-
Stage 2	0	2	-	2	2	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	1026	896	1088	1024	897	1090	1634	-	-	1634	-	-
Stage 1	1026	898	-	1027	899	-	-	-	-	-	-	-
Stage 2	-	898	-	1026	898	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	1026	896	1088	1024	897	1090	1634	-	-	1634	-	-
Mov Cap-2 Maneuver	1026	896	-	1024	897	-	-	-	-	-	-	-
Stage 1	1026	898	-	1027	899	-	-	-	-	-	-	-
Stage 2	-	898	-	1026	898	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	0	8.52	0	0
HCM LOS	A	A		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1634	-	-	-	1024	1634	-	-
HCM Lane V/C Ratio	-	-	-	-	0.002	-	-	-
HCM Control Delay (s/veh)	0	-	-	0	8.5	0	-	-
HCM Lane LOS	A	-	-	A	A	A	-	-
HCM 95th %tile Q(veh)	0	-	-	-	0	0	-	-



Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Volume (vph)	4	5	2	1	4	4
Future Volume (vph)	4	5	2	1	4	4
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Link Speed (mph)	30			55	55	
Link Distance (ft)	2664			475	6664	
Travel Time (s)	60.5			5.9	82.6	
Peak Hour Factor	0.71	0.71	0.71	0.71	0.71	0.71
Shared Lane Traffic (%)						
Sign Control	Stop			Free	Free	

Intersection Summary	
Area Type:	Other

Control Type: Unsignalized

Intersection	
Int Delay, s/veh	4.5

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	4	5	2	1	4	4
Future Vol, veh/h	4	5	2	1	4	4
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	71	71	71	71	71	71
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	6	7	3	1	6	6

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	15	8	11	0	-	0
Stage 1	8	-	-	-	-	-
Stage 2	7	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	1008	1079	1621	-	-	-
Stage 1	1020	-	-	-	-	-
Stage 2	1021	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	1006	1079	1621	-	-	-
Mov Cap-2 Maneuver	1006	-	-	-	-	-
Stage 1	1018	-	-	-	-	-
Stage 2	1021	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s/v	8.49	4.82	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1200	-	1046	-	-
HCM Lane V/C Ratio	0.002	-	0.012	-	-
HCM Control Delay (s/veh)	7.2	0	8.5	-	-
HCM Lane LOS	A	A	A	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-



Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	19	40	18	34	19	1
Future Volume (vph)	19	40	18	34	19	1
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (ft)		0	0		0	100
Storage Lanes		0	0		1	0
Taper Length (ft)			90		90	
Link Speed (mph)	45			45	55	
Link Distance (ft)	5327			1321	6664	
Travel Time (s)	80.7			20.0	82.6	
Peak Hour Factor	0.76	0.76	0.76	0.76	0.76	0.76
Shared Lane Traffic (%)						
Sign Control	Free			Free	Stop	

Intersection Summary	
Area Type:	Other
Control Type: Unsignalized	

Intersection	
Int Delay, s/veh	2.4

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	19	40	18	34	19	1
Future Vol, veh/h	19	40	18	34	19	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	76	76	76	76	76	76
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	25	53	24	45	25	1

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	78	0	143	51
Stage 1	-	-	-	-	51	-
Stage 2	-	-	-	-	92	-
Critical Hdwy	-	-	4.1	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	-	-	2.2	-	3.5	3.3
Pot Cap-1 Maneuver	-	-	1534	-	854	1022
Stage 1	-	-	-	-	976	-
Stage 2	-	-	-	-	937	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1534	-	840	1022
Mov Cap-2 Maneuver	-	-	-	-	840	-
Stage 1	-	-	-	-	976	-
Stage 2	-	-	-	-	922	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	2.56	9.38
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	848	-	-	623	-
HCM Lane V/C Ratio	0.031	-	-	0.015	-
HCM Control Delay (s/veh)	9.4	-	-	7.4	0
HCM Lane LOS	A	-	-	A	A
HCM 95th %tile Q(veh)	0.1	-	-	0	-

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	1	97	11	7	74	61	22	134	13	28	58	1
Future Volume (vph)	1	97	11	7	74	61	22	134	13	28	58	1
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0		0	0		165	100		0	325		0
Storage Lanes	0		0	0		1	1		1	1		0
Taper Length (ft)	90			90			90			90		
Link Speed (mph)		45			45			55			55	
Link Distance (ft)		7616			5327			4005			1074	
Travel Time (s)		115.4			80.7			49.6			13.3	
Peak Hour Factor	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81
Shared Lane Traffic (%)												
Sign Control		Stop			Stop			Stop			Stop	

Intersection Summary	
Area Type:	Other
Control Type: Unsignalized	

Intersection	
Intersection Delay, s/veh	9.8
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	1	97	11	7	74	61	22	134	13	28	58	1
Future Vol, veh/h	1	97	11	7	74	61	22	134	13	28	58	1
Peak Hour Factor	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	1	120	14	9	91	75	27	165	16	35	72	1
Number of Lanes	0	1	0	0	1	1	1	1	1	1	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	2	1	2	3
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	2	3	1	2
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	3	2	2	1
HCM Control Delay, s/veh	10.2	9.2	10.1	9.6
HCM LOS	B	A	B	A

Lane	NBLn1	NBLn2	NBLn3	EBLn1	WBLn1	WBLn2	SBLn1	SBLn2
Vol Left, %	100%	0%	0%	1%	9%	0%	100%	0%
Vol Thru, %	0%	100%	0%	89%	91%	0%	0%	98%
Vol Right, %	0%	0%	100%	10%	0%	100%	0%	2%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	22	134	13	109	81	61	28	59
LT Vol	22	0	0	1	7	0	28	0
Through Vol	0	134	0	97	74	0	0	58
RT Vol	0	0	13	11	0	61	0	1
Lane Flow Rate	27	165	16	135	100	75	35	73
Geometry Grp	6	6	6	6	6	6	6	6
Degree of Util (X)	0.047	0.264	0.023	0.218	0.163	0.107	0.062	0.121
Departure Headway (Hd)	6.26	5.755	5.049	5.823	5.869	5.122	6.493	5.975
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cap	573	625	710	618	612	700	553	601
Service Time	3.984	3.479	2.772	3.549	3.594	2.847	4.22	3.701
HCM Lane V/C Ratio	0.047	0.264	0.023	0.218	0.163	0.107	0.063	0.121
HCM Control Delay, s/veh	9.3	10.5	7.9	10.2	9.7	8.5	9.7	9.5
HCM Lane LOS	A	B	A	B	A	A	A	A
HCM 95th-tile Q	0.1	1.1	0.1	0.8	0.6	0.4	0.2	0.4



Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	96	1	28	108	1	52
Future Volume (vph)	96	1	28	108	1	52
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Link Speed (mph)	45		45			45
Link Distance (ft)	7616		549			661
Travel Time (s)	115.4		8.3			10.0
Peak Hour Factor	0.86	0.86	0.86	0.86	0.86	0.86
Shared Lane Traffic (%)						
Sign Control	Stop		Free			Free

Intersection Summary	
Area Type:	Other

Control Type: Unsignalized

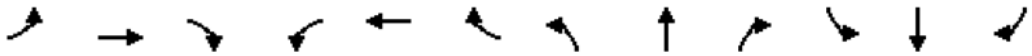
Intersection	
Int Delay, s/veh	3.4

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	96	1	28	108	1	52
Future Vol, veh/h	96	1	28	108	1	52
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	86	86	86	86	86	86
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	112	1	33	126	1	60

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	158	95	0	0	158	0
Stage 1	95	-	-	-	-	-
Stage 2	63	-	-	-	-	-
Critical Hdwy	6.4	6.2	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	838	967	-	-	1434	-
Stage 1	933	-	-	-	-	-
Stage 2	965	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	837	967	-	-	1434	-
Mov Cap-2 Maneuver	837	-	-	-	-	-
Stage 1	933	-	-	-	-	-
Stage 2	964	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v	9.96	0	0.14
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	838	34	-
HCM Lane V/C Ratio	-	-	0.135	0.001	-
HCM Control Delay (s/veh)	-	-	10	7.5	0
HCM Lane LOS	-	-	A	A	A
HCM 95th %tile Q(veh)	-	-	0.5	0	-



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	9	10	28	6	142	1	7	30	3	123	0	22
Future Volume (vph)	9	10	28	6	142	1	7	30	3	123	0	22
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Link Speed (mph)		45			45			30			30	
Link Distance (ft)		889			1144			979			330	
Travel Time (s)		13.5			17.3			22.3			7.5	
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Shared Lane Traffic (%)												
Sign Control		Free			Free			Stop			Stop	

Intersection Summary	
Area Type:	Other

Control Type: Unsignalized

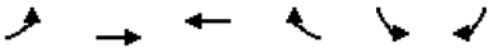
Intersection	
Int Delay, s/veh	5.6

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	9	10	28	6	142	1	7	30	3	123	0	22
Future Vol, veh/h	9	10	28	6	142	1	7	30	3	123	0	22
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	96	96	96	96	96	96	96	96	96	96	96	96
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	9	10	29	6	148	1	7	31	3	128	0	23

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	149	0	0	40	0	0	204	205	25	206	219	148
Stage 1	-	-	-	-	-	-	44	44	-	161	161	-
Stage 2	-	-	-	-	-	-	160	161	-	45	58	-
Critical Hdwy	4.1	-	-	4.1	-	-	7.1	6.5	6.2	7.1	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Follow-up Hdwy	2.2	-	-	2.2	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	1445	-	-	1583	-	-	758	695	1057	756	683	904
Stage 1	-	-	-	-	-	-	976	862	-	846	769	-
Stage 2	-	-	-	-	-	-	846	768	-	974	850	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1445	-	-	1583	-	-	731	687	1057	712	675	904
Mov Cap-2 Maneuver	-	-	-	-	-	-	731	687	-	712	675	-
Stage 1	-	-	-	-	-	-	969	857	-	842	765	-
Stage 2	-	-	-	-	-	-	821	765	-	930	845	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	1.44	0.29	10.36	11.15
HCM LOS			B	B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	713	300	-	-	72	-	-	736
HCM Lane V/C Ratio	0.058	0.006	-	-	0.004	-	-	0.205
HCM Control Delay (s/veh)	10.4	7.5	0	-	7.3	0	-	11.2
HCM Lane LOS	B	A	A	-	A	A	-	B
HCM 95th %tile Q(veh)	0.2	0	-	-	0	-	-	0.8



Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (vph)	1	13	47	124	34	3
Future Volume (vph)	1	13	47	124	34	3
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0			0	0	25
Storage Lanes	0			0	1	0
Taper Length (ft)	90				90	
Link Speed (mph)		45	45		45	
Link Distance (ft)		1552	889		1482	
Travel Time (s)		23.5	13.5		22.5	
Peak Hour Factor	0.84	0.84	0.84	0.84	0.84	0.84
Shared Lane Traffic (%)						
Sign Control		Free	Free		Stop	

Intersection Summary	
Area Type:	Other
Control Type: Unsignalized	

Intersection	
Int Delay, s/veh	1.6

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	1	13	47	124	34	3
Future Vol, veh/h	1	13	47	124	34	3
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	Yield	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	84	84	84	84	84	84
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	1	15	56	148	40	4

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	56	0	-	0	148	130
Stage 1	-	-	-	-	130	-
Stage 2	-	-	-	-	18	-
Critical Hdwy	4.1	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.2	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	1562	-	-	-	849	925
Stage 1	-	-	-	-	901	-
Stage 2	-	-	-	-	1010	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1562	-	-	-	849	925
Mov Cap-2 Maneuver	-	-	-	-	849	-
Stage 1	-	-	-	-	900	-
Stage 2	-	-	-	-	1010	-

Approach	EB	WB	SB
HCM Control Delay, s/v	0.52	0	9.44
HCM LOS			A

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	129	-	-	-	854
HCM Lane V/C Ratio	0.001	-	-	-	0.052
HCM Control Delay (s/veh)	7.3	0	-	-	9.4
HCM Lane LOS	A	A	-	-	A
HCM 95th %tile Q(veh)	0	-	-	-	0.2



Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	35	1	1	124	1	2
Future Volume (vph)	35	1	1	124	1	2
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Link Speed (mph)	30		45			45
Link Distance (ft)	263		1482			525
Travel Time (s)	6.0		22.5			8.0
Peak Hour Factor	0.79	0.79	0.79	0.79	0.79	0.79
Shared Lane Traffic (%)						
Sign Control	Stop		Free			Free

Intersection Summary	
Area Type:	Other

Control Type: Unsignalized

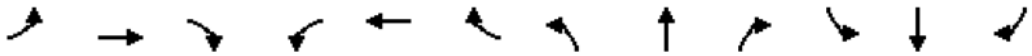
Intersection	
Int Delay, s/veh	2

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	35	1	1	124	1	2
Future Vol, veh/h	35	1	1	124	1	2
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	79	79	79	79	79	79
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	44	1	1	157	1	3

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	85	80	0	0	158	0
Stage 1	80	-	-	-	-	-
Stage 2	5	-	-	-	-	-
Critical Hdwy	6.4	6.2	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	922	986	-	-	1434	-
Stage 1	948	-	-	-	-	-
Stage 2	1023	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	921	986	-	-	1434	-
Mov Cap-2 Maneuver	921	-	-	-	-	-
Stage 1	948	-	-	-	-	-
Stage 2	1022	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v	9.11	0	2.5
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	922	600	-
HCM Lane V/C Ratio	-	-	0.049	0.001	-
HCM Control Delay (s/veh)	-	-	9.1	7.5	0
HCM Lane LOS	-	-	A	A	A
HCM 95th %tile Q(veh)	-	-	0.2	0	-



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	20	11	2	7	1	3	6	150	20	1	52	8
Future Volume (vph)	20	11	2	7	1	3	6	150	20	1	52	8
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		1375			3330			1135			747	
Travel Time (s)		17.0			41.3			14.1			9.3	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Shared Lane Traffic (%)												
Sign Control		Stop			Stop			Stop			Stop	

Intersection Summary	
Area Type:	Other

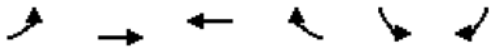
Control Type: Unsignalized

Intersection	
Intersection Delay, s/veh	7.9
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	20	11	2	7	1	3	6	150	20	1	52	8
Future Vol, veh/h	20	11	2	7	1	3	6	150	20	1	52	8
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	22	12	2	8	1	3	7	167	22	1	58	9
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	7.8	7.5	8.1	7.5
HCM LOS	A	A	A	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	3%	61%	64%	2%
Vol Thru, %	85%	33%	9%	85%
Vol Right, %	11%	6%	27%	13%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	176	33	11	61
LT Vol	6	20	7	1
Through Vol	150	11	1	52
RT Vol	20	2	3	8
Lane Flow Rate	196	37	12	68
Geometry Grp	1	1	1	1
Degree of Util (X)	0.216	0.046	0.015	0.076
Departure Headway (Hd)	3.976	4.561	4.468	4.059
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	898	790	806	873
Service Time	2.023	2.561	2.469	2.129
HCM Lane V/C Ratio	0.218	0.047	0.015	0.078
HCM Control Delay, s/veh	8.1	7.8	7.5	7.5
HCM Lane LOS	A	A	A	A
HCM 95th-tile Q	0.8	0.1	0	0.2



Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (vph)	21	5	19	1	1	24
Future Volume (vph)	21	5	19	1	1	24
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Link Speed (mph)		55	55		45	
Link Distance (ft)		3330	1344		1769	
Travel Time (s)		41.3	16.7		26.8	
Peak Hour Factor	0.69	0.69	0.69	0.69	0.69	0.69
Shared Lane Traffic (%)						
Sign Control		Free	Free		Stop	

Intersection Summary	
Area Type:	Other

Control Type: Unsignalized

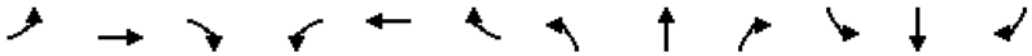
Intersection	
Int Delay, s/veh	5.2

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	21	5	19	1	1	24
Future Vol, veh/h	21	5	19	1	1	24
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	69	69	69	69	69	69
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	30	7	28	1	1	35

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	29	0	-	0	96	28
Stage 1	-	-	-	-	28	-
Stage 2	-	-	-	-	68	-
Critical Hdwy	4.1	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.2	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	1597	-	-	-	908	1053
Stage 1	-	-	-	-	999	-
Stage 2	-	-	-	-	960	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1597	-	-	-	890	1053
Mov Cap-2 Maneuver	-	-	-	-	890	-
Stage 1	-	-	-	-	980	-
Stage 2	-	-	-	-	960	-

Approach	EB	WB	SB
HCM Control Delay, s/v	5.89	0	8.57
HCM LOS			A

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1454	-	-	-	1045
HCM Lane V/C Ratio	0.019	-	-	-	0.035
HCM Control Delay (s/veh)	7.3	0	-	-	8.6
HCM Lane LOS	A	A	-	-	A
HCM 95th %tile Q(veh)	0.1	-	-	-	0.1



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	0	0	0	2	0	0	0	0	1	0	0	0
Future Volume (vph)	0	0	0	2	0	0	0	0	1	0	0	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Link Speed (mph)		45			45			45			45	
Link Distance (ft)		1354			321			1023			285	
Travel Time (s)		20.5			4.9			15.5			4.3	
Peak Hour Factor	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Shared Lane Traffic (%)												
Sign Control		Stop			Stop			Free			Free	

Intersection Summary	
Area Type:	Other

Control Type: Unsignalized

Intersection	
Int Delay, s/veh	4.3

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	0	0	0	2	0	0	0	0	1	0	0	0
Future Vol, veh/h	0	0	0	2	0	0	0	0	1	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	50	50	50	50	50	50	50	50	50	50	50	50
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	0	0	4	0	0	0	0	2	0	0	0

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	2	4	2	3	3	1	2	0	0	2	0	0
Stage 1	2	2	-	1	1	-	-	-	-	-	-	-
Stage 2	0	2	-	2	2	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	1026	896	1088	1024	897	1090	1634	-	-	1634	-	-
Stage 1	1026	898	-	1027	899	-	-	-	-	-	-	-
Stage 2	-	898	-	1026	898	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	1026	896	1088	1024	897	1090	1634	-	-	1634	-	-
Mov Cap-2 Maneuver	1026	896	-	1024	897	-	-	-	-	-	-	-
Stage 1	1026	898	-	1027	899	-	-	-	-	-	-	-
Stage 2	-	898	-	1026	898	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	0	8.53	0	0
HCM LOS	A	A		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1634	-	-	-	1024	1634	-	-
HCM Lane V/C Ratio	-	-	-	-	0.004	-	-	-
HCM Control Delay (s/veh)	0	-	-	0	8.5	0	-	-
HCM Lane LOS	A	-	-	A	A	A	-	-
HCM 95th %tile Q(veh)	0	-	-	-	0	0	-	-



Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Volume (vph)	20	1	2	1	3	22
Future Volume (vph)	20	1	2	1	3	22
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Link Speed (mph)	30			55	55	
Link Distance (ft)	2664			475	6664	
Travel Time (s)	60.5			5.9	82.6	
Peak Hour Factor	0.73	0.73	0.73	0.73	0.73	0.73
Shared Lane Traffic (%)						
Sign Control	Stop			Free	Free	

Intersection Summary	
Area Type:	Other

Control Type: Unsignalized

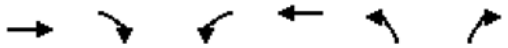
Intersection	
Int Delay, s/veh	4

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	20	1	2	1	3	22
Future Vol, veh/h	20	1	2	1	3	22
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	73	73	73	73	73	73
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	27	1	3	1	4	30

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	26	19	34	0	-	0
Stage 1	19	-	-	-	-	-
Stage 2	7	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	995	1065	1590	-	-	-
Stage 1	1009	-	-	-	-	-
Stage 2	1021	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	993	1065	1590	-	-	-
Mov Cap-2 Maneuver	993	-	-	-	-	-
Stage 1	1007	-	-	-	-	-
Stage 2	1021	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s/v	8.72	4.85	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1200	-	996	-	-
HCM Lane V/C Ratio	0.002	-	0.029	-	-
HCM Control Delay (s/veh)	7.3	0	8.7	-	-
HCM Lane LOS	A	A	A	-	-
HCM 95th %tile Q(veh)	0	-	0.1	-	-



Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	68	41	17	46	43	12
Future Volume (vph)	68	41	17	46	43	12
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (ft)		0	0		0	100
Storage Lanes		0	0		1	0
Taper Length (ft)			90		90	
Link Speed (mph)	45			45	55	
Link Distance (ft)	5327			1835	6664	
Travel Time (s)	80.7			27.8	82.6	
Peak Hour Factor	0.76	0.76	0.76	0.76	0.76	0.76
Shared Lane Traffic (%)						
Sign Control	Free			Free	Stop	

Intersection Summary	
Area Type:	Other
Control Type: Unsignalized	

Intersection	
Int Delay, s/veh	3

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	68	41	17	46	43	12
Future Vol, veh/h	68	41	17	46	43	12
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	76	76	76	76	76	76
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	89	54	22	61	57	16

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	143	0	222	116
Stage 1	-	-	-	-	116	-
Stage 2	-	-	-	-	105	-
Critical Hdwy	-	-	4.1	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	-	-	2.2	-	3.5	3.3
Pot Cap-1 Maneuver	-	-	1452	-	771	941
Stage 1	-	-	-	-	914	-
Stage 2	-	-	-	-	924	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1452	-	759	941
Mov Cap-2 Maneuver	-	-	-	-	759	-
Stage 1	-	-	-	-	914	-
Stage 2	-	-	-	-	909	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	2.03	10
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	792	-	-	486	-
HCM Lane V/C Ratio	0.091	-	-	0.015	-
HCM Control Delay (s/veh)	10	-	-	7.5	0
HCM Lane LOS	B	-	-	A	A
HCM 95th %tile Q(veh)	0.3	-	-	0	-

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	1	179	35	43	168	42	29	69	48	75	197	1
Future Volume (vph)	1	179	35	43	168	42	29	69	48	75	197	1
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0		0	0		165	100		0	325		0
Storage Lanes	0		0	0		1	1		1	1		0
Taper Length (ft)	90			90			90			90		
Link Speed (mph)		45			45			55			55	
Link Distance (ft)		7616			5327			4005			1074	
Travel Time (s)		115.4			80.7			49.6			13.3	
Peak Hour Factor	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
Shared Lane Traffic (%)												
Sign Control		Stop			Stop			Stop			Stop	

Intersection Summary	
Area Type:	Other
Control Type: Unsignalized	

Intersection	
Intersection Delay, s/veh	16.5
Intersection LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	1	179	35	43	168	42	29	69	48	75	197	1
Future Vol, veh/h	1	179	35	43	168	42	29	69	48	75	197	1
Peak Hour Factor	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	1	224	44	54	210	53	36	86	60	94	246	1
Number of Lanes	0	1	0	0	1	1	1	1	1	1	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	2	1	2	3
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	2	3	1	2
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	3	2	2	1
HCM Control Delay, s/veh	18.7	17.4	11.9	16.3
HCM LOS	C	C	B	C

Lane	NBLn1	NBLn2	NBLn3	EBLn1	WBLn1	WBLn2	SBLn1	SBLn2
Vol Left, %	100%	0%	0%	0%	20%	0%	100%	0%
Vol Thru, %	0%	100%	0%	83%	80%	0%	0%	99%
Vol Right, %	0%	0%	100%	16%	0%	100%	0%	1%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	29	69	48	215	211	42	75	198
LT Vol	29	0	0	1	43	0	75	0
Through Vol	0	69	0	179	168	0	0	197
RT Vol	0	0	48	35	0	42	0	1
Lane Flow Rate	36	86	60	269	264	53	94	248
Geometry Grp	6	6	6	6	6	6	6	6
Degree of Util (X)	0.085	0.189	0.119	0.548	0.547	0.097	0.206	0.509
Departure Headway (Hd)	8.395	7.88	7.16	7.335	7.462	6.646	7.925	7.407
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cap	426	454	499	492	483	538	452	485
Service Time	6.166	5.651	4.93	5.096	5.223	4.406	5.689	5.171
HCM Lane V/C Ratio	0.085	0.189	0.12	0.547	0.547	0.099	0.208	0.511
HCM Control Delay, s/veh	12	12.5	10.9	18.7	18.9	10.1	12.7	17.7
HCM Lane LOS	B	B	B	C	C	B	B	C
HCM 95th-tile Q	0.3	0.7	0.4	3.3	3.2	0.3	0.8	2.8



Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	194	3	12	212	2	27
Future Volume (vph)	194	3	12	212	2	27
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Link Speed (mph)	45		45			45
Link Distance (ft)	7616		549			661
Travel Time (s)	115.4		8.3			10.0
Peak Hour Factor	0.67	0.67	0.67	0.67	0.67	0.67
Shared Lane Traffic (%)						
Sign Control	Stop		Free			Free

Intersection Summary	
Area Type:	Other

Control Type: Unsignalized

Intersection	
Int Delay, s/veh	5.5

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	194	3	12	212	2	27
Future Vol, veh/h	194	3	12	212	2	27
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	67	67	67	67	67	67
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	290	4	18	316	3	40

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	222	176	0	0	334	0
Stage 1	176	-	-	-	-	-
Stage 2	46	-	-	-	-	-
Critical Hdwy	6.4	6.2	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	770	872	-	-	1236	-
Stage 1	859	-	-	-	-	-
Stage 2	981	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	768	872	-	-	1236	-
Mov Cap-2 Maneuver	768	-	-	-	-	-
Stage 1	859	-	-	-	-	-
Stage 2	979	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v	12.54	0	0.55
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	770	124	-
HCM Lane V/C Ratio	-	-	0.382	0.002	-
HCM Control Delay (s/veh)	-	-	12.5	7.9	0
HCM Lane LOS	-	-	B	A	A
HCM 95th %tile Q(veh)	-	-	1.8	0	-

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	5	16	45	8	213	1	4	25	10	198	0	19
Future Volume (vph)	5	16	45	8	213	1	4	25	10	198	0	19
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Link Speed (mph)		45			45			30			30	
Link Distance (ft)		889			1144			979			330	
Travel Time (s)		13.5			17.3			22.3			7.5	
Peak Hour Factor	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68
Shared Lane Traffic (%)												
Sign Control		Free			Free			Stop			Stop	

Intersection Summary	
Area Type:	Other

Control Type: Unsignalized

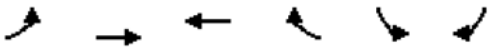
Intersection	
Int Delay, s/veh	9.7

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	5	16	45	8	213	1	4	25	10	198	0	19
Future Vol, veh/h	5	16	45	8	213	1	4	25	10	198	0	19
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	68	68	68	68	68	68	68	68	68	68	68	68
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	7	24	66	12	313	1	6	37	15	291	0	28

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	315	0	0	90	0	0	408	410	57	394	442	314
Stage 1	-	-	-	-	-	-	71	71	-	337	337	-
Stage 2	-	-	-	-	-	-	337	338	-	57	104	-
Critical Hdwy	4.1	-	-	4.1	-	-	7.1	6.5	6.2	7.1	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Follow-up Hdwy	2.2	-	-	2.2	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	1257	-	-	1518	-	-	557	535	1015	569	513	731
Stage 1	-	-	-	-	-	-	943	839	-	681	644	-
Stage 2	-	-	-	-	-	-	682	644	-	960	813	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1257	-	-	1518	-	-	528	526	1015	514	505	731
Mov Cap-2 Maneuver	-	-	-	-	-	-	528	526	-	514	505	-
Stage 1	-	-	-	-	-	-	938	834	-	675	638	-
Stage 2	-	-	-	-	-	-	649	638	-	899	808	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	0.6	0.27	11.62	21.7
HCM LOS			B	C

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	601	119	-	-	65	-	-	528
HCM Lane V/C Ratio	0.095	0.006	-	-	0.008	-	-	0.605
HCM Control Delay (s/veh)	11.6	7.9	0	-	7.4	0	-	21.7
HCM Lane LOS	B	A	A	-	A	A	-	C
HCM 95th %tile Q(veh)	0.3	0	-	-	0	-	-	4



Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (vph)	6	22	31	205	43	2
Future Volume (vph)	6	22	31	205	43	2
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0			0	0	25
Storage Lanes	0			0	1	0
Taper Length (ft)	90				90	
Link Speed (mph)		45	45		45	
Link Distance (ft)		1552	889		1482	
Travel Time (s)		23.5	13.5		22.5	
Peak Hour Factor	0.58	0.58	0.58	0.58	0.58	0.58
Shared Lane Traffic (%)						
Sign Control		Free	Free		Stop	

Intersection Summary	
Area Type:	Other
Control Type: Unsignalized	

Intersection	
Int Delay, s/veh	1.7

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	6	22	31	205	43	2
Future Vol, veh/h	6	22	31	205	43	2
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	Yield	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	58	58	58	58	58	58
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	10	38	53	353	74	3

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	53	0	-	0	289	230
Stage 1	-	-	-	-	230	-
Stage 2	-	-	-	-	59	-
Critical Hdwy	4.1	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.2	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	1565	-	-	-	706	814
Stage 1	-	-	-	-	813	-
Stage 2	-	-	-	-	969	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1565	-	-	-	701	814
Mov Cap-2 Maneuver	-	-	-	-	701	-
Stage 1	-	-	-	-	807	-
Stage 2	-	-	-	-	969	-

Approach	EB	WB	SB
HCM Control Delay, s/v	1.57	0	10.73
HCM LOS			B

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	386	-	-	-	706
HCM Lane V/C Ratio	0.007	-	-	-	0.11
HCM Control Delay (s/veh)	7.3	0	-	-	10.7
HCM Lane LOS	A	A	-	-	B
HCM 95th %tile Q(veh)	0	-	-	-	0.4



Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	45	1	1	210	1	1
Future Volume (vph)	45	1	1	210	1	1
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Link Speed (mph)	30		45			45
Link Distance (ft)	263		1482			525
Travel Time (s)	6.0		22.5			8.0
Peak Hour Factor	0.56	0.56	0.56	0.56	0.56	0.56
Shared Lane Traffic (%)						
Sign Control	Stop		Free			Free

Intersection Summary	
Area Type:	Other

Control Type: Unsignalized

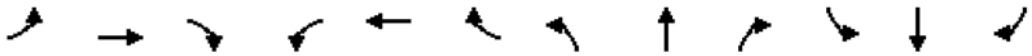
Intersection	
Int Delay, s/veh	1.8

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	45	1	1	210	1	1
Future Vol, veh/h	45	1	1	210	1	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	56	56	56	56	56	56
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	80	2	2	375	2	2

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	195	189	0	0	377	0
Stage 1	189	-	-	-	-	-
Stage 2	5	-	-	-	-	-
Critical Hdwy	6.4	6.2	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	799	858	-	-	1193	-
Stage 1	848	-	-	-	-	-
Stage 2	1023	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	798	858	-	-	1193	-
Mov Cap-2 Maneuver	798	-	-	-	-	-
Stage 1	848	-	-	-	-	-
Stage 2	1021	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v	10.02	0	4.01
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	799	900	-
HCM Lane V/C Ratio	-	-	0.103	0.001	-
HCM Control Delay (s/veh)	-	-	10	8	0
HCM Lane LOS	-	-	B	A	A
HCM 95th %tile Q(veh)	-	-	0.3	0	-



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	23	6	2	27	16	2	3	111	16	4	208	46
Future Volume (vph)	23	6	2	27	16	2	3	111	16	4	208	46
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		1375			3330			1135			747	
Travel Time (s)		17.0			41.3			14.1			9.3	
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Shared Lane Traffic (%)												
Sign Control		Stop			Stop			Stop			Stop	

Intersection Summary	
Area Type:	Other

Control Type: Unsignalized

Intersection	
Intersection Delay, s/veh	8.7
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	23	6	2	27	16	2	3	111	16	4	208	46
Future Vol, veh/h	23	6	2	27	16	2	3	111	16	4	208	46
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	25	6	2	29	17	2	3	119	17	4	224	49
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	8.2	8.3	8.2	9.1
HCM LOS	A	A	A	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	2%	74%	60%	2%
Vol Thru, %	85%	19%	36%	81%
Vol Right, %	12%	6%	4%	18%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	130	31	45	258
LT Vol	3	23	27	4
Through Vol	111	6	16	208
RT Vol	16	2	2	46
Lane Flow Rate	140	33	48	277
Geometry Grp	1	1	1	1
Degree of Util (X)	0.168	0.046	0.066	0.32
Departure Headway (Hd)	4.315	4.976	4.938	4.149
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	833	720	726	868
Service Time	2.331	3.002	2.964	2.162
HCM Lane V/C Ratio	0.168	0.046	0.066	0.319
HCM Control Delay, s/veh	8.2	8.2	8.3	9.1
HCM Lane LOS	A	A	A	A
HCM 95th-tile Q	0.6	0.1	0.2	1.4

APPENDIX 3.3: EXISTING (2024) CONDITIONS TRAFFIC SIGNAL WARRANT ANALYSIS WORKSHEETS

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(FHWA's MUTCD 2009, as amended for use in California)

Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

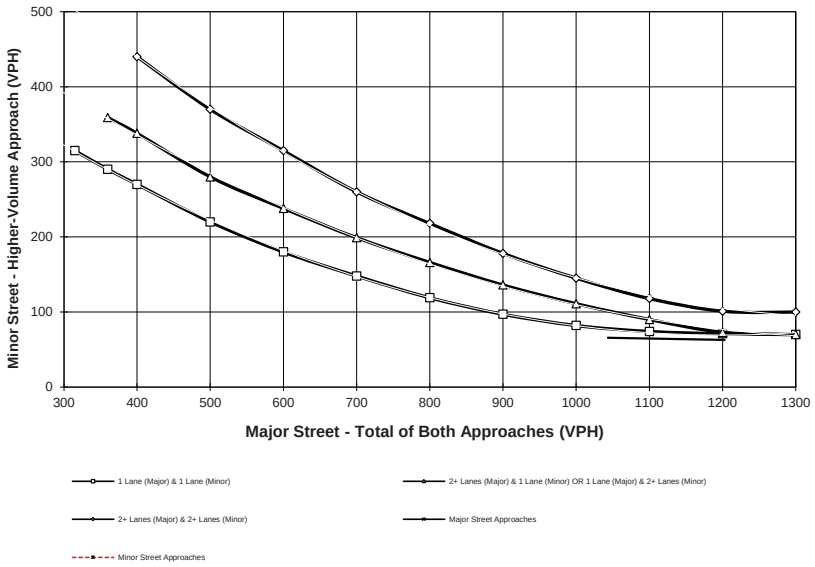
(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 64 km/h OR ABOVE 40 mph ON MAJOR STREET)

Traffic Conditions = **EXISTING (2024) AM Peak Hour Warrants**

Major Street Name = **Corwin Rd.** Total of Both Approaches (VPH) = **31**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Dakota Av.** High Volume Approach (VPH) = **7**
Number of Approach Lanes Minor Street = **1**

SIGNAL WARRANT NOT SATISFIED



*Note: 100 vph applies as the lower threshold for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold for a minor-street approach with one lane

Intersection ID: #1

F:\UXRjobs_15600_16000_16000\16091\02_LOS\Warrants\01 - Existing\01R_AM.xls\Fig 4C-4 (Rural Peak)

California MUTCD 2016 Edition
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Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

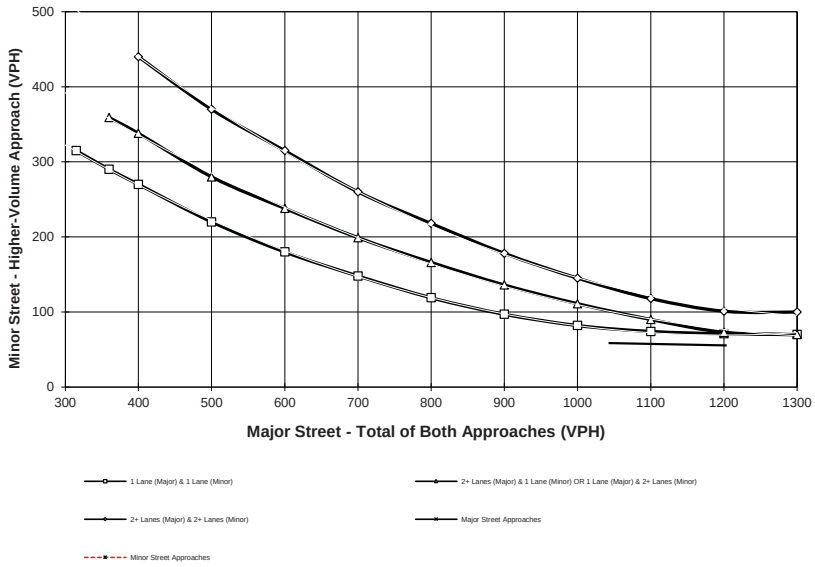
(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 64 km/h OR ABOVE 40 mph ON MAJOR STREET)

Traffic Conditions = **EXISTING (2024) PM Peak Hour Warrants**

Major Street Name = **Corwin Rd.** Total of Both Approaches (VPH) = **46**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Dakota Av.** High Volume Approach (VPH) = **25**
Number of Approach Lanes Minor Street = **1**

SIGNAL WARRANT NOT SATISFIED



*Note: 100 vph applies as the lower threshold for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold for a minor-street approach with one lane

Intersection ID: #1

F:\UXRjobs_15600_16000_16000\16091\02_LOS\Warrants\01 - Existing\01R_PM.xls\Fig 4C-4 (Rural Peak)

Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

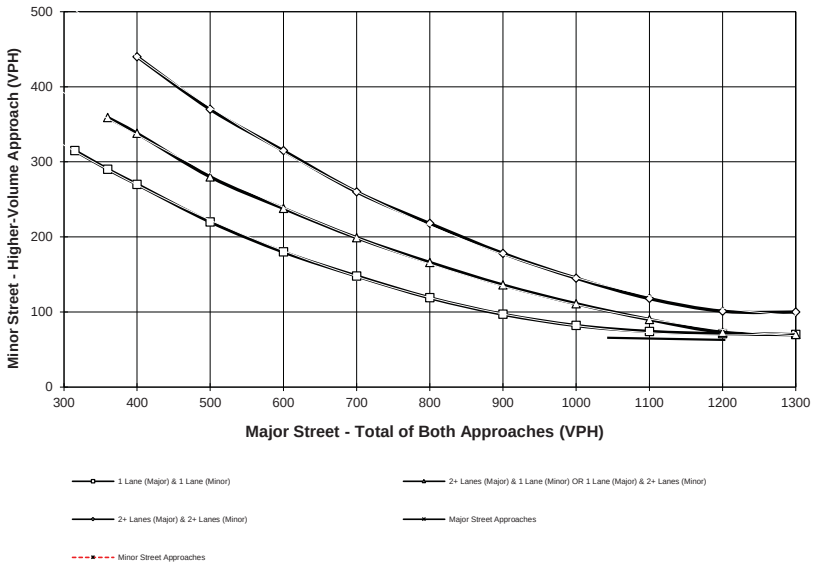
(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 64 km/h OR ABOVE 40 mph ON MAJOR STREET)

