# SR-60/World Logistics Center Parkway Interchange Project



# **Interchange Closure Study**

Riverside County, California 08-RIV-60-PM 20.0/22.0 PN 0813000109 EA 0M590 July 2019



# SR-60/WORLD LOGISTICS CENTER PARKWAY INTERCHANGE CLOSURE STUDY

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## 1. INTRODUCTION

This report presents the interchange closure study for the Project Approval and Environmental Document (PA/ED) for improvements to the SR-60/World Logistics Center Parkway (WLC Pkwy) Interchange (IC) in the City of Moreno Valley, California. During construction of the project, the SR-60/WLC Pkwy ramps, WLC Pkwy overcrossing and the entire interchange would be closed at various stages of the construction. According to the Caltrans' Project Development Procedures Manual's policy, a study is required whenever a freeway ramp is to be closed for more than ten consecutive days.

The goals and objectives of the interchange closure are to enhance safety to the work environment for both the labor work force and motoring/non-motoring public as well as to minimize delays for motorists. The analysis in this study revealed that the intersections along the detour routes would operate at an acceptable Level of Service (LOS) and thus the impacts on motorists would not be significant. In addition, having complete closure of the interchange for 4 months during construction would reduce the construction duration when compared to having partial closure of the WLC Pkwy bridge. A complete interchange closure would reduce the overall construction duration by approximately 11 months. This time savings is approximately 35% of the time for the full construction of 30 months with no complete interchange closure, therefore it is estimated that there will be a savings of 25% to 35% on the overall construction costs. In general, construction costs are reduced due to multiple contractor mobilizations for various construction trades, a reduction in the traffic control needed for multiple stages, and more efficient delivery of construction activities.

# Background of the SR-60/WLC Pkwy Interchange Improvement Project

The SR-60/WLC Pkwy IC is currently a two-quadrant cloverleaf with side-street stop-controlled ramp intersections. The bridge crossing SR-60 has been deemed as functionally obsolete and structurally deficient. This current configuration for the interchange is sufficient to handle the current traffic demand because the interchange's catchment area is sparsely developed, except at the 1.8 million square-foot Skechers high-cube warehouse. The area within the City of Moreno Valley immediately to the south of the proposed WLC Pkwy IC project is planned through the City's General Plan and the approved Specific Plans. One plan currently under development is represented in the World Logistics Center (WLC) Specific Plan. The WLC would consist primarily of approximately 40.6 million square feet of high-cube logistics warehouse buildings. Development allowable in the General Plan and Specific Plan includes a mix of office space buildings, high-cube logistics warehouse buildings, and single-family dwellings.

With the development of the WLC and other future allowable developments, the traffic demand at the SR-60/WLC Pkwy IC will be much greater than at present. The proposed project is to improve the capacity of the interchange to accommodate the anticipated increase in demand. The project analyzed two build alternatives, Alternative 2 (Modified Partial Cloverleaf) and Alternative 6 (Modified Partial Cloverleaf with Roundabouts) in addition to a No-Build Alternative. Alternative 2 was studied in this report as it would have the longest construction duration because of the widening of the bridge and additional ramp installations. Both build alternatives considered a design variation: Alternative 2a and Alternative 6a, respectively, are associated with a potential realignment of Eucalyptus Avenue. The design variations would not alter the proposed phasing plan identified in this report. Should a design variation be selected for the project, the realignment of Eucalyptus Avenue would occur during the same phase and duration as the proposed Eucalyptus Avenue improvements for Alternative 2 and Alternative 6.

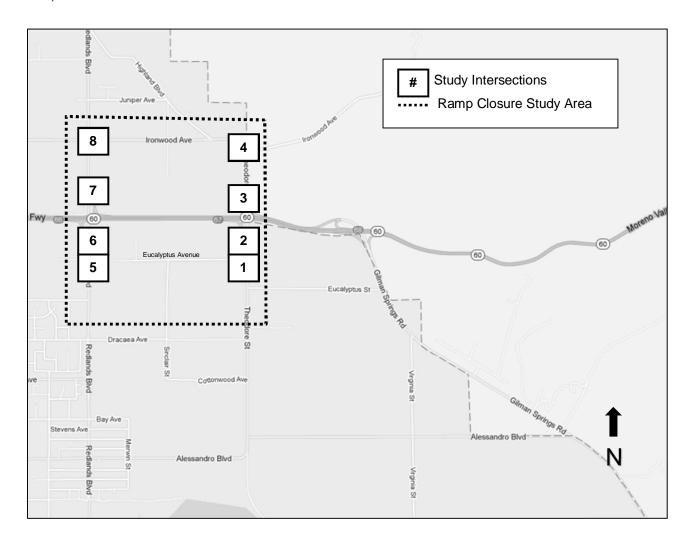
In September 2012, Caltrans District 8 issued a new Transportation Concept Report for SR-60 from the Los Angeles/San Bernardino County Line to the I-10 interchange. This report found that although no mainline capacity improvements are currently being planned or programmed, there will be a need for additional general purpose lanes between Redlands Boulevard and Gilman Springs Road (i.e. the freeway sections on either east or west side of the WLC Pkwy IC), in the long term. Therefore, there is a need for capacity improvements to both the WLC Pkwy IC and the SR-60 main line in the vicinity of the WLC Pkwy IC.

# 2. METHODOLOGY

# Geographic Scope of Study

The geography scope of the study is shown in Exhibit 1. The study area includes the ramp intersections of the WLC Pkwy IC, the intersections directly up or down stream of them, and the corresponding intersections at the most likely diversion route (the Redlands Boulevard IC). The eight study intersections are (see Exhibit 1):

- 1) WLC Pkwy/ Eucalyptus Avenue
- 2) WLC Pkwy/Eastbound SR-60 Ramps
- 3) WLC Pkwy/Westbound SR-60 Ramps
- 4) Theodore Street/Ironwood Avenue
- 5) Redlands Boulevard/Eucalyptus Avenue
- 6) Redlands Boulevard/Eastbound SR-60 Ramps
- 7) Redlands Boulevard/Westbound SR-60 Ramps
- 8) Redlands Boulevard/Ironwood Avenue



**Exhibit 1: Study Area** 

The study area for the interchange closure study was bounded by Ironwood Avenue to the north, Eucalyptus Avenue to the south, WLC Pkwy to the east, and Redlands Boulevard to the west.

## Intersection LOS

The LOS analysis of study intersections was performed using the methodology described in the Highway Capacity Manual (HCM) 2000 Chapter 16, for signalized intersections, and Chapter 17 for unsignalized intersections. The HCM LOS thresholds for signalized and unsignalized intersections are shown in Exhibit 2.

**Exhibit 2: LOS Thresholds for Signalized and Unsignalized Intersections** 

Level of	Description	_	Control Delay nds/vehicle)
Service	Description	Signalized	Unsignalized & Roundabouts
А	Very low control delay. Progression is very favorable; most vehicles do not stop.	≤ 10	≤ 10
В	Low delay with good progression and/or short cycle lengths.	> 10 to 20	> 10 to 15
С	Moderate delay resulting from fair progression and/or longer cycle times. Some vehicles may not clear intersection in one green phase.	> 20 to 35	> 15 to 25
D	Longer control delays with noticeable congestion. Many vehicles stop and the proportion not served by the first green phase rises.	> 35 to 55	> 25 to 35
Е	High delay due to poor progression, long cycle lengths, or both.	> 55 to 80	> 35 to 50
F	Intersection oversaturated; arrival rates exceed intersection capacity so queues build up.	> 80	> 50
Source:			
entering	r signalized intersections and roundabouts, the LOS is based the intersection. For unsignalized intersections, the LOS is b ng approach.	ased on the o	

The City of Moreno Valley has established a target LOS of D for the eight study intersections.

## 3. BASE CONDITIONS

This section reports traffic conditions under Base Conditions for the year 2022. Traffic counts were collected in 2017 and reviewed in the year 2018; therefore, the year 2018 is used as the volumes to derive the year 2022 conditions for analysis, since construction is anticipated to begin in 2022.