Traffic Conditions = **EXISTING (2024) AM Peak Hour Warrants**

Major Street Name = **Ramona Rd.** Total of Both Approaches (VPH) = **1**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Fresno Rd.** High Volume Approach (VPH) = **1**
Number of Approach Lanes Minor Street = **1**

SIGNAL WARRANT NOT SATISFIED



*Note: 100 vph applies as the lower threshold for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold for a minor-street approach with one lane

Intersection ID: #2

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Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

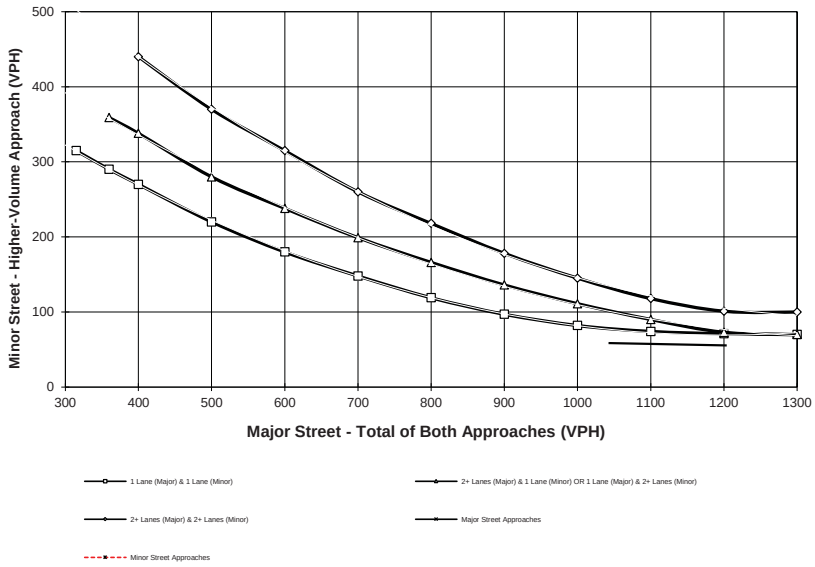
(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 64 km/h OR ABOVE 40 mph ON MAJOR STREET)

Traffic Conditions = **EXISTING (2024) PM Peak Hour Warrants**

Major Street Name = **Fresno Rd.** Total of Both Approaches (VPH) = **2**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Ramona Rd.** High Volume Approach (VPH) = **1**
Number of Approach Lanes Minor Street = **1**

SIGNAL WARRANT NOT SATISFIED



*Note: 100 vph applies as the lower threshold for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold for a minor-street approach with one lane

Intersection ID: #2

Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

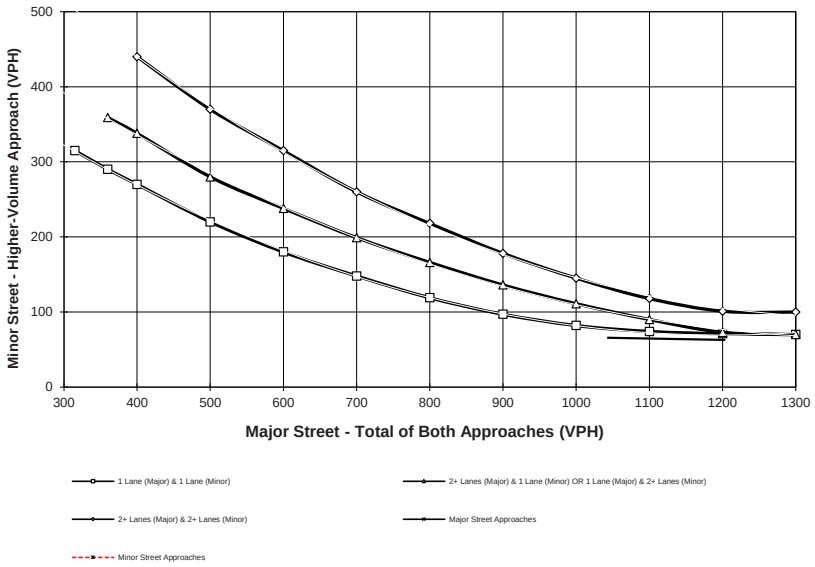
(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 64 km/h OR ABOVE 40 mph ON MAJOR STREET)

Traffic Conditions = **EXISTING (2024) AM Peak Hour Warrants**

Major Street Name = **Navajo Rd.** Total of Both Approaches (VPH) = **11**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Altadena St.** High Volume Approach (VPH) = **9**
Number of Approach Lanes Minor Street = **1**

SIGNAL WARRANT NOT SATISFIED



*Note: 100 vph applies as the lower threshold for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold for a minor-street approach with one lane

Intersection ID: #3

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Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

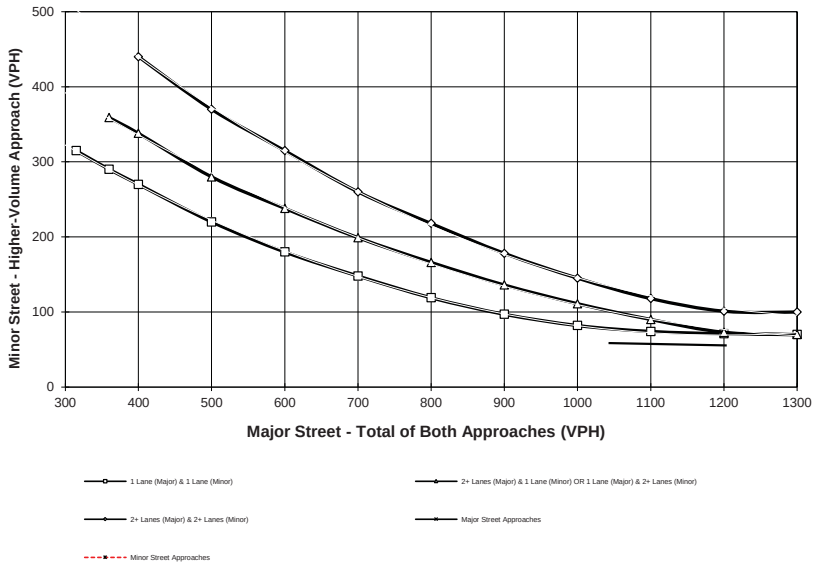
(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 64 km/h OR ABOVE 40 mph ON MAJOR STREET)

Traffic Conditions = **EXISTING (2024) PM Peak Hour Warrants**

Major Street Name = **Navajo Rd.** Total of Both Approaches (VPH) = **28**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Altadena St.** High Volume Approach (VPH) = **21**
Number of Approach Lanes Minor Street = **1**

SIGNAL WARRANT NOT SATISFIED



*Note: 100 vph applies as the lower threshold for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold for a minor-street approach with one lane

Intersection ID: #3

Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

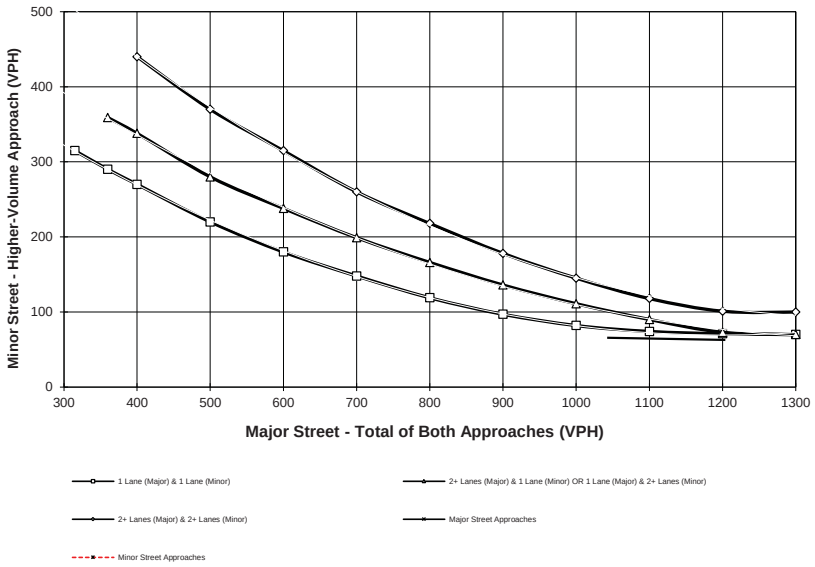
(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 64 km/h OR ABOVE 40 mph ON MAJOR STREET)

Traffic Conditions = **EXISTING (2024) AM Peak Hour Warrants**

Major Street Name = **Johnson Rd.** Total of Both Approaches (VPH) = **111**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Navajo Rd.** High Volume Approach (VPH) = **20**
Number of Approach Lanes Minor Street = **1**

SIGNAL WARRANT NOT SATISFIED



*Note: 100 vph applies as the lower threshold for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold for a minor-street approach with one lane

Intersection ID: #4

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Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

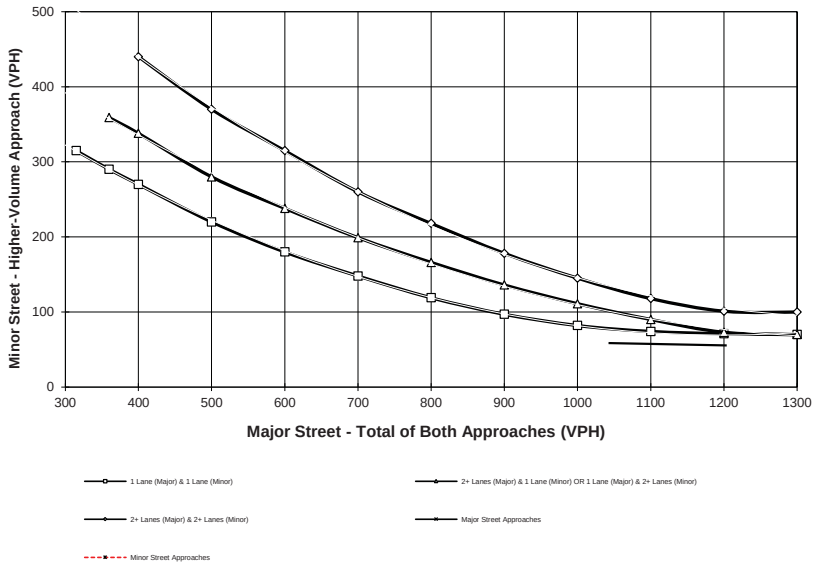
(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 64 km/h OR ABOVE 40 mph ON MAJOR STREET)

Traffic Conditions = **EXISTING (2024) PM Peak Hour Warrants**

Major Street Name = **Johnson Rd.** Total of Both Approaches (VPH) = **172**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Navajo Rd.** High Volume Approach (VPH) = **55**
Number of Approach Lanes Minor Street = **1**

SIGNAL WARRANT NOT SATISFIED



*Note: 100 vph applies as the lower threshold for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold for a minor-street approach with one lane

Intersection ID: #4

Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

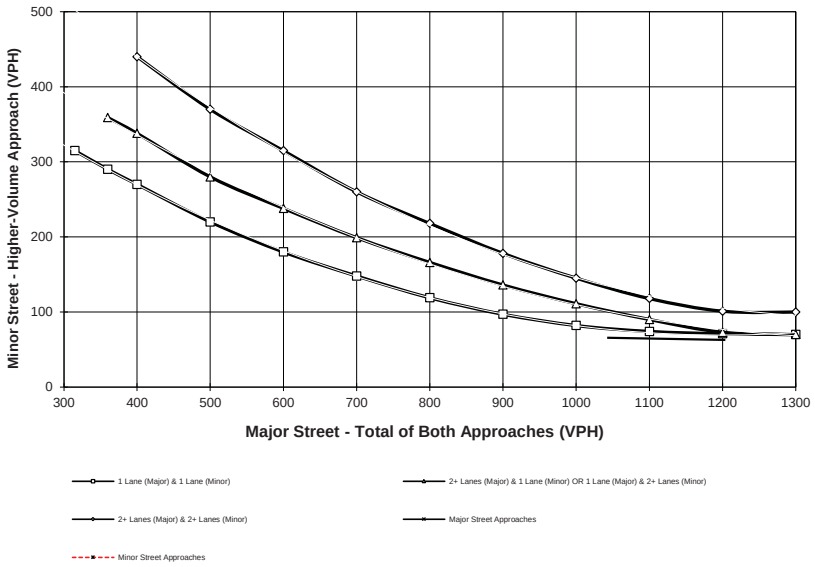
(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 64 km/h OR ABOVE 40 mph ON MAJOR STREET)

Traffic Conditions = **EXISTING (2024) AM Peak Hour Warrants**

Major Street Name = **Dale Evans Pkwy.** Total of Both Approaches (VPH) = **256**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Johnson Rd.** High Volume Approach (VPH) = **142**
Number of Approach Lanes Minor Street = **1**

SIGNAL WARRANT NOT SATISFIED



*Note: 100 vph applies as the lower threshold for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold for a minor-street approach with one lane

Intersection ID: #5

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Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

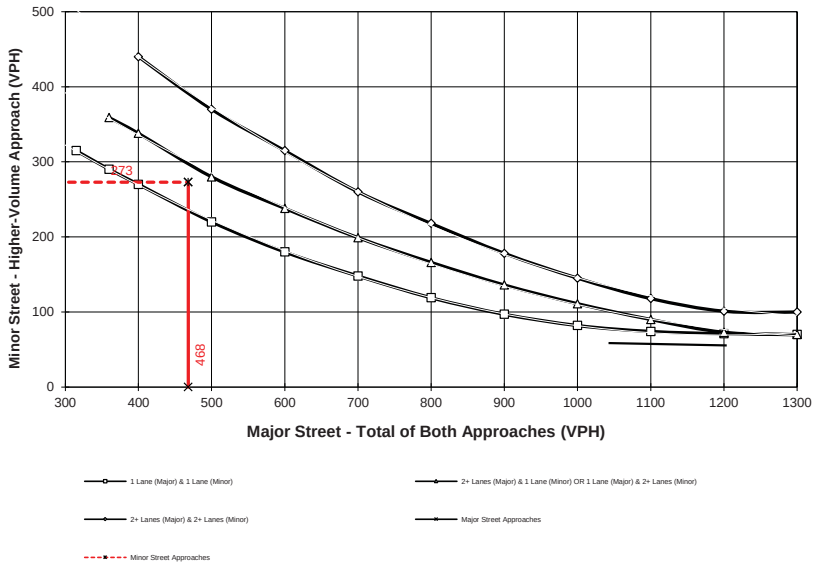
(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 64 km/h OR ABOVE 40 mph ON MAJOR STREET)

Traffic Conditions = **EXISTING (2024) PM Peak Hour Warrants**

Major Street Name = **Johnson Rd.** Total of Both Approaches (VPH) = **468**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Dale Evans Pkwy.** High Volume Approach (VPH) = **273**
Number of Approach Lanes Minor Street = **1**

WARRANTED FOR A SIGNAL



*Note: 100 vph applies as the lower threshold for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold for a minor-street approach with one lane

Intersection ID: #5

Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

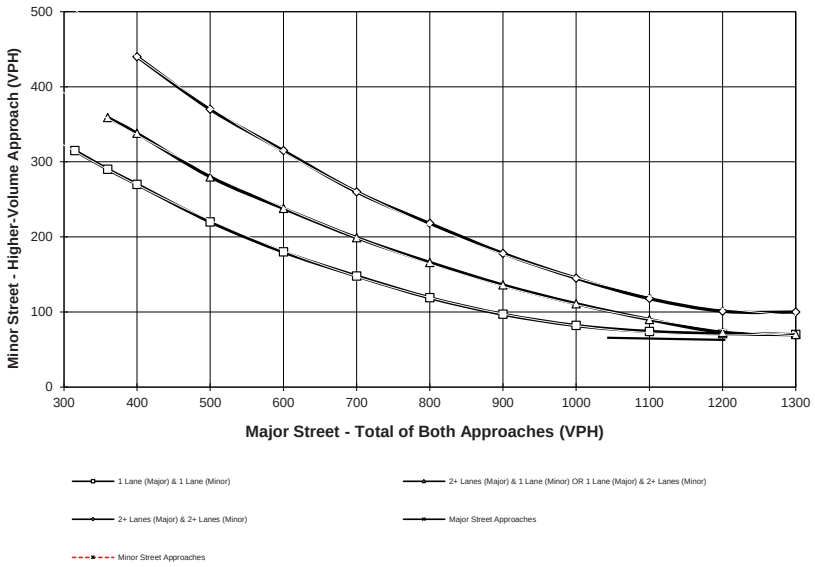
(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 64 km/h OR ABOVE 40 mph ON MAJOR STREET)

Traffic Conditions = **EXISTING (2024) AM Peak Hour Warrants**

Major Street Name = **Stoddard Wells Rd.** Total of Both Approaches (VPH) = **189**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Johnson Rd.** High Volume Approach (VPH) = **97**
Number of Approach Lanes Minor Street = **1**

SIGNAL WARRANT NOT SATISFIED



*Note: 100 vph applies as the lower threshold for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold for a minor-street approach with one lane

Intersection ID: #6

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Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

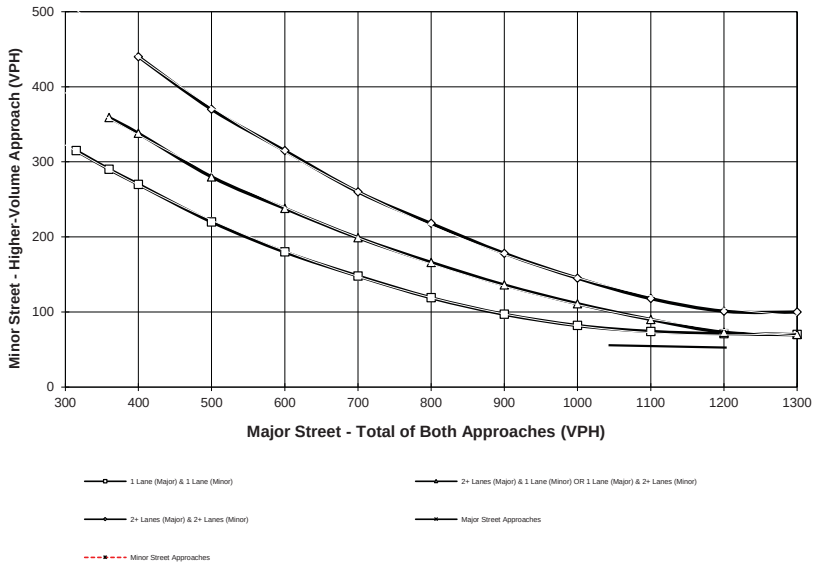
(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 64 km/h OR ABOVE 40 mph ON MAJOR STREET)

Traffic Conditions = **EXISTING (2024) PM Peak Hour Warrants**

Major Street Name = **Stoddard Wells Rd.** Total of Both Approaches (VPH) = **253**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Johnson Rd.** High Volume Approach (VPH) = **197**
Number of Approach Lanes Minor Street = **1**

SIGNAL WARRANT NOT SATISFIED



*Note: 100 vph applies as the lower threshold for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold for a minor-street approach with one lane

Intersection ID: #6

Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

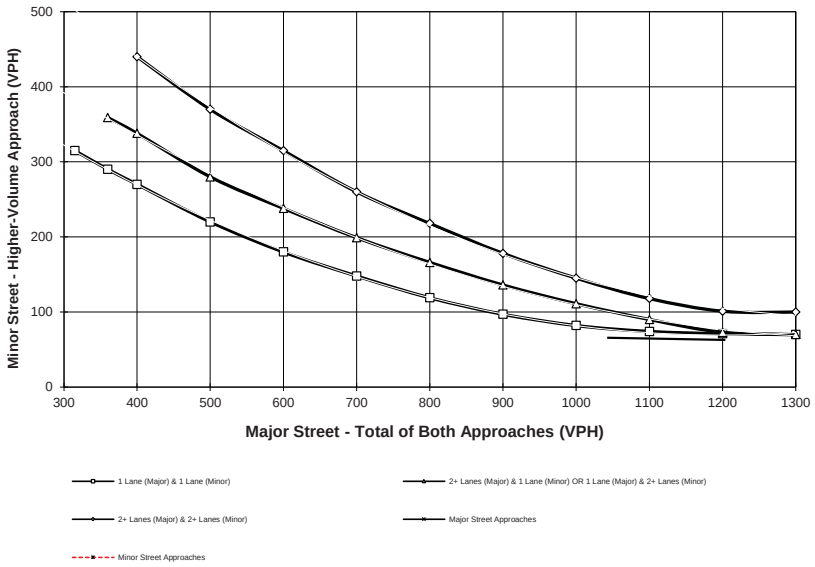
(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 64 km/h OR ABOVE 40 mph ON MAJOR STREET)

Traffic Conditions = **EXISTING (2024) AM Peak Hour Warrants**

Major Street Name = **Stoddard Wells Rd.** Total of Both Approaches (VPH) = **196**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **I-15 NB Ramps - Outer Hwy. 15** High Volume Approach (VPH) = **145**
Number of Approach Lanes Minor Street = **1**

SIGNAL WARRANT NOT SATISFIED



*Note: 100 vph applies as the lower threshold for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold for a minor-street approach with one lane

Intersection ID: #7

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Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

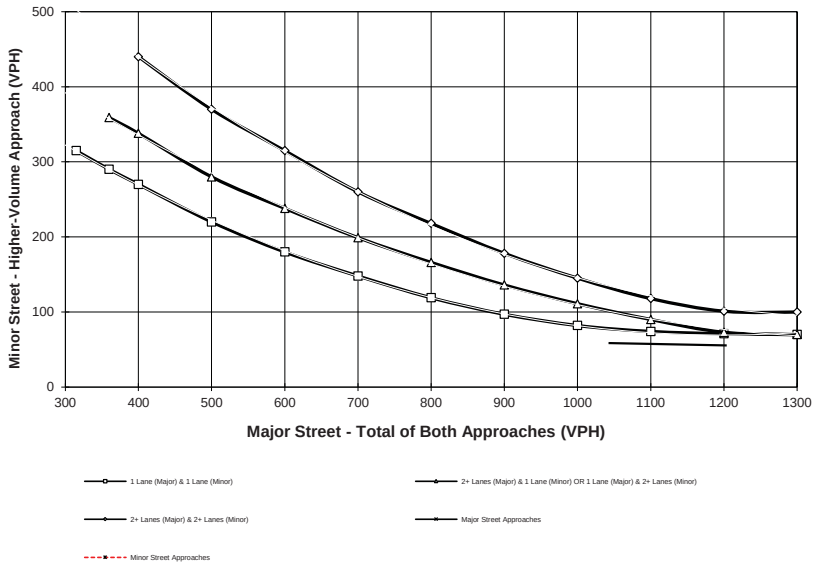
(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 64 km/h OR ABOVE 40 mph ON MAJOR STREET)

Traffic Conditions = **EXISTING (2024) PM Peak Hour Warrants**

Major Street Name = **Stoddard Wells Rd.** Total of Both Approaches (VPH) = **288**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **I-15 NB Ramps - Outer Hwy. 15** High Volume Approach (VPH) = **217**
Number of Approach Lanes Minor Street = **1**

SIGNAL WARRANT NOT SATISFIED



*Note: 100 vph applies as the lower threshold for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold for a minor-street approach with one lane

Intersection ID: #7

Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

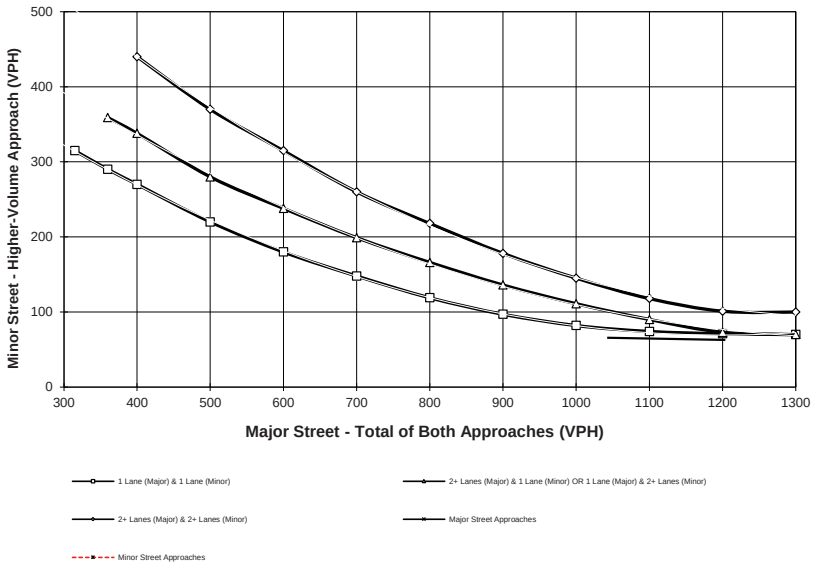
(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 64 km/h OR ABOVE 40 mph ON MAJOR STREET)

Traffic Conditions = **EXISTING (2024) AM Peak Hour Warrants**

Major Street Name = **Stoddard Wells Rd.** Total of Both Approaches (VPH) = **185**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Quarry Rd.** High Volume Approach (VPH) = **37**
Number of Approach Lanes Minor Street = **1**

SIGNAL WARRANT NOT SATISFIED



*Note: 100 vph applies as the lower threshold for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold for a minor-street approach with one lane

Intersection ID: #8

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Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

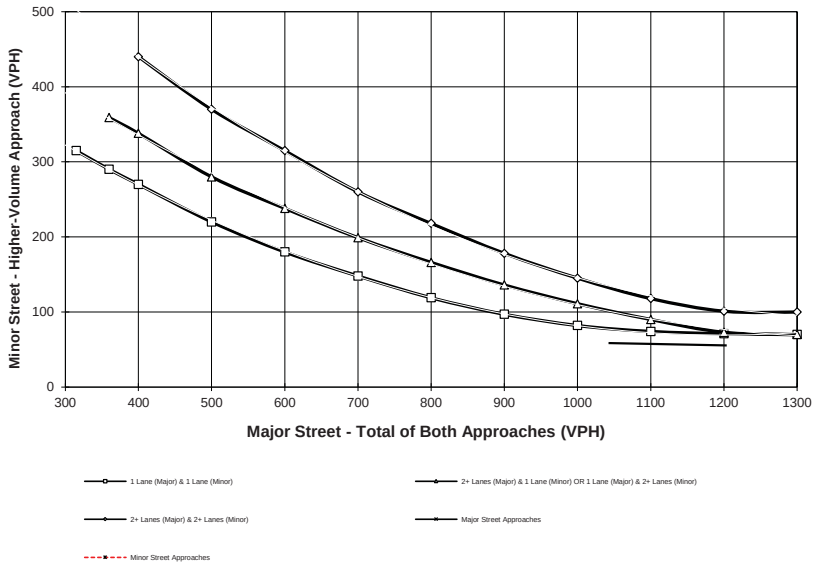
(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 64 km/h OR ABOVE 40 mph ON MAJOR STREET)

Traffic Conditions = **EXISTING (2024) PM Peak Hour Warrants**

Major Street Name = **Stoddard Wells Rd.** Total of Both Approaches (VPH) = **264**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Quarry Rd.** High Volume Approach (VPH) = **45**
Number of Approach Lanes Minor Street = **1**

SIGNAL WARRANT NOT SATISFIED



*Note: 100 vph applies as the lower threshold for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold for a minor-street approach with one lane

Intersection ID: #8

Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

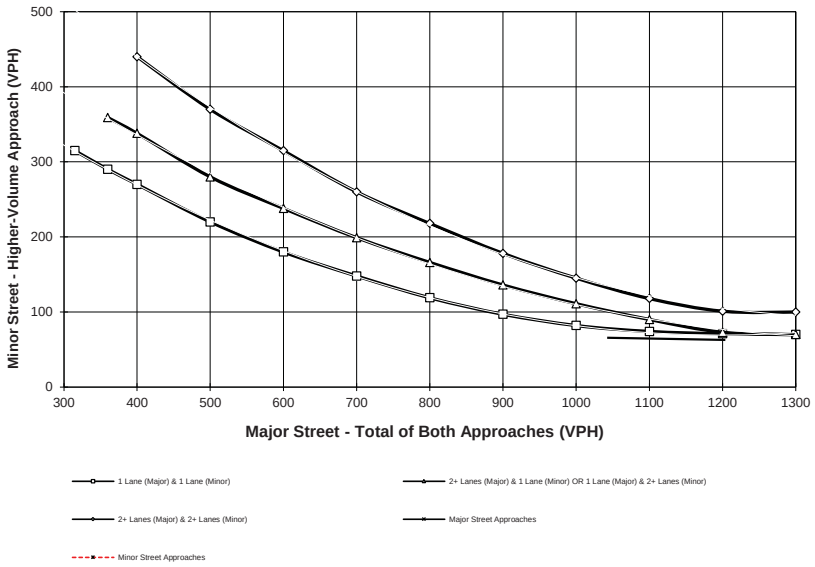
(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 64 km/h OR ABOVE 40 mph ON MAJOR STREET)

Traffic Conditions = **EXISTING (2024) AM Peak Hour Warrants**

Major Street Name = **Quarry Rd.** Total of Both Approaches (VPH) = **128**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **I-15 SB Ramps** High Volume Approach (VPH) = **36**
Number of Approach Lanes Minor Street = **1**

SIGNAL WARRANT NOT SATISFIED



*Note: 100 vph applies as the lower threshold for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold for a minor-street approach with one lane

Intersection ID: #9

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Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

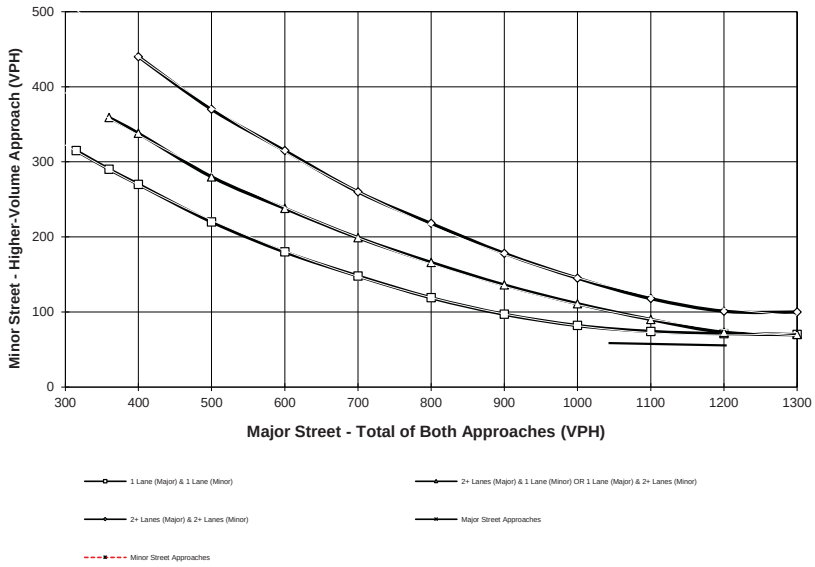
(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 64 km/h OR ABOVE 40 mph ON MAJOR STREET)

Traffic Conditions = **EXISTING (2024) PM Peak Hour Warrants**

Major Street Name = **Quarry Rd.** Total of Both Approaches (VPH) = **213**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **I-15 SB Ramps** High Volume Approach (VPH) = **46**
Number of Approach Lanes Minor Street = **1**

SIGNAL WARRANT NOT SATISFIED



*Note: 100 vph applies as the lower threshold for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold for a minor-street approach with one lane

Intersection ID: #9

Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

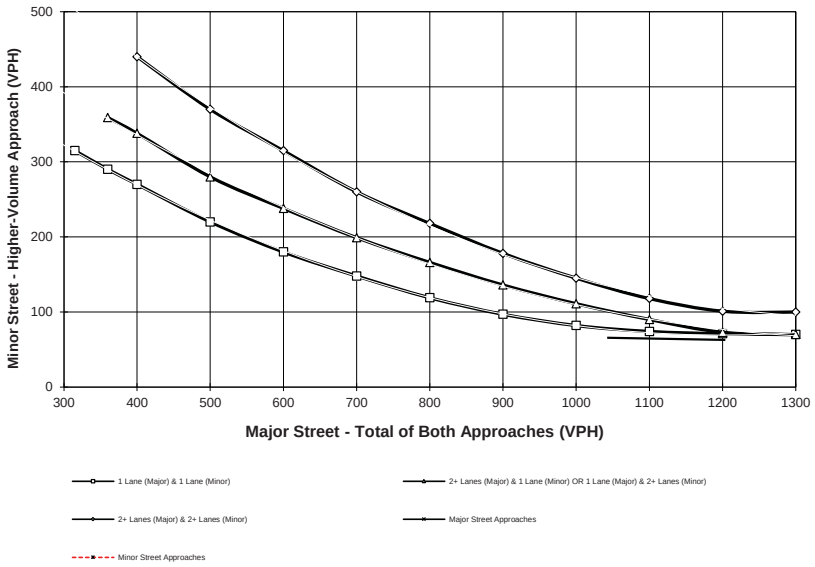
(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 64 km/h OR ABOVE 40 mph ON MAJOR STREET)

Traffic Conditions = **EXISTING (2024) AM Peak Hour Warrants**

Major Street Name = **Dale Evans Pkwy.** Total of Both Approaches (VPH) = **237**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Corwin Rd.** High Volume Approach (VPH) = **33**
Number of Approach Lanes Minor Street = **1**

SIGNAL WARRANT NOT SATISFIED



*Note: 100 vph applies as the lower threshold for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold for a minor-street approach with one lane

Intersection ID: #10

California MUTCD 2016 Edition
(FHWA's MUTCD 2009, as amended for use in California)

Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

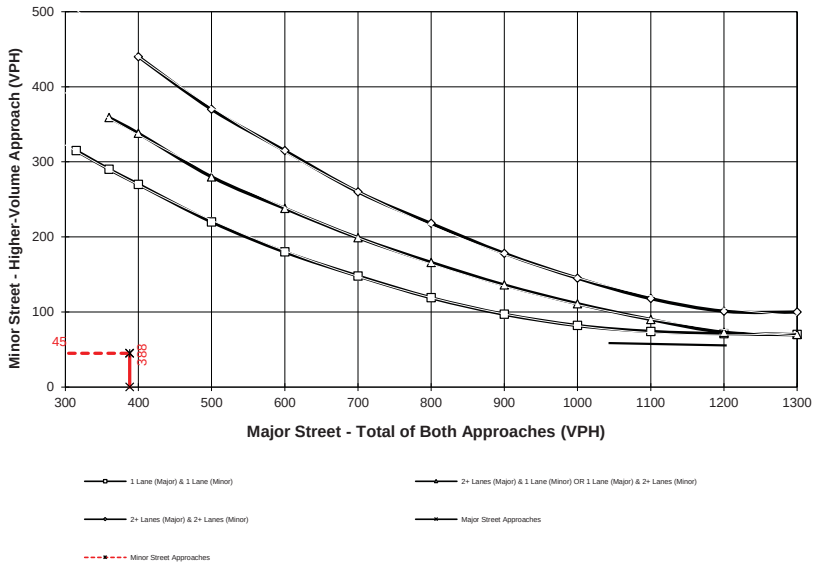
(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 64 km/h OR ABOVE 40 mph ON MAJOR STREET)

Traffic Conditions = **EXISTING (2024) PM Peak Hour Warrants**

Major Street Name = **Dale Evans Pkwy.** Total of Both Approaches (VPH) = **388**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Corwin Rd.** High Volume Approach (VPH) = **45**
Number of Approach Lanes Minor Street = **1**

SIGNAL WARRANT NOT SATISFIED



*Note: 100 vph applies as the lower threshold for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold for a minor-street approach with one lane

Intersection ID: #10

APPENDIX 3.4: EXISTING (2024) CONDITIONS QUEUING ANALYSIS WORKSHEETS

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Intersection	
Int Delay, s/veh	5.6

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	9	10	28	6	142	1	7	30	3	123	0	22
Future Vol, veh/h	9	10	28	6	142	1	7	30	3	123	0	22
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	96	96	96	96	96	96	96	96	96	96	96	96
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	9	10	29	6	148	1	7	31	3	128	0	23

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	149	0	0	40	0	0	204	205	25	206	219	148
Stage 1	-	-	-	-	-	-	44	44	-	161	161	-
Stage 2	-	-	-	-	-	-	160	161	-	45	58	-
Critical Hdwy	4.1	-	-	4.1	-	-	7.1	6.5	6.2	7.1	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Follow-up Hdwy	2.2	-	-	2.2	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	1445	-	-	1583	-	-	758	695	1057	756	683	904
Stage 1	-	-	-	-	-	-	976	862	-	846	769	-
Stage 2	-	-	-	-	-	-	846	768	-	974	850	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1445	-	-	1583	-	-	731	687	1057	712	675	904
Mov Cap-2 Maneuver	-	-	-	-	-	-	731	687	-	712	675	-
Stage 1	-	-	-	-	-	-	969	857	-	842	765	-
Stage 2	-	-	-	-	-	-	821	765	-	930	845	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	1.44	0.29	10.36	11.15
HCM LOS			B	B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	713	300	-	-	72	-	-	736
HCM Lane V/C Ratio	0.058	0.006	-	-	0.004	-	-	0.205
HCM Control Delay (s/veh)	10.4	7.5	0	-	7.3	0	-	11.2
HCM Lane LOS	B	A	A	-	A	A	-	B
HCM 95th %tile Q(veh)	0.2	0	-	-	0	-	-	0.8

Intersection	
Int Delay, s/veh	2

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	35	1	1	124	1	2
Future Vol, veh/h	35	1	1	124	1	2
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	79	79	79	79	79	79
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	44	1	1	157	1	3

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	85	80	0	0	158	0
Stage 1	80	-	-	-	-	-
Stage 2	5	-	-	-	-	-
Critical Hdwy	6.4	6.2	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	922	986	-	-	1434	-
Stage 1	948	-	-	-	-	-
Stage 2	1023	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	921	986	-	-	1434	-
Mov Cap-2 Maneuver	921	-	-	-	-	-
Stage 1	948	-	-	-	-	-
Stage 2	1022	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v	9.11	0	2.5
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	922	600	-
HCM Lane V/C Ratio	-	-	0.049	0.001	-
HCM Control Delay (s/veh)	-	-	9.1	7.5	0
HCM Lane LOS	-	-	A	A	A
HCM 95th %tile Q(veh)	-	-	0.2	0	-

Intersection	
Int Delay, s/veh	9.7

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	5	16	45	8	213	1	4	25	10	198	0	19
Future Vol, veh/h	5	16	45	8	213	1	4	25	10	198	0	19
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	68	68	68	68	68	68	68	68	68	68	68	68
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	7	24	66	12	313	1	6	37	15	291	0	28

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	315	0	0	90	0	0	408	410	57	394	442	314
Stage 1	-	-	-	-	-	-	71	71	-	337	337	-
Stage 2	-	-	-	-	-	-	337	338	-	57	104	-
Critical Hdwy	4.1	-	-	4.1	-	-	7.1	6.5	6.2	7.1	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Follow-up Hdwy	2.2	-	-	2.2	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	1257	-	-	1518	-	-	557	535	1015	569	513	731
Stage 1	-	-	-	-	-	-	943	839	-	681	644	-
Stage 2	-	-	-	-	-	-	682	644	-	960	813	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1257	-	-	1518	-	-	528	526	1015	514	505	731
Mov Cap-2 Maneuver	-	-	-	-	-	-	528	526	-	514	505	-
Stage 1	-	-	-	-	-	-	938	834	-	675	638	-
Stage 2	-	-	-	-	-	-	649	638	-	899	808	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	0.6	0.27	11.62	21.7
HCM LOS			B	C

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	601	119	-	-	65	-	-	528
HCM Lane V/C Ratio	0.095	0.006	-	-	0.008	-	-	0.605
HCM Control Delay (s/veh)	11.6	7.9	0	-	7.4	0	-	21.7
HCM Lane LOS	B	A	A	-	A	A	-	C
HCM 95th %tile Q(veh)	0.3	0	-	-	0	-	-	4

Intersection	
Int Delay, s/veh	1.8

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	45	1	1	210	1	1
Future Vol, veh/h	45	1	1	210	1	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	56	56	56	56	56	56
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	80	2	2	375	2	2

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	195	189	0	0	377	0
Stage 1	189	-	-	-	-	-
Stage 2	5	-	-	-	-	-
Critical Hdwy	6.4	6.2	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	799	858	-	-	1193	-
Stage 1	848	-	-	-	-	-
Stage 2	1023	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	798	858	-	-	1193	-
Mov Cap-2 Maneuver	798	-	-	-	-	-
Stage 1	848	-	-	-	-	-
Stage 2	1021	-	-	-	-	-

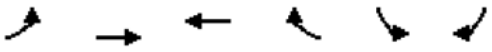
Approach	WB	NB	SB
HCM Control Delay, s/v	10.02	0	4.01
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	799	900	-
HCM Lane V/C Ratio	-	-	0.103	0.001	-
HCM Control Delay (s/veh)	-	-	10	8	0
HCM Lane LOS	-	-	B	A	A
HCM 95th %tile Q(veh)	-	-	0.3	0	-

APPENDIX 5.1: OPENING YEAR CUMULATIVE (2027) WITHOUT PROJECT CONDITIONS INTERSECTION OPERATIONS ANALYSIS WORKSHEETS

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1: Corwin Rd. & Dakota Av.



Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (vph)	10	15	7	2	2	6
Future Volume (vph)	10	15	7	2	2	6
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Link Speed (mph)		55	55		45	
Link Distance (ft)		3330	1344		1769	
Travel Time (s)		41.3	16.7		26.8	
Peak Hour Factor	0.64	0.64	0.64	0.64	0.64	0.64
Shared Lane Traffic (%)						
Sign Control		Free	Free		Stop	

Intersection Summary	
Area Type:	Other

Control Type: Unsignalized

Intersection	
Int Delay, s/veh	3.3

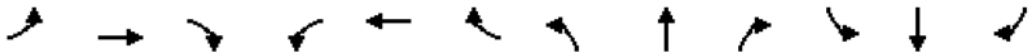
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	10	15	7	2	2	6
Future Vol, veh/h	10	15	7	2	2	6
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	64	64	64	64	64	64
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	16	23	11	3	3	9

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	14	0	-	0	67	13
Stage 1	-	-	-	-	13	-
Stage 2	-	-	-	-	55	-
Critical Hdwy	4.1	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.2	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	1617	-	-	-	943	1074
Stage 1	-	-	-	-	1016	-
Stage 2	-	-	-	-	973	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1617	-	-	-	934	1074
Mov Cap-2 Maneuver	-	-	-	-	934	-
Stage 1	-	-	-	-	1006	-
Stage 2	-	-	-	-	973	-

Approach	EB	WB	SB
HCM Control Delay, s/v	2.9	0	8.52
HCM LOS			A

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	720	-	-	-	1035
HCM Lane V/C Ratio	0.01	-	-	-	0.012
HCM Control Delay (s/veh)	7.2	0	-	-	8.5
HCM Lane LOS	A	A	-	-	A
HCM 95th %tile Q(veh)	0	-	-	-	0

2: Ramona Rd. & Fresno Rd.



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	0	0	0	1	0	0	0	1	1	0	0	0
Future Volume (vph)	0	0	0	1	0	0	0	1	1	0	0	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Link Speed (mph)		45			45			45			45	
Link Distance (ft)		1354			321			1023			285	
Travel Time (s)		20.5			4.9			15.5			4.3	
Peak Hour Factor	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Shared Lane Traffic (%)												
Sign Control		Stop			Stop			Free			Free	

Intersection Summary	
Area Type:	Other

Control Type: Unsignalized

Intersection	
Int Delay, s/veh	2.1

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	0	0	0	1	0	0	0	1	1	0	0	0
Future Vol, veh/h	0	0	0	1	0	0	0	1	1	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	50	50	50	50	50	50	50	50	50	50	50	50
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	0	0	2	0	0	0	2	2	0	0	0

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	4	6	2	5	5	3	2	0	0	4	0	0
Stage 1	2	2	-	3	3	-	-	-	-	-	-	-
Stage 2	2	4	-	2	2	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	1022	893	1088	1021	894	1087	1634	-	-	1631	-	-
Stage 1	1026	898	-	1025	897	-	-	-	-	-	-	-
Stage 2	1026	897	-	1026	898	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	1022	893	1088	1021	894	1087	1634	-	-	1631	-	-
Mov Cap-2 Maneuver	1022	893	-	1021	894	-	-	-	-	-	-	-
Stage 1	1026	898	-	1025	897	-	-	-	-	-	-	-
Stage 2	1026	897	-	1026	898	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	0	8.53	0	0
HCM LOS	A	A		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1634	-	-	-	1021	1631	-	-
HCM Lane V/C Ratio	-	-	-	-	0.002	-	-	-
HCM Control Delay (s/veh)	0	-	-	0	8.5	0	-	-
HCM Lane LOS	A	-	-	A	A	A	-	-
HCM 95th %tile Q(veh)	0	-	-	-	0	0	-	-



Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Volume (vph)	4	5	2	1	4	4
Future Volume (vph)	4	5	2	1	4	4
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Link Speed (mph)	30			55	55	
Link Distance (ft)	2664			475	6664	
Travel Time (s)	60.5			5.9	82.6	
Peak Hour Factor	0.71	0.71	0.71	0.71	0.71	0.71
Shared Lane Traffic (%)						
Sign Control	Stop			Free	Free	

Intersection Summary	
Area Type:	Other

Control Type: Unsignalized

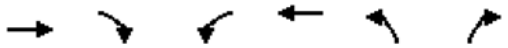
Intersection	
Int Delay, s/veh	4.5

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	4	5	2	1	4	4
Future Vol, veh/h	4	5	2	1	4	4
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	71	71	71	71	71	71
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	6	7	3	1	6	6

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	15	8	11	0	-	0
Stage 1	8	-	-	-	-	-
Stage 2	7	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	1008	1079	1621	-	-	-
Stage 1	1020	-	-	-	-	-
Stage 2	1021	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	1006	1079	1621	-	-	-
Mov Cap-2 Maneuver	1006	-	-	-	-	-
Stage 1	1018	-	-	-	-	-
Stage 2	1021	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s/v	8.49	4.82	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1200	-	1046	-	-
HCM Lane V/C Ratio	0.002	-	0.012	-	-
HCM Control Delay (s/veh)	7.2	0	8.5	-	-
HCM Lane LOS	A	A	A	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-



Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	1128	234	58	391	93	11
Future Volume (vph)	1128	234	58	391	93	11
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (ft)		0	0		0	100
Storage Lanes		0	0		1	0
Taper Length (ft)			90		90	
Link Speed (mph)	45			45	55	
Link Distance (ft)	5327			1835	6664	
Travel Time (s)	80.7			27.8	82.6	
Peak Hour Factor	0.76	0.76	0.76	0.76	0.76	0.76
Shared Lane Traffic (%)						
Sign Control	Free			Free	Stop	

Intersection Summary	
Area Type:	Other
Control Type: Unsignalized	

Intersection	
Int Delay, s/veh	93

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	1128	234	58	391	93	11
Future Vol, veh/h	1128	234	58	391	93	11
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	76	76	76	76	76	76
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	1484	308	76	514	122	14

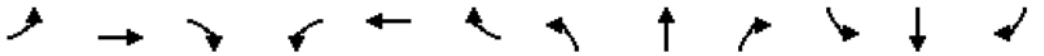
Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	1792	0	2305	1638
Stage 1	-	-	-	-	1638	-
Stage 2	-	-	-	-	667	-
Critical Hdwy	-	-	4.1	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	-	-	2.2	-	3.5	3.3
Pot Cap-1 Maneuver	-	-	350	-	~ 43	125
Stage 1	-	-	-	-	176	-
Stage 2	-	-	-	-	514	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	350	-	~ 30	125
Mov Cap-2 Maneuver	-	-	-	-	~ 30	-
Stage 1	-	-	-	-	176	-
Stage 2	-	-	-	-	357	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	2.34	$ 1703.09
HCM LOS			F

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	32	-	-	233	-
HCM Lane V/C Ratio	4.23	-	-	0.218	-
HCM Control Delay (s/veh)	$ 1703.1	-	-	18.1	0
HCM Lane LOS	F	-	-	C	A
HCM 95th %tile Q(veh)	16.2	-	-	0.8	-

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon

5: Dale Evans Pkwy. & Johnson Rd.



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	17	1201	100	91	442	176	50	149	282	406	85	7
Future Volume (vph)	17	1201	100	91	442	176	50	149	282	406	85	7
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0		0	0		165	100		0	325		0
Storage Lanes	0		0	0		1	1		1	1		0
Taper Length (ft)	90			90			90			90		
Link Speed (mph)		45			45			55			55	
Link Distance (ft)		7616			5327			4005			1074	
Travel Time (s)		115.4			80.7			49.6			13.3	
Peak Hour Factor	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81
Shared Lane Traffic (%)												
Sign Control		Stop			Stop			Stop			Stop	

Intersection Summary	
Area Type:	Other
Control Type: Unsignalized	

Intersection	
Intersection Delay, s/veh	985.4
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	17	1201	100	91	442	176	50	149	282	406	85	7
Future Vol, veh/h	17	1201	100	91	442	176	50	149	282	406	85	7
Peak Hour Factor	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	21	1483	123	112	546	217	62	184	348	501	105	9
Number of Lanes	0	1	0	0	1	1	1	1	1	1	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	2	1	2	3
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	2	3	1	2
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	3	2	2	1
HCM Control Delay, s/veh	1885.2	403.7	94.6	292.3
HCM LOS	F	F	F	F

Lane	NBLn1	NBLn2	NBLn3	EBLn1	WBLn1	WBLn2	SBLn1	SBLn2
Vol Left, %	100%	0%	0%	1%	17%	0%	100%	0%
Vol Thru, %	0%	100%	0%	91%	83%	0%	0%	92%
Vol Right, %	0%	0%	100%	8%	0%	100%	0%	8%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	50	149	282	1318	533	176	406	92
LT Vol	50	0	0	17	91	0	406	0
Through Vol	0	149	0	1201	442	0	0	85
RT Vol	0	0	282	100	0	176	0	7
Lane Flow Rate	62	184	348	1627	658	217	501	114
Geometry Grp	6	6	6	6	6	6	6	6
Degree of Util (X)	0.194	0.554	0.981	5.113	2.006	0.615	1.613	0.348
Departure Headway (Hd)	25.59	25.017	24.214	14.204	22.581	21.656	22.265	21.601
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cap	141	147	153	277	171	169	170	168
Service Time	23.29	22.717	21.914	11.904	20.281	19.356	19.965	19.301
HCM Lane V/C Ratio	0.44	1.252	2.275	5.874	3.848	1.284	2.947	0.679
HCM Control Delay, s/veh	34.3	55.1	126.1	1885.2	519.2	53.9	350.5	35.4
HCM Lane LOS	D	F	F	F	F	F	F	E
HCM 95th-tile Q	0.7	2.8	7.2	133.9	24.9	3.4	17.9	1.4



Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	497	1	30	1317	1	55
Future Volume (vph)	497	1	30	1317	1	55
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Link Speed (mph)	45		45			45
Link Distance (ft)	7616		549			661
Travel Time (s)	115.4		8.3			10.0
Peak Hour Factor	0.86	0.86	0.86	0.86	0.86	0.86
Shared Lane Traffic (%)						
Sign Control	Stop		Free			Free

Intersection Summary	
Area Type:	Other

Control Type: Unsignalized

Intersection	
Int Delay, s/veh	102.5

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	497	1	30	1317	1	55
Future Vol, veh/h	497	1	30	1317	1	55
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	86	86	86	86	86	86
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	578	1	35	1531	1	64

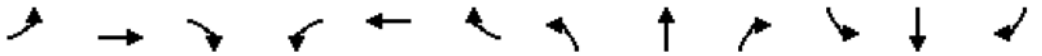
Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	867	801	0	0	1566	0
Stage 1	801	-	-	-	-	-
Stage 2	66	-	-	-	-	-
Critical Hdwy	6.4	6.2	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	~ 326	388	-	-	427	-
Stage 1	~ 445	-	-	-	-	-
Stage 2	962	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	~ 325	388	-	-	427	-
Mov Cap-2 Maneuver	~ 325	-	-	-	-	-
Stage 1	~ 445	-	-	-	-	-
Stage 2	959	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v	$ 391.13	0	0.24
HCM LOS	F		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	325	32	-
HCM Lane V/C Ratio	-	-	1.781	0.003	-
HCM Control Delay (s/veh)	-	-	$ 391.1	13.5	0
HCM Lane LOS	-	-	F	B	A
HCM 95th %tile Q(veh)	-	-	37.5	0	-

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon

7: Frontage Rd./I-15 NB Ramps & Stoddard Wells Rd.



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	10	87	85	25	614	56	7	48	45	1354	0	23
Future Volume (vph)	10	87	85	25	614	56	7	48	45	1354	0	23
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Link Speed (mph)		45			45			30			30	
Link Distance (ft)		889			1144			979			330	
Travel Time (s)		13.5			17.3			22.3			7.5	
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Shared Lane Traffic (%)												
Sign Control		Free			Free			Stop			Stop	

Intersection Summary	
Area Type:	Other

Control Type: Unsignalized

Intersection	
Int Delay, s/veh	1562

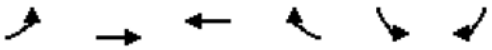
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	10	87	85	25	614	56	7	48	45	1354	0	23
Future Vol, veh/h	10	87	85	25	614	56	7	48	45	1354	0	23
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	96	96	96	96	96	96	96	96	96	96	96	96
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	10	91	89	26	640	58	7	50	47	1410	0	24

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	698	0	0	179	0	0	847	906	135	857	921	669
Stage 1	-	-	-	-	-	-	156	156	-	721	721	-
Stage 2	-	-	-	-	-	-	692	750	-	136	200	-
Critical Hdwy	4.1	-	-	4.1	-	-	7.1	6.5	6.2	7.1	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Follow-up Hdwy	2.2	-	-	2.2	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	908	-	-	1409	-	-	284	278	919	~ 280	273	461
Stage 1	-	-	-	-	-	-	851	773	-	~ 422	435	-
Stage 2	-	-	-	-	-	-	438	422	-	~ 872	739	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	908	-	-	1409	-	-	258	266	919	~ 208	261	461
Mov Cap-2 Maneuver	-	-	-	-	-	-	258	266	-	~ 208	261	-
Stage 1	-	-	-	-	-	-	840	763	-	~ 409	422	-
Stage 2	-	-	-	-	-	-	402	409	-	~ 763	730	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	0.5	0.27	17.56	$ 2668.72
HCM LOS			C	F

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	390	90	-	-	64	-	-	210
HCM Lane V/C Ratio	0.267	0.011	-	-	0.018	-	-	6.837
HCM Control Delay (s/veh)	17.6	9	0	-	7.6	0	-	$ 2668.7
HCM Lane LOS	C	A	A	-	A	A	-	F
HCM 95th %tile Q(veh)	1.1	0	-	-	0.1	-	-	156.5

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon



Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (vph)	1	36	58	587	144	3
Future Volume (vph)	1	36	58	587	144	3
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0			0	0	25
Storage Lanes	0			0	1	0
Taper Length (ft)	90				90	
Link Speed (mph)		45	45		45	
Link Distance (ft)		1552	889		1482	
Travel Time (s)		23.5	13.5		22.5	
Peak Hour Factor	0.84	0.84	0.84	0.84	0.84	0.84
Shared Lane Traffic (%)						
Sign Control		Free	Free		Stop	

Intersection Summary	
Area Type:	Other
Control Type: Unsignalized	

Intersection	
Int Delay, s/veh	2.5

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	1	36	58	587	144	3
Future Vol, veh/h	1	36	58	587	144	3
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	Yield	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	84	84	84	84	84	84
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	1	43	69	699	171	4

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	69	0	-	0	464	418
Stage 1	-	-	-	-	418	-
Stage 2	-	-	-	-	45	-
Critical Hdwy	4.1	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.2	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	1545	-	-	-	560	639
Stage 1	-	-	-	-	668	-
Stage 2	-	-	-	-	982	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1545	-	-	-	560	639
Mov Cap-2 Maneuver	-	-	-	-	560	-
Stage 1	-	-	-	-	668	-
Stage 2	-	-	-	-	982	-

Approach	EB	WB	SB
HCM Control Delay, s/v	0.2	0	14.29
HCM LOS			B

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	49	-	-	-	561
HCM Lane V/C Ratio	0.001	-	-	-	0.312
HCM Control Delay (s/veh)	7.3	0	-	-	14.3
HCM Lane LOS	A	A	-	-	B
HCM 95th %tile Q(veh)	0	-	-	-	1.3



Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	145	1	1	587	1	2
Future Volume (vph)	145	1	1	587	1	2
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Link Speed (mph)	30		45			45
Link Distance (ft)	263		1482			525
Travel Time (s)	6.0		22.5			8.0
Peak Hour Factor	0.79	0.79	0.79	0.79	0.79	0.79
Shared Lane Traffic (%)						
Sign Control	Stop		Free			Free

Intersection Summary	
Area Type:	Other

Control Type: Unsignalized

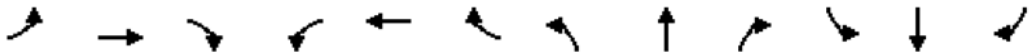
Intersection	
Int Delay, s/veh	2.6

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	145	1	1	587	1	2
Future Vol, veh/h	145	1	1	587	1	2
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	79	79	79	79	79	79
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	184	1	1	743	1	3

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	378	373	0	0	744	0
Stage 1	373	-	-	-	-	-
Stage 2	5	-	-	-	-	-
Critical Hdwy	6.4	6.2	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	628	678	-	-	873	-
Stage 1	701	-	-	-	-	-
Stage 2	1023	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	627	678	-	-	873	-
Mov Cap-2 Maneuver	627	-	-	-	-	-
Stage 1	701	-	-	-	-	-
Stage 2	1022	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v	13.12	0	3.04
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	627	600	-
HCM Lane V/C Ratio	-	-	0.295	0.001	-
HCM Control Delay (s/veh)	-	-	13.1	9.1	0
HCM Lane LOS	-	-	B	A	A
HCM 95th %tile Q(veh)	-	-	1.2	0	-



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	169	12	2	7	1	3	6	345	21	1	109	58
Future Volume (vph)	169	12	2	7	1	3	6	345	21	1	109	58
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		1375			3330			1135			747	
Travel Time (s)		17.0			41.3			14.1			9.3	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Shared Lane Traffic (%)												
Sign Control		Stop			Stop			Stop			Stop	

Intersection Summary	
Area Type:	Other

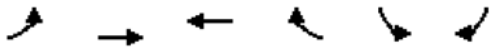
Control Type: Unsignalized

Intersection	
Intersection Delay, s/veh	11.7
Intersection LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	169	12	2	7	1	3	6	345	21	1	109	58
Future Vol, veh/h	169	12	2	7	1	3	6	345	21	1	109	58
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	188	13	2	8	1	3	7	383	23	1	121	64
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	11	8.8	13.1	9.4
HCM LOS	B	A	B	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	2%	92%	64%	1%
Vol Thru, %	93%	7%	9%	65%
Vol Right, %	6%	1%	27%	35%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	372	183	11	168
LT Vol	6	169	7	1
Through Vol	345	12	1	109
RT Vol	21	2	3	58
Lane Flow Rate	413	203	12	187
Geometry Grp	1	1	1	1
Degree of Util (X)	0.538	0.308	0.019	0.248
Departure Headway (Hd)	4.685	5.459	5.713	4.776
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	765	651	630	745
Service Time	2.749	3.554	3.713	2.856
HCM Lane V/C Ratio	0.54	0.312	0.019	0.251
HCM Control Delay, s/veh	13.1	11	8.8	9.4
HCM Lane LOS	B	B	A	A
HCM 95th-tile Q	3.3	1.3	0.1	1



Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (vph)	22	5	20	2	2	25
Future Volume (vph)	22	5	20	2	2	25
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Link Speed (mph)		55	55		45	
Link Distance (ft)		3330	1344		1769	
Travel Time (s)		41.3	16.7		26.8	
Peak Hour Factor	0.69	0.69	0.69	0.69	0.69	0.69
Shared Lane Traffic (%)						
Sign Control		Free	Free		Stop	

Intersection Summary	
Area Type:	Other

Control Type: Unsignalized

Intersection	
Int Delay, s/veh	5.2

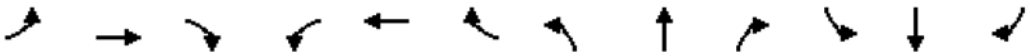
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	22	5	20	2	2	25
Future Vol, veh/h	22	5	20	2	2	25
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	69	69	69	69	69	69
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	32	7	29	3	3	36

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	32	0	-	0	101	30
Stage 1	-	-	-	-	30	-
Stage 2	-	-	-	-	71	-
Critical Hdwy	4.1	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.2	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	1593	-	-	-	902	1050
Stage 1	-	-	-	-	997	-
Stage 2	-	-	-	-	957	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1593	-	-	-	884	1050
Mov Cap-2 Maneuver	-	-	-	-	884	-
Stage 1	-	-	-	-	977	-
Stage 2	-	-	-	-	957	-

Approach	EB	WB	SB
HCM Control Delay, s/v	5.95	0	8.61
HCM LOS			A

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1467	-	-	-	1035
HCM Lane V/C Ratio	0.02	-	-	-	0.038
HCM Control Delay (s/veh)	7.3	0	-	-	8.6
HCM Lane LOS	A	A	-	-	A
HCM 95th %tile Q(veh)	0.1	-	-	-	0.1

2: Ramona Rd. & Fresno Rd.



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	0	0	0	2	0	0	0	1	1	0	0	0
Future Volume (vph)	0	0	0	2	0	0	0	1	1	0	0	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Link Speed (mph)		45			45			45			45	
Link Distance (ft)		1354			321			1023			285	
Travel Time (s)		20.5			4.9			15.5			4.3	
Peak Hour Factor	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Shared Lane Traffic (%)												
Sign Control		Stop			Stop			Free			Free	

Intersection Summary	
Area Type:	Other

Control Type: Unsignalized

Intersection	
Int Delay, s/veh	3.4

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	0	0	0	2	0	0	0	1	1	0	0	0
Future Vol, veh/h	0	0	0	2	0	0	0	1	1	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	50	50	50	50	50	50	50	50	50	50	50	50
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	0	0	4	0	0	0	2	2	0	0	0

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	4	6	2	5	5	3	2	0	0	4	0	0
Stage 1	2	2	-	3	3	-	-	-	-	-	-	-
Stage 2	2	4	-	2	2	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	1022	893	1088	1021	894	1087	1634	-	-	1631	-	-
Stage 1	1026	898	-	1025	897	-	-	-	-	-	-	-
Stage 2	1026	897	-	1026	898	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	1022	893	1088	1021	894	1087	1634	-	-	1631	-	-
Mov Cap-2 Maneuver	1022	893	-	1021	894	-	-	-	-	-	-	-
Stage 1	1026	898	-	1025	897	-	-	-	-	-	-	-
Stage 2	1026	897	-	1026	898	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	0	8.54	0	0
HCM LOS	A	A		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1634	-	-	-	1021	1631	-	-
HCM Lane V/C Ratio	-	-	-	-	0.004	-	-	-
HCM Control Delay (s/veh)	0	-	-	0	8.5	0	-	-
HCM Lane LOS	A	-	-	A	A	A	-	-
HCM 95th %tile Q(veh)	0	-	-	-	0	0	-	-



Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Volume (vph)	21	1	2	1	3	23
Future Volume (vph)	21	1	2	1	3	23
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Link Speed (mph)	30			55	55	
Link Distance (ft)	2664			475	6664	
Travel Time (s)	60.5			5.9	82.6	
Peak Hour Factor	0.73	0.73	0.73	0.73	0.73	0.73
Shared Lane Traffic (%)						
Sign Control	Stop			Free	Free	

Intersection Summary	
Area Type:	Other

Control Type: Unsignalized

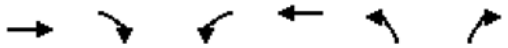
Intersection	
Int Delay, s/veh	4.1

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	21	1	2	1	3	23
Future Vol, veh/h	21	1	2	1	3	23
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	73	73	73	73	73	73
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	29	1	3	1	4	32

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	27	20	36	0	-	0
Stage 1	20	-	-	-	-	-
Stage 2	7	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	994	1064	1588	-	-	-
Stage 1	1008	-	-	-	-	-
Stage 2	1021	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	992	1064	1588	-	-	-
Mov Cap-2 Maneuver	992	-	-	-	-	-
Stage 1	1006	-	-	-	-	-
Stage 2	1021	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s/v	8.73	4.85	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1200	-	995	-	-
HCM Lane V/C Ratio	0.002	-	0.03	-	-
HCM Control Delay (s/veh)	7.3	0	8.7	-	-
HCM Lane LOS	A	A	A	-	-
HCM 95th %tile Q(veh)	0	-	0.1	-	-



Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	689	144	38	1026	282	43
Future Volume (vph)	689	144	38	1026	282	43
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (ft)		0	0		0	100
Storage Lanes		0	0		1	0
Taper Length (ft)			90		90	
Link Speed (mph)	45			45	55	
Link Distance (ft)	5327			1835	6664	
Travel Time (s)	80.7			27.8	82.6	
Peak Hour Factor	0.76	0.76	0.76	0.76	0.76	0.76
Shared Lane Traffic (%)						
Sign Control	Free			Free	Stop	

Intersection Summary	
Area Type:	Other
Control Type: Unsignalized	

Intersection	
Int Delay, s/veh	1011.5

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	689	144	38	1026	282	43
Future Vol, veh/h	689	144	38	1026	282	43
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	76	76	76	76	76	76
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	907	189	50	1350	371	57

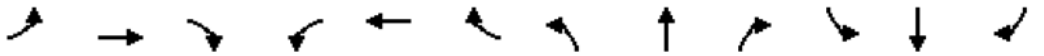
Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	1096	0	2451	1001
Stage 1	-	-	-	-	1001	-
Stage 2	-	-	-	-	1450	-
Critical Hdwy	-	-	4.1	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	-	-	2.2	-	3.5	3.3
Pot Cap-1 Maneuver	-	-	644	-	~ 35	297
Stage 1	-	-	-	-	~ 358	-
Stage 2	-	-	-	-	~ 218	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	644	-	~ 24	297
Mov Cap-2 Maneuver	-	-	-	-	~ 24	-
Stage 1	-	-	-	-	~ 358	-
Stage 2	-	-	-	-	~ 150	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	0.39	$ 6913.96
HCM LOS			F

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	27	-	-	64	-
HCM Lane V/C Ratio	15.75	-	-	0.078	-
HCM Control Delay (s/veh)	$ 6914	-	-	11.1	0
HCM Lane LOS	F	-	-	B	A
HCM 95th %tile Q(veh)	53.1	-	-	0.3	-

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon

5: Dale Evans Pkwy. & Johnson Rd.



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	9	759	79	313	1257	361	139	101	181	263	220	17
Future Volume (vph)	9	759	79	313	1257	361	139	101	181	263	220	17
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0		0	0		165	100		0	325		0
Storage Lanes	0		0	0		1	1		1	1		0
Taper Length (ft)	90			90			90			90		
Link Speed (mph)		45			45			55			55	
Link Distance (ft)		7616			5327			4005			1074	
Travel Time (s)		115.4			80.7			49.6			13.3	
Peak Hour Factor	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
Shared Lane Traffic (%)												
Sign Control		Stop			Stop			Stop			Stop	

Intersection Summary	
Area Type:	Other
Control Type: Unsignalized	

Intersection	
Intersection Delay, s/veh	1309.2
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	9	759	79	313	1257	361	139	101	181	263	220	17
Future Vol, veh/h	9	759	79	313	1257	361	139	101	181	263	220	17
Peak Hour Factor	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	11	949	99	391	1571	451	174	126	226	329	275	21
Number of Lanes	0	1	0	0	1	1	1	1	1	1	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	2	1	2	3
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	2	3	1	2
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	3	2	2	1
HCM Control Delay, s/veh	1190.2	1957.1	6.8	105.3
HCM LOS	F	F	A	F

Lane	NBLn1	NBLn2	NBLn3	EBLn1	WBLn1	WBLn2	SBLn1	SBLn2
Vol Left, %	100%	0%	0%	1%	20%	0%	100%	0%
Vol Thru, %	0%	100%	0%	90%	80%	0%	0%	93%
Vol Right, %	0%	0%	100%	9%	0%	100%	0%	7%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	139	101	181	847	1570	361	263	237
LT Vol	139	0	0	9	313	0	263	0
Through Vol	0	101	0	759	1257	0	0	220
RT Vol	0	0	181	79	0	361	0	17
Lane Flow Rate	174	126	226	1059	1963	451	329	296
Geometry Grp	6	6	6	6	6	6	6	6
Degree of Util (X)	0.572	0.398	0.67	3.554	6.154	1.315	1.078	0.926
Departure Headway (Hd)	2.453	1.897	1.12	16.164	16.876	15.979	15.871	15.248
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cap	1470	1900	3217	244	236	230	230	240
Service Time	0.153	-0.403	-1.18	13.864	14.576	13.679	13.571	12.948
HCM Lane V/C Ratio	0.118	0.066	0.07	4.34	8.318	1.961	1.43	1.233
HCM Control Delay, s/veh	8.4	5.8	6.1	1190.2	2358.9	209.9	125.6	82.7
HCM Lane LOS	A	A	A	F	F	F	F	F
HCM 95th-tile Q	3.8	2	5.8	75.1	140.9	15.9	10.7	8

6: Stoddard Wells Rd. & Johnson Rd.



Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	1410	3	13	845	2	29
Future Volume (vph)	1410	3	13	845	2	29
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Link Speed (mph)	45		45			45
Link Distance (ft)	7616		549			661
Travel Time (s)	115.4		8.3			10.0
Peak Hour Factor	0.67	0.67	0.67	0.67	0.67	0.67
Shared Lane Traffic (%)						
Sign Control	Stop		Free			Free

Intersection Summary	
Area Type:	Other

Control Type: Unsignalized

Intersection	
Int Delay, s/veh	1171.1

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	1410	3	13	845	2	29
Future Vol, veh/h	1410	3	13	845	2	29
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	67	67	67	67	67	67
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	2104	4	19	1261	3	43

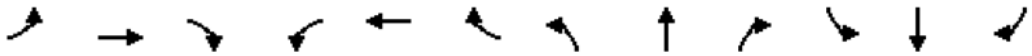
Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	699	650	0	0	1281	0
Stage 1	650	-	-	-	-	-
Stage 2	49	-	-	-	-	-
Critical Hdwy	6.4	6.2	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	~ 409	473	-	-	549	-
Stage 1	~ 523	-	-	-	-	-
Stage 2	~ 978	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	~ 407	473	-	-	549	-
Mov Cap-2 Maneuver	~ 407	-	-	-	-	-
Stage 1	~ 523	-	-	-	-	-
Stage 2	~ 973	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v	$ 1907.84	0	0.75
HCM LOS	F		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	407	116	-
HCM Lane V/C Ratio	-	-	5.185	0.005	-
HCM Control Delay (s/veh)	-	-	$ 1907.8	11.6	0
HCM Lane LOS	-	-	F	B	A
HCM 95th %tile Q(veh)	-	-	216.4	0	-

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon

7: Frontage Rd./I-15 NB Ramps & Stoddard Wells Rd.



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	5	93	69	49	1484	61	4	79	39	889	0	20
Future Volume (vph)	5	93	69	49	1484	61	4	79	39	889	0	20
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Link Speed (mph)		45			45			30			30	
Link Distance (ft)		889			1144			979			330	
Travel Time (s)		13.5			17.3			22.3			7.5	
Peak Hour Factor	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68
Shared Lane Traffic (%)												
Sign Control		Free			Free			Stop			Stop	

Intersection Summary	
Area Type:	Other

Control Type: Unsignalized

Intersection	
Int Delay, s/veh	12514

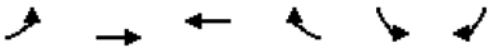
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	5	93	69	49	1484	61	4	79	39	889	0	20
Future Vol, veh/h	5	93	69	49	1484	61	4	79	39	889	0	20
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	68	68	68	68	68	68	68	68	68	68	68	68
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	7	137	101	72	2182	90	6	116	57	1307	0	29

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	2272	0	0	238	0	0	2529	2618	188	2581	2624	2227
Stage 1	-	-	-	-	-	-	202	202	-	2371	2371	-
Stage 2	-	-	-	-	-	-	2326	2416	-	210	253	-
Critical Hdwy	4.1	-	-	4.1	-	-	7.1	6.5	6.2	7.1	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Follow-up Hdwy	2.2	-	-	2.2	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	228	-	-	1341	-	-	19	~ 25	860	~ 17	24	55
Stage 1	-	-	-	-	-	-	804	738	-	~ 47	68	-
Stage 2	-	-	-	-	-	-	50	~ 65	-	~ 797	701	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	228	-	-	1341	-	-	8	~ 24	860	~ 16	23	55
Mov Cap-2 Maneuver	-	-	-	-	-	-	8	~ 24	-	~ 16	23	-
Stage 1	-	-	-	-	-	-	774	710	-	~ 47	68	-
Stage 2	-	-	-	-	-	-	24	~ 65	-	~ 599	675	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	0.64	0.24	$ 2358.55	$ 38119.68
HCM LOS			F	F

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	32	50	-	-	~ 55	-	-	16
HCM Lane V/C Ratio	5.687	0.032	-	-	0.054	-	-	84.683
HCM Control Delay (s/veh)	$ 2358.6	21.3	0	-	7.8	0	-	$ 38119.7
HCM Lane LOS	F	C	A	-	A	A	-	F
HCM 95th %tile Q(veh)	21.6	0.1	-	-	0.2	-	-	168.1

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon



Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (vph)	6	36	54	1455	130	2
Future Volume (vph)	6	36	54	1455	130	2
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0			0	0	25
Storage Lanes	0			0	1	0
Taper Length (ft)	90				90	
Link Speed (mph)		45	45		45	
Link Distance (ft)		1552	889		1482	
Travel Time (s)		23.5	13.5		22.5	
Peak Hour Factor	0.58	0.58	0.58	0.58	0.58	0.58
Shared Lane Traffic (%)						
Sign Control		Free	Free		Stop	

Intersection Summary	
Area Type:	Other
Control Type: Unsignalized	

Intersection	
Int Delay, s/veh	25.3

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	6	36	54	1455	130	2
Future Vol, veh/h	6	36	54	1455	130	2
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	Yield	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	58	58	58	58	58	58
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	10	62	93	2509	224	3

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	93	0	-	0	1430	1347
Stage 1	-	-	-	-	1347	-
Stage 2	-	-	-	-	83	-
Critical Hdwy	4.1	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.2	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	1514	-	-	-	~ 150	187
Stage 1	-	-	-	-	245	-
Stage 2	-	-	-	-	946	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1514	-	-	-	~ 149	187
Mov Cap-2 Maneuver	-	-	-	-	~ 149	-
Stage 1	-	-	-	-	243	-
Stage 2	-	-	-	-	946	-

Approach	EB	WB	SB
HCM Control Delay, s/v	1.06	0	$ 322.07
HCM LOS			F

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	257	-	-	-	149
HCM Lane V/C Ratio	0.007	-	-	-	1.525
HCM Control Delay (s/veh)	7.4	0	-	-	$ 322.1
HCM Lane LOS	A	A	-	-	F
HCM 95th %tile Q(veh)	0	-	-	-	15.4

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon



Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	132	1	1	1460	1	1
Future Volume (vph)	132	1	1	1460	1	1
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Link Speed (mph)	30		45			45
Link Distance (ft)	263		1482			525
Travel Time (s)	6.0		22.5			8.0
Peak Hour Factor	0.56	0.56	0.56	0.56	0.56	0.56
Shared Lane Traffic (%)						
Sign Control	Stop		Free			Free

Intersection Summary	
Area Type:	Other

Control Type: Unsignalized

Intersection	
Int Delay, s/veh	20.3

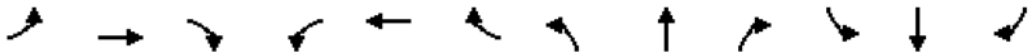
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	132	1	1	1460	1	1
Future Vol, veh/h	132	1	1	1460	1	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	56	56	56	56	56	56
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	236	2	2	2607	2	2

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	1311	1305	0	0	2609	0
Stage 1	1305	-	-	-	-	-
Stage 2	5	-	-	-	-	-
Critical Hdwy	6.4	6.2	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	~ 177	198	-	-	168	-
Stage 1	256	-	-	-	-	-
Stage 2	1023	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	~ 175	198	-	-	168	-
Mov Cap-2 Maneuver	~ 175	-	-	-	-	-
Stage 1	256	-	-	-	-	-
Stage 2	1012	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/veh	242.95	0	13.35
HCM LOS	F		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	175	168	-
HCM Lane V/C Ratio	-	-	1.355	0.011	-
HCM Control Delay (s/veh)	-	-	242.9	26.7	0
HCM Lane LOS	-	-	F	D	A
HCM 95th %tile Q(veh)	-	-	14.1	0	-

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	92	6	2	29	17	2	3	212	17	4	418	197
Future Volume (vph)	92	6	2	29	17	2	3	212	17	4	418	197
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		1375			3330			1135			747	
Travel Time (s)		17.0			41.3			14.1			9.3	
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Shared Lane Traffic (%)												
Sign Control		Stop			Stop			Stop			Stop	

Intersection Summary	
Area Type:	Other

Control Type: Unsignalized

Intersection	
Intersection Delay, s/veh	21.3
Intersection LOS	C

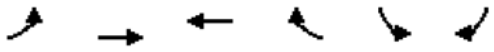
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	92	6	2	29	17	2	3	212	17	4	418	197
Future Vol, veh/h	92	6	2	29	17	2	3	212	17	4	418	197
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	99	6	2	31	18	2	3	228	18	4	449	212
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	10.9	10.1	11.1	27.7
HCM LOS	B	B	B	D