## Land Use

Land uses in the area were reviewed in September 2018 to identify the type of land use, location, and access to the roadway network. Specific attention was given to those land uses that rely on WLC Pkwy to access the local and regional roadway network. The land uses in the area of WLC Pkwy consist primarily of dry-land agriculture, with a few residences, a landfill, and one large distribution center (see Exhibit 3). The large distribution center is the 1.8 million square-foot Skechers facility, which includes a factory outlet store, and is the largest trip generator along WLC Pkwy. Vehicle trips from Skechers account for approximately half of existing peak hour traffic at the SR-60 Eastbound ramp intersection with WLC Pkwy.

In addition to the Skechers distribution facility, the other large traffic generating land use in the vicinity of the WLC Pkwy IC is the Badlands Landfill located northeast of the Theodore Street/Ironwood Avenue intersection. The landfill site is currently (2018) permitted to receive up to 612 vehicles per day. Based on data from 2014, on a typical day when the landfill site is open, 10 to 15 department employees travel to and from the site and on average 217 customers access the landfill per day. Vehicle trips accessing both land uses primarily travel to/from SR-60, although several trips for the Badlands Landfill were observed using local streets parallel to SR-60. Detour routing for the interchange closure has specifically considered the travel patterns of the two large land uses.

In addition to the Skechers distribution facility and the Badlands Landfill, the following are potentially affected land uses located on WLC Pkwy that use the interchange to access SR-60:

- One residence on the west side of WLC Pkwy near the Dracaea Avenue intersection.
- Four residences on the east side of WLC Pkwy between Eucalyptus Avenue and Dracaea Avenue.
- Seven residences on the east side of WLC Pkwy and north of SR-60.

It was noted during field visits that the only other active non-residential land use along WLC Pkwy was the sale of hay at one WLC Pkwy residence north of SR-60. However, it is assumed that the sales are private and that the trip generating characteristics of the site would not differ substantially from a standard residential parcel.

Land uses along Redlands Boulevard were reviewed to determine if the WLC Pkwy IC closure and detour routes would significantly affect the land uses. Land uses along, and in the vicinity of, Redlands Boulevard include residential, a nursery, a church, and a mini-market. During the development of this report, in summer 2015, the ALDI warehouse was constructed and opened at the northwest quadrant of the intersection of Redlands Boulevard and Eucalyptus Avenue.

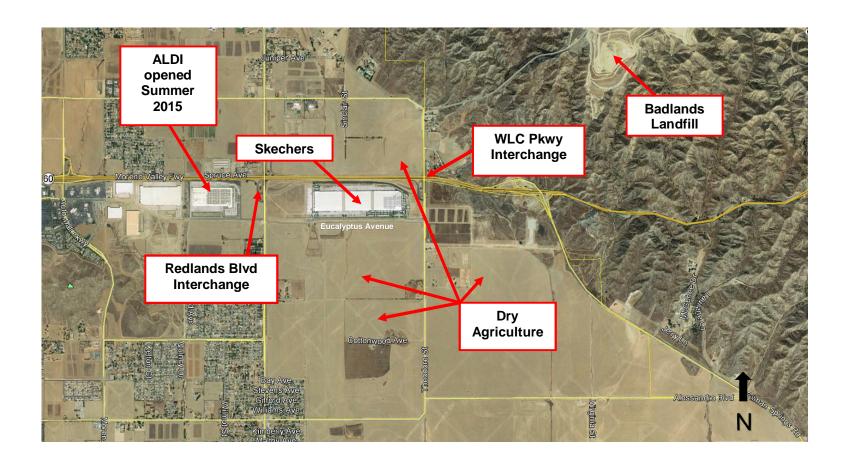
The Prologis development has been built and Eucalyptus Avenue from Redlands Boulevard to Moreno Beach Drive is now open.

#### Roadway Network

World Logistics Center Parkway Interchange

The existing ramp system provides direct access to WLC Pkwy from SR-60. The existing interchange is a two-quadrant cloverleaf in which westbound SR-60 on- and off-ramp traffic connects to WLC Pkwy at a side-street stop-controlled intersection on the northern side of the interchange. Eastbound SR-60 on- and off-ramp traffic connects at a side-street stop-controlled intersection on the southern side of the interchange. Through-traffic on WLC Pkwy passes over SR-60 on a two-lane overpass.

The proposed WLC Pkwy IC does not have bicycle lanes but has hard shoulders and a sidewalk on the west side of the bridge.



**Exhibit 3: Base Conditions of the Study Area** 

# Eucalyptus Avenue

Eucalyptus Avenue currently extends approximately 3,800 feet, from WLC Pkwy to the western edge of the Skechers distribution facility. The existing configuration of the roadway is two lanes westbound and one lane eastbound with a raised median. Access to the Skechers distribution facility is provided via five driveways on Eucalyptus Avenue, two of which are right-in and right-out only. On-street bike lanes exist along Eucalyptus Avenue in both directions of travel. A sidewalk is provided only on the portion of roadway adjacent to the Skechers site. Currently, the segment between the Skechers frontage and Redlands Boulevard is paved for emergency access. The emergency access allowed traffic during closure of the WLC Pkwy overcrossing in 2015 and continues to be open for one-way traffic.

The General Plan calls for Eucalyptus Avenue to be extended west through an intersection with Redlands Boulevard as a four-lane divided roadway. In summer 2015, the ALDI warehouse project constructed a segment of Eucalyptus Avenue to the west to connect to the ALDI project site. The intersection of Eucalyptus Avenue/Redlands Boulevard has been constructed and a traffic signal was installed as part of the project as well (see Exhibit 5). Eucalyptus Avenue has been extended to Moreno Beach Drive as part of a large scale industrial development project.

## Redlands Boulevard Interchange

Redlands Boulevard/SR-60 IC is the adjacent interchange west of WLC Pkwy IC. Redlands Boulevard is a two-lane north-south arterial road that accesses the land both north and south of SR-60 which WLC Pkwy IC serves.

#### Ironwood Avenue

Ironwood Avenue is a two-lane east-west arterial road parallel to the SR-60. It terminates at Theodore Street at the Badlands Landfill access.

# Intersection LOS

Traffic counts for turning movements in the AM and PM peak hours were collected for the study intersections during typical workdays in 2017. A growth factor of 2% per year (consistent with the *City of Moreno Valley Traffic Impact Analysis Preparation Guide*<sup>1</sup>) was used to estimate the traffic volumes for the 2022 Base Conditions at the study locations. Exhibit 6 shows the turning movement volumes under the Base Conditions. Existing traffic counts are reported in detail in Appendix A. It is noted that the traffic volumes at the intersection of Redlands Boulevard and Eucalyptus Avenue were obtained from the SR-60/WLC Pkwy IC PA/ED Traffic Study Report<sup>2</sup>. The 2022 No-build scenario volumes were used.

Exhibit 4 summarizes the intersection LOS for the existing conditions. Detailed worksheets are presented in Appendix B. The LOS for all study intersections is LOS C or better in both the AM and PM peak hours.

<sup>&</sup>lt;sup>1</sup> Traffic Impact Analysis Preparation Guide, City of Moreno Valley Transportation Engineering Division, August 2007.

<sup>&</sup>lt;sup>2</sup> SR-60/World Logistics Center Parkway PA/ED Traffic Study Report, WSP, October 2018.

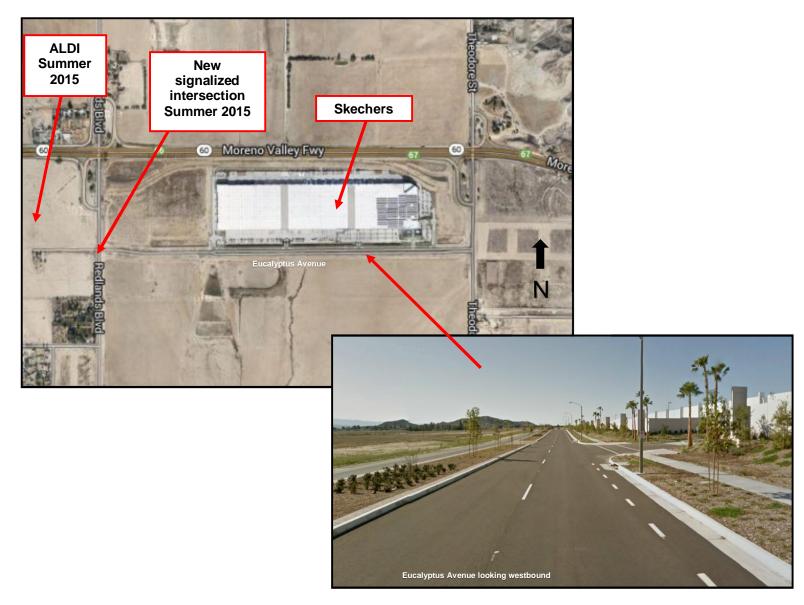
**Exhibit 4: Intersection LOS for Base Conditions (2022)** 