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	1%	92%	60%	1%
Vol Thru, %	91%	6%	35%	68%
Vol Right, %	7%	2%	4%	32%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	232	100	48	619
LT Vol	3	92	29	4
Through Vol	212	6	17	418
RT Vol	17	2	2	197
Lane Flow Rate	249	108	52	666
Geometry Grp	1	1	1	1
Degree of Util (X)	0.36	0.189	0.092	0.85
Departure Headway (Hd)	5.188	6.337	6.416	4.597
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	694	566	557	792
Service Time	3.223	4.388	4.471	2.597
HCM Lane V/C Ratio	0.359	0.191	0.093	0.841
HCM Control Delay, s/veh	11.1	10.9	10.1	27.7
HCM Lane LOS	B	B	B	D
HCM 95th-tile Q	1.6	0.7	0.3	10.1

APPENDIX 5.2: OPENING YEAR CUMULATIVE (2027) WITH PROJECT CONDITIONS INTERSECTION OPERATIONS ANALYSIS WORKSHEETS

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Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (vph)	45	36	13	1	1	17
Future Volume (vph)	45	36	13	1	1	17
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Link Speed (mph)		55	55		45	
Link Distance (ft)		3330	1344		1769	
Travel Time (s)		41.3	16.7		26.8	
Peak Hour Factor	0.64	0.64	0.64	0.64	0.64	0.64
Shared Lane Traffic (%)						
Sign Control		Free	Free		Stop	

Intersection Summary	
Area Type:	Other

Control Type: Unsignalized

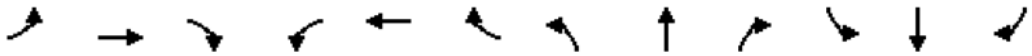
Intersection	
Int Delay, s/veh	4.3

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	45	36	13	1	1	17
Future Vol, veh/h	45	36	13	1	1	17
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	64	64	64	64	64	64
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	70	56	20	2	2	27

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	22	0	-	0	218	21
Stage 1	-	-	-	-	21	-
Stage 2	-	-	-	-	197	-
Critical Hdwy	4.1	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.2	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	1607	-	-	-	775	1062
Stage 1	-	-	-	-	1007	-
Stage 2	-	-	-	-	841	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1607	-	-	-	740	1062
Mov Cap-2 Maneuver	-	-	-	-	740	-
Stage 1	-	-	-	-	961	-
Stage 2	-	-	-	-	841	-

Approach	EB	WB	SB
HCM Control Delay, s/v	4.08	0	8.57
HCM LOS			A

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1000	-	-	-	1037
HCM Lane V/C Ratio	0.044	-	-	-	0.027
HCM Control Delay (s/veh)	7.3	0	-	-	8.6
HCM Lane LOS	A	A	-	-	A
HCM 95th %tile Q(veh)	0.1	-	-	-	0.1



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	1	1	1	1	1	1	1	21	1	1	6	1
Future Volume (vph)	1	1	1	1	1	1	1	21	1	1	6	1
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Link Speed (mph)		45			45			45			45	
Link Distance (ft)		1354			321			1023			285	
Travel Time (s)		20.5			4.9			15.5			4.3	
Peak Hour Factor	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Shared Lane Traffic (%)												
Sign Control		Stop			Stop			Free			Free	

Intersection Summary	
Area Type:	Other

Control Type: Unsignalized

Intersection	
Int Delay, s/veh	1.8

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	1	1	1	1	1	1	1	21	1	1	6	1
Future Vol, veh/h	1	1	1	1	1	1	1	21	1	1	6	1
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	50	50	50	50	50	50	50	50	50	50	50	50
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	2	2	2	2	2	2	2	42	2	2	12	2

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	64	65	13	64	65	43	14	0	0	44	0	0
Stage 1	17	17	-	47	47	-	-	-	-	-	-	-
Stage 2	47	48	-	17	18	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	935	830	1073	935	830	1033	1617	-	-	1577	-	-
Stage 1	1008	885	-	972	860	-	-	-	-	-	-	-
Stage 2	972	859	-	1008	884	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	929	827	1073	929	827	1033	1617	-	-	1577	-	-
Mov Cap-2 Maneuver	929	827	-	929	827	-	-	-	-	-	-	-
Stage 1	1006	884	-	970	859	-	-	-	-	-	-	-
Stage 2	966	858	-	1002	883	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	8.89	8.93	0.31	0.91
HCM LOS	A	A		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	78	-	-	932	922	219	-	-
HCM Lane V/C Ratio	0.001	-	-	0.006	0.007	0.001	-	-
HCM Control Delay (s/veh)	7.2	0	-	8.9	8.9	7.3	0	-
HCM Lane LOS	A	A	-	A	A	A	A	-
HCM 95th %tile Q(veh)	0	-	-	0	0	0	-	-



Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Volume (vph)	16	5	2	1	4	43
Future Volume (vph)	16	5	2	1	4	43
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Link Speed (mph)	30			55	55	
Link Distance (ft)	2664			475	6664	
Travel Time (s)	60.5			5.9	82.6	
Peak Hour Factor	0.71	0.71	0.71	0.71	0.71	0.71
Shared Lane Traffic (%)						
Sign Control	Stop			Free	Free	

Intersection Summary	
Area Type:	Other

Control Type: Unsignalized

Intersection	
Int Delay, s/veh	2.8

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	16	5	2	1	4	43
Future Vol, veh/h	16	5	2	1	4	43
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	71	71	71	71	71	71
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	23	7	3	1	6	61

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	43	36	66	0	-	0
Stage 1	36	-	-	-	-	-
Stage 2	7	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	973	1042	1548	-	-	-
Stage 1	992	-	-	-	-	-
Stage 2	1021	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	971	1042	1548	-	-	-
Mov Cap-2 Maneuver	971	-	-	-	-	-
Stage 1	990	-	-	-	-	-
Stage 2	1021	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s/v	8.76	4.89	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1200	-	987	-	-
HCM Lane V/C Ratio	0.002	-	0.03	-	-
HCM Control Delay (s/veh)	7.3	0	8.8	-	-
HCM Lane LOS	A	A	A	-	-
HCM 95th %tile Q(veh)	0	-	0.1	-	-



Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	1128	265	65	391	103	13
Future Volume (vph)	1128	265	65	391	103	13
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (ft)		0	0		0	100
Storage Lanes		0	0		1	0
Taper Length (ft)			90		90	
Link Speed (mph)	45			45	55	
Link Distance (ft)	5327			1835	6664	
Travel Time (s)	80.7			27.8	82.6	
Peak Hour Factor	0.76	0.76	0.76	0.76	0.76	0.76
Shared Lane Traffic (%)						
Sign Control	Free			Free	Stop	

Intersection Summary	
Area Type:	Other
Control Type: Unsignalized	

Intersection	
Int Delay, s/veh	132

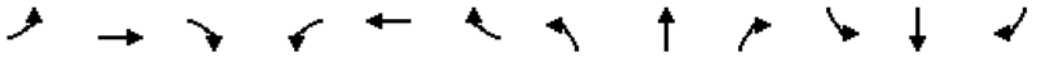
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	1128	265	65	391	103	13
Future Vol, veh/h	1128	265	65	391	103	13
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	76	76	76	76	76	76
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	1484	349	86	514	136	17

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	1833	0	2344	1659
Stage 1	-	-	-	-	1659	-
Stage 2	-	-	-	-	686	-
Critical Hdwy	-	-	4.1	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	-	-	2.2	-	3.5	3.3
Pot Cap-1 Maneuver	-	-	337	-	~ 40	122
Stage 1	-	-	-	-	172	-
Stage 2	-	-	-	-	504	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	337	-	~ 26	122
Mov Cap-2 Maneuver	-	-	-	-	~ 26	-
Stage 1	-	-	-	-	172	-
Stage 2	-	-	-	-	325	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	2.75	$ 2224.75
HCM LOS			F

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	29	-	-	241	-
HCM Lane V/C Ratio	5.333	-	-	0.254	-
HCM Control Delay (s/veh)	$ 2224.7	-	-	19.3	0
HCM Lane LOS	F	-	-	C	A
HCM 95th %tile Q(veh)	18.6	-	-	1	-

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	17	1232	116	91	452	176	55	151	282	406	93	7
Future Volume (vph)	17	1232	116	91	452	176	55	151	282	406	93	7
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0		0	0		165	100		0	325		0
Storage Lanes	0		0	0		1	1		1	1		0
Taper Length (ft)	90			90			90			90		
Link Speed (mph)		45			45			55			55	
Link Distance (ft)		7616			5327			4005			1074	
Travel Time (s)		115.4			80.7			49.6			13.3	
Peak Hour Factor	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81
Shared Lane Traffic (%)												
Sign Control		Stop			Stop			Stop			Stop	

Intersection Summary	
Area Type:	Other
Control Type: Unsignalized	

Intersection	
Intersection Delay, s/veh	1038.9
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	17	1232	116	91	452	176	55	151	282	406	93	7
Future Vol, veh/h	17	1232	116	91	452	176	55	151	282	406	93	7
Peak Hour Factor	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	21	1521	143	112	558	217	68	186	348	501	115	9
Number of Lanes	0	1	0	0	1	1	1	1	1	1	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	2	1	2	3
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	2	3	1	2
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	3	2	2	1
HCM Control Delay, s/veh	1978.5	421.8	95.5	290.9
HCM LOS	F	F	F	F

Lane	NBLn1	NBLn2	NBLn3	EBLn1	WBLn1	WBLn2	SBLn1	SBLn2
Vol Left, %	100%	0%	0%	1%	17%	0%	100%	0%
Vol Thru, %	0%	100%	0%	90%	83%	0%	0%	93%
Vol Right, %	0%	0%	100%	8%	0%	100%	0%	7%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	55	151	282	1365	543	176	406	100
LT Vol	55	0	0	17	91	0	406	0
Through Vol	0	151	0	1232	452	0	0	93
RT Vol	0	0	282	116	0	176	0	7
Lane Flow Rate	68	186	348	1685	670	217	501	123
Geometry Grp	6	6	6	6	6	6	6	6
Degree of Util (X)	0.214	0.563	0.983	5.32	2.053	0.618	1.617	0.38
Departure Headway (Hd)	25.994	25.419	24.614	14.304	22.965	22.038	22.673	22.012
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cap	139	144	153	270	168	167	165	165
Service Time	23.694	23.119	22.314	12.004	20.665	19.738	20.373	19.712
HCM Lane V/C Ratio	0.489	1.292	2.275	6.241	3.988	1.299	3.036	0.745
HCM Control Delay, s/veh	35.6	56.7	127.9	1978.5	540.7	55	353.3	37.6
HCM Lane LOS	E	F	F	F	F	F	F	E
HCM 95th-tile Q	0.8	2.8	7.2	139.5	25.4	3.4	17.7	1.6

6: Stoddard Wells Rd. & Johnson Rd.



Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	512	1	30	1364	1	55
Future Volume (vph)	512	1	30	1364	1	55
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Link Speed (mph)	45		45			45
Link Distance (ft)	7616		549			661
Travel Time (s)	115.4		8.3			10.0
Peak Hour Factor	0.86	0.86	0.86	0.86	0.86	0.86
Shared Lane Traffic (%)						
Sign Control	Stop		Free			Free

Intersection Summary	
Area Type:	Other

Control Type: Unsignalized

Intersection	
Int Delay, s/veh	116.6

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	512	1	30	1364	1	55
Future Vol, veh/h	512	1	30	1364	1	55
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	86	86	86	86	86	86
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	595	1	35	1586	1	64

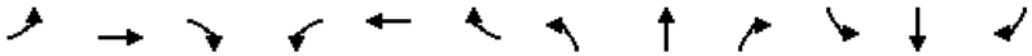
Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	894	828	0	0	1621	0
Stage 1	828	-	-	-	-	-
Stage 2	66	-	-	-	-	-
Critical Hdwy	6.4	6.2	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	~ 314	374	-	-	407	-
Stage 1	~ 433	-	-	-	-	-
Stage 2	962	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	~ 313	374	-	-	407	-
Mov Cap-2 Maneuver	~ 313	-	-	-	-	-
Stage 1	~ 433	-	-	-	-	-
Stage 2	959	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v	$ 446.33	0	0.25
HCM LOS	F		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	313	32	-
HCM Lane V/C Ratio	-	-	1.904	0.003	-
HCM Control Delay (s/veh)	-	-	$ 446.3	13.9	0
HCM Lane LOS	-	-	F	B	A
HCM 95th %tile Q(veh)	-	-	40.9	0	-

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon

7: Frontage Rd./I-15 NB Ramps & Stoddard Wells Rd.



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	10	87	85	25	629	56	7	48	45	1401	0	23
Future Volume (vph)	10	87	85	25	629	56	7	48	45	1401	0	23
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Link Speed (mph)		45			45			30			30	
Link Distance (ft)		889			1144			979			330	
Travel Time (s)		13.5			17.3			22.3			7.5	
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Shared Lane Traffic (%)												
Sign Control		Free			Free			Stop			Stop	

Intersection Summary	
Area Type:	Other

Control Type: Unsignalized

Intersection	
Int Delay, s/veh	1693.2

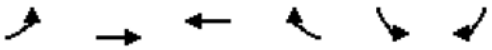
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	10	87	85	25	629	56	7	48	45	1401	0	23
Future Vol, veh/h	10	87	85	25	629	56	7	48	45	1401	0	23
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	96	96	96	96	96	96	96	96	96	96	96	96
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	10	91	89	26	655	58	7	50	47	1459	0	24

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	714	0	0	179	0	0	863	921	135	873	936	684
Stage 1	-	-	-	-	-	-	156	156	-	736	736	-
Stage 2	-	-	-	-	-	-	707	766	-	136	200	-
Critical Hdwy	4.1	-	-	4.1	-	-	7.1	6.5	6.2	7.1	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Follow-up Hdwy	2.2	-	-	2.2	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	896	-	-	1409	-	-	277	272	919	~ 273	267	452
Stage 1	-	-	-	-	-	-	851	773	-	~ 414	428	-
Stage 2	-	-	-	-	-	-	429	415	-	~ 872	739	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	896	-	-	1409	-	-	251	261	919	~ 202	255	452
Mov Cap-2 Maneuver	-	-	-	-	-	-	251	261	-	~ 202	255	-
Stage 1	-	-	-	-	-	-	840	762	-	~ 401	415	-
Stage 2	-	-	-	-	-	-	394	402	-	~ 763	730	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	0.5	0.27	17.87	$ 2871.26
HCM LOS			C	F

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	383	90	-	-	62	-	-	204
HCM Lane V/C Ratio	0.272	0.012	-	-	0.018	-	-	7.285
HCM Control Delay (s/veh)	17.9	9.1	0	-	7.6	0	-	$ 2871.3
HCM Lane LOS	C	A	A	-	A	A	-	F
HCM 95th %tile Q(veh)	1.1	0	-	-	0.1	-	-	163.4

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon



Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (vph)	1	36	58	602	144	3
Future Volume (vph)	1	36	58	602	144	3
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0			0	0	25
Storage Lanes	0			0	1	0
Taper Length (ft)	90				90	
Link Speed (mph)		45	45		45	
Link Distance (ft)		1552	889		1482	
Travel Time (s)		23.5	13.5		22.5	
Peak Hour Factor	0.84	0.84	0.84	0.84	0.84	0.84
Shared Lane Traffic (%)						
Sign Control		Free	Free		Stop	

Intersection Summary	
Area Type:	Other
Control Type: Unsignalized	

Intersection	
Int Delay, s/veh	2.5

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	1	36	58	602	144	3
Future Vol, veh/h	1	36	58	602	144	3
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	Yield	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	84	84	84	84	84	84
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	1	43	69	717	171	4

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	69	0	-	0	473	427
Stage 1	-	-	-	-	427	-
Stage 2	-	-	-	-	45	-
Critical Hdwy	4.1	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.2	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	1545	-	-	-	554	632
Stage 1	-	-	-	-	662	-
Stage 2	-	-	-	-	982	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1545	-	-	-	553	632
Mov Cap-2 Maneuver	-	-	-	-	553	-
Stage 1	-	-	-	-	662	-
Stage 2	-	-	-	-	982	-

Approach	EB	WB	SB
HCM Control Delay, s/v	0.2	0	14.45
HCM LOS			B

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	49	-	-	-	555
HCM Lane V/C Ratio	0.001	-	-	-	0.315
HCM Control Delay (s/veh)	7.3	0	-	-	14.5
HCM Lane LOS	A	A	-	-	B
HCM 95th %tile Q(veh)	0	-	-	-	1.3



Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	145	1	1	602	1	2
Future Volume (vph)	145	1	1	602	1	2
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Link Speed (mph)	30		45			45
Link Distance (ft)	263		1482			525
Travel Time (s)	6.0		22.5			8.0
Peak Hour Factor	0.79	0.79	0.79	0.79	0.79	0.79
Shared Lane Traffic (%)						
Sign Control	Stop		Free			Free

Intersection Summary	
Area Type:	Other

Control Type: Unsignalized

Intersection	
Int Delay, s/veh	2.6

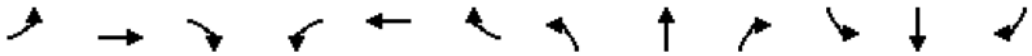
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	145	1	1	602	1	2
Future Vol, veh/h	145	1	1	602	1	2
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	79	79	79	79	79	79
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	184	1	1	762	1	3

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	387	382	0	0	763	0
Stage 1	382	-	-	-	-	-
Stage 2	5	-	-	-	-	-
Critical Hdwy	6.4	6.2	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	620	669	-	-	858	-
Stage 1	694	-	-	-	-	-
Stage 2	1023	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	619	669	-	-	858	-
Mov Cap-2 Maneuver	619	-	-	-	-	-
Stage 1	694	-	-	-	-	-
Stage 2	1022	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v	13.26	0	3.07
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	619	600	-
HCM Lane V/C Ratio	-	-	0.298	0.001	-
HCM Control Delay (s/veh)	-	-	13.3	9.2	0
HCM Lane LOS	-	-	B	A	A
HCM 95th %tile Q(veh)	-	-	1.2	0	-

10: Dale Evans Pkwy. & Corwin Rd.



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	169	29	2	12	6	10	6	345	36	25	109	58
Future Volume (vph)	169	29	2	12	6	10	6	345	36	25	109	58
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		1375			3330			1135			747	
Travel Time (s)		17.0			41.3			14.1			9.3	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Shared Lane Traffic (%)												
Sign Control		Stop			Stop			Stop			Stop	

Intersection Summary	
Area Type:	Other

Control Type: Unsignalized

Intersection	
Intersection Delay, s/veh	12.8
Intersection LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	169	29	2	12	6	10	6	345	36	25	109	58
Future Vol, veh/h	169	29	2	12	6	10	6	345	36	25	109	58
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	188	32	2	13	7	11	7	383	40	28	121	64
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	11.9	9.2	14.8	10.3
HCM LOS	B	A	B	B

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	2%	85%	43%	13%
Vol Thru, %	89%	15%	21%	57%
Vol Right, %	9%	1%	36%	30%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	387	200	28	192
LT Vol	6	169	12	25
Through Vol	345	29	6	109
RT Vol	36	2	10	58
Lane Flow Rate	430	222	31	213
Geometry Grp	1	1	1	1
Degree of Util (X)	0.589	0.353	0.05	0.302
Departure Headway (Hd)	4.934	5.723	5.833	5.091
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	735	629	612	706
Service Time	2.934	3.759	3.884	3.124
HCM Lane V/C Ratio	0.585	0.353	0.051	0.302
HCM Control Delay, s/veh	14.8	11.9	9.2	10.3
HCM Lane LOS	B	B	A	B
HCM 95th-tile Q	3.9	1.6	0.2	1.3

11: Dachshund Av. & Gustine Rd.



Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	1	5	18	1	17	29
Future Volume (vph)	1	5	18	1	17	29
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Link Speed (mph)	45		45			45
Link Distance (ft)	1365		225			1301
Travel Time (s)	20.7		3.4			19.7
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Shared Lane Traffic (%)						
Sign Control	Stop		Free			Free

Intersection Summary	
Area Type:	Other

Control Type: Unsignalized

Intersection	
Int Delay, s/veh	2.5

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	1	5	18	1	17	29
Future Vol, veh/h	1	5	18	1	17	29
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	1	5	20	1	18	32

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	89	20	0	0	21	0
Stage 1	20	-	-	-	-	-
Stage 2	68	-	-	-	-	-
Critical Hdwy	6.4	6.2	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	917	1064	-	-	1608	-
Stage 1	1008	-	-	-	-	-
Stage 2	959	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	906	1064	-	-	1608	-
Mov Cap-2 Maneuver	906	-	-	-	-	-
Stage 1	1008	-	-	-	-	-
Stage 2	948	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v	8.5	0	2.68
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	1034	665	-
HCM Lane V/C Ratio	-	-	0.006	0.011	-
HCM Control Delay (s/veh)	-	-	8.5	7.3	0
HCM Lane LOS	-	-	A	A	A
HCM 95th %tile Q(veh)	-	-	0	0	-



Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	4	5	13	14	15	14
Future Volume (vph)	4	5	13	14	15	14
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Link Speed (mph)	30		45			45
Link Distance (ft)	352		891			225
Travel Time (s)	8.0		13.5			3.4
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Shared Lane Traffic (%)						
Sign Control	Stop		Free			Free

Intersection Summary	
Area Type:	Other

Control Type: Unsignalized

Intersection	
Int Delay, s/veh	2.9

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	4	5	13	14	15	14
Future Vol, veh/h	4	5	13	14	15	14
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	4	5	14	15	16	15

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	70	22	0	0	29	0
Stage 1	22	-	-	-	-	-
Stage 2	48	-	-	-	-	-
Critical Hdwy	6.4	6.2	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	940	1061	-	-	1597	-
Stage 1	1006	-	-	-	-	-
Stage 2	980	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	930	1061	-	-	1597	-
Mov Cap-2 Maneuver	930	-	-	-	-	-
Stage 1	1006	-	-	-	-	-
Stage 2	970	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v	8.64	0	3.76
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	999	931	-
HCM Lane V/C Ratio	-	-	0.01	0.01	-
HCM Control Delay (s/veh)	-	-	8.6	7.3	0
HCM Lane LOS	-	-	A	A	A
HCM 95th %tile Q(veh)	-	-	0	0	-

13: Dachshund Av. & Access 2



Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	7	2	25	21	7	11
Future Volume (vph)	7	2	25	21	7	11
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Link Speed (mph)	30		45			45
Link Distance (ft)	362		283			891
Travel Time (s)	8.2		4.3			13.5
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Shared Lane Traffic (%)						
Sign Control	Stop		Free			Free

Intersection Summary	
Area Type:	Other

Control Type: Unsignalized

Intersection	
Int Delay, s/veh	1.8

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	7	2	25	21	7	11
Future Vol, veh/h	7	2	25	21	7	11
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	8	2	27	23	8	12

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	66	39	0	0	50	0
Stage 1	39	-	-	-	-	-
Stage 2	27	-	-	-	-	-
Critical Hdwy	6.4	6.2	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	945	1039	-	-	1570	-
Stage 1	989	-	-	-	-	-
Stage 2	1001	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	940	1039	-	-	1570	-
Mov Cap-2 Maneuver	940	-	-	-	-	-
Stage 1	989	-	-	-	-	-
Stage 2	996	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v	8.79	0	2.84
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	960	700	-
HCM Lane V/C Ratio	-	-	0.01	0.005	-
HCM Control Delay (s/veh)	-	-	8.8	7.3	0
HCM Lane LOS	-	-	A	A	A
HCM 95th %tile Q(veh)	-	-	0	0	-

14: Dakota Av./Dachshund Av. & Fresno Rd.



Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	1	1	46	1	1	18
Future Volume (vph)	1	1	46	1	1	18
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Link Speed (mph)	45		45			45
Link Distance (ft)	1354		1769			283
Travel Time (s)	20.5		26.8			4.3
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Shared Lane Traffic (%)						
Sign Control	Stop		Free			Free

Intersection Summary	
Area Type:	Other

Control Type: Unsignalized

Intersection	
Int Delay, s/veh	0.4

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	1	1	46	1	1	18
Future Vol, veh/h	1	1	46	1	1	18
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	1	1	50	1	1	20

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	72	51	0	0	51	0
Stage 1	51	-	-	-	-	-
Stage 2	22	-	-	-	-	-
Critical Hdwy	6.4	6.2	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	937	1023	-	-	1568	-
Stage 1	977	-	-	-	-	-
Stage 2	1006	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	936	1023	-	-	1568	-
Mov Cap-2 Maneuver	936	-	-	-	-	-
Stage 1	977	-	-	-	-	-
Stage 2	1005	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v	8.69	0	0.38
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	978	95	-
HCM Lane V/C Ratio	-	-	0.002	0.001	-
HCM Control Delay (s/veh)	-	-	8.7	7.3	0
HCM Lane LOS	-	-	A	A	A
HCM 95th %tile Q(veh)	-	-	0	0	-



Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Volume (vph)	0	17	5	0	0	0
Future Volume (vph)	0	17	5	0	0	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Link Speed (mph)	45			45	30	
Link Distance (ft)	1365			207	187	
Travel Time (s)	20.7			3.1	4.3	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Shared Lane Traffic (%)						
Sign Control	Stop			Free	Free	

Intersection Summary	
Area Type:	Other

Control Type: Unsignalized

Intersection	
Int Delay, s/veh	7.7

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	0	17	5	0	0	0
Future Vol, veh/h	0	17	5	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	18	5	0	0	0

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	12	1	1	0	-	0
Stage 1	1	-	-	-	-	-
Stage 2	11	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	1013	1089	1635	-	-	-
Stage 1	1027	-	-	-	-	-
Stage 2	1017	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	1009	1089	1635	-	-	-
Mov Cap-2 Maneuver	1009	-	-	-	-	-
Stage 1	1024	-	-	-	-	-
Stage 2	1017	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s/v	8.36	7.21	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1635	-	1089	-	-
HCM Lane V/C Ratio	0.003	-	0.017	-	-
HCM Control Delay (s/veh)	7.2	0	8.4	-	-
HCM Lane LOS	A	A	A	-	-
HCM 95th %tile Q(veh)	0	-	0.1	-	-



Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Volume (vph)	4	1	5	1	3	14
Future Volume (vph)	4	1	5	1	3	14
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Link Speed (mph)	30			45	45	
Link Distance (ft)	342			891	207	
Travel Time (s)	7.8			13.5	3.1	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Shared Lane Traffic (%)						
Sign Control	Stop			Free	Free	

Intersection Summary	
Area Type:	Other

Control Type: Unsignalized

Intersection	
Int Delay, s/veh	2.8

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	4	1	5	1	3	14
Future Vol, veh/h	4	1	5	1	3	14
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	4	1	5	1	3	15

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	23	11	18	0	-	0
Stage 1	11	-	-	-	-	-
Stage 2	12	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	999	1076	1611	-	-	-
Stage 1	1017	-	-	-	-	-
Stage 2	1016	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	995	1076	1611	-	-	-
Mov Cap-2 Maneuver	995	-	-	-	-	-
Stage 1	1014	-	-	-	-	-
Stage 2	1016	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s/v	8.58	6.03	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1500	-	1010	-	-
HCM Lane V/C Ratio	0.003	-	0.005	-	-
HCM Control Delay (s/veh)	7.2	0	8.6	-	-
HCM Lane LOS	A	A	A	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-



Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Volume (vph)	1	5	16	5	1	3
Future Volume (vph)	1	5	16	5	1	3
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Link Speed (mph)	30			45	45	
Link Distance (ft)	367			285	891	
Travel Time (s)	8.3			4.3	13.5	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Shared Lane Traffic (%)						
Sign Control	Stop			Free	Free	

Intersection Summary	
Area Type:	Other

Control Type: Unsignalized

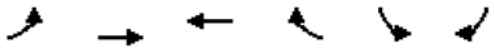
Intersection	
Int Delay, s/veh	5.4

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	1	5	16	5	1	3
Future Vol, veh/h	1	5	16	5	1	3
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	1	5	17	5	1	3

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	43	3	4	0	-	0
Stage 1	3	-	-	-	-	-
Stage 2	40	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	973	1087	1630	-	-	-
Stage 1	1026	-	-	-	-	-
Stage 2	987	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	963	1087	1630	-	-	-
Mov Cap-2 Maneuver	963	-	-	-	-	-
Stage 1	1015	-	-	-	-	-
Stage 2	987	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s/v	8.4	5.51	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1371	-	1064	-	-
HCM Lane V/C Ratio	0.011	-	0.006	-	-
HCM Control Delay (s/veh)	7.2	0	8.4	-	-
HCM Lane LOS	A	A	A	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-



Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (vph)	40	15	47	1	1	69
Future Volume (vph)	40	15	47	1	1	69
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Link Speed (mph)		55	55		45	
Link Distance (ft)		3330	1344		1769	
Travel Time (s)		41.3	16.7		26.8	
Peak Hour Factor	0.69	0.69	0.69	0.69	0.69	0.69
Shared Lane Traffic (%)						
Sign Control		Free	Free		Stop	

Intersection Summary	
Area Type:	Other

Control Type: Unsignalized

Intersection	
Int Delay, s/veh	5.4

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	40	15	47	1	1	69
Future Vol, veh/h	40	15	47	1	1	69
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	69	69	69	69	69	69
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	58	22	68	1	1	100

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	70	0	-	0	207	69
Stage 1	-	-	-	-	69	-
Stage 2	-	-	-	-	138	-
Critical Hdwy	4.1	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.2	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	1544	-	-	-	786	1000
Stage 1	-	-	-	-	959	-
Stage 2	-	-	-	-	894	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1544	-	-	-	757	1000
Mov Cap-2 Maneuver	-	-	-	-	757	-
Stage 1	-	-	-	-	923	-
Stage 2	-	-	-	-	894	-

Approach	EB	WB	SB
HCM Control Delay, s/v	5.4	0	9.03
HCM LOS			A

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1309	-	-	-	995
HCM Lane V/C Ratio	0.038	-	-	-	0.102
HCM Control Delay (s/veh)	7.4	0	-	-	9
HCM Lane LOS	A	A	-	-	A
HCM 95th %tile Q(veh)	0.1	-	-	-	0.3

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	1	1	1	2	1	1	1	10	1	1	27	1
Future Volume (vph)	1	1	1	2	1	1	1	10	1	1	27	1
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Link Speed (mph)		45			45			45			45	
Link Distance (ft)		1354			321			1023			285	
Travel Time (s)		20.5			4.9			15.5			4.3	
Peak Hour Factor	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Shared Lane Traffic (%)												
Sign Control		Stop			Stop			Free			Free	

Intersection Summary	
Area Type:	Other

Control Type: Unsignalized

Intersection	
Int Delay, s/veh	1.6

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	1	1	1	2	1	1	1	10	1	1	27	1
Future Vol, veh/h	1	1	1	2	1	1	1	10	1	1	27	1
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	50	50	50	50	50	50	50	50	50	50	50	50
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	2	2	2	4	2	2	2	20	2	2	54	2

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	84	85	55	84	85	21	56	0	0	22	0	0
Stage 1	59	59	-	25	25	-	-	-	-	-	-	-
Stage 2	25	26	-	59	60	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	908	809	1018	908	809	1062	1562	-	-	1607	-	-
Stage 1	958	850	-	998	878	-	-	-	-	-	-	-
Stage 2	998	878	-	958	849	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	901	807	1018	901	807	1062	1562	-	-	1607	-	-
Mov Cap-2 Maneuver	901	807	-	901	807	-	-	-	-	-	-	-
Stage 1	956	849	-	997	877	-	-	-	-	-	-	-
Stage 2	993	876	-	952	848	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	9.02	8.99	0.61	0.25
HCM LOS	A	A		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	147	-	-	900	909	62	-	-
HCM Lane V/C Ratio	0.001	-	-	0.007	0.009	0.001	-	-
HCM Control Delay (s/veh)	7.3	0	-	9	9	7.2	0	-
HCM Lane LOS	A	A	-	A	A	A	A	-
HCM 95th %tile Q(veh)	0	-	-	0	0	0	-	-



Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Volume (vph)	71	1	2	1	3	42
Future Volume (vph)	71	1	2	1	3	42
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Link Speed (mph)	30			55	55	
Link Distance (ft)	2664			475	6664	
Travel Time (s)	60.5			5.9	82.6	
Peak Hour Factor	0.73	0.73	0.73	0.73	0.73	0.73
Shared Lane Traffic (%)						
Sign Control	Stop			Free	Free	

Intersection Summary	
Area Type:	Other

Control Type: Unsignalized

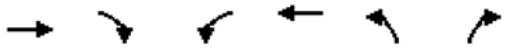
Intersection	
Int Delay, s/veh	5.6

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	71	1	2	1	3	42
Future Vol, veh/h	71	1	2	1	3	42
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	73	73	73	73	73	73
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	97	1	3	1	4	58

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	40	33	62	0	-	0
Stage 1	33	-	-	-	-	-
Stage 2	7	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	977	1046	1554	-	-	-
Stage 1	995	-	-	-	-	-
Stage 2	1021	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	975	1046	1554	-	-	-
Mov Cap-2 Maneuver	975	-	-	-	-	-
Stage 1	993	-	-	-	-	-
Stage 2	1021	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s/v	9.1	4.88	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1200	-	976	-	-
HCM Lane V/C Ratio	0.002	-	0.101	-	-
HCM Control Delay (s/veh)	7.3	0	9.1	-	-
HCM Lane LOS	A	A	A	-	-
HCM 95th %tile Q(veh)	0	-	0.3	-	-



Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	689	160	42	1026	322	52
Future Volume (vph)	689	160	42	1026	322	52
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (ft)		0	0		0	100
Storage Lanes		0	0		1	0
Taper Length (ft)			90		90	
Link Speed (mph)	45			45	55	
Link Distance (ft)	5327			1835	6664	
Travel Time (s)	80.7			27.8	82.6	
Peak Hour Factor	0.76	0.76	0.76	0.76	0.76	0.76
Shared Lane Traffic (%)						
Sign Control	Free			Free	Stop	

Intersection Summary	
Area Type:	Other
Control Type: Unsignalized	

Intersection	
Int Delay, s/veh	1419.4

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	689	160	42	1026	322	52
Future Vol, veh/h	689	160	42	1026	322	52
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	76	76	76	76	76	76
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	907	211	55	1350	424	68

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	1117	0	2472	1012
Stage 1	-	-	-	-	1012	-
Stage 2	-	-	-	-	1461	-
Critical Hdwy	-	-	4.1	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	-	-	2.2	-	3.5	3.3
Pot Cap-1 Maneuver	-	-	633	-	~ 34	293
Stage 1	-	-	-	-	~ 354	-
Stage 2	-	-	-	-	~ 215	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	633	-	~ 22	293
Mov Cap-2 Maneuver	-	-	-	-	~ 22	-
Stage 1	-	-	-	-	~ 354	-
Stage 2	-	-	-	-	~ 140	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	0.44	$ 8693.38
HCM LOS			F

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	25	-	-	71	-
HCM Lane V/C Ratio	19.657	-	-	0.087	-
HCM Control Delay (s/veh)	$ 8693.4	-	-	11.2	0
HCM Lane LOS	F	-	-	B	A
HCM 95th %tile Q(veh)	61.4	-	-	0.3	-

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon

5: Dale Evans Pkwy. & Johnson Rd.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	9	775	87	313	1297	361	159	111	181	263	224	17
Future Volume (vph)	9	775	87	313	1297	361	159	111	181	263	224	17
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0		0	0		165	100		0	325		0
Storage Lanes	0		0	0		1	1		1	1		0
Taper Length (ft)	90			90			90			90		
Link Speed (mph)		45			45			55			55	
Link Distance (ft)		7616			5327			4005			1074	
Travel Time (s)		115.4			80.7			49.6			13.3	
Peak Hour Factor	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
Shared Lane Traffic (%)												
Sign Control		Stop			Stop			Stop			Stop	

Intersection Summary	
Area Type:	Other
Control Type: Unsignalized	

Intersection	
Intersection Delay, s/veh	1371.8
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	9	775	87	313	1297	361	159	111	181	263	224	17
Future Vol, veh/h	9	775	87	313	1297	361	159	111	181	263	224	17
Peak Hour Factor	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	11	969	109	391	1621	451	199	139	226	329	280	21
Number of Lanes	0	1	0	0	1	1	1	1	1	1	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	2	1	2	3
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	2	3	1	2
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	3	2	2	1
HCM Control Delay, s/veh	1260.8	2059	+	104.8
HCM LOS	F	F	-	F

Lane	NBLn1	NBLn2	NBLn3	EBLn1	WBLn1	WBLn2	SBLn1	SBLn2
Vol Left, %	100%	0%	0%	1%	19%	0%	100%	0%
Vol Thru, %	0%	100%	0%	89%	81%	0%	0%	93%
Vol Right, %	0%	0%	100%	10%	0%	100%	0%	7%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	159	111	181	871	1610	361	263	241
LT Vol	159	0	0	9	313	0	263	0
Through Vol	0	111	0	775	1297	0	0	224
RT Vol	0	0	181	87	0	361	0	17
Lane Flow Rate	199	139	226	1089	2013	451	329	301
Geometry Grp	6	6	6	6	6	6	6	6
Degree of Util (X)	-	-	-	3.709	6.403	1.336	1.091	0.954
Departure Headway (Hd)	-	-	-	16.667	17.205	16.307	14.408	13.783
Convergence, Y/N	-	-	-	Yes	Yes	Yes	Yes	Yes
Cap	-	-	-	229	242	226	256	265
Service Time	-	-	-	14.367	14.905	14.007	12.108	11.483
HCM Lane V/C Ratio	-	-	-	4.755	8.318	1.996	1.285	1.136
HCM Control Delay, s/veh	+	+	+	1260.8	2471.5	219.2	124.1	83.7
HCM Lane LOS	-	-	-	F	F	F	F	F
HCM 95th-tile Q	-	-	-	77	144.8	16.1	11.6	8.9

Notes
HCM 7th Edition AWSC methodology error - negative departure headway

6: Stoddard Wells Rd. & Johnson Rd.



Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	1470	3	13	869	2	29
Future Volume (vph)	1470	3	13	869	2	29
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Link Speed (mph)	45		45			45
Link Distance (ft)	7616		549			661
Travel Time (s)	115.4		8.3			10.0
Peak Hour Factor	0.67	0.67	0.67	0.67	0.67	0.67
Shared Lane Traffic (%)						
Sign Control	Stop		Free			Free

Intersection Summary	
Area Type:	Other

Control Type: Unsignalized

Intersection	
Int Delay, s/veh	1276.1

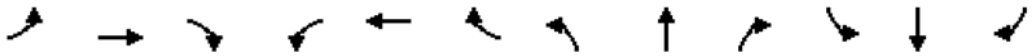
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	1470	3	13	869	2	29
Future Vol, veh/h	1470	3	13	869	2	29
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	67	67	67	67	67	67
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	2194	4	19	1297	3	43

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	717	668	0	0	1316	0
Stage 1	668	-	-	-	-	-
Stage 2	49	-	-	-	-	-
Critical Hdwy	6.4	6.2	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	~ 399	462	-	-	532	-
Stage 1	~ 513	-	-	-	-	-
Stage 2	~ 978	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	~ 397	462	-	-	532	-
Mov Cap-2 Maneuver	~ 397	-	-	-	-	-
Stage 1	~ 513	-	-	-	-	-
Stage 2	~ 973	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v	$ 2067.09	0	0.76
HCM LOS	F		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	397	116	-
HCM Lane V/C Ratio	-	-	5.538	0.006	-
HCM Control Delay (s/veh)	-	-	$ 2067.1	11.8	0
HCM Lane LOS	-	-	F	B	A
HCM 95th %tile Q(veh)	-	-	228.8	0	-

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	5	93	69	49	1544	61	4	79	39	913	0	20
Future Volume (vph)	5	93	69	49	1544	61	4	79	39	913	0	20
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Link Speed (mph)		45			45			30			30	
Link Distance (ft)		889			1144			979			330	
Travel Time (s)		13.5			17.3			22.3			7.5	
Peak Hour Factor	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68
Shared Lane Traffic (%)												
Sign Control		Free			Free			Stop			Stop	

Intersection Summary	
Area Type:	Other

Control Type: Unsignalized

Intersection	
Int Delay, s/veh	14907.8

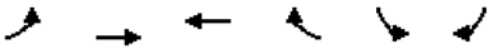
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		⇕			⇕			⇕			⇕	
Traffic Vol, veh/h	5	93	69	49	1544	61	4	79	39	913	0	20
Future Vol, veh/h	5	93	69	49	1544	61	4	79	39	913	0	20
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	68	68	68	68	68	68	68	68	68	68	68	68
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	7	137	101	72	2271	90	6	116	57	1343	0	29

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	2360	0	0	238	0	0	2617	2707	188	2669	2713	2315
Stage 1	-	-	-	-	-	-	202	202	-	2460	2460	-
Stage 2	-	-	-	-	-	-	2415	2504	-	210	253	-
Critical Hdwy	4.1	-	-	4.1	-	-	7.1	6.5	6.2	7.1	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Follow-up Hdwy	2.2	-	-	2.2	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	210	-	-	1341	-	-	16	~ 21	860	~ 15	21	49
Stage 1	-	-	-	-	-	-	804	738	-	~ 42	61	-
Stage 2	-	-	-	-	-	-	45	~ 58	-	~ 797	701	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	210	-	-	1341	-	-	6	~ 21	860	~ 13	20	49
Mov Cap-2 Maneuver	-	-	-	-	-	-	6	~ 21	-	~ 13	20	-
Stage 1	-	-	-	-	-	-	771	708	-	~ 42	61	-
Stage 2	-	-	-	-	-	-	18	~ 58	-	~ 596	673	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	0.68	0.23	$ 2831.17	$ 45582.89
HCM LOS			F	F

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	27	50	-	-	~ 53	-	-	14
HCM Lane V/C Ratio	6.654	0.035	-	-	0.054	-	-	101.103
HCM Control Delay (s/veh)	$ 2831.2	22.7	0	-	7.8	0	-	$ 45582.9
HCM Lane LOS	F	C	A	-	A	A	-	F
HCM 95th %tile Q(veh)	22.1	0.1	-	-	0.2	-	-	172.8

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon



Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (vph)	6	36	54	1515	130	2
Future Volume (vph)	6	36	54	1515	130	2
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0			0	0	25
Storage Lanes	0			0	1	0
Taper Length (ft)	90				90	
Link Speed (mph)		45	45		45	
Link Distance (ft)		1552	889		1482	
Travel Time (s)		23.5	13.5		22.5	
Peak Hour Factor	0.58	0.58	0.58	0.58	0.58	0.58
Shared Lane Traffic (%)						
Sign Control		Free	Free		Stop	

Intersection Summary	
Area Type:	Other
Control Type: Unsignalized	

Intersection	
Int Delay, s/veh	28.4

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	6	36	54	1515	130	2
Future Vol, veh/h	6	36	54	1515	130	2
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	Yield	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	58	58	58	58	58	58
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	10	62	93	2612	224	3

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	93	0	-	0	1482	1399
Stage 1	-	-	-	-	1399	-
Stage 2	-	-	-	-	83	-
Critical Hdwy	4.1	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.2	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	1514	-	-	-	~ 139	174
Stage 1	-	-	-	-	231	-
Stage 2	-	-	-	-	946	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1514	-	-	-	~ 138	174
Mov Cap-2 Maneuver	-	-	-	-	~ 138	-
Stage 1	-	-	-	-	229	-
Stage 2	-	-	-	-	946	-

Approach	EB	WB	SB
HCM Control Delay, s/v	1.06	0	$ 374.69
HCM LOS			F

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	257	-	-	-	139
HCM Lane V/C Ratio	0.007	-	-	-	1.64
HCM Control Delay (s/veh)	7.4	0	-	-	$ 374.7
HCM Lane LOS	A	A	-	-	F
HCM 95th %tile Q(veh)	0	-	-	-	16.3

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon



Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	132	1	1	1520	1	1
Future Volume (vph)	132	1	1	1520	1	1
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Link Speed (mph)	30		45			45
Link Distance (ft)	263		1482			525
Travel Time (s)	6.0		22.5			8.0
Peak Hour Factor	0.56	0.56	0.56	0.56	0.56	0.56
Shared Lane Traffic (%)						
Sign Control	Stop		Free			Free

Intersection Summary	
Area Type:	Other

Control Type: Unsignalized

Intersection	
Int Delay, s/veh	23.3

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	132	1	1	1520	1	1
Future Vol, veh/h	132	1	1	1520	1	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	56	56	56	56	56	56
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	236	2	2	2714	2	2

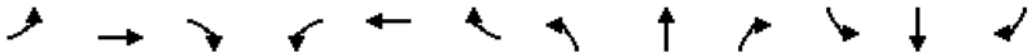
Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	1364	1359	0	0	2716	0
Stage 1	1359	-	-	-	-	-
Stage 2	5	-	-	-	-	-
Critical Hdwy	6.4	6.2	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	~ 164	184	-	-	152	-
Stage 1	241	-	-	-	-	-
Stage 2	1023	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	~ 162	184	-	-	152	-
Mov Cap-2 Maneuver	~ 162	-	-	-	-	-
Stage 1	241	-	-	-	-	-
Stage 2	1011	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/veh	$290.34	0	14.47
HCM LOS	F		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	162	152	-
HCM Lane V/C Ratio	-	-	1.462	0.012	-
HCM Control Delay (s/veh)	-	-	290.3	28.9	0
HCM Lane LOS	-	-	F	D	A
HCM 95th %tile Q(veh)	-	-	15.2	0	-

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon

10: Dale Evans Pkwy. & Corwin Rd.



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	92	14	2	48	39	32	3	212	25	16	418	197
Future Volume (vph)	92	14	2	48	39	32	3	212	25	16	418	197
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		1375			3330			1135			747	
Travel Time (s)		17.0			41.3			14.1			9.3	
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Shared Lane Traffic (%)												
Sign Control		Stop			Stop			Stop			Stop	

Intersection Summary	
Area Type:	Other

Control Type: Unsignalized

Intersection	
Intersection Delay, s/veh	28.6
Intersection LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	92	14	2	48	39	32	3	212	25	16	418	197
Future Vol, veh/h	92	14	2	48	39	32	3	212	25	16	418	197
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	99	15	2	52	42	34	3	228	27	17	449	212
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	11.7	11.5	12.4	40.8
HCM LOS	B	B	B	E

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	1%	85%	40%	3%
Vol Thru, %	88%	13%	33%	66%
Vol Right, %	10%	2%	27%	31%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	240	108	119	631
LT Vol	3	92	48	16
Through Vol	212	14	39	418
RT Vol	25	2	32	197
Lane Flow Rate	258	116	128	678
Geometry Grp	1	1	1	1
Degree of Util (X)	0.402	0.217	0.23	0.931
Departure Headway (Hd)	5.611	6.734	6.468	4.94
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	637	530	551	733
Service Time	3.682	4.826	4.556	2.99
HCM Lane V/C Ratio	0.405	0.219	0.232	0.925
HCM Control Delay, s/veh	12.4	11.7	11.5	40.8
HCM Lane LOS	B	B	B	E
HCM 95th-tile Q	1.9	0.8	0.9	13.1

11: Dachshund Av. & Gustine Rd.



Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	1	21	51	1	8	38
Future Volume (vph)	1	21	51	1	8	38
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Link Speed (mph)	45		45			45
Link Distance (ft)	1365		225			1301
Travel Time (s)	20.7		3.4			19.7
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Shared Lane Traffic (%)						
Sign Control	Stop		Free			Free

Intersection Summary	
Area Type:	Other

Control Type: Unsignalized

Intersection	
Int Delay, s/veh	2.1

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	1	21	51	1	8	38
Future Vol, veh/h	1	21	51	1	8	38
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	1	23	55	1	9	41

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	115	56	0	0	57	0
Stage 1	56	-	-	-	-	-
Stage 2	59	-	-	-	-	-
Critical Hdwy	6.4	6.2	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	887	1016	-	-	1561	-
Stage 1	972	-	-	-	-	-
Stage 2	969	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	881	1016	-	-	1561	-
Mov Cap-2 Maneuver	881	-	-	-	-	-
Stage 1	972	-	-	-	-	-
Stage 2	963	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v	8.65	0	1.27
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	1009	313	-
HCM Lane V/C Ratio	-	-	0.024	0.006	-
HCM Control Delay (s/veh)	-	-	8.7	7.3	0
HCM Lane LOS	-	-	A	A	A
HCM 95th %tile Q(veh)	-	-	0.1	0	-



Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	17	19	32	7	7	31
Future Volume (vph)	17	19	32	7	7	31
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Link Speed (mph)	30		45			45
Link Distance (ft)	352		891			225
Travel Time (s)	8.0		13.5			3.4
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Shared Lane Traffic (%)						
Sign Control	Stop		Free			Free

Intersection Summary	
Area Type:	Other

Control Type: Unsignalized

Intersection	
Int Delay, s/veh	3.3

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	17	19	32	7	7	31
Future Vol, veh/h	17	19	32	7	7	31
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	18	21	35	8	8	34

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	88	39	0	0	42	0
Stage 1	39	-	-	-	-	-
Stage 2	49	-	-	-	-	-
Critical Hdwy	6.4	6.2	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	918	1039	-	-	1580	-
Stage 1	989	-	-	-	-	-
Stage 2	979	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	914	1039	-	-	1580	-
Mov Cap-2 Maneuver	914	-	-	-	-	-
Stage 1	989	-	-	-	-	-
Stage 2	974	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v	8.84	0	1.34
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	976	332	-
HCM Lane V/C Ratio	-	-	0.04	0.005	-
HCM Control Delay (s/veh)	-	-	8.8	7.3	0
HCM Lane LOS	-	-	A	A	A
HCM 95th %tile Q(veh)	-	-	0.1	0	-

13: Dachshund Av. & Access 2



Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	27	9	30	11	4	44
Future Volume (vph)	27	9	30	11	4	44
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Link Speed (mph)	30		45			45
Link Distance (ft)	362		283			891
Travel Time (s)	8.2		4.3			13.5
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Shared Lane Traffic (%)						
Sign Control	Stop		Free			Free

Intersection Summary	
Area Type:	Other

Control Type: Unsignalized

Intersection	
Int Delay, s/veh	2.8

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	27	9	30	11	4	44
Future Vol, veh/h	27	9	30	11	4	44
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	29	10	33	12	4	48

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	95	39	0	0	45	0
Stage 1	39	-	-	-	-	-
Stage 2	57	-	-	-	-	-
Critical Hdwy	6.4	6.2	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	909	1039	-	-	1577	-
Stage 1	989	-	-	-	-	-
Stage 2	971	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	907	1039	-	-	1577	-
Mov Cap-2 Maneuver	907	-	-	-	-	-
Stage 1	989	-	-	-	-	-
Stage 2	968	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v	9.01	0	0.61
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	937	150	-
HCM Lane V/C Ratio	-	-	0.042	0.003	-
HCM Control Delay (s/veh)	-	-	9	7.3	0
HCM Lane LOS	-	-	A	A	A
HCM 95th %tile Q(veh)	-	-	0.1	0	-

14: Dakota Av./Dachshund Av. & Fresno Rd.



Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	1	1	41	1	1	71
Future Volume (vph)	1	1	41	1	1	71
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Link Speed (mph)	45		45			45
Link Distance (ft)	1354		1769			283
Travel Time (s)	20.5		26.8			4.3
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Shared Lane Traffic (%)						
Sign Control	Stop		Free			Free

Intersection Summary	
Area Type:	Other

Control Type: Unsignalized

Intersection	
Int Delay, s/veh	0.2

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	1	1	41	1	1	71
Future Vol, veh/h	1	1	41	1	1	71
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	1	1	45	1	1	77

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	124	45	0	0	46	0
Stage 1	45	-	-	-	-	-
Stage 2	79	-	-	-	-	-
Critical Hdwy	6.4	6.2	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	875	1030	-	-	1575	-
Stage 1	983	-	-	-	-	-
Stage 2	949	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	875	1030	-	-	1575	-
Mov Cap-2 Maneuver	875	-	-	-	-	-
Stage 1	983	-	-	-	-	-
Stage 2	948	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v	8.81	0	0.1
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	946	25	-
HCM Lane V/C Ratio	-	-	0.002	0.001	-
HCM Control Delay (s/veh)	-	-	8.8	7.3	0
HCM Lane LOS	-	-	A	A	A
HCM 95th %tile Q(veh)	-	-	0	0	-



Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Volume (vph)	0	8	21	0	0	0
Future Volume (vph)	0	8	21	0	0	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Link Speed (mph)	45			45	30	
Link Distance (ft)	1365			207	165	
Travel Time (s)	20.7			3.1	3.8	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Shared Lane Traffic (%)						
Sign Control	Stop			Free	Free	

Intersection Summary	
Area Type:	Other

Control Type: Unsignalized

Intersection	
Int Delay, s/veh	7.3

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	0	8	21	0	0	0
Future Vol, veh/h	0	8	21	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	9	23	0	0	0

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	47	1	1	0	-	0
Stage 1	1	-	-	-	-	-
Stage 2	46	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	968	1089	1635	-	-	-
Stage 1	1027	-	-	-	-	-
Stage 2	982	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	955	1089	1635	-	-	-
Mov Cap-2 Maneuver	955	-	-	-	-	-
Stage 1	1013	-	-	-	-	-
Stage 2	982	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s/v	8.33	7.23	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1635	-	1089	-	-
HCM Lane V/C Ratio	0.014	-	0.008	-	-
HCM Control Delay (s/veh)	7.2	0	8.3	-	-
HCM Lane LOS	A	A	A	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-



Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Volume (vph)	18	6	2	3	1	7
Future Volume (vph)	18	6	2	3	1	7
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Link Speed (mph)	30			45	45	
Link Distance (ft)	342			891	207	
Travel Time (s)	7.8			13.5	3.1	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Shared Lane Traffic (%)						
Sign Control	Stop			Free	Free	

Intersection Summary	
Area Type:	Other

Control Type: Unsignalized

Intersection	
Int Delay, s/veh	6

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	18	6	2	3	1	7
Future Vol, veh/h	18	6	2	3	1	7
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	20	7	2	3	1	8

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	13	5	9	0	-	0
Stage 1	5	-	-	-	-	-
Stage 2	8	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	1012	1084	1625	-	-	-
Stage 1	1023	-	-	-	-	-
Stage 2	1021	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	1011	1084	1625	-	-	-
Mov Cap-2 Maneuver	1011	-	-	-	-	-
Stage 1	1022	-	-	-	-	-
Stage 2	1021	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s/v	8.59	2.89	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	720	-	1028	-	-
HCM Lane V/C Ratio	0.001	-	0.025	-	-
HCM Control Delay (s/veh)	7.2	0	8.6	-	-
HCM Lane LOS	A	A	A	-	-
HCM 95th %tile Q(veh)	0	-	0.1	-	-



Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Volume (vph)	3	21	8	2	6	1
Future Volume (vph)	3	21	8	2	6	1
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Link Speed (mph)	30			45	45	
Link Distance (ft)	367			285	891	
Travel Time (s)	8.3			4.3	13.5	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Shared Lane Traffic (%)						
Sign Control	Stop			Free	Free	

Intersection Summary	
Area Type:	Other

Control Type: Unsignalized

Intersection	
Int Delay, s/veh	6.4

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	3	21	8	2	6	1
Future Vol, veh/h	3	21	8	2	6	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	3	23	9	2	7	1

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	27	7	8	0	-	0
Stage 1	7	-	-	-	-	-
Stage 2	20	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	994	1081	1626	-	-	-
Stage 1	1021	-	-	-	-	-
Stage 2	1008	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	988	1081	1626	-	-	-
Mov Cap-2 Maneuver	988	-	-	-	-	-
Stage 1	1016	-	-	-	-	-
Stage 2	1008	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s/v	8.45	5.78	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1440	-	1069	-	-
HCM Lane V/C Ratio	0.005	-	0.024	-	-
HCM Control Delay (s/veh)	7.2	0	8.5	-	-
HCM Lane LOS	A	A	A	-	-
HCM 95th %tile Q(veh)	0	-	0.1	-	-

APPENDIX 5.3: OPENING YEAR CUMULATIVE (2027) WITHOUT PROJECT CONDITIONS TRAFFIC SIGNAL WARRANT ANALYSIS WORKSHEETS

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Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

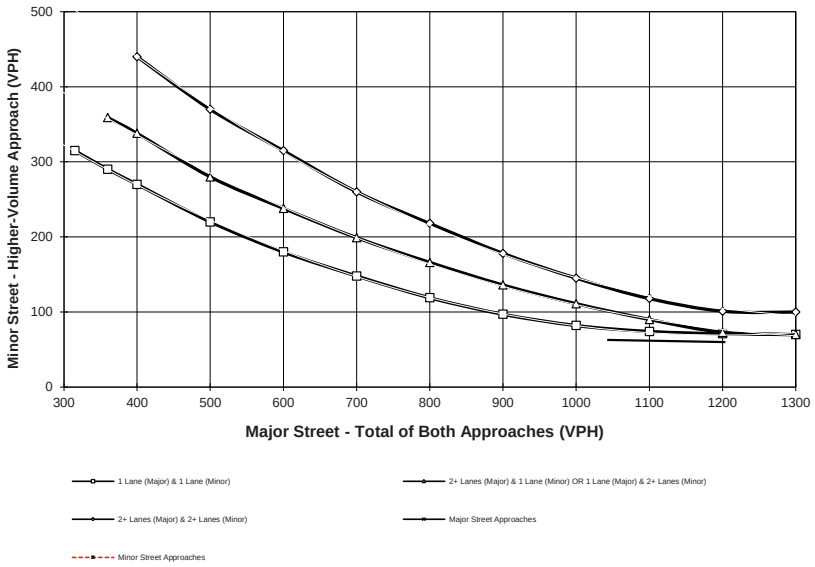
(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 64 km/h OR ABOVE 40 mph ON MAJOR STREET)

Traffic Conditions = **EAC AM PEAK HOUR WARRANTS**

Major Street Name = **Corwin Rd.**
Total of Both Approaches (VPH) = **34**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Dakota Av.**
High Volume Approach (VPH) = **8**
Number of Approach Lanes Minor Street = **1**

SIGNAL WARRANT NOT SATISFIED



*Note: 100 vph applies as the lower threshold for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold for a minor-street approach with one lane

Intersection ID: #1

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Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

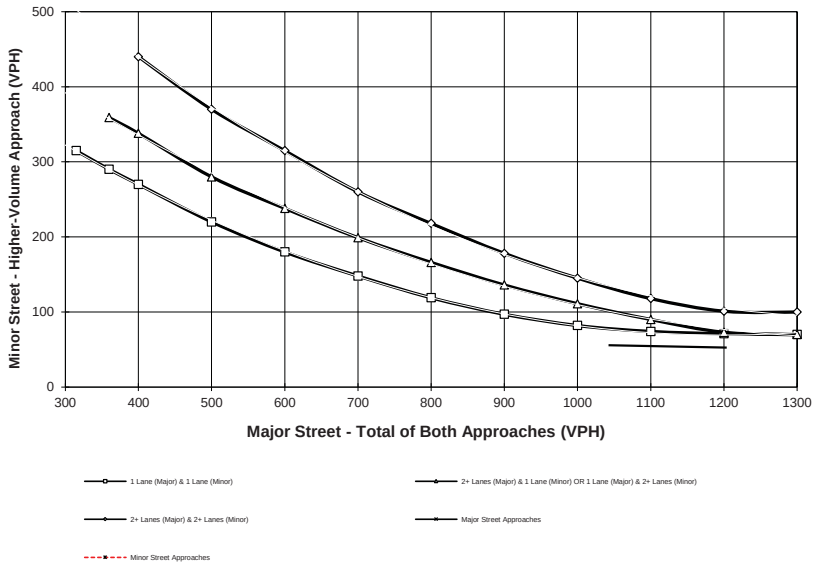
(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 64 km/h OR ABOVE 40 mph ON MAJOR STREET)

Traffic Conditions = **EAC PM PEAK HOUR WARRANTS**

Major Street Name = **Corwin Rd.**
Total of Both Approaches (VPH) = **49**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Dakota Av.**
High Volume Approach (VPH) = **27**
Number of Approach Lanes Minor Street = **1**

SIGNAL WARRANT NOT SATISFIED



*Note: 100 vph applies as the lower threshold for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold for a minor-street approach with one lane

Intersection ID: #1

Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

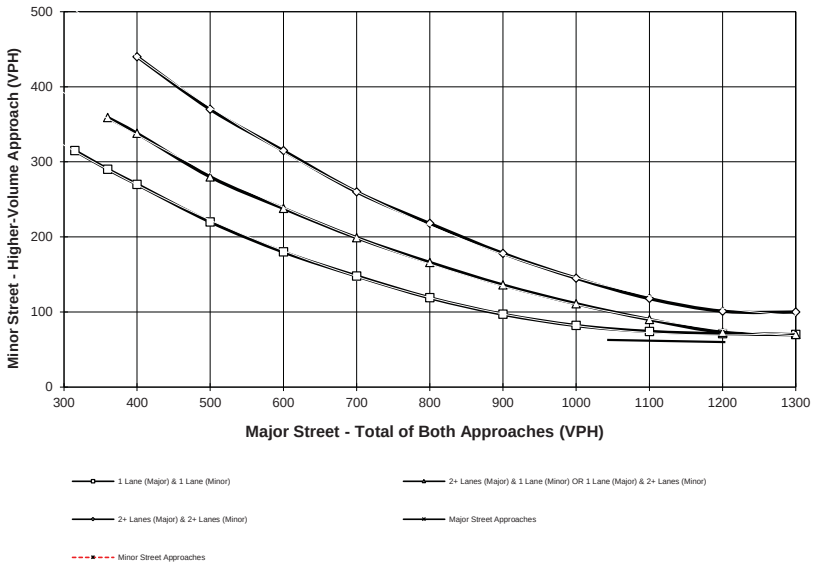
(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 64 km/h OR ABOVE 40 mph ON MAJOR STREET)

Traffic Conditions = **EAC AM PEAK HOUR WARRANTS**

Major Street Name = **Ramona Rd.**
Total of Both Approaches (VPH) = **2**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Fresno Rd.**
High Volume Approach (VPH) = **1**
Number of Approach Lanes Minor Street = **1**

SIGNAL WARRANT NOT SATISFIED



*Note: 100 vph applies as the lower threshold for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold for a minor-street approach with one lane

Intersection ID: #2

F:\UXRjobs_15600_16000_16000\16091\02_LOS\Warrants\02 - EAC\02R_AM.xls\Fig 4C-4 (Rural Peak)

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Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

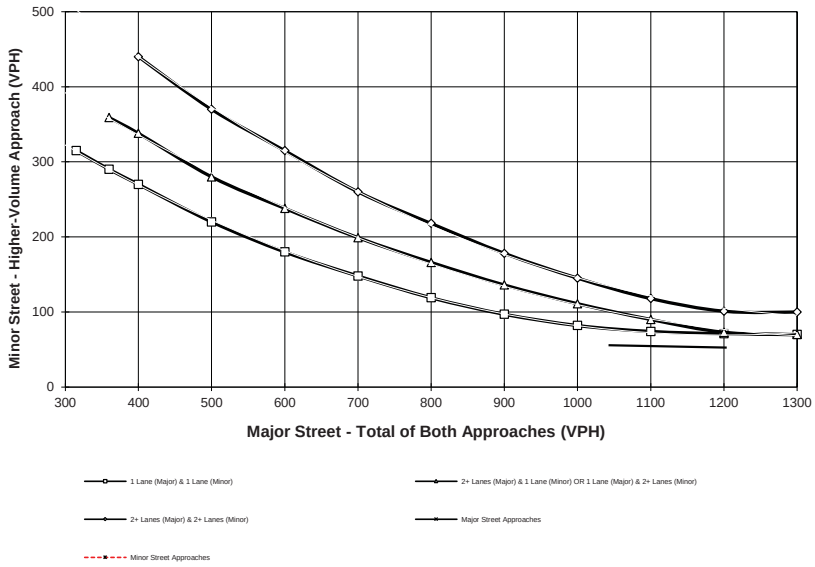
(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 64 km/h OR ABOVE 40 mph ON MAJOR STREET)

Traffic Conditions = **EAC PM PEAK HOUR WARRANTS**

Major Street Name = **Ramona Rd.**
Total of Both Approaches (VPH) = **2**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Fresno Rd.**
High Volume Approach (VPH) = **2**
Number of Approach Lanes Minor Street = **1**

SIGNAL WARRANT NOT SATISFIED



*Note: 100 vph applies as the lower threshold for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold for a minor-street approach with one lane

Intersection ID: #2

F:\UXRjobs_15600_16000_16000\16091\02_LOS\Warrants\02 - EAC\02R_PM.xls\Fig 4C-4 (Rural Peak)

Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

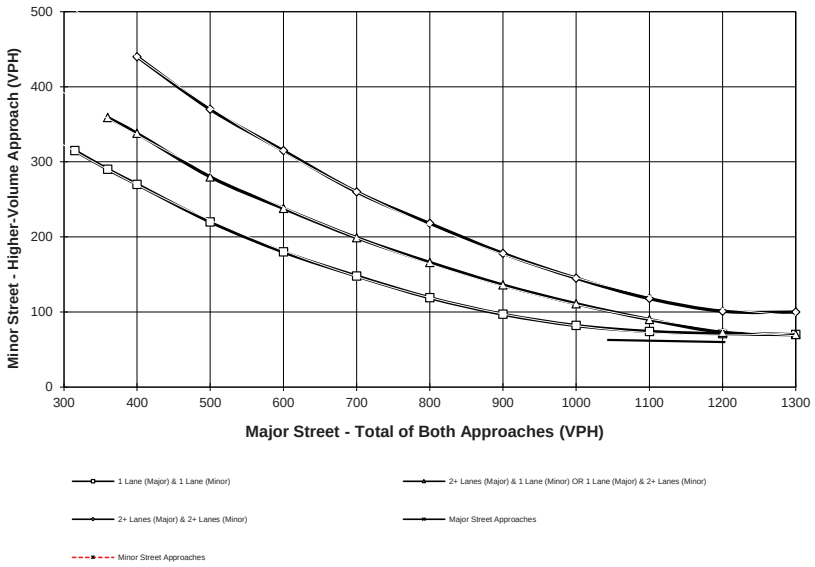
(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 64 km/h OR ABOVE 40 mph ON MAJOR STREET)

Traffic Conditions = **EAC AM PEAK HOUR WARRANTS**

Major Street Name = **Navajo Rd.**
Total of Both Approaches (VPH) = **11**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Altadena St.**
High Volume Approach (VPH) = **9**
Number of Approach Lanes Minor Street = **1**

SIGNAL WARRANT NOT SATISFIED



*Note: 100 vph applies as the lower threshold for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold for a minor-street approach with one lane

Intersection ID: #3

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Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

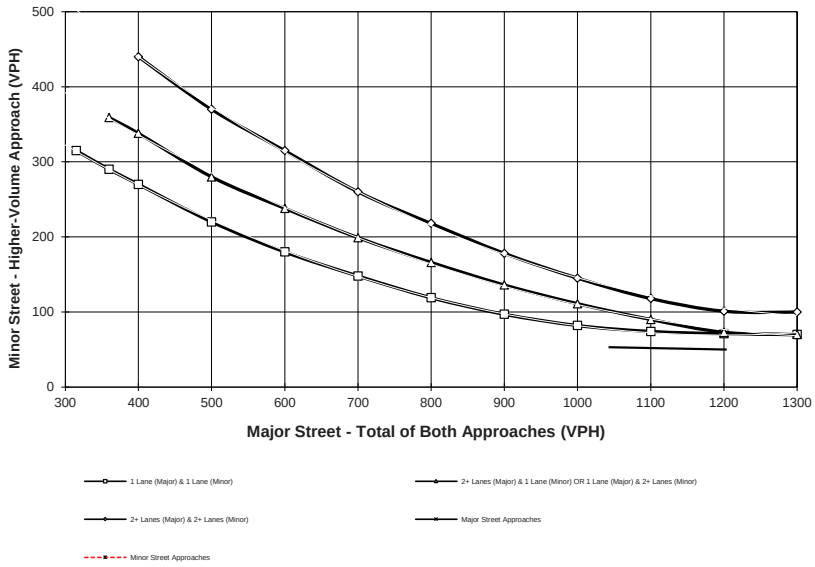
(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 64 km/h OR ABOVE 40 mph ON MAJOR STREET)

Traffic Conditions = **EAC PM PEAK HOUR WARRANTS**

Major Street Name = **Navajo Rd.**
Total of Both Approaches (VPH) = **29**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Altadena St.**
High Volume Approach (VPH) = **22**
Number of Approach Lanes Minor Street = **1**

SIGNAL WARRANT NOT SATISFIED



*Note: 100 vph applies as the lower threshold for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold for a minor-street approach with one lane

Intersection ID: #3

Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

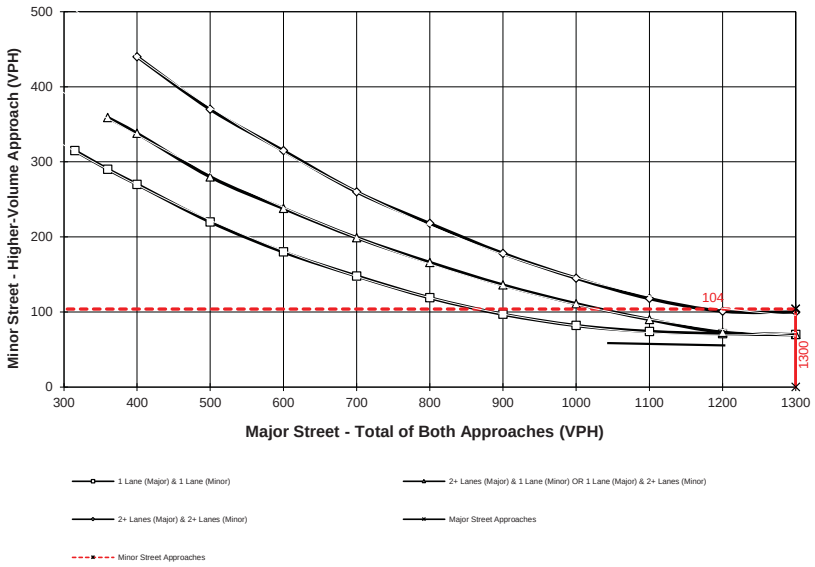
(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 64 km/h OR ABOVE 40 mph ON MAJOR STREET)

Traffic Conditions = **EAC AM PEAK HOUR WARRANTS**

Major Street Name = **Johnson Rd.**
Total of Both Approaches (VPH) = **2,041**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Navajo Rd.**
High Volume Approach (VPH) = **104**
Number of Approach Lanes Minor Street = **1**

WARRANTED FOR A SIGNAL



*Note: 100 vph applies as the lower threshold for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold for a minor-street approach with one lane

Intersection ID: #4

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Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

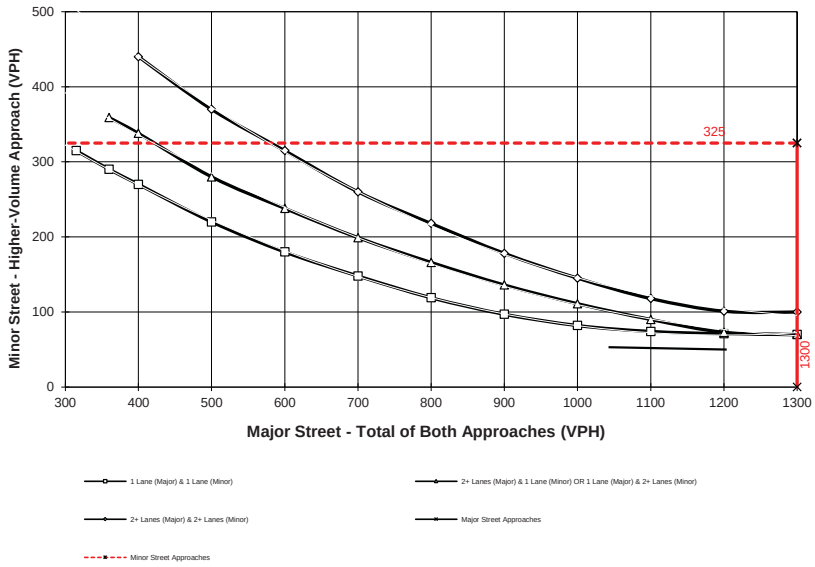
(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 64 km/h OR ABOVE 40 mph ON MAJOR STREET)

Traffic Conditions = **EAC PM PEAK HOUR WARRANTS**

Major Street Name = **Johnson Rd.**
Total of Both Approaches (VPH) = **1,984**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Navajo Rd.**
High Volume Approach (VPH) = **325**
Number of Approach Lanes Minor Street = **1**

WARRANTED FOR A SIGNAL



*Note: 100 vph applies as the lower threshold for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold for a minor-street approach with one lane

Intersection ID: #4

Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

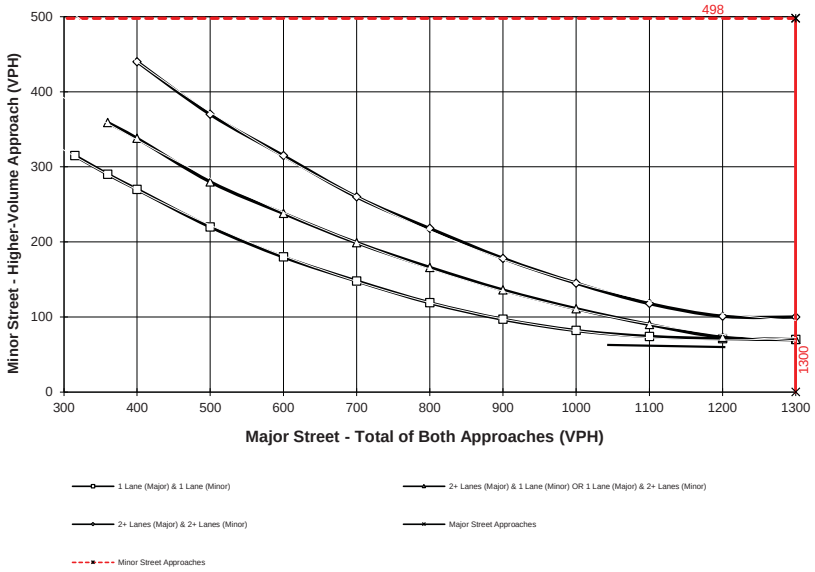
(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 64 km/h OR ABOVE 40 mph ON MAJOR STREET)

Traffic Conditions = **EAC AM PEAK HOUR WARRANTS**

Major Street Name = **Stoddard Wells Rd.** Total of Both Approaches (VPH) = **1,403**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Johnson Rd.** High Volume Approach (VPH) = **498**
Number of Approach Lanes Minor Street = **1**

WARRANTED FOR A SIGNAL



*Note: 100 vph applies as the lower threshold for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold for a minor-street approach with one lane

Intersection ID: #6

F:\UXRjobs_15600_16000_16000\16091\02_LOS\Warrants\02 - EAC\06R_AM.xls\Fig 4C-4 (Rural Peak)

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Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

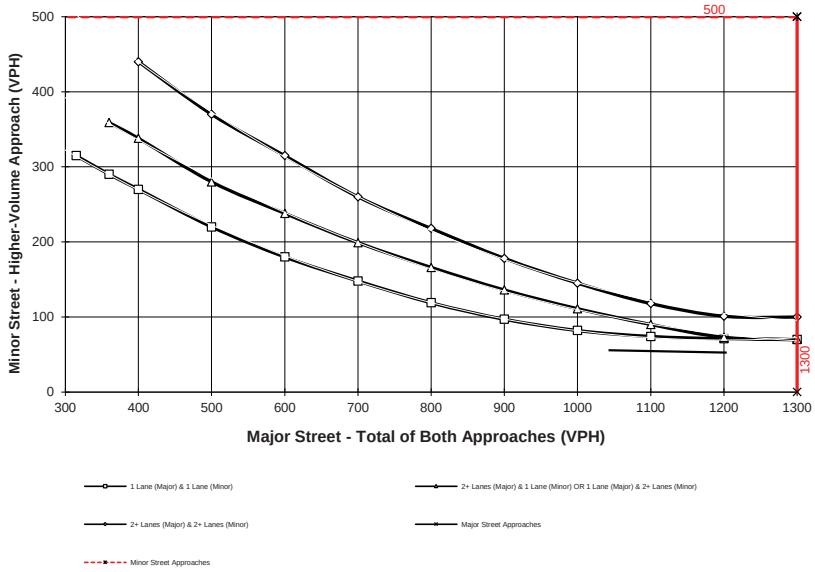
(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 64 km/h OR ABOVE 40 mph ON MAJOR STREET)

Traffic Conditions = **EAC PM PEAK HOUR WARRANTS**

Major Street Name = **Johnson Rd.** Total of Both Approaches (VPH) = **1,413**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Stoddard Wells Rd.** High Volume Approach (VPH) = **858**
Number of Approach Lanes Minor Street = **1**

WARRANTED FOR A SIGNAL



*Note: 100 vph applies as the lower threshold for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold for a minor-street approach with one lane

Intersection ID: #6

F:\UXRjobs_15600_16000_16000\16091\02_LOS\Warrants\02 - EAC\06R_PM.xls\Fig 4C-4 (Rural Peak)

Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

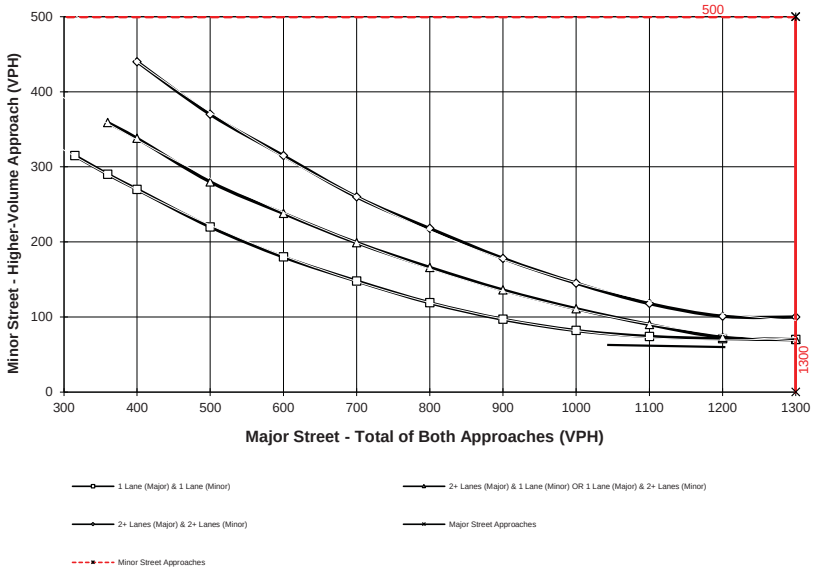
(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 64 km/h OR ABOVE 40 mph ON MAJOR STREET)

Traffic Conditions = **EAC AM PEAK HOUR WARRANTS**

Major Street Name = **I-15 NB Ramps - Outer Hwy. 15** Total of Both Approaches (VPH) = **1,477**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Stoddard Wells Rd.** High Volume Approach (VPH) = **695**
Number of Approach Lanes Minor Street = **1**

WARRANTED FOR A SIGNAL



*Note: 100 vph applies as the lower threshold for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold for a minor-street approach with one lane

Intersection ID: #7

F:\UXRjobs_15600_16000_16000\16091\02_LOS\Warrants\02 - EAC\07R_AM.xls\Fig 4C-4 (Rural Peak)

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Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

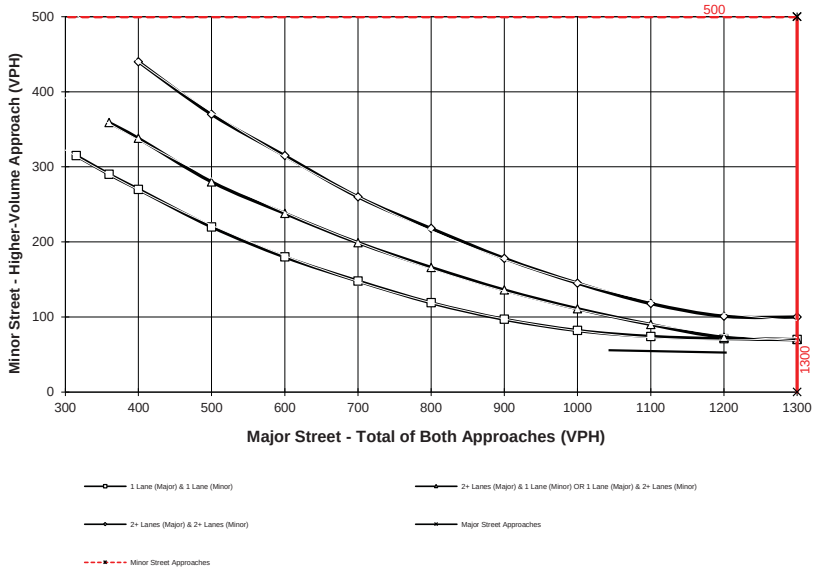
(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 64 km/h OR ABOVE 40 mph ON MAJOR STREET)

Traffic Conditions = **EAC PM PEAK HOUR WARRANTS**

Major Street Name = **Stoddard Wells Rd.** Total of Both Approaches (VPH) = **1,761**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **I-15 NB Ramps - Outer Hwy. 15** High Volume Approach (VPH) = **909**
Number of Approach Lanes Minor Street = **1**

WARRANTED FOR A SIGNAL



*Note: 100 vph applies as the lower threshold for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold for a minor-street approach with one lane

Intersection ID: #7

F:\UXRjobs_15600_16000_16000\16091\02_LOS\Warrants\02 - EAC\07R_PM.xls\Fig 4C-4 (Rural Peak)

Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

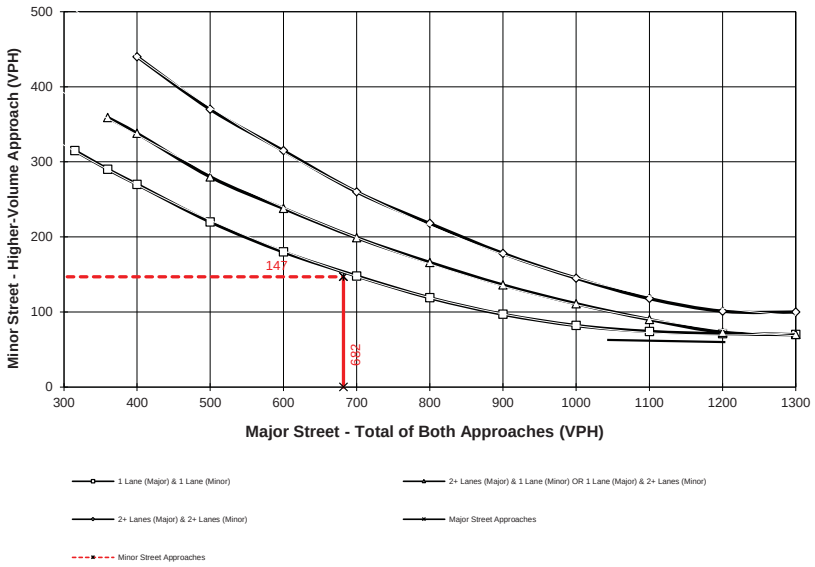
(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 64 km/h OR ABOVE 40 mph ON MAJOR STREET)

Traffic Conditions = **EAC AM PEAK HOUR WARRANTS**

Major Street Name = **Stoddard Wells Rd.** Total of Both Approaches (VPH) = **682**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Quarry Rd.** High Volume Approach (VPH) = **147**
Number of Approach Lanes Minor Street = **1**

SIGNAL WARRANT NOT SATISFIED



*Note: 100 vph applies as the lower threshold for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold for a minor-street approach with one lane

Intersection ID: #8

F:\UXRjobs_15600_16000_16000\16091\02_LOS\Warrants\02 - EAC\08R_AM.xls\Fig 4C-4 (Rural Peak)

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(FHWA's MUTCD 2009, as amended for use in California)

Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

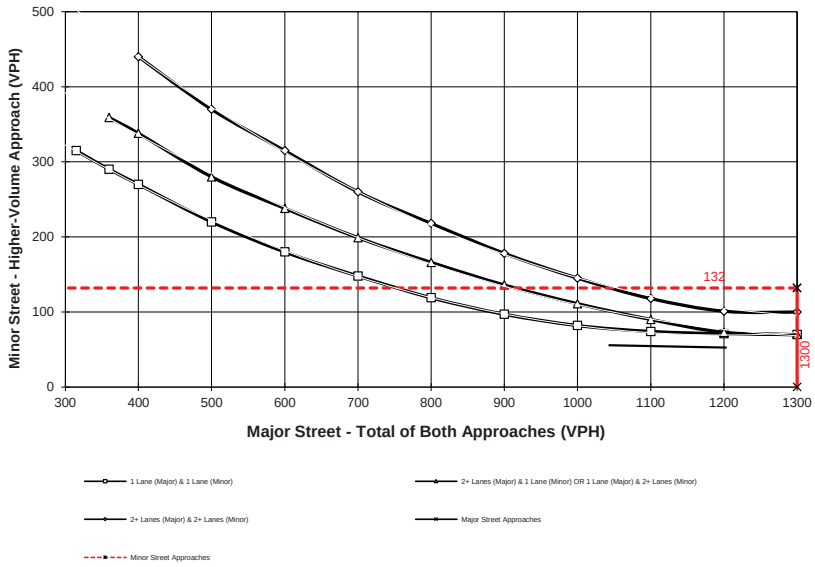
(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 64 km/h OR ABOVE 40 mph ON MAJOR STREET)

Traffic Conditions = **EAC PM PEAK HOUR WARRANTS**

Major Street Name = **Stoddard Wells Rd.** Total of Both Approaches (VPH) = **1,551**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Quarry Rd.** High Volume Approach (VPH) = **132**
Number of Approach Lanes Minor Street = **1**

WARRANTED FOR A SIGNAL



*Note: 100 vph applies as the lower threshold for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold for a minor-street approach with one lane

Intersection ID: #8

F:\UXRjobs_15600_16000_16000\16091\02_LOS\Warrants\02 - EAC\08R_PM.xls\Fig 4C-4 (Rural Peak)

Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

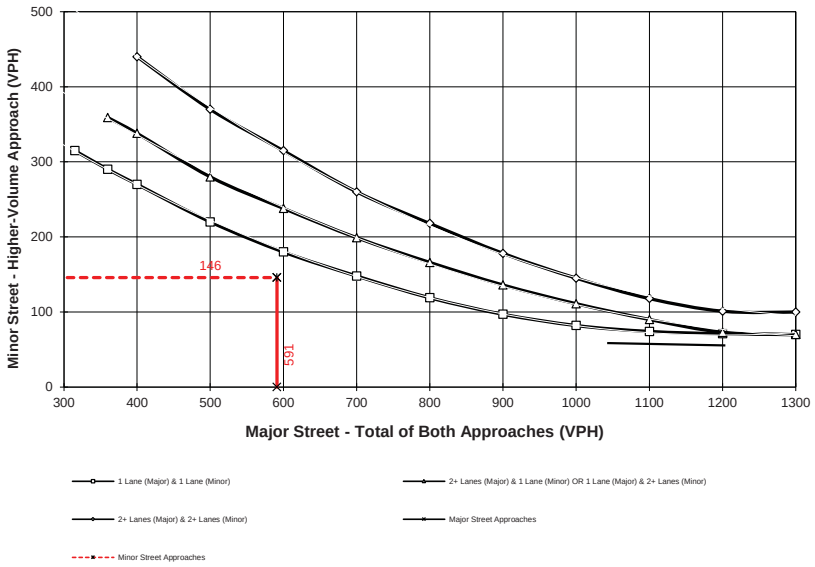
(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 64 km/h OR ABOVE 40 mph ON MAJOR STREET)

Traffic Conditions = **EAC AM PEAK HOUR WARRANTS**

Major Street Name = **Quarry Rd.** Total of Both Approaches (VPH) = **591**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **I-15 SB Ramps** High Volume Approach (VPH) = **146**
Number of Approach Lanes Minor Street = **1**

SIGNAL WARRANT NOT SATISFIED



*Note: 100 vph applies as the lower threshold for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold for a minor-street approach with one lane

Intersection ID: #9

F:\UXRjobs_15600_16000_16000\16091\02_LOS\Warrants\02 - EAC\09R_AM.xls\Fig 4C-4 (Rural Peak)

California MUTCD 2016 Edition
(FHWA's MUTCD 2009, as amended for use in California)

Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

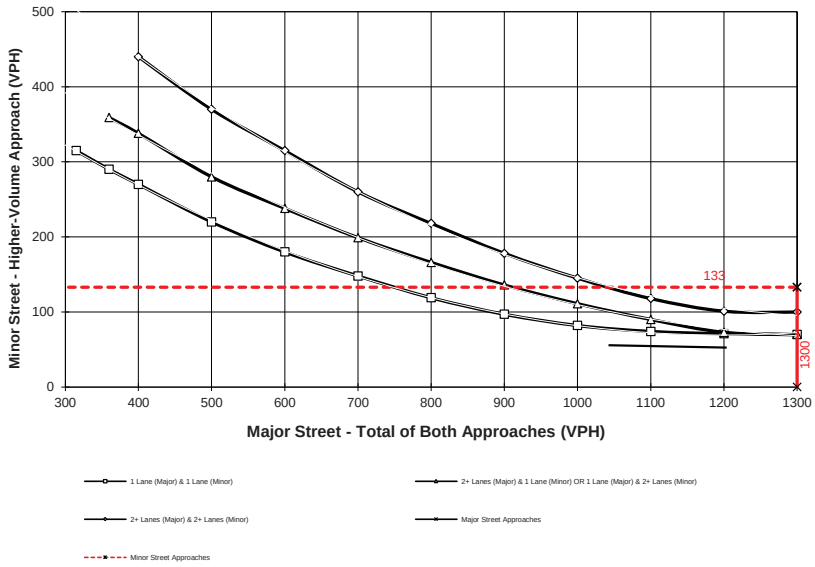
(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 64 km/h OR ABOVE 40 mph ON MAJOR STREET)

Traffic Conditions = **EAC PM PEAK HOUR WARRANTS**

Major Street Name = **Quarry Rd.** Total of Both Approaches (VPH) = **1,463**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **I-15 SB Ramps** High Volume Approach (VPH) = **133**
Number of Approach Lanes Minor Street = **1**

WARRANTED FOR A SIGNAL



*Note: 100 vph applies as the lower threshold for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold for a minor-street approach with one lane

Intersection ID: #9

F:\UXRjobs_15600_16000_16000\16091\02_LOS\Warrants\02 - EAC\09R_PM.xls\Fig 4C-4 (Rural Peak)

Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

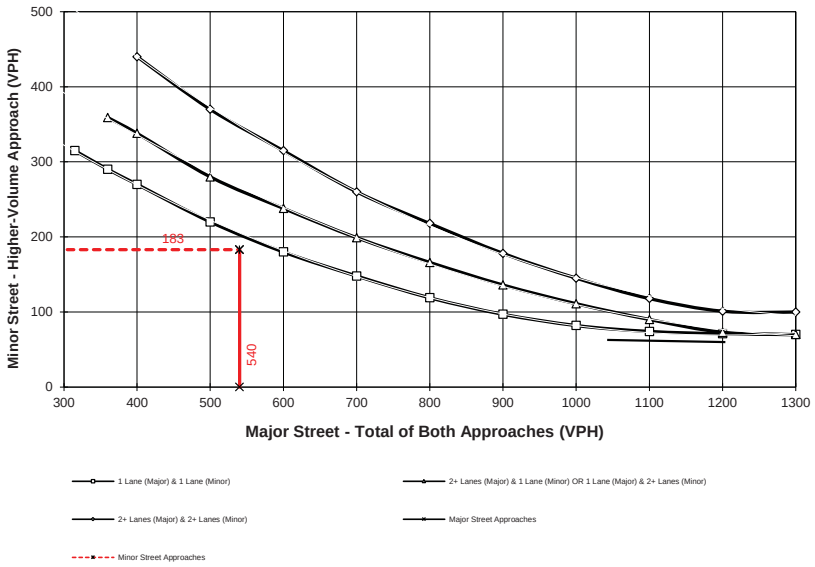
(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 64 km/h OR ABOVE 40 mph ON MAJOR STREET)

Traffic Conditions = **EAC AM PEAK HOUR WARRANTS**

Major Street Name = **Dale Evans Pkwy.** Total of Both Approaches (VPH) = **540**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Corwin Rd.** High Volume Approach (VPH) = **183**
Number of Approach Lanes Minor Street = **1**

SIGNAL WARRANT NOT SATISFIED



*Note: 100 vph applies as the lower threshold for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold for a minor-street approach with one lane

Intersection ID: #10

F:\UXRjobs_15600_16000_16000\16091\02_LOS\Warrants\02 - EAC\10R_AM.xls\Fig 4C-4 (Rural Peak)

California MUTCD 2016 Edition
(FHWA's MUTCD 2009, as amended for use in California)

Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

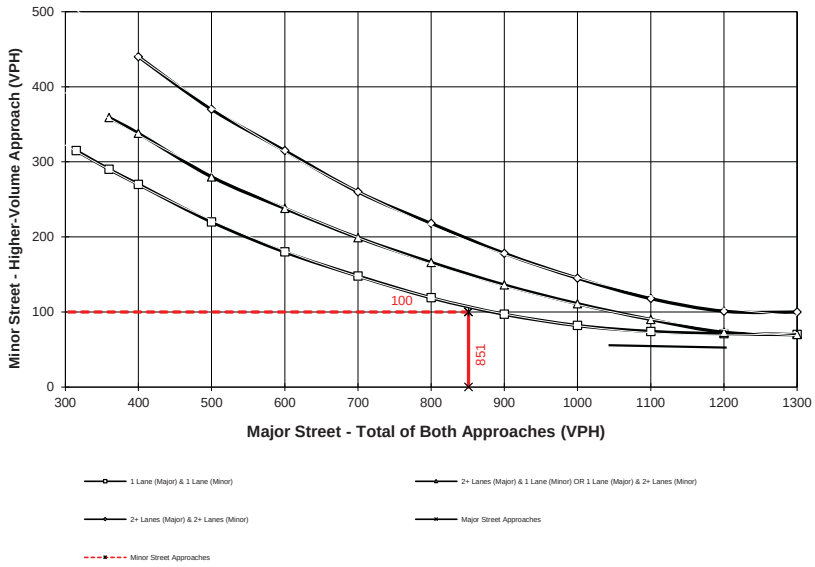
(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 64 km/h OR ABOVE 40 mph ON MAJOR STREET)

Traffic Conditions = **EAC PM PEAK HOUR WARRANTS**

Major Street Name = **Dale Evans Pkwy.** Total of Both Approaches (VPH) = **851**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Corwin Rd.** High Volume Approach (VPH) = **100**
Number of Approach Lanes Minor Street = **1**

SIGNAL WARRANT NOT SATISFIED



*Note: 100 vph applies as the lower threshold for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold for a minor-street approach with one lane

Intersection ID: #10

F:\UXRjobs_15600_16000_16000\16091\02_LOS\Warrants\02 - EAC\10R_PM.xls\Fig 4C-4 (Rural Peak)

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APPENDIX 5.4: OPENING YEAR CUMULATIVE (2027) WITH PROJECT CONDITIONS TRAFFIC SIGNAL WARRANT ANALYSIS WORKSHEETS

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Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

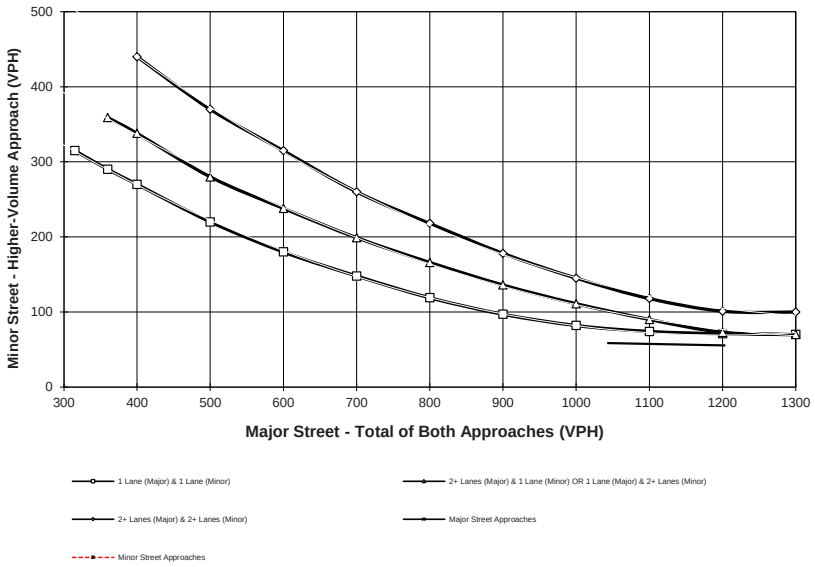
(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 64 km/h OR ABOVE 40 mph ON MAJOR STREET)

Traffic Conditions = **EAPC (2027) AM PEAK HOUR WARRANTS**

Major Street Name = **Corwin Rd.** Total of Both Approaches (VPH) = **95**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Dakota Av.** High Volume Approach (VPH) = **18**
Number of Approach Lanes Minor Street = **1**

SIGNAL WARRANT NOT SATISFIED



*Note: 100 vph applies as the lower threshold for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold for a minor-street approach with one lane

Intersection ID: #1

California MUTCD 2016 Edition
(FHWA's MUTCD 2009, as amended for use in California)

Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

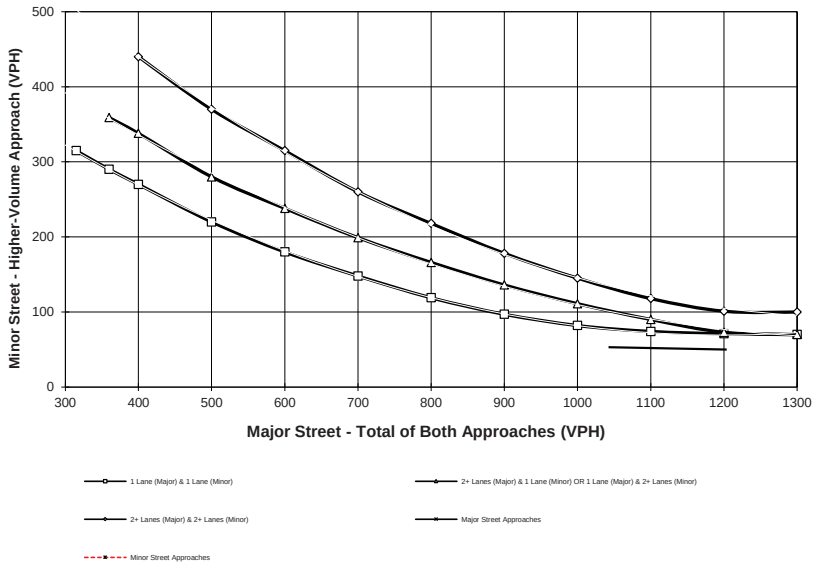
(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 64 km/h OR ABOVE 40 mph ON MAJOR STREET)

Traffic Conditions = **EAPC (2027) PM PEAK HOUR WARRANTS**

Major Street Name = **Corwin Rd.** Total of Both Approaches (VPH) = **103**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Dakota Av.** High Volume Approach (VPH) = **70**
Number of Approach Lanes Minor Street = **1**

SIGNAL WARRANT NOT SATISFIED



*Note: 100 vph applies as the lower threshold for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold for a minor-street approach with one lane

Intersection ID: #1

Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

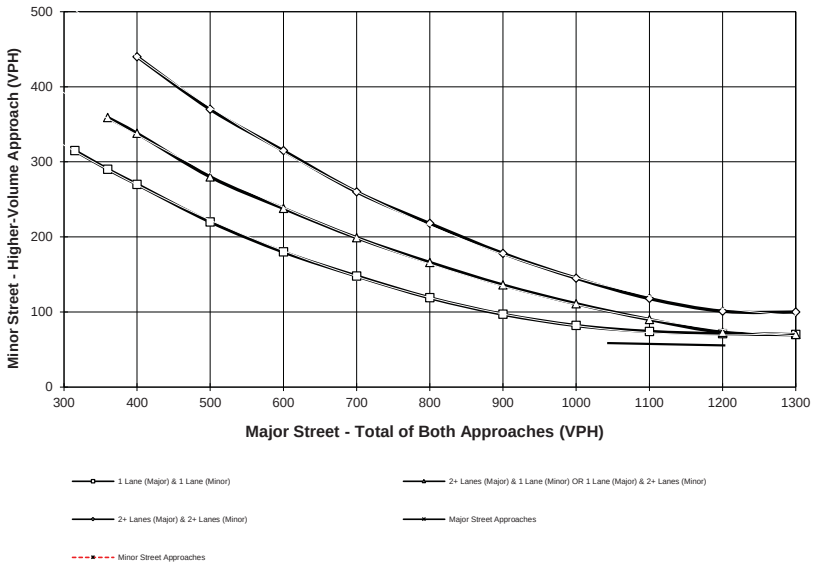
(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 64 km/h OR ABOVE 40 mph ON MAJOR STREET)

Traffic Conditions = **EAPC (2027) AM PEAK HOUR WARRANTS**

Major Street Name = **Ramona Rd.**
Total of Both Approaches (VPH) = **31**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Fresno Rd.**
High Volume Approach (VPH) = **3**
Number of Approach Lanes Minor Street = **1**

SIGNAL WARRANT NOT SATISFIED



*Note: 100 vph applies as the lower threshold for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold for a minor-street approach with one lane

Intersection ID: #2

F:\UXRjobs_15600_16000_16000\16091\02_LOS\Warrants\03 - EAPC\02R_AM.xls\Fig 4C-4 (Rural Peak)

California MUTCD 2016 Edition
(FHWA's MUTCD 2009, as amended for use in California)

Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

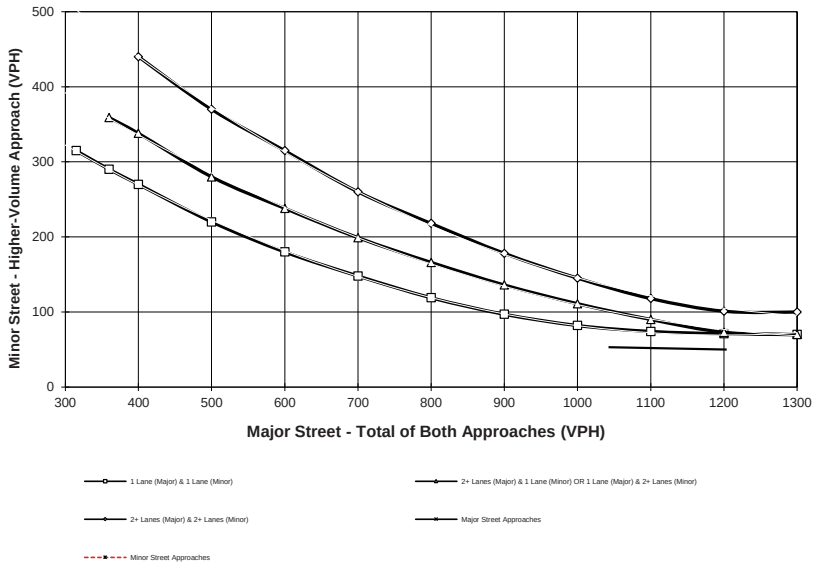
(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 64 km/h OR ABOVE 40 mph ON MAJOR STREET)

Traffic Conditions = **EAPC (2027) PM PEAK HOUR WARRANTS**

Major Street Name = **Ramona Rd.**
Total of Both Approaches (VPH) = **41**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Fresno Rd.**
High Volume Approach (VPH) = **4**
Number of Approach Lanes Minor Street = **1**

SIGNAL WARRANT NOT SATISFIED



*Note: 100 vph applies as the lower threshold for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold for a minor-street approach with one lane

Intersection ID: #2

F:\UXRjobs_15600_16000_16000\16091\02_LOS\Warrants\03 - EAPC\02R_PM.xls\Fig 4C-4 (Rural Peak)

Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

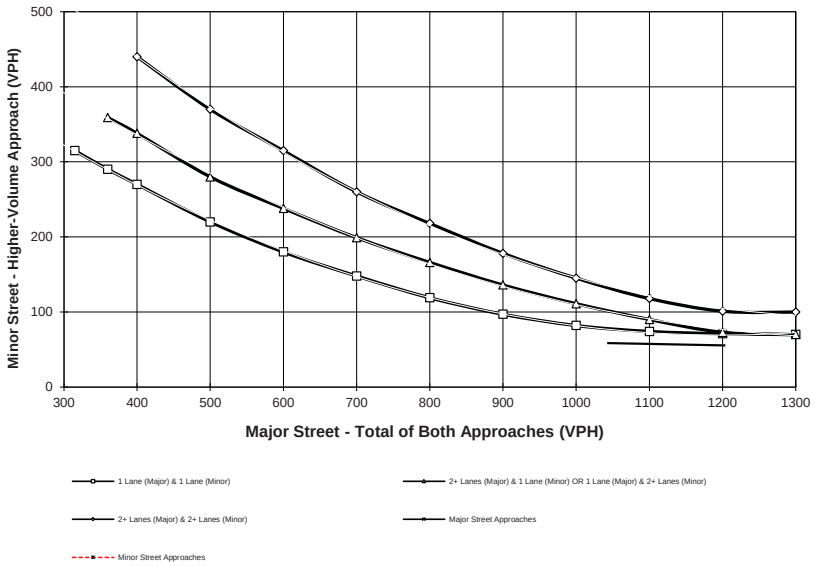
(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 64 km/h OR ABOVE 40 mph ON MAJOR STREET)

Traffic Conditions = **EAPC (2027) AM PEAK HOUR WARRANTS**

Major Street Name = **Navajo Rd.** Total of Both Approaches (VPH) = **50**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Altadena St.** High Volume Approach (VPH) = **21**
Number of Approach Lanes Minor Street = **1**

SIGNAL WARRANT NOT SATISFIED



*Note: 100 vph applies as the lower threshold for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold for a minor-street approach with one lane

Intersection ID: #3

F:\UXRjobs_15600_16000_16000\16091\02_LOS\Warrants\03 - EAPC\03R_AM.xls\Fig 4C-4 (Rural Peak)

California MUTCD 2016 Edition
(FHWA's MUTCD 2009, as amended for use in California)

Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

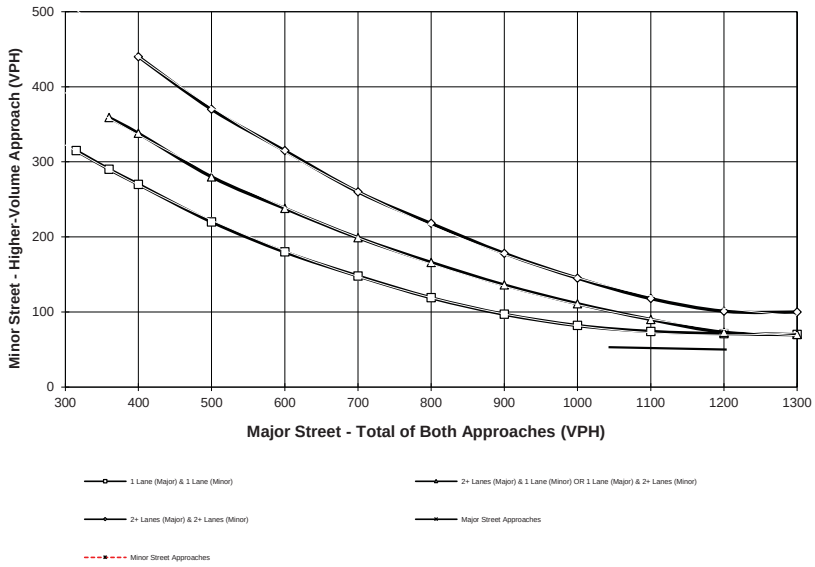
(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 64 km/h OR ABOVE 40 mph ON MAJOR STREET)

Traffic Conditions = **EAPC (2027) PM PEAK HOUR WARRANTS**

Major Street Name = **Altadena St.** Total of Both Approaches (VPH) = **72**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Navajo Rd.** High Volume Approach (VPH) = **45**
Number of Approach Lanes Minor Street = **1**

SIGNAL WARRANT NOT SATISFIED



*Note: 100 vph applies as the lower threshold for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold for a minor-street approach with one lane

Intersection ID: #3

F:\UXRjobs_15600_16000_16000\16091\02_LOS\Warrants\03 - EAPC\03R_PM.xls\Fig 4C-4 (Rural Peak)

Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

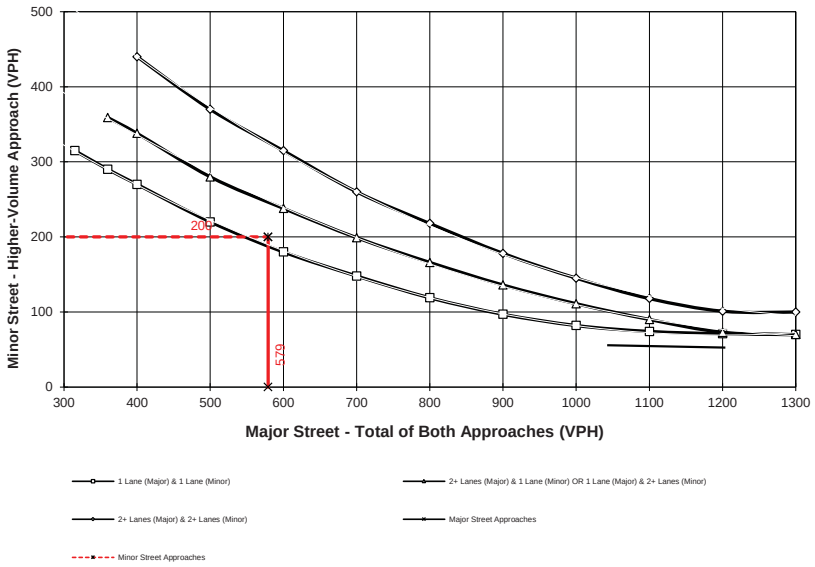
(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 64 km/h OR ABOVE 40 mph ON MAJOR STREET)

Traffic Conditions = **EAPC (2027) AM PEAK HOUR WARRANTS**

Major Street Name = **Dale Evans Pkwy.** Total of Both Approaches (VPH) = **579**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Corwin Rd.** High Volume Approach (VPH) = **200**
Number of Approach Lanes Minor Street = **1**

WARRANTED FOR A SIGNAL



*Note: 100 vph applies as the lower threshold for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold for a minor-street approach with one lane

Intersection ID: #10

F:\UXRjobs_15600_16000_16000\16091\02_LOS\Warrants\03 - EAPC\10R_AM.xls\Fig 4C-4 (Rural Peak)

California MUTCD 2016 Edition
(FHWA's MUTCD 2009, as amended for use in California)

Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

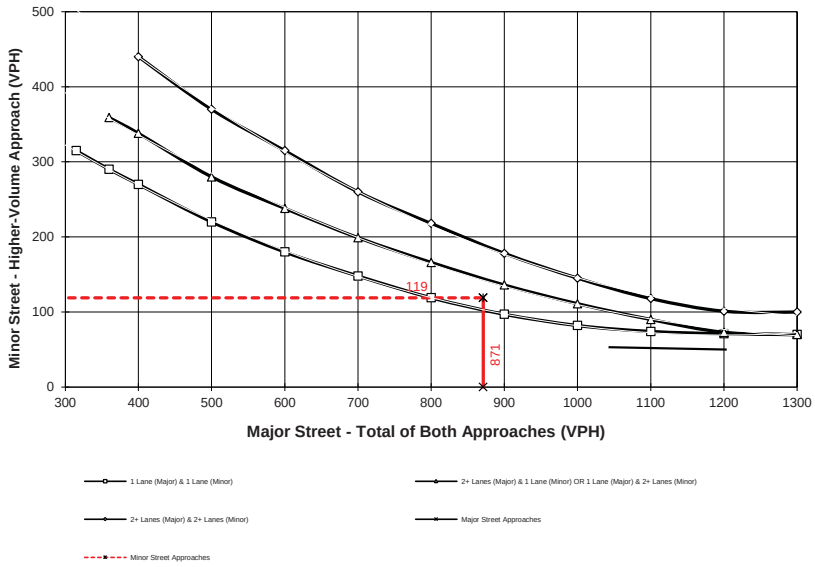
(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 64 km/h OR ABOVE 40 mph ON MAJOR STREET)

Traffic Conditions = **EAPC (2027) PM PEAK HOUR WARRANTS**

Major Street Name = **Dale Evans Pkwy.** Total of Both Approaches (VPH) = **871**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Corwin Rd.** High Volume Approach (VPH) = **119**
Number of Approach Lanes Minor Street = **1**

WARRANTED FOR A SIGNAL



*Note: 100 vph applies as the lower threshold for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold for a minor-street approach with one lane

Intersection ID: #10

F:\UXRjobs_15600_16000_16000\16091\02_LOS\Warrants\03 - EAPC\10R_PM.xls\Fig 4C-4 (Rural Peak)

Figure 4C-103 (CA). Traffic Signal Warrants Worksheet
(Average Traffic Estimate Form)

DIST	CO	RTE	PM	TRAFFIC CONDITIONS	EAPC (2027)
				CALC JC	DATE 10/07/24
				CHK	DATE

Jurisdiction: **Town of Apple Valley**

Major Street: **Dachshund Av.** — Critical Approach Speed (Major) 45 mph

Minor Street: **Gustine Rd.** — Critical Approach Speed (Minor) 35 mph

Major Street Approach Lanes = **1** lane — Minor Street Approach Lanes **1** lane

Major Street Future ADT = **1,091** vpd — Minor Street Future ADT = **190** vpd

Speed limit or critical speed on major street traffic > 64 km/h (40 mph); ……... [√]

or

In built up area of isolated community of < 10,000 population …….. [ ]

RURAL (R)

(Based on Estimated Average Daily Traffic - See Note)

URBAN / RURAL — XX

CONDITION A - Minimum Vehicular Volume

Satisfied / Not Satisfied — XX

Number of lanes for moving traffic on each approach

Major Street	Minor Street	Minimum Requirements ADT: Vehicles Per Day on Major Street (Total of Both Approaches) Urban	Rural	Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only) Urban	Rural
1 **1,091**	1 **190**	8,000	5,600	2,400	1,680
2 +	1	9,600	6,720	2,400	1,680
2 +	2 +	9,600	6,720	3,200	2,240
1	2 +	8,000	5,600	3,200	2,240

CONDITION B - Interruption of Continuous Traffic

Satisfied / Not Satisfied — XX

Number of lanes for moving traffic on each approach

Major Street	Minor Street	Vehicles Per Day on Major Street (Total of Both Approaches) Urban	Rural	Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only) Urban	Rural
1 **1,091**	1 **190**	12,000	8,400	1,200	850
2 +	1	14,400	10,080	1,200	850
2 +	2 +	14,400	10,080	1,600	1,120
1	2 +	12,000	8,400	1,600	1,120

Combination of CONDITIONS A + B

Satisfied / Not Satisfied — XX

No one condition satisfied, but following conditions fulfilled 80% of more ….. **A** 11% **B** 13%

2 CONDITIONS 80%

2 CONDITIONS 80%

Note: To be used only for NEW INTERSECTIONS or other locations where it is not reasonable to count actual traffic volumes.

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

Figure 4C-103 (CA). Traffic Signal Warrants Worksheet
(Average Traffic Estimate Form)

DIST	CO	RTE	PM	TRAFFIC CONDITIONS	EAPC (2027)
				CALC JC	DATE 10/07/24
				CHK	DATE

Jurisdiction: **Town of Apple Valley**

Major Street: **Dachshund Av.** — Critical Approach Speed (Major) 45 mph

Minor Street: **Access 1** — Critical Approach Speed (Minor) 35 mph

Major Street Approach Lanes = **1** lane — Minor Street Approach Lanes **1** lane

Major Street Future ADT = **888** vpd — Minor Street Future ADT = **321** vpd

Speed limit or critical speed on major street traffic > 64 km/h (40 mph); ……... [√]

or

In built up area of isolated community of < 10,000 population …….. [ ]

RURAL (R)

(Based on Estimated Average Daily Traffic - See Note)

URBAN / RURAL — XX

CONDITION A - Minimum Vehicular Volume

Satisfied / Not Satisfied — XX

Number of lanes for moving traffic on each approach

Major Street	Minor Street	Minimum Requirements ADT: Vehicles Per Day on Major Street (Total of Both Approaches) Urban	Rural	Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only) Urban	Rural
1 **888**	1 **321**	8,000	5,600	2,400	1,680
2 +	1	9,600	6,720	2,400	1,680
2 +	2 +	9,600	6,720	3,200	2,240
1	2 +	8,000	5,600	3,200	2,240

CONDITION B - Interruption of Continuous Traffic

Satisfied / Not Satisfied — XX

Number of lanes for moving traffic on each approach

Major Street	Minor Street	Vehicles Per Day on Major Street (Total of Both Approaches) Urban	Rural	Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only) Urban	Rural
1 **888**	1 **321**	12,000	8,400	1,200	850
2 +	1	14,400	10,080	1,200	850
2 +	2 +	14,400	10,080	1,600	1,120
1	2 +	12,000	8,400	1,600	1,120

Combination of CONDITIONS A + B

Satisfied / Not Satisfied — XX

No one condition satisfied, but following conditions fulfilled 80% of more ….. **A** 16% **B** 11%

2 CONDITIONS 80%

2 CONDITIONS 80%

Note: To be used only for NEW INTERSECTIONS or other locations where it is not reasonable to count actual traffic volumes.