ID	Intersection	Traffic Control	AM Pea	ık Hour	PM Peak Hour		
טו	intersection	Trainic Control	Delay	LOS	Delay	LOS	
1	WLC Pkwy & Eucalyptus Avenue	SSSC <sup>2</sup>	15.4	С	13.3	В	
2	WLC Pkwy & SR-60 EB Ramps	SSSC <sup>2</sup>	12.7	В	9.9	Α	
3	WLC Pkwy & SR-60 WB Ramps	SSSC <sup>2</sup>	10.6	В	11.4	В	
4	Theodore Street & Ironwood Avenue	SSSC <sup>2</sup>	8.9	А	8.9	Α	
5	Redlands Boulevard & Eucalyptus Avenue	SIGNAL <sup>1</sup>	9.8	Α	6.7	Α	
6	Redlands Boulevard & SR-60 EB Ramps	SIGNAL <sup>1</sup>	12.3	В	24.7	С	
7	Redlands Boulevard & SR-60 WB Ramps	SIGNAL <sup>1</sup>	22.5	С	33.2	С	
8	Redlands Boulevard & Ironwood Avenue	SIGNAL <sup>1</sup>	12.4	В	12.8	В	

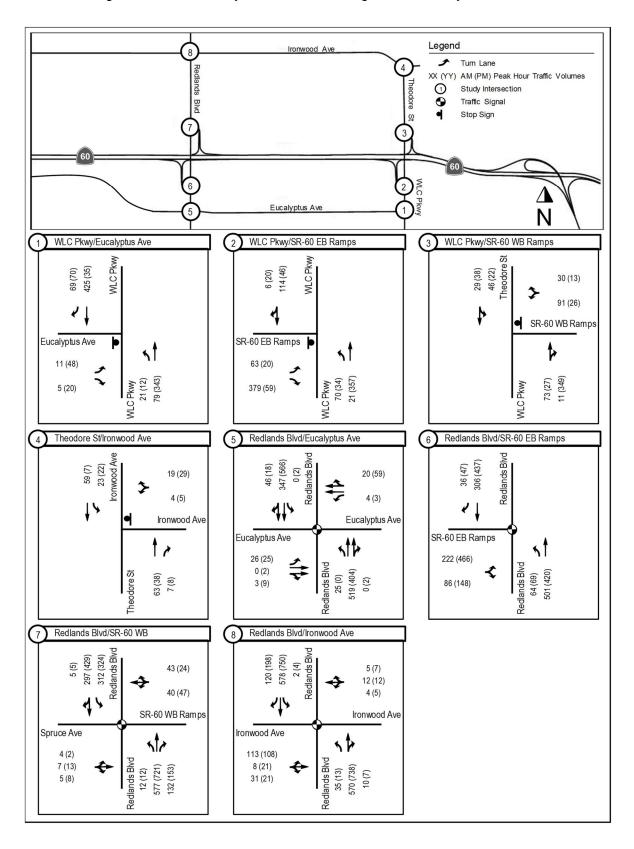
#### Notes:

<sup>1.</sup> For signalized intersections, average delay and LOS for all approaches are reported.

<sup>2. &</sup>quot;SSSC" means "side-street stop controlled." For SSSC intersections, delay and LOS for the worst performing approaches are reported.