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

Figure 4C-103 (CA). Traffic Signal Warrants Worksheet
(Average Traffic Estimate Form)

DIST	CO	RTE	PM	TRAFFIC CONDITIONS	EAPC (2027)
				CALC JC	DATE 10/07/24
				CHK	DATE

Jurisdiction: **Town of Apple Valley**

Major Street: **Dachshund Av.** — Critical Approach Speed (Major) 45 mph

Minor Street: **Access 2** — Critical Approach Speed (Minor) 35 mph

Major Street Approach Lanes = **1** lane — Minor Street Approach Lanes **1** lane

Major Street Future ADT = **1,028** vpd — Minor Street Future ADT = **321** vpd

Speed limit or critical speed on major street traffic > 64 km/h (40 mph); ……... [√]

or

In built up area of isolated community of < 10,000 population …….. [ ]

RURAL (R)

(Based on Estimated Average Daily Traffic - See Note)

URBAN / RURAL: XX

CONDITION A - Minimum Vehicular Volume

Satisfied / Not Satisfied: XX

Number of lanes for moving traffic on each approach

Major Street	Minor Street	Minimum Requirements ADT: Vehicles Per Day on Major Street (Total of Both Approaches) Urban	Rural	Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only) Urban	Rural
1 **1,028**	1 **321**	8,000	5,600	2,400	1,680
2 +	1	9,600	6,720	2,400	1,680
2 +	2 +	9,600	6,720	3,200	2,240
1	2 +	8,000	5,600	3,200	2,240

CONDITION B - Interruption of Continuous Traffic

Satisfied / Not Satisfied: XX

Number of lanes for moving traffic on each approach

Major Street	Minor Street	Vehicles Per Day on Major Street (Total of Both Approaches) Urban	Rural	Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only) Urban	Rural
1 **1,028**	1 **321**	12,000	8,400	1,200	850
2 +	1	14,400	10,080	1,200	850
2 +	2 +	14,400	10,080	1,600	1,120
1	2 +	12,000	8,400	1,600	1,120

Combination of CONDITIONS A + B

Satisfied / Not Satisfied: XX

No one condition satisfied, but following conditions fulfilled 80% of more ….. **A** 18% **B** 12%

2 CONDITIONS 80%

2 CONDITIONS 80%

Note: To be used only for NEW INTERSECTIONS or other locations where it is not reasonable to count actual traffic volumes.

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

Figure 4C-103 (CA). Traffic Signal Warrants Worksheet
(Average Traffic Estimate Form)

DIST	CO	RTE	PM	TRAFFIC CONDITIONS	EAPC (2027)
				CALC JC	DATE 10/07/24
Jurisdiction: **Town of Apple Valley**				CHK	DATE
Major Street: **Dachshund Av.**				Critical Approach Speed (Major)	45 mph
Minor Street: **Fresno Rd.**				Critical Approach Speed (Minor)	35 mph

Major Street Approach Lanes = **1** lane Minor Street Approach Lanes **1** lane

Major Street Future ADT = **1,181** vpd Minor Street Future ADT = **0** vpd

Speed limit or critical speed on major street traffic > 64 km/h (40 mph); …….. √

or

In built up area of isolated community of < 10,000 population ……..

RURAL (R)

(Based on Estimated Average Daily Traffic - See Note)

URBAN RURAL
XX

CONDITION A - Minimum Vehicular Volume

Satisfied Not Satisfied
XX

Number of lanes for moving traffic on each approach

Major Street	Minor Street	Minimum Requirements ADT: Vehicles Per Day on Major Street (Total of Both Approaches) Urban	Rural	Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only) Urban	Rural
1 **1,181**	*1* **0**	8,000	5,600	2,400	1,680
2 +	*1*	9,600	6,720	2,400	1,680
2 +	*2* +	9,600	6,720	3,200	2,240
1	*2* +	8,000	5,600	3,200	2,240

CONDITION B - Interruption of Continuous Traffic

Satisfied Not Satisfied
XX

Number of lanes for moving traffic on each approach

Major Street	Minor Street	Vehicles Per Day on Major Street (Total of Both Approaches) Urban	Rural	Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only) Urban	Rural
1 **1,181**	*1* **0**	12,000	8,400	1,200	850
2 +	*1*	14,400	10,080	1,200	850
2 +	*2* +	14,400	10,080	1,600	1,120
1	*2* +	12,000	8,400	1,600	1,120

Combination of CONDITIONS A + B

Satisfied Not Satisfied
XX

No one condition satisfied, but following conditions fulfilled 80% of more ….. **A** 21% **B** 14%

2 CONDITIONS 80% 2 CONDITIONS 80%

Note: To be used only for NEW INTERSECTIONS or other locations where it is not reasonable to count actual traffic volumes.

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

Figure 4C-103 (CA). Traffic Signal Warrants Worksheet
(Average Traffic Estimate Form)

DIST	CO	RTE	PM	TRAFFIC CONDITIONS	EAPC (2027)
				CALC JC	DATE 10/07/24
				CHK	DATE

Jurisdiction: **Town of Apple Valley**

Major Street: **Ramona Rd.** — Critical Approach Speed (Major) 45 mph

Minor Street: **Gustine Rd.** — Critical Approach Speed (Minor) 35 mph

Major Street Approach Lanes = **1** lane — Minor Street Approach Lanes **1** lane

Major Street Future ADT = **190** vpd — Minor Street Future ADT = **190** vpd

Speed limit or critical speed on major street traffic > 64 km/h (40 mph); ……... [√]

or **RURAL (R)**

In built up area of isolated community of < 10,000 population …….. [ ]

(Based on Estimated Average Daily Traffic - See Note)

URBAN / RURAL	Number of lanes for moving traffic on each approach: Major Street	Minor Street	Minimum Requirements ADT: Vehicles Per Day on Major Street (Total of Both Approaches) Urban	Rural	Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only) Urban	Rural
CONDITION A - Minimum Vehicular Volume						
Satisfied / Not Satisfied XX						
	1 **190**	*1* **190**	8,000	5,600	2,400	1,680
	2 +	*1*	9,600	6,720	2,400	1,680
	2 +	*2* +	9,600	6,720	3,200	2,240
	1	*2* +	8,000	5,600	3,200	2,240
CONDITION B - Interruption of Continuous Traffic						
Satisfied / Not Satisfied XX						
	1 **190**	*1* **190**	12,000	8,400	1,200	850
	2 +	*1*	14,400	10,080	1,200	850
	2 +	*2* +	14,400	10,080	1,600	1,120
	1	*2* +	12,000	8,400	1,600	1,120
Combination of CONDITIONS A + B						
Satisfied / Not Satisfied XX			2 CONDITIONS 80%		2 CONDITIONS 80%	
No one condition satisfied, but following conditions fulfilled 80% of more …..	**A** 3%	**B** 2%				

Note: To be used only for NEW INTERSECTIONS or other locations where it is not reasonable to count actual traffic volumes.

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

Figure 4C-103 (CA). Traffic Signal Warrants Worksheet
(Average Traffic Estimate Form)

DIST	CO	RTE	PM	TRAFFIC CONDITIONS	EAPC (2027)
				CALC JC	DATE 10/07/24
				CHK	DATE

Jurisdiction: **Town of Apple Valley**
Major Street: **Ramona Rd.** — Critical Approach Speed (Major) 45 mph
Minor Street: **Access 3** — Critical Approach Speed (Minor) 35 mph

Major Street Approach Lanes = **1** lane — Minor Street Approach Lanes **1** lane

Major Street Future ADT = **273** vpd — Minor Street Future ADT = **213** vpd

Speed limit or critical speed on major street traffic > 64 km/h (40 mph); ……... [√]

or **RURAL (R)**

In built up area of isolated community of < 10,000 population …….. [ ]

(Based on Estimated Average Daily Traffic - See Note)

URBAN	RURAL	Minimum Requirements ADT			
	XX				
CONDITION A - Minimum Vehicular Volume		Vehicles Per Day on Major Street (Total of Both Approaches)		Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only)	
Satisfied	Not Satisfied XX				
Number of lanes for moving traffic on each approach					
Major Street	Minor Street	Urban	Rural	Urban	Rural
1 **273**	*1* **213**	8,000	5,600	2,400	1,680
2 +	*1*	9,600	6,720	2,400	1,680
2 +	*2* +	9,600	6,720	3,200	2,240
1	*2* +	8,000	5,600	3,200	2,240
CONDITION B - Interruption of Continuous Traffic		Vehicles Per Day on Major Street (Total of Both Approaches)		Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only)	
Satisfied	Not Satisfied XX				
Number of lanes for moving traffic on each approach					
Major Street	Minor Street	Urban	Rural	Urban	Rural
1 **273**	*1* **213**	12,000	8,400	1,200	850
2 +	*1*	14,400	10,080	1,200	850
2 +	*2* +	14,400	10,080	1,600	1,120
1	*2* +	12,000	8,400	1,600	1,120
Combination of CONDITIONS A + B					
Satisfied	Not Satisfied XX	2 CONDITIONS 80%		2 CONDITIONS 80%	
No one condition satisfied, but following conditions fulfilled 80% of more …..	**A** 5% **B** 3%				

Note: To be used only for NEW INTERSECTIONS or other locations where it is not reasonable to count actual traffic volumes.

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

Figure 4C-103 (CA). Traffic Signal Warrants Worksheet
(Average Traffic Estimate Form)

DIST	CO	RTE	PM	TRAFFIC CONDITIONS	EAPC (2027)
				CALC JC	DATE 10/07/24
				CHK	DATE

Jurisdiction: **Town of Apple Valley**

Major Street: **Ramona Rd.** — Critical Approach Speed (Major) 45 mph

Minor Street: **Access 4** — Critical Approach Speed (Minor) 35 mph

Major Street Approach Lanes = **1** lane — Minor Street Approach Lanes **1** lane

Major Street Future ADT = **320** vpd — Minor Street Future ADT = **214** vpd

Speed limit or critical speed on major street traffic > 64 km/h (40 mph); ……... [√]

or **RURAL (R)**

In built up area of isolated community of < 10,000 population …….. [ ]

(Based on Estimated Average Daily Traffic - See Note)

URBAN / RURAL: XX

CONDITION A - Minimum Vehicular Volume

Satisfied / Not Satisfied: XX

Number of lanes for moving traffic on each approach

Major Street	Minor Street	Minimum Requirements ADT: Vehicles Per Day on Major Street (Total of Both Approaches) Urban	Rural	Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only) Urban	Rural
1 **320**	*1* **214**	8,000	5,600	2,400	1,680
2 +	*1*	9,600	6,720	2,400	1,680
2 +	*2* +	9,600	6,720	3,200	2,240
1	*2* +	8,000	5,600	3,200	2,240

CONDITION B - Interruption of Continuous Traffic

Satisfied / Not Satisfied: XX

Number of lanes for moving traffic on each approach

Major Street	Minor Street	Vehicles Per Day on Major Street (Total of Both Approaches) Urban	Rural	Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only) Urban	Rural
1 **320**	*1* **214**	12,000	8,400	1,200	850
2 +	*1*	14,400	10,080	1,200	850
2 +	*2* +	14,400	10,080	1,600	1,120
1	*2* +	12,000	8,400	1,600	1,120

Combination of CONDITIONS A + B

Satisfied / Not Satisfied: XX

No one condition satisfied, but following conditions fulfilled 80% of more ….. **A** 6% **B** 4%

2 CONDITIONS 80% (Urban) — 2 CONDITIONS 80% (Rural)

Note: To be used only for NEW INTERSECTIONS or other locations where it is not reasonable to count actual traffic volumes.

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

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APPENDIX 5.5: OPENING YEAR CUMULATIVE (2027) WITHOUT PROJECT CONDITIONS OFF-RAMP QUEUEING ANALYSIS WORKSHEETS

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Intersection	
Int Delay, s/veh	1562

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	10	87	85	25	614	56	7	48	45	1354	0	23
Future Vol, veh/h	10	87	85	25	614	56	7	48	45	1354	0	23
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	96	96	96	96	96	96	96	96	96	96	96	96
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	10	91	89	26	640	58	7	50	47	1410	0	24

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	698	0	0	179	0	0	847	906	135	857	921	669
Stage 1	-	-	-	-	-	-	156	156	-	721	721	-
Stage 2	-	-	-	-	-	-	692	750	-	136	200	-
Critical Hdwy	4.1	-	-	4.1	-	-	7.1	6.5	6.2	7.1	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Follow-up Hdwy	2.2	-	-	2.2	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	908	-	-	1409	-	-	284	278	919	~ 280	273	461
Stage 1	-	-	-	-	-	-	851	773	-	~ 422	435	-
Stage 2	-	-	-	-	-	-	438	422	-	~ 872	739	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	908	-	-	1409	-	-	258	266	919	~ 208	261	461
Mov Cap-2 Maneuver	-	-	-	-	-	-	258	266	-	~ 208	261	-
Stage 1	-	-	-	-	-	-	840	763	-	~ 409	422	-
Stage 2	-	-	-	-	-	-	402	409	-	~ 763	730	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	0.5	0.27	17.56	$ 2668.72
HCM LOS			C	F

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	390	90	-	-	64	-	-	210
HCM Lane V/C Ratio	0.267	0.011	-	-	0.018	-	-	6.837
HCM Control Delay (s/veh)	17.6	9	0	-	7.6	0	-	$ 2668.7
HCM Lane LOS	C	A	A	-	A	A	-	F
HCM 95th %tile Q(veh)	1.1	0	-	-	0.1	-	-	156.5

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon

Intersection	
Int Delay, s/veh	2.6

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	145	1	1	587	1	2
Future Vol, veh/h	145	1	1	587	1	2
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	79	79	79	79	79	79
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	184	1	1	743	1	3

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	378	373	0	0	744	0
Stage 1	373	-	-	-	-	-
Stage 2	5	-	-	-	-	-
Critical Hdwy	6.4	6.2	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	628	678	-	-	873	-
Stage 1	701	-	-	-	-	-
Stage 2	1023	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	627	678	-	-	873	-
Mov Cap-2 Maneuver	627	-	-	-	-	-
Stage 1	701	-	-	-	-	-
Stage 2	1022	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v	13.12	0	3.04
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	627	600	-
HCM Lane V/C Ratio	-	-	0.295	0.001	-
HCM Control Delay (s/veh)	-	-	13.1	9.1	0
HCM Lane LOS	-	-	B	A	A
HCM 95th %tile Q(veh)	-	-	1.2	0	-

Intersection	
Int Delay, s/veh	12514

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	5	93	69	49	1484	61	4	79	39	889	0	20
Future Vol, veh/h	5	93	69	49	1484	61	4	79	39	889	0	20
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	68	68	68	68	68	68	68	68	68	68	68	68
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	7	137	101	72	2182	90	6	116	57	1307	0	29

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	2272	0	0	238	0	0	2529	2618	188	2581	2624	2227
Stage 1	-	-	-	-	-	-	202	202	-	2371	2371	-
Stage 2	-	-	-	-	-	-	2326	2416	-	210	253	-
Critical Hdwy	4.1	-	-	4.1	-	-	7.1	6.5	6.2	7.1	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Follow-up Hdwy	2.2	-	-	2.2	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	228	-	-	1341	-	-	19	~ 25	860	~ 17	24	55
Stage 1	-	-	-	-	-	-	804	738	-	~ 47	68	-
Stage 2	-	-	-	-	-	-	50	~ 65	-	~ 797	701	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	228	-	-	1341	-	-	8	~ 24	860	~ 16	23	55
Mov Cap-2 Maneuver	-	-	-	-	-	-	8	~ 24	-	~ 16	23	-
Stage 1	-	-	-	-	-	-	774	710	-	~ 47	68	-
Stage 2	-	-	-	-	-	-	24	~ 65	-	~ 599	675	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	0.64	0.24	$ 2358.55	$ 38119.68
HCM LOS			F	F

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	32	50	-	-	~ 55	-	-	16
HCM Lane V/C Ratio	5.687	0.032	-	-	0.054	-	-	84.683
HCM Control Delay (s/veh)	$ 2358.6	21.3	0	-	7.8	0	-	$ 38119.7
HCM Lane LOS	F	C	A	-	A	A	-	F
HCM 95th %tile Q(veh)	21.6	0.1	-	-	0.2	-	-	168.1

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon

Intersection	
Int Delay, s/veh	20.3

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	132	1	1	1460	1	1
Future Vol, veh/h	132	1	1	1460	1	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	56	56	56	56	56	56
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	236	2	2	2607	2	2

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	1311	1305	0	0	2609	0
Stage 1	1305	-	-	-	-	-
Stage 2	5	-	-	-	-	-
Critical Hdwy	6.4	6.2	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	~ 177	198	-	-	168	-
Stage 1	256	-	-	-	-	-
Stage 2	1023	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	~ 175	198	-	-	168	-
Mov Cap-2 Maneuver	~ 175	-	-	-	-	-
Stage 1	256	-	-	-	-	-
Stage 2	1012	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/veh	242.95	0	13.35
HCM LOS	F		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	175	168	-
HCM Lane V/C Ratio	-	-	1.355	0.011	-
HCM Control Delay (s/veh)	-	-	242.9	26.7	0
HCM Lane LOS	-	-	F	D	A
HCM 95th %tile Q(veh)	-	-	14.1	0	-

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon

APPENDIX 5.6: OPENING YEAR CUMULATIVE (2027) WITH PROJECT CONDITIONS OFF-RAMP QUEUEING ANALYSIS WORKSHEETS

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Intersection	
Int Delay, s/veh	1693.2

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	10	87	85	25	629	56	7	48	45	1401	0	23
Future Vol, veh/h	10	87	85	25	629	56	7	48	45	1401	0	23
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	96	96	96	96	96	96	96	96	96	96	96	96
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	10	91	89	26	655	58	7	50	47	1459	0	24

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	714	0	0	179	0	0	863	921	135	873	936	684
Stage 1	-	-	-	-	-	-	156	156	-	736	736	-
Stage 2	-	-	-	-	-	-	707	766	-	136	200	-
Critical Hdwy	4.1	-	-	4.1	-	-	7.1	6.5	6.2	7.1	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Follow-up Hdwy	2.2	-	-	2.2	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	896	-	-	1409	-	-	277	272	919	~ 273	267	452
Stage 1	-	-	-	-	-	-	851	773	-	~ 414	428	-
Stage 2	-	-	-	-	-	-	429	415	-	~ 872	739	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	896	-	-	1409	-	-	251	261	919	~ 202	255	452
Mov Cap-2 Maneuver	-	-	-	-	-	-	251	261	-	~ 202	255	-
Stage 1	-	-	-	-	-	-	840	762	-	~ 401	415	-
Stage 2	-	-	-	-	-	-	394	402	-	~ 763	730	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	0.5	0.27	17.87	$ 2871.26
HCM LOS			C	F

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	383	90	-	-	62	-	-	204
HCM Lane V/C Ratio	0.272	0.012	-	-	0.018	-	-	7.285
HCM Control Delay (s/veh)	17.9	9.1	0	-	7.6	0	-	$ 2871.3
HCM Lane LOS	C	A	A	-	A	A	-	F
HCM 95th %tile Q(veh)	1.1	0	-	-	0.1	-	-	163.4

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon

Intersection	
Int Delay, s/veh	2.6

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	145	1	1	602	1	2
Future Vol, veh/h	145	1	1	602	1	2
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	79	79	79	79	79	79
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	184	1	1	762	1	3

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	387	382	0	0	763	0
Stage 1	382	-	-	-	-	-
Stage 2	5	-	-	-	-	-
Critical Hdwy	6.4	6.2	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	620	669	-	-	858	-
Stage 1	694	-	-	-	-	-
Stage 2	1023	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	619	669	-	-	858	-
Mov Cap-2 Maneuver	619	-	-	-	-	-
Stage 1	694	-	-	-	-	-
Stage 2	1022	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v	13.26	0	3.07
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	619	600	-
HCM Lane V/C Ratio	-	-	0.298	0.001	-
HCM Control Delay (s/veh)	-	-	13.3	9.2	0
HCM Lane LOS	-	-	B	A	A
HCM 95th %tile Q(veh)	-	-	1.2	0	-

Intersection	
Int Delay, s/veh	14907.8

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	5	93	69	49	1544	61	4	79	39	913	0	20
Future Vol, veh/h	5	93	69	49	1544	61	4	79	39	913	0	20
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	68	68	68	68	68	68	68	68	68	68	68	68
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	7	137	101	72	2271	90	6	116	57	1343	0	29

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	2360	0	0	238	0	0	2617	2707	188	2669	2713	2315
Stage 1	-	-	-	-	-	-	202	202	-	2460	2460	-
Stage 2	-	-	-	-	-	-	2415	2504	-	210	253	-
Critical Hdwy	4.1	-	-	4.1	-	-	7.1	6.5	6.2	7.1	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Follow-up Hdwy	2.2	-	-	2.2	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	210	-	-	1341	-	-	16	~ 21	860	~ 15	21	49
Stage 1	-	-	-	-	-	-	804	738	-	~ 42	61	-
Stage 2	-	-	-	-	-	-	45	~ 58	-	~ 797	701	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	210	-	-	1341	-	-	6	~ 21	860	~ 13	20	49
Mov Cap-2 Maneuver	-	-	-	-	-	-	6	~ 21	-	~ 13	20	-
Stage 1	-	-	-	-	-	-	771	708	-	~ 42	61	-
Stage 2	-	-	-	-	-	-	18	~ 58	-	~ 596	673	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	0.68	0.23	$ 2831.17	$ 45582.89
HCM LOS			F	F

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	27	50	-	-	~ 53	-	-	14
HCM Lane V/C Ratio	6.654	0.035	-	-	0.054	-	-	101.103
HCM Control Delay (s/veh)	$ 2831.2	22.7	0	-	7.8	0	-	$ 45582.9
HCM Lane LOS	F	C	A	-	A	A	-	F
HCM 95th %tile Q(veh)	22.1	0.1	-	-	0.2	-	-	172.8

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon

Intersection	
Int Delay, s/veh	23.3

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	132	1	1	1520	1	1
Future Vol, veh/h	132	1	1	1520	1	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	56	56	56	56	56	56
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	236	2	2	2714	2	2

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	1364	1359	0	0	2716	0
Stage 1	1359	-	-	-	-	-
Stage 2	5	-	-	-	-	-
Critical Hdwy	6.4	6.2	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	~ 164	184	-	-	152	-
Stage 1	241	-	-	-	-	-
Stage 2	1023	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	~ 162	184	-	-	152	-
Mov Cap-2 Maneuver	~ 162	-	-	-	-	-
Stage 1	241	-	-	-	-	-
Stage 2	1011	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/veh	$290.34	0	14.47
HCM LOS	F		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	162	152	-
HCM Lane V/C Ratio	-	-	1.462	0.012	-
HCM Control Delay (s/veh)	-	-	290.3	28.9	0
HCM Lane LOS	-	-	F	D	A
HCM 95th %tile Q(veh)	-	-	15.2	0	-

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon

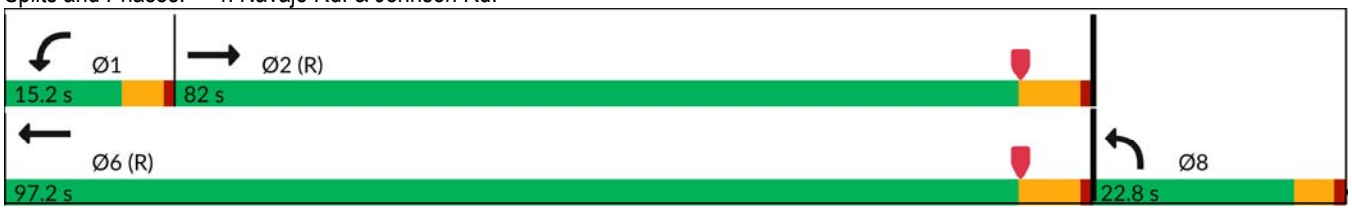
APPENDIX 5.7: OPENING YEAR CUMULATIVE (2027) WITH PROJECT CONDITIONS INTERSECTION OPERATIONS ANALYSIS WORKSHEETS WITH IMPROVEMENTS

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Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	1128	265	65	391	103	13
Future Volume (vph)	1128	265	65	391	103	13
Ideal Flow (vphpl)	1800	1800	1700	1800	1700	1800
Storage Length (ft)		0	150		200	0
Storage Lanes		0	1		1	0
Taper Length (ft)			90		90	
Right Turn on Red		Yes				Yes
Link Speed (mph)	45			45	55	
Link Distance (ft)	5327			1835	6664	
Travel Time (s)	80.7			27.8	82.6	
Peak Hour Factor	0.76	0.76	0.76	0.76	0.76	0.76
Shared Lane Traffic (%)						
Turn Type	NA		Prot	NA	Prot	
Protected Phases	2		1	6	8	
Permitted Phases						
Detector Phase	2		1	6	8	
Switch Phase						
Minimum Initial (s)	10.0		5.0	10.0	5.0	
Minimum Split (s)	24.5		9.6	24.5	22.6	
Total Split (s)	82.0		15.2	97.2	22.8	
Total Split (%)	68.3%		12.7%	81.0%	19.0%	
Maximum Green (s)	75.5		10.6	90.7	18.2	
Yellow Time (s)	5.5		3.6	5.5	3.6	
All-Red Time (s)	1.0		1.0	1.0	1.0	
Lost Time Adjust (s)	0.0		0.0	0.0	0.0	
Total Lost Time (s)	6.5		4.6	6.5	4.6	
Lead/Lag	Lag		Lead			
Lead-Lag Optimize?	Yes		Yes			
Vehicle Extension (s)	3.0		2.0	3.0	2.0	
Recall Mode	C-Max		None	C-Max	None	
Walk Time (s)	7.0			7.0	7.0	
Flash Don't Walk (s)	11.0			11.0	11.0	
Pedestrian Calls (#/hr)	10			10	10	

Intersection Summary	
Area Type:	Other
Cycle Length: 120	
Actuated Cycle Length: 120	
Offset: 14.7 (12%), Referenced to phase 2:EBT and 6:WBT, Start of Yellow	
Natural Cycle: 90	
Control Type: Actuated-Coordinated	

Splits and Phases: 4: Navajo Rd. & Johnson Rd.



Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	1128	265	65	391	103	13
Future Volume (veh/h)	1128	265	65	391	103	13
Initial Q (Qb), veh	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)		1.00	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1800	1800	1700	1800	1700	1800
Adj Flow Rate, veh/h	1484	217	86	514	146	0
Peak Hour Factor	0.76	0.76	0.76	0.76	0.76	0.76
Percent Heavy Veh, %	0	0	0	0	0	0
Cap, veh/h	2226	321	106	1522	200	94
Arrive On Green	0.74	0.74	0.07	0.85	0.06	0.00
Sat Flow, veh/h	3090	433	1619	1800	3238	1525
Grp Volume(v), veh/h	837	864	86	514	146	0
Grp Sat Flow(s),veh/h/ln	1710	1722	1619	1800	1619	1525
Q Serve(g_s), s	29.7	31.2	6.3	7.4	5.3	0.0
Cycle Q Clear(g_c), s	29.7	31.2	6.3	7.4	5.3	0.0
Prop In Lane		0.25	1.00		1.00	1.00
Lane Grp Cap(c), veh/h	1269	1278	106	1522	200	94
V/C Ratio(X)	0.66	0.68	0.81	0.34	0.73	0.00
Avail Cap(c_a), veh/h	1269	1278	143	1522	491	231
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.09	0.09	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	7.8	8.0	55.4	2.0	55.3	0.0
Incr Delay (d2), s/veh	0.2	0.3	16.5	0.6	1.9	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	8.4	8.9	3.0	1.4	2.1	0.0
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	8.1	8.3	71.9	2.6	57.2	0.0
LnGrp LOS	A	A	E	A	E	
Approach Vol, veh/h	1701			600	146	
Approach Delay, s/veh	8.2			12.5	57.2	
Approach LOS	A			B	E	

Timer - Assigned Phs	1	2				6	8
Phs Duration (G+Y+Rc), s	12.4	95.6				108.0	12.0
Change Period (Y+Rc), s	4.6	6.5				6.5	4.6
Max Green Setting (Gmax), s	10.6	75.5				90.7	18.2
Max Q Clear Time (g_c+I1), s	8.3	33.2				9.4	7.3
Green Ext Time (p_c), s	0.0	17.3				3.3	0.2

Intersection Summary	
HCM 7th Control Delay, s/veh	12.2
HCM 7th LOS	B

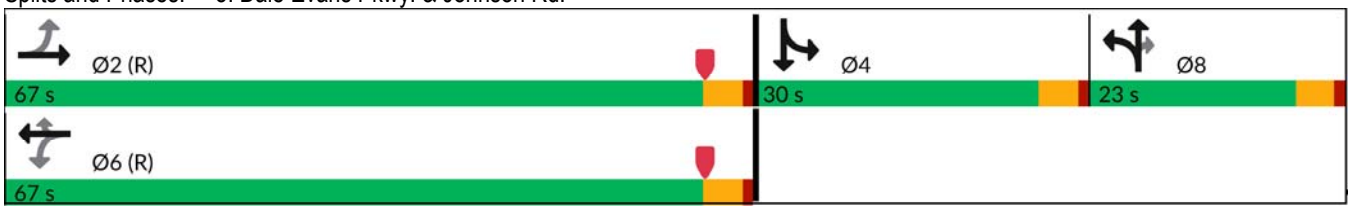
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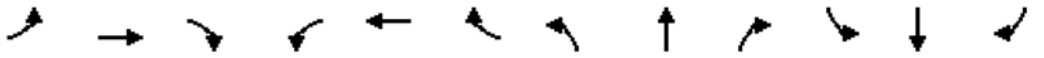
User approved volume balancing among the lanes for turning movement.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	17	1232	116	91	452	176	55	151	282	406	93	7
Future Volume (vph)	17	1232	116	91	452	176	55	151	282	406	93	7
Ideal Flow (vphpl)	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Storage Length (ft)	150		0	300		165	100		150	325		0
Storage Lanes	1		0	1		1	1		1	1		0
Taper Length (ft)	90			120			90			90		
Right Turn on Red			Yes			Yes			Yes			Yes
Link Speed (mph)		45			45			55			55	
Link Distance (ft)		7616			5327			4005			1074	
Travel Time (s)		115.4			80.7			49.6			13.3	
Peak Hour Factor	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81
Shared Lane Traffic (%)												
Turn Type	Perm	NA		Perm	NA	Perm	Split	NA	Perm	Split	NA	
Protected Phases		2			6		8	8		4	4	
Permitted Phases	2			6		6			8			
Detector Phase	2	2		6	6	6	8	8	8	4	4	
Switch Phase												
Minimum Initial (s)	10.0	10.0		10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	
Minimum Split (s)	22.5	22.5		22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	
Total Split (s)	67.0	67.0		67.0	67.0	67.0	23.0	23.0	23.0	30.0	30.0	
Total Split (%)	55.8%	55.8%		55.8%	55.8%	55.8%	19.2%	19.2%	19.2%	25.0%	25.0%	
Maximum Green (s)	62.5	62.5		62.5	62.5	62.5	18.5	18.5	18.5	25.5	25.5	
Yellow Time (s)	3.5	3.5		3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	
All-Red Time (s)	1.0	1.0		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Lost Time Adjust (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total Lost Time (s)	4.5	4.5		4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	
Lead/Lag												
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	
Recall Mode	C-Max	C-Max		C-Max	C-Max	C-Max	Max	Max	Max	Max	Max	
Walk Time (s)	7.0	7.0		7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	
Flash Don't Walk (s)	11.0	11.0		11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	
Pedestrian Calls (#/hr)	0	0		0	0	0	0	0	0	0	0	

Intersection Summary	
Area Type:	Other
Cycle Length: 120	
Actuated Cycle Length: 120	
Offset: 0 (0%), Referenced to phase 2:EBTL and 6:WBTL, Start of Yellow	
Natural Cycle: 110	
Control Type: Actuated-Coordinated	

Splits and Phases: 5: Dale Evans Pkwy. & Johnson Rd.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	17	1232	116	91	452	176	55	151	282	406	93	7
Future Volume (veh/h)	17	1232	116	91	452	176	55	151	282	406	93	7
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	21	1521	81	112	558	118	68	186	175	501	115	9
Peak Hour Factor	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	388	1720	91	115	1781	794	250	527	235	344	683	53
Arrive On Green	0.78	0.78	0.78	0.78	0.78	0.78	0.23	0.31	0.23	0.43	0.32	0.32
Sat Flow, veh/h	693	3303	175	288	3420	1525	1619	3420	1525	1619	3216	249
Grp Volume(v), veh/h	21	785	817	112	558	118	68	186	175	501	61	63
Grp Sat Flow(s),veh/h/ln	693	1710	1768	288	1710	1525	1619	1710	1525	1619	1710	1755
Q Serve(g_s), s	1.1	38.6	39.6	22.9	5.7	2.3	4.1	5.1	12.8	25.5	3.1	3.1
Cycle Q Clear(g_c), s	6.8	38.6	39.6	62.5	5.7	2.3	4.1	5.1	12.8	25.5	3.1	3.1
Prop In Lane	1.00		0.10	1.00		1.00	1.00		1.00	1.00		0.14
Lane Grp Cap(c), veh/h	388	891	921	115	1781	794	250	527	235	344	363	373
V/C Ratio(X)	0.05	0.88	0.89	0.97	0.31	0.15	0.27	0.35	0.74	1.46	0.17	0.17
Avail Cap(c_a), veh/h	388	891	921	115	1781	794	250	527	235	344	363	373
HCM Platoon Ratio	1.50	1.50	1.50	1.50	1.50	1.50	1.50	2.00	1.50	2.00	1.50	1.50
Upstream Filter(I)	0.09	0.09	0.09	0.93	0.93	0.93	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	7.9	10.5	10.6	38.7	6.9	6.5	40.6	36.9	43.9	34.5	33.2	33.3
Incr Delay (d2), s/veh	0.0	1.3	1.4	74.0	0.4	0.4	2.7	1.8	19.1	220.8	1.0	1.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	5.9	6.2	5.5	1.8	0.8	1.7	2.1	5.5	27.8	1.3	1.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	7.9	11.8	12.0	112.7	7.3	6.9	43.3	38.7	63.0	255.3	34.2	34.2
LnGrp LOS	A	B	B	F	A	A	D	D	E	F	C	C
Approach Vol, veh/h		1623			788			429			625	
Approach Delay, s/veh		11.8			22.2			49.3			211.5	
Approach LOS		B			C			D			F	

Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		67.0		30.0		67.0		23.0				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		62.5		25.5		62.5		18.5				
Max Q Clear Time (g_c+I1), s		41.6		27.5		64.5		14.8				
Green Ext Time (p_c), s		11.3		0.0		0.0		0.6				

Intersection Summary												
HCM 7th Control Delay, s/veh			54.9									
HCM 7th LOS			D									

Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	512	1	30	1364	1	55
Future Volume (vph)	512	1	30	1364	1	55
Ideal Flow (vphpl)	1700	1800	1800	1800	1800	1800
Right Turn on Red		Yes		Yes		
Link Speed (mph)	45		45			45
Link Distance (ft)	7616		549			661
Travel Time (s)	115.4		8.3			10.0
Peak Hour Factor	0.86	0.86	0.86	0.86	0.86	0.86
Shared Lane Traffic (%)						
Turn Type	Prot		NA	pm+ov	Perm	NA
Protected Phases	8		2	8		6
Permitted Phases				2	6	
Detector Phase	8		2	8	6	6
Switch Phase						
Minimum Initial (s)	5.0		5.0	5.0	5.0	5.0
Minimum Split (s)	22.5		22.5	22.5	22.5	22.5
Total Split (s)	96.0		24.0	96.0	24.0	24.0
Total Split (%)	80.0%		20.0%	80.0%	20.0%	20.0%
Maximum Green (s)	91.5		19.5	91.5	19.5	19.5
Yellow Time (s)	3.5		3.5	3.5	3.5	3.5
All-Red Time (s)	1.0		1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0		0.0	0.0		0.0
Total Lost Time (s)	4.5		4.5	4.5		4.5
Lead/Lag						
Lead-Lag Optimize?						
Vehicle Extension (s)	3.0		3.0	3.0	3.0	3.0
Recall Mode	None		C-Max	None	C-Max	C-Max
Walk Time (s)	7.0		7.0	7.0	7.0	7.0
Flash Don't Walk (s)	11.0		11.0	11.0	11.0	11.0
Pedestrian Calls (#/hr)	0		0	0	0	0

Intersection Summary	
Area Type:	Other
Cycle Length: 120	
Actuated Cycle Length: 120	
Offset: 0 (0%), Referenced to phase 2:NBT and 6:SBTL, Start of Yellow	
Natural Cycle: 120	
Control Type: Actuated-Coordinated	

Splits and Phases: 6: Stoddard Wells Rd. & Johnson Rd.





Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	512	1	30	1364	1	55
Future Volume (veh/h)	512	1	30	1364	1	55
Initial Q (Qb), veh	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No		No			No
Adj Sat Flow, veh/h/ln	1700	1800	1800	1800	1800	1800
Adj Flow Rate, veh/h	596	0	35	772	1	64
Peak Hour Factor	0.86	0.86	0.86	0.86	0.86	0.86
Percent Heavy Veh, %	0	0	0	0	0	0
Cap, veh/h	688	324	1282	1411	36	1268
Arrive On Green	0.21	0.00	0.71	0.71	0.71	0.71
Sat Flow, veh/h	3238	1525	1800	1525	7	1780
Grp Volume(v), veh/h	596	0	35	772	65	0
Grp Sat Flow(s),veh/h/ln	1619	1525	1800	1525	1787	0
Q Serve(g_s), s	21.3	0.0	0.7	9.2	0.0	0.0
Cycle Q Clear(g_c), s	21.3	0.0	0.7	9.2	1.3	0.0
Prop In Lane	1.00	1.00		1.00	0.02	
Lane Grp Cap(c), veh/h	688	324	1282	1411	1303	0
V/C Ratio(X)	0.87	0.00	0.03	0.55	0.05	0.00
Avail Cap(c_a), veh/h	2469	1163	1282	1411	1303	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.96	0.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	45.6	0.0	5.1	0.7	5.1	0.0
Incr Delay (d2), s/veh	3.3	0.0	0.0	1.5	0.1	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	8.6	0.0	0.2	10.0	0.4	0.0
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	48.9	0.0	5.1	2.2	5.2	0.0
LnGrp LOS	D		A	A	A	
Approach Vol, veh/h	596		807			65
Approach Delay, s/veh	48.9		2.3			5.2
Approach LOS	D		A			A

Timer - Assigned Phs		2				6	8
Phs Duration (G+Y+Rc), s		90.0				90.0	30.0
Change Period (Y+Rc), s		4.5				4.5	4.5
Max Green Setting (Gmax), s		19.5				19.5	91.5
Max Q Clear Time (g_c+I1), s		11.2				3.3	23.3
Green Ext Time (p_c), s		2.3				0.2	2.2

Intersection Summary	
HCM 7th Control Delay, s/veh	21.4
HCM 7th LOS	C

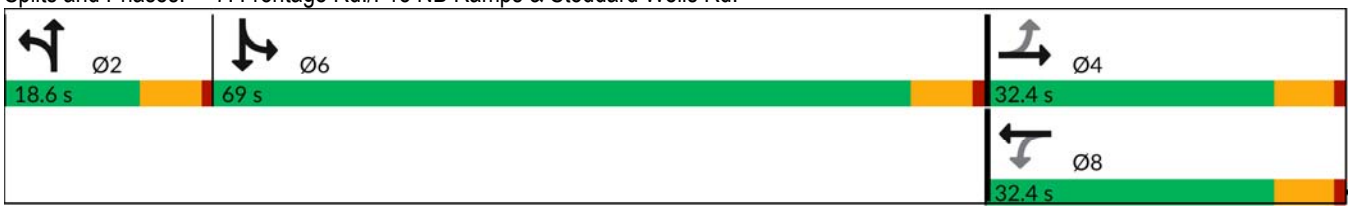
Notes

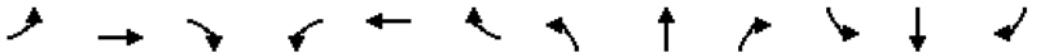
User approved volume balancing among the lanes for turning movement.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	10	87	85	25	629	56	7	48	45	1401	0	23
Future Volume (vph)	10	87	85	25	629	56	7	48	45	1401	0	23
Ideal Flow (vphpl)	1700	1800	1800	1700	1800	1800	1800	1800	1800	1700	1800	1800
Lane Width (ft)	12	14	14	12	14	14	12	14	14	13	14	14
Storage Length (ft)	150		0	150		0	0		0	0		0
Storage Lanes	1		0	1		0	0		0	1		0
Taper Length (ft)	90			90			90			90		
Right Turn on Red			Yes			Yes			Yes			Yes
Link Speed (mph)		45			45			30			30	
Link Distance (ft)		889			1144			979			330	
Travel Time (s)		13.5			17.3			22.3			7.5	
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Shared Lane Traffic (%)										49%		
Turn Type	Perm	NA		Perm	NA		Split	NA		Split	NA	
Protected Phases		4			8		2	2		6	6	
Permitted Phases	4			8								
Detector Phase	4	4		8	8		2	2		6	6	
Switch Phase												
Minimum Initial (s)	10.0	10.0		10.0	10.0		10.0	10.0		10.0	10.0	
Minimum Split (s)	24.5	24.5		24.5	24.5		16.5	16.5		16.5	16.5	
Total Split (s)	32.4	32.4		32.4	32.4		18.6	18.6		69.0	69.0	
Total Split (%)	27.0%	27.0%		27.0%	27.0%		15.5%	15.5%		57.5%	57.5%	
Maximum Green (s)	25.9	25.9		25.9	25.9		12.1	12.1		62.5	62.5	
Yellow Time (s)	5.5	5.5		5.5	5.5		5.5	5.5		5.5	5.5	
All-Red Time (s)	1.0	1.0		1.0	1.0		1.0	1.0		1.0	1.0	
Lost Time Adjust (s)	0.0	0.0		0.0	0.0			0.0		0.0	0.0	
Total Lost Time (s)	6.5	6.5		6.5	6.5			6.5		6.5	6.5	
Lead/Lag												
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	None	None		None	None		None	None		None	None	
Walk Time (s)	7.0	7.0		7.0	7.0							
Flash Don't Walk (s)	11.0	11.0		11.0	11.0							
Pedestrian Calls (#/hr)	10	10		10	10							

Intersection Summary	
Area Type:	Other
Cycle Length: 120	
Actuated Cycle Length: 111.5	
Natural Cycle: 90	
Control Type: Actuated-Uncoordinated	

Splits and Phases: 7: Frontage Rd./I-15 NB Ramps & Stoddard Wells Rd.





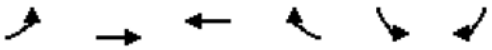
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	10	87	85	25	629	56	7	48	45	1401	0	23
Future Volume (veh/h)	10	87	85	25	629	56	7	48	45	1401	0	23
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.04	1.04	1.00	1.04	1.04	1.00	1.04	1.04	1.04	1.04	1.04
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1872	1872	1700	1872	1872	1800	1872	1872	1768	1872	1872
Adj Flow Rate, veh/h	10	91	47	26	655	32	7	50	26	1481	0	0
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	124	266	138	272	807	39	15	110	57	1463	813	0
Arrive On Green	0.23	0.34	0.23	0.34	0.46	0.34	0.10	0.15	0.10	0.87	0.00	0.00
Sat Flow, veh/h	686	1163	601	1137	3522	172	149	1063	553	3368	1872	0
Grp Volume(v), veh/h	10	0	138	26	344	343	83	0	0	1481	0	0
Grp Sat Flow(s),veh/h/ln	686	0	1764	1137	1853	1841	1765	0	0	1684	1872	0
Q Serve(g_s), s	1.2	0.0	5.1	1.5	13.4	13.5	3.6	0.0	0.0	36.3	0.0	0.0
Cycle Q Clear(g_c), s	15.7	0.0	5.1	7.0	13.4	13.5	3.6	0.0	0.0	36.3	0.0	0.0
Prop In Lane	1.00		0.34	1.00		0.09	0.08		0.31	1.00		0.00
Lane Grp Cap(c), veh/h	124	0	404	272	425	422	182	0	0	1463	813	0
V/C Ratio(X)	0.08	0.00	0.34	0.10	0.81	0.81	0.46	0.00	0.00	1.01	0.00	0.00
Avail Cap(c_a), veh/h	179	0	546	364	574	570	255	0	0	2517	1399	0
HCM Platoon Ratio	1.00	1.50	1.00	1.50	2.00	1.50	1.00	1.50	1.00	2.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	37.9	0.0	24.2	25.6	21.1	21.5	34.0	0.0	0.0	5.5	0.0	0.0
Incr Delay (d2), s/veh	0.3	0.0	0.5	0.2	6.3	6.4	1.8	0.0	0.0	17.1	0.0	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	0.0	2.0	0.4	4.7	4.8	1.6	0.0	0.0	5.4	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	38.2	0.0	24.7	25.7	27.4	28.0	35.8	0.0	0.0	22.6	0.0	0.0
LnGrp LOS	D		C	C	C	C	D			F		
Approach Vol, veh/h		148			713			83			1481	
Approach Delay, s/veh		25.6			27.6			35.8			22.6	
Approach LOS		C			C			D			C	

Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		15.1		25.3		47.4		25.3				
Change Period (Y+Rc), s		6.5		6.5		6.5		6.5				
Max Green Setting (Gmax), s		12.1		25.9		62.5		25.9				
Max Q Clear Time (g_c+I1), s		5.6		17.7		38.3		15.5				
Green Ext Time (p_c), s		0.2		0.4		7.2		2.9				

Intersection Summary												
HCM 7th Control Delay, s/veh			24.7									
HCM 7th LOS			C									

Notes

User approved volume balancing among the lanes for turning movement.



Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (vph)	1	36	58	602	144	3
Future Volume (vph)	1	36	58	602	144	3
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0			0	0	25
Storage Lanes	0			1	1	0
Taper Length (ft)	90				90	
Link Speed (mph)		45	45		45	
Link Distance (ft)		1552	889		1482	
Travel Time (s)		23.5	13.5		22.5	
Peak Hour Factor	0.84	0.84	0.84	0.84	0.84	0.84
Shared Lane Traffic (%)						
Sign Control		Free	Free		Stop	

Intersection Summary	
Area Type:	Other
Control Type: Unsignalized	

Intersection	
Int Delay, s/veh	1.8

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	1	36	58	602	144	3
Future Vol, veh/h	1	36	58	602	144	3
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	0	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	84	84	84	84	84	84
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	1	43	69	717	171	4

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	786	0	-	0	114	69
Stage 1	-	-	-	-	69	-
Stage 2	-	-	-	-	45	-
Critical Hdwy	4.1	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.2	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	842	-	-	-	887	1000
Stage 1	-	-	-	-	959	-
Stage 2	-	-	-	-	982	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	842	-	-	-	886	1000
Mov Cap-2 Maneuver	-	-	-	-	886	-
Stage 1	-	-	-	-	957	-
Stage 2	-	-	-	-	982	-

Approach	EB	WB	SB
HCM Control Delay, s/v	0.25	0	10.05
HCM LOS			B

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	49	-	-	-	888
HCM Lane V/C Ratio	0.001	-	-	-	0.197
HCM Control Delay (s/veh)	9.3	0	-	-	10
HCM Lane LOS	A	A	-	-	B
HCM 95th %tile Q(veh)	0	-	-	-	0.7



Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	145	1	1	602	1	2
Future Volume (vph)	145	1	1	602	1	2
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0	0		300	0	
Storage Lanes	1	0		1	0	
Taper Length (ft)	90				90	
Link Speed (mph)	30		45			45
Link Distance (ft)	263		1482			525
Travel Time (s)	6.0		22.5			8.0
Peak Hour Factor	0.79	0.79	0.79	0.79	0.79	0.79
Shared Lane Traffic (%)						
Sign Control	Stop		Free			Free

Intersection Summary	
Area Type:	Other
Control Type: Unsignalized	

Intersection	
Int Delay, s/veh	1.8

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	145	1	1	602	1	2
Future Vol, veh/h	145	1	1	602	1	2
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	300	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	79	79	79	79	79	79
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	184	1	1	762	1	3

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	6	1	0	0	763	0
Stage 1	1	-	-	-	-	-
Stage 2	5	-	-	-	-	-
Critical Hdwy	6.4	6.2	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	1020	1089	-	-	858	-
Stage 1	1027	-	-	-	-	-
Stage 2	1023	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	1019	1089	-	-	858	-
Mov Cap-2 Maneuver	1019	-	-	-	-	-
Stage 1	1027	-	-	-	-	-
Stage 2	1022	-	-	-	-	-

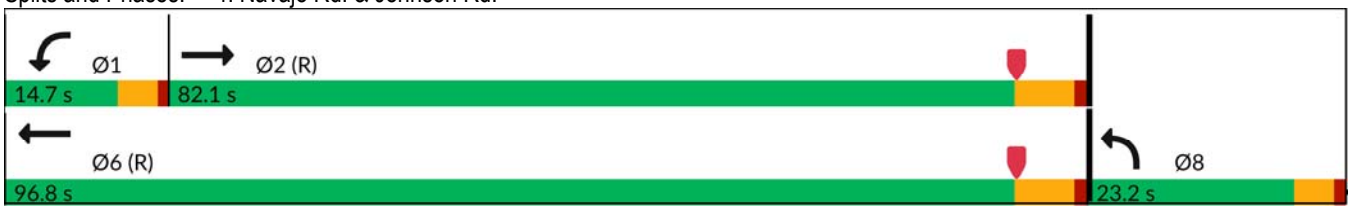
Approach	WB	NB	SB
HCM Control Delay, s/v	9.31	0	3.07
HCM LOS	A		

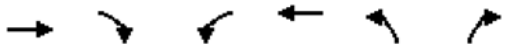
Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	1019	600	-
HCM Lane V/C Ratio	-	-	0.181	0.001	-
HCM Control Delay (s/veh)	-	-	9.3	9.2	0
HCM Lane LOS	-	-	A	A	A
HCM 95th %tile Q(veh)	-	-	0.7	0	-

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	689	160	42	1026	322	52
Future Volume (vph)	689	160	42	1026	322	52
Ideal Flow (vphpl)	1800	1800	1700	1800	1700	1800
Storage Length (ft)		0	150		200	0
Storage Lanes		0	1		1	0
Taper Length (ft)			90		90	
Right Turn on Red		Yes				Yes
Link Speed (mph)	45			45	55	
Link Distance (ft)	5327			1835	6664	
Travel Time (s)	80.7			27.8	82.6	
Peak Hour Factor	0.76	0.76	0.76	0.76	0.76	0.76
Shared Lane Traffic (%)						
Turn Type	NA		Prot	NA	Prot	
Protected Phases	2		1	6	8	
Permitted Phases						
Detector Phase	2		1	6	8	
Switch Phase						
Minimum Initial (s)	10.0		5.0	10.0	5.0	
Minimum Split (s)	24.5		9.6	24.5	22.6	
Total Split (s)	82.1		14.7	96.8	23.2	
Total Split (%)	68.4%		12.3%	80.7%	19.3%	
Maximum Green (s)	75.6		10.1	90.3	18.6	
Yellow Time (s)	5.5		3.6	5.5	3.6	
All-Red Time (s)	1.0		1.0	1.0	1.0	
Lost Time Adjust (s)	0.0		0.0	0.0	0.0	
Total Lost Time (s)	6.5		4.6	6.5	4.6	
Lead/Lag	Lag		Lead			
Lead-Lag Optimize?	Yes		Yes			
Vehicle Extension (s)	3.0		2.0	3.0	2.0	
Recall Mode	C-Max		None	C-Max	None	
Walk Time (s)	7.0			7.0	7.0	
Flash Don't Walk (s)	11.0			11.0	11.0	
Pedestrian Calls (#/hr)	10			10	10	

Intersection Summary	
Area Type:	Other
Cycle Length: 120	
Actuated Cycle Length: 120	
Offset: 14.7 (12%), Referenced to phase 2:EBT and 6:WBT, Start of Yellow	
Natural Cycle: 130	
Control Type: Actuated-Coordinated	

Splits and Phases: 4: Navajo Rd. & Johnson Rd.





Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	689	160	42	1026	322	52
Future Volume (veh/h)	689	160	42	1026	322	52
Initial Q (Qb), veh	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)		1.00	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1800	1800	1700	1800	1700	1800
Adj Flow Rate, veh/h	907	145	55	1350	487	0
Peak Hour Factor	0.76	0.76	0.76	0.76	0.76	0.76
Percent Heavy Veh, %	0	0	0	0	0	0
Cap, veh/h	1984	317	69	1355	502	236
Arrive On Green	0.67	0.67	0.04	0.75	0.16	0.00
Sat Flow, veh/h	3043	472	1619	1800	3238	1525
Grp Volume(v), veh/h	525	527	55	1350	487	0
Grp Sat Flow(s),veh/h/ln	1710	1715	1619	1800	1619	1525
Q Serve(g_s), s	17.5	17.5	4.0	89.1	17.9	0.0
Cycle Q Clear(g_c), s	17.5	17.5	4.0	89.1	17.9	0.0
Prop In Lane		0.28	1.00		1.00	1.00
Lane Grp Cap(c), veh/h	1149	1152	69	1355	502	236
V/C Ratio(X)	0.46	0.46	0.80	1.00	0.97	0.00
Avail Cap(c_a), veh/h	1149	1152	136	1355	502	236
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.09	0.09	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	9.3	9.3	57.0	14.7	50.4	0.0
Incr Delay (d2), s/veh	0.1	0.1	7.8	23.7	32.4	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.6	5.6	1.8	34.2	9.2	0.0
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	9.4	9.4	64.8	38.4	82.8	0.0
LnGrp LOS	A	A	E	D	F	
Approach Vol, veh/h	1052			1405	487	
Approach Delay, s/veh	9.4			39.4	82.8	
Approach LOS	A			D	F	

Timer - Assigned Phs	1	2				6	8
Phs Duration (G+Y+Rc), s	9.7	87.1				96.8	23.2
Change Period (Y+Rc), s	4.6	6.5				6.5	4.6
Max Green Setting (Gmax), s	10.1	75.6				90.3	18.6
Max Q Clear Time (g_c+I1), s	6.0	19.5				91.1	19.9
Green Ext Time (p_c), s	0.0	7.7				0.0	0.0

Intersection Summary		
HCM 7th Control Delay, s/veh	35.9	
HCM 7th LOS	D	

Notes

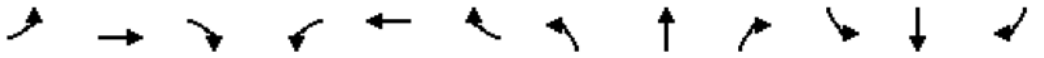
User approved volume balancing among the lanes for turning movement.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	9	775	87	313	1297	361	159	111	181	263	224	17
Future Volume (vph)	9	775	87	313	1297	361	159	111	181	263	224	17
Ideal Flow (vphpl)	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Storage Length (ft)	150		0	300		165	100		150	325		0
Storage Lanes	1		0	1		1	1		1	1		0
Taper Length (ft)	90			120			90			90		
Right Turn on Red			Yes			Yes			Yes			Yes
Link Speed (mph)		45			45			55			55	
Link Distance (ft)		7616			5327			4005			1074	
Travel Time (s)		115.4			80.7			49.6			13.3	
Peak Hour Factor	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
Shared Lane Traffic (%)												
Turn Type	Prot	NA		Prot	NA	Perm	Prot	NA	Perm	Prot	NA	
Protected Phases	5	2		1	6		3	8		7	4	
Permitted Phases						6			8			
Detector Phase	5	2		1	6	6	3	8	8	7	4	
Switch Phase												
Minimum Initial (s)	5.0	10.0		5.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0	
Minimum Split (s)	9.5	22.5		9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	
Total Split (s)	9.5	40.5		31.0	62.0	62.0	23.8	22.5	22.5	26.0	24.7	
Total Split (%)	7.9%	33.8%		25.8%	51.7%	51.7%	19.8%	18.8%	18.8%	21.7%	20.6%	
Maximum Green (s)	5.0	36.0		26.5	57.5	57.5	19.3	18.0	18.0	21.5	20.2	
Yellow Time (s)	3.5	3.5		3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	
All-Red Time (s)	1.0	1.0		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Lost Time Adjust (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total Lost Time (s)	4.5	4.5		4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	
Lead/Lag	Lead	Lag		Lead	Lag	Lag	Lag	Lead	Lead	Lag	Lead	
Lead-Lag Optimize?	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Vehicle Extension (s)	3.0	3.0		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	
Recall Mode	None	C-Max		None	C-Max	C-Max	None	Max	Max	None	Max	
Walk Time (s)		7.0			7.0	7.0		7.0	7.0		7.0	
Flash Don't Walk (s)		11.0			11.0	11.0		11.0	11.0		11.0	
Pedestrian Calls (#/hr)		0			0	0		0	0		0	

Intersection Summary	
Area Type:	Other
Cycle Length: 120	
Actuated Cycle Length: 120	
Offset: 31 (26%), Referenced to phase 2:EBT and 6:WBT, Start of Yellow	
Natural Cycle: 150	
Control Type: Actuated-Coordinated	

Splits and Phases: 5: Dale Evans Pkwy. & Johnson Rd.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	9	775	87	313	1297	361	159	111	181	263	224	17
Future Volume (veh/h)	9	775	87	313	1297	361	159	111	181	263	224	17
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	11	969	59	391	1621	264	199	139	132	329	280	21
Peak Hour Factor	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	21	982	60	358	1738	775	260	513	229	290	543	40
Arrive On Green	0.01	0.45	0.30	0.22	0.76	0.51	0.16	0.22	0.15	0.18	0.25	0.17
Sat Flow, veh/h	1619	3275	199	1619	3420	1525	1619	3420	1525	1619	3226	240
Grp Volume(v), veh/h	11	506	522	391	1621	264	199	139	132	329	148	153
Grp Sat Flow(s),veh/h/ln	1619	1710	1764	1619	1710	1525	1619	1710	1525	1619	1710	1757
Q Serve(g_s), s	0.8	35.1	35.1	26.5	46.8	6.0	14.1	4.0	6.3	21.5	8.9	9.1
Cycle Q Clear(g_c), s	0.8	35.1	35.1	26.5	46.8	6.0	14.1	4.0	6.3	21.5	8.9	9.1
Prop In Lane	1.00		0.11	1.00		1.00	1.00		1.00	1.00		0.14
Lane Grp Cap(c), veh/h	21	513	529	358	1738	775	260	513	229	290	288	296
V/C Ratio(X)	0.53	0.99	0.99	1.09	0.93	0.34	0.76	0.27	0.58	1.13	0.51	0.52
Avail Cap(c_a), veh/h	67	513	529	358	1738	775	260	513	229	290	288	296
HCM Platoon Ratio	1.00	1.50	1.00	1.00	1.50	1.00	1.00	1.50	1.00	1.00	1.50	1.00
Upstream Filter(I)	0.42	0.42	0.42	0.09	0.09	0.09	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	58.9	32.8	33.8	46.8	12.6	4.1	48.2	41.1	20.2	49.2	40.6	41.3
Incr Delay (d2), s/veh	8.6	22.7	22.3	46.9	1.2	0.1	12.6	1.3	10.2	94.1	6.4	6.4
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.4	15.0	15.8	14.9	7.6	3.5	6.3	1.7	4.0	15.8	3.9	4.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	67.5	55.4	56.1	93.6	13.8	4.2	60.8	42.4	30.4	143.3	47.0	47.7
LnGrp LOS	E	E	E	F	B	A	E	D	C	F	D	D
Approach Vol, veh/h		1039			2276			470			630	
Approach Delay, s/veh		55.9			26.4			46.8			97.5	
Approach LOS		E			C			D			F	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	31.0	40.5	23.8	24.7	6.0	65.5	26.0	22.5
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	26.5	36.0	19.3	20.2	5.0	57.5	21.5	18.0
Max Q Clear Time (g_c+I1), s	28.5	37.1	16.1	11.1	2.8	48.8	23.5	8.3
Green Ext Time (p_c), s	0.0	0.0	0.1	0.9	0.0	6.6	0.0	0.7

Intersection Summary	
HCM 7th Control Delay, s/veh	45.7
HCM 7th LOS	D

Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	1470	3	13	869	2	29
Future Volume (vph)	1470	3	13	869	2	29
Ideal Flow (vphpl)	1700	1800	1800	1800	1800	1800
Right Turn on Red		Yes		Yes		
Link Speed (mph)	45		45			45
Link Distance (ft)	7616		549			661
Travel Time (s)	115.4		8.3			10.0
Peak Hour Factor	0.67	0.67	0.67	0.67	0.67	0.67
Shared Lane Traffic (%)						
Turn Type	Prot		NA	pm+ov	Perm	NA
Protected Phases	8		2	8		6
Permitted Phases				2	6	
Detector Phase	8		2	8	6	6
Switch Phase						
Minimum Initial (s)	5.0		5.0	5.0	5.0	5.0
Minimum Split (s)	22.5		22.5	22.5	22.5	22.5
Total Split (s)	94.0		26.0	94.0	26.0	26.0
Total Split (%)	78.3%		21.7%	78.3%	21.7%	21.7%
Maximum Green (s)	89.5		21.5	89.5	21.5	21.5
Yellow Time (s)	3.5		3.5	3.5	3.5	3.5
All-Red Time (s)	1.0		1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0		0.0	0.0		0.0
Total Lost Time (s)	4.5		4.5	4.5		4.5
Lead/Lag						
Lead-Lag Optimize?						
Vehicle Extension (s)	3.0		3.0	3.0	3.0	3.0
Recall Mode	None		C-Max	None	C-Max	C-Max
Walk Time (s)	7.0		7.0	7.0	7.0	7.0
Flash Don't Walk (s)	11.0		11.0	11.0	11.0	11.0
Pedestrian Calls (#/hr)	0		0	0	0	0

Intersection Summary	
Area Type:	Other
Cycle Length: 120	
Actuated Cycle Length: 120	
Offset: 0 (0%), Referenced to phase 2:NBT and 6:SBTL, Start of Yellow	
Natural Cycle: 90	
Control Type: Actuated-Coordinated	

Splits and Phases: 6: Stoddard Wells Rd. & Johnson Rd.





Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	1470	3	13	869	2	29
Future Volume (veh/h)	1470	3	13	869	2	29
Initial Q (Qb), veh	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No		No			No
Adj Sat Flow, veh/h/ln	1700	1800	1800	1800	1800	1800
Adj Flow Rate, veh/h	2198	0	19	849	3	43
Peak Hour Factor	0.67	0.67	0.67	0.67	0.67	0.67
Percent Heavy Veh, %	0	0	0	0	0	0
Cap, veh/h	2290	1079	392	1411	40	368
Arrive On Green	0.71	0.00	0.22	0.22	0.22	0.22
Sat Flow, veh/h	3238	1525	1800	1525	37	1691
Grp Volume(v), veh/h	2198	0	19	849	46	0
Grp Sat Flow(s),veh/h/ln	1619	1525	1800	1525	1728	0
Q Serve(g_s), s	74.2	0.0	1.0	11.3	0.0	0.0
Cycle Q Clear(g_c), s	74.2	0.0	1.0	11.3	2.5	0.0
Prop In Lane	1.00	1.00		1.00	0.07	
Lane Grp Cap(c), veh/h	2290	1079	392	1411	408	0
V/C Ratio(X)	0.96	0.00	0.05	0.60	0.11	0.00
Avail Cap(c_a), veh/h	2415	1138	392	1411	408	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.39	0.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	16.0	0.0	37.1	0.8	37.7	0.0
Incr Delay (d2), s/veh	4.9	0.0	0.2	1.9	0.6	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	22.8	0.0	0.5	26.0	1.1	0.0
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	20.9	0.0	37.3	2.7	38.2	0.0
LnGrp LOS	C		D	A	D	
Approach Vol, veh/h	2198		868			46
Approach Delay, s/veh	20.9		3.4			38.2
Approach LOS	C		A			D

Timer - Assigned Phs		2				6	8
Phs Duration (G+Y+Rc), s		30.6				30.6	89.4
Change Period (Y+Rc), s		4.5				4.5	4.5
Max Green Setting (Gmax), s		21.5				21.5	89.5
Max Q Clear Time (g_c+I1), s		13.3				4.5	76.2
Green Ext Time (p_c), s		2.5				0.1	8.7

Intersection Summary	
HCM 7th Control Delay, s/veh	16.3
HCM 7th LOS	B

Notes

User approved volume balancing among the lanes for turning movement.

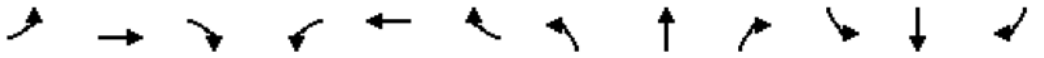
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	5	93	69	49	1544	61	4	79	39	913	0	20
Future Volume (vph)	5	93	69	49	1544	61	4	79	39	913	0	20
Ideal Flow (vphpl)	1700	1800	1800	1700	1800	1800	1800	1800	1800	1700	1800	1800
Lane Width (ft)	12	14	14	12	14	14	12	14	14	13	14	14
Storage Length (ft)	150		0	150		0	0		0	0		0
Storage Lanes	1		0	1		0	0		0	1		0
Taper Length (ft)	90			90			90			90		
Right Turn on Red			Yes			Yes			Yes			Yes
Link Speed (mph)		45			45			30			30	
Link Distance (ft)		889			1144			979			330	
Travel Time (s)		13.5			17.3			22.3			7.5	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Shared Lane Traffic (%)										49%		
Turn Type	Perm	NA		Perm	NA		Split	NA		Split	NA	
Protected Phases		4			8		2	2		6	6	
Permitted Phases	4			8								
Detector Phase	4	4		8	8		2	2		6	6	
Switch Phase												
Minimum Initial (s)	10.0	10.0		10.0	10.0		10.0	10.0		10.0	10.0	
Minimum Split (s)	24.5	24.5		24.5	24.5		16.5	16.5		16.5	16.5	
Total Split (s)	59.0	59.0		59.0	59.0		17.6	17.6		43.4	43.4	
Total Split (%)	49.2%	49.2%		49.2%	49.2%		14.7%	14.7%		36.2%	36.2%	
Maximum Green (s)	52.5	52.5		52.5	52.5		11.1	11.1		36.9	36.9	
Yellow Time (s)	5.5	5.5		5.5	5.5		5.5	5.5		5.5	5.5	
All-Red Time (s)	1.0	1.0		1.0	1.0		1.0	1.0		1.0	1.0	
Lost Time Adjust (s)	0.0	0.0		0.0	0.0			0.0		0.0	0.0	
Total Lost Time (s)	6.5	6.5		6.5	6.5			6.5		6.5	6.5	
Lead/Lag												
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	None	None		None	None		None	None		None	None	
Walk Time (s)	7.0	7.0		7.0	7.0							
Flash Don't Walk (s)	11.0	11.0		11.0	11.0							
Pedestrian Calls (#/hr)	10	10		10	10							

Intersection Summary

Area Type: Other
Cycle Length: 120
Actuated Cycle Length: 119.8
Natural Cycle: 130
Control Type: Actuated-Uncoordinated

Splits and Phases: 7: Frontage Rd./I-15 NB Ramps & Stoddard Wells Rd.





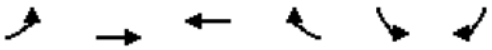
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	5	93	69	49	1544	61	4	79	39	913	0	20
Future Volume (veh/h)	5	93	69	49	1544	61	4	79	39	913	0	20
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.04	1.04	1.00	1.04	1.04	1.00	1.04	1.04	1.04	1.04	1.04
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1872	1872	1700	1872	1872	1800	1872	1872	1768	1872	1872
Adj Flow Rate, veh/h	5	101	37	53	1678	33	4	86	20	1009	0	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	61	581	213	528	1618	32	5	117	27	1038	577	0
Arrive On Green	0.44	0.67	0.44	0.67	0.89	0.67	0.08	0.12	0.08	0.62	0.00	0.00
Sat Flow, veh/h	259	1307	479	1137	3641	71	66	1415	329	3368	1872	0
Grp Volume(v), veh/h	5	0	138	53	852	859	110	0	0	1009	0	0
Grp Sat Flow(s),veh/h/ln	259	0	1786	1137	1853	1859	1809	0	0	1684	1872	0
Q Serve(g_s), s	0.0	0.0	4.0	2.3	52.5	52.5	6.9	0.0	0.0	33.9	0.0	0.0
Cycle Q Clear(g_c), s	52.5	0.0	4.0	6.3	52.5	52.5	6.9	0.0	0.0	33.9	0.0	0.0
Prop In Lane	1.00		0.27	1.00		0.04	0.04		0.18	1.00		0.00
Lane Grp Cap(c), veh/h	61	0	794	528	824	826	149	0	0	1038	577	0
V/C Ratio(X)	0.08	0.00	0.17	0.10	1.03	1.04	0.74	0.00	0.00	0.97	0.00	0.00
Avail Cap(c_a), veh/h	61	0	794	528	824	826	170	0	0	1052	585	0
HCM Platoon Ratio	1.00	1.50	1.00	1.50	2.00	1.50	1.00	1.50	1.00	2.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	59.1	0.0	13.7	12.8	6.6	7.1	51.1	0.0	0.0	22.2	0.0	0.0
Incr Delay (d2), s/veh	0.6	0.0	0.1	0.1	40.7	41.9	13.6	0.0	0.0	21.2	0.0	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	0.0	1.5	0.5	12.0	12.5	3.6	0.0	0.0	11.6	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	59.6	0.0	13.8	12.9	47.3	49.0	64.7	0.0	0.0	43.4	0.0	0.0
LnGrp LOS	E		B	B	F	F	E			D		
Approach Vol, veh/h		143			1764			110			1009	
Approach Delay, s/veh		15.4			47.1			64.7			43.4	
Approach LOS		B			D			E			D	

Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		16.2		59.0		42.9		59.0				
Change Period (Y+Rc), s		6.5		6.5		6.5		6.5				
Max Green Setting (Gmax), s		11.1		52.5		36.9		52.5				
Max Q Clear Time (g_c+I1), s		8.9		54.5		35.9		54.5				
Green Ext Time (p_c), s		0.1		0.0		0.5		0.0				

Intersection Summary												
HCM 7th Control Delay, s/veh			45.0									
HCM 7th LOS			D									

Notes

User approved volume balancing among the lanes for turning movement.



Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (vph)	6	36	54	1515	130	2
Future Volume (vph)	6	36	54	1515	130	2
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0			0	0	25
Storage Lanes	0			1	1	0
Taper Length (ft)	90				90	
Link Speed (mph)		45	45		45	
Link Distance (ft)		1552	889		1482	
Travel Time (s)		23.5	13.5		22.5	
Peak Hour Factor	0.58	0.58	0.58	0.58	0.58	0.58
Shared Lane Traffic (%)						
Sign Control		Free	Free		Stop	

Intersection Summary	
Area Type:	Other
Control Type: Unsignalized	

Intersection	
Int Delay, s/veh	1

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	6	36	54	1515	130	2
Future Vol, veh/h	6	36	54	1515	130	2
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	0	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	58	58	58	58	58	58
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	10	62	93	2612	224	3

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	2705	0	-	0	176	93
Stage 1	-	-	-	-	93	-
Stage 2	-	-	-	-	83	-
Critical Hdwy	4.1	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.2	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	154	-	-	-	819	970
Stage 1	-	-	-	-	936	-
Stage 2	-	-	-	-	946	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	154	-	-	-	761	970
Mov Cap-2 Maneuver	-	-	-	-	761	-
Stage 1	-	-	-	-	870	-
Stage 2	-	-	-	-	946	-

Approach	EB	WB	SB
HCM Control Delay, s/v	4.3	0	11.7
HCM LOS			B

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	148	-	-	-	764
HCM Lane V/C Ratio	0.067	-	-	-	0.298
HCM Control Delay (s/veh)	30.1	0	-	-	11.7
HCM Lane LOS	D	A	-	-	B
HCM 95th %tile Q(veh)	0.2	-	-	-	1.2



Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	132	1	1	1520	1	1
Future Volume (vph)	132	1	1	1520	1	1
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0	0		300	0	
Storage Lanes	1	0		1	0	
Taper Length (ft)	90				90	
Link Speed (mph)	30		45			45
Link Distance (ft)	263		1482			525
Travel Time (s)	6.0		22.5			8.0
Peak Hour Factor	0.56	0.56	0.56	0.56	0.56	0.56
Shared Lane Traffic (%)						
Sign Control	Stop		Free			Free

Intersection Summary	
Area Type:	Other
Control Type: Unsignalized	

Intersection	
Int Delay, s/veh	0.8

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	132	1	1	1520	1	1
Future Vol, veh/h	132	1	1	1520	1	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	300	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	56	56	56	56	56	56
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	236	2	2	2714	2	2

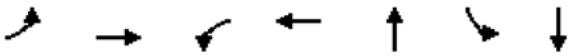
Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	7	2	0	0	2716	0
Stage 1	2	-	-	-	-	-
Stage 2	5	-	-	-	-	-
Critical Hdwy	6.4	6.2	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	1019	1088	-	-	152	-
Stage 1	1027	-	-	-	-	-
Stage 2	1023	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	1007	1088	-	-	152	-
Mov Cap-2 Maneuver	1007	-	-	-	-	-
Stage 1	1027	-	-	-	-	-
Stage 2	1011	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v	9.67	0	14.47
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	1008	152	-
HCM Lane V/C Ratio	-	-	0.236	0.012	-
HCM Control Delay (s/veh)	-	-	9.7	28.9	0
HCM Lane LOS	-	-	A	D	A
HCM 95th %tile Q(veh)	-	-	0.9	0	-

APPENDIX 5.8: OPENING YEAR CUMULATIVE (2027) WITH PROJECT CONDITIONS OFF-RAMP QUEUEING ANALYSIS S WORKSHEETS WITH IMPROVEMENTS

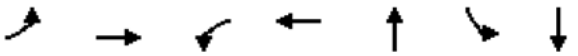
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Lane Group	EBL	EBT	WBL	WBT	NBT	SBL	SBT
Lane Group Flow (vph)	10	180	26	713	104	744	739
v/c Ratio	0.17	0.43	0.13	0.87	0.51	0.89	0.77
Control Delay (s/veh)	46.0	34.7	39.5	54.8	47.1	39.2	25.8
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	46.0	34.7	39.5	54.8	47.1	39.2	25.8
Queue Length 50th (ft)	6	94	16	264	56	473	377
Queue Length 95th (ft)	24	167	43	#365	115	#750	556
Internal Link Dist (ft)		809		1064	899		250
Turn Bay Length (ft)	150		150				
Base Capacity (vph)	66	447	224	890	222	938	1064
Starvation Cap Reductn	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0
Reduced v/c Ratio	0.15	0.40	0.12	0.80	0.47	0.79	0.69

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Lane Group	EBL	EBT	WBL	WBT	NBT	SBL	SBT
Lane Group Flow (vph)	5	176	53	1744	132	506	508
v/c Ratio	0.09	0.22	0.11	1.05	0.73	1.00	0.82
Control Delay (s/veh)	24.8	16.8	20.9	70.4	70.7	80.9	43.7
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	24.8	16.8	20.9	70.4	70.7	80.9	43.7
Queue Length 50th (ft)	2	63	24	~745	89	394	309
Queue Length 95th (ft)	12	111	51	#881	#184	#625	#486
Internal Link Dist (ft)		809		1064	899		250
Turn Bay Length (ft)	150		150				
Base Capacity (vph)	56	809	473	1658	183	508	618
Starvation Cap Reductn	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0
Reduced v/c Ratio	0.09	0.22	0.11	1.05	0.72	1.00	0.82

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Intersection: 7: Frontage Rd./I-15 NB Ramps & Stoddard Wells Rd.

Movement	EB	EB	WB	WB	WB	NB	SB	SB
Directions Served	L	TR	L	T	TR	LTR	L	LTR
Maximum Queue (ft)	33	162	163	438	494	99	292	292
Average Queue (ft)	7	90	32	335	385	58	284	260
95th Queue (ft)	29	174	122	523	588	107	324	358
Link Distance (ft)		816		1106	1106	931	277	277
Upstream Blk Time (%)							22	12
Queuing Penalty (veh)							0	0
Storage Bay Dist (ft)	150		150					
Storage Blk Time (%)		2		44				
Queuing Penalty (veh)		0		12				

Intersection: 9: Quarry Rd. & I-15 SB Ramps

Movement	WB	NB	SB
Directions Served	LR	R	LT
Maximum Queue (ft)	48	4	5
Average Queue (ft)	34	1	1
95th Queue (ft)	55	6	8
Link Distance (ft)	222		503
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)		300	
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 7: Frontage Rd./I-15 NB Ramps & Stoddard Wells Rd.

Movement	EB	EB	WB	WB	WB	NB	SB	SB
Directions Served	L	TR	L	T	TR	LTR	L	LTR
Maximum Queue (ft)	9	64	240	1121	1121	190	292	292
Average Queue (ft)	3	21	86	1114	1118	106	288	272
95th Queue (ft)	14	77	269	1163	1144	183	309	329
Link Distance (ft)		816		1106	1106	931	277	277
Upstream Blk Time (%)				82	79		34	24
Queuing Penalty (veh)				0	0		0	0
Storage Bay Dist (ft)	150		150					
Storage Blk Time (%)		1		76				
Queuing Penalty (veh)		0		40				

Intersection: 9: Quarry Rd. & I-15 SB Ramps

Movement	WB	SB
Directions Served	LR	LT
Maximum Queue (ft)	117	11
Average Queue (ft)	73	6
95th Queue (ft)	199	27
Link Distance (ft)	222	503
Upstream Blk Time (%)	17	
Queuing Penalty (veh)	0	
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		