**Exhibit 5: Current Condition of the Eucalyptus Avenue** 



**Exhibit 6: Turning Movement Volumes for Base Conditions (2022)** 

## 4. CONDITIONS WITH INTERCHANGE CLOSURE

# **Limits of Construction and Construction Staging**

Construction of the project will require the closure of WLC Pkwy at times, from north of the existing SR-60 westbound ramps to the intersection of Eucalyptus Avenue/WLC Pkwy (including the bridge over SR-60). The exact point of closure will be determined during the development of construction plans; however, it is likely that due to the grade changes the northern closure point would be beyond the driveway to the residence at 12400 WLC Pkwy. Staging would then be required to maintain access to and from the residence.

On the south side of SR-60, the differences in profile grade between proposed WLC Pkwy and existing Eucalyptus Avenue would require construction to elevate the WLC Pkwy/Eucalyptus intersection by as much as 30 feet. Due to the substantial difference between the existing and proposed grades at the intersection, the proposed plan is to close the intersection for construction and maintain an alternate route to access Eucalyptus Avenue, through Redlands Boulevard as an alternate route. As part of this, a temporary roadway would be constructed at the south west quadrant of the closed intersection to connect Eucalyptus Avenue and WLC Pkwy to the south.

Based on discussions within the design team and input provided at meetings from Caltrans, Caltrans and the team would prefer complete closure of the interchange during construction, rather than trying to build the new ramps and bridge piecemeal so that only partial closures are necessary. Complete closure is expected to substantially reduce the overall cost and timeframe for construction as well as enhancing the safety of the work environment for construction workers and motorists due to the construction challenges with the substantial difference (up to 30 feet) between the existing and the proposed roadway profile. Construction staging concepts were developed with the assumption that the interchange would be completely closed during part of the construction. It is estimated that the duration of the complete closure of the interchange would be approximately 4 months.

The conceptual staged construction and the estimated construction durations are described below. Exhibits depicting the work to be done and construction area for each construction phase are included in Appendix D.

## **Construction Phase 1**

Sub-Phase 1a – Construct portion of the proposed eastbound and westbound ramps of the interchange that are not within the footprint of the existing ramps. No roadway closure is anticipated and the interchange will remain open. (Estimated Duration: 7 months)

Sub-Phase 1b – Construct one additional lane along Eucalyptus Avenue between Redlands Boulevard and its current terminus at the western edge of the existing Skechers building to accommodate detoured traffic. Partial closure at the Eucalyptus Avenue and Redlands Boulevard intersection is anticipated but traffic access will be maintained on Redlands Boulevard. The interchange will remain open. (Estimated duration: 2 months)

Sub-Phase 1c – Construct the Eucalyptus Avenue and WLC Pkwy intersection and permanent grading for the Southern California Edison (SCE) owned poles relocation. The SCE poles relocation details and timing will be determined during final design. The WLC Pkwy and Eucalyptus Avenue intersection would be closed to all traffic movements during this phase. A temporary roadway would be constructed at the south west quadrant of the closed intersection to connect Eucalyptus Avenue and WLC Pkwy to the south. Traffic accessing in and out of the Skechers distribution facility would be detoured to the Eucalyptus Boulevard and Redlands Boulevard intersection. The interchange would remain open during this sub-phase providing access to and from the north on WLC Pkwy only. (Estimated duration: 4 months)

Sub-Phase 1d – Construct the temporary detour connecting the WLC Pkwy and Eucalyptus Avenue intersection to the existing WLC Pkwy and the freeway ramp to the north. The intersection would remain closed during this sub-phase. (Estimated duration: 1 month)

The estimated construction duration for Phase 1 is 7 months assuming that sub-phases 1b, 1c, and 1d would occur concurrently with Phase 1a.

## **Construction Phase 2**

Sub-phase 2a – Construct WLC Pkwy north and south of the existing bridge over SR-60 to join with the newly constructed ramps from sub-phase 1a. The interchange will be completely closed to all traffic movements during this sub-phase for approximately 4 months. (Estimated duration: 4 months)

Sub-phase 2b – Demolish the existing ramps and construct the remaining portion of the proposed ramps and approaches of the interchange. Portion of the work in this sub-phase can be done concurrently with sub-phase 2a to minimize the need for other roadway closures. (Estimated duration: 4 months)

The estimated construction duration for Phase 2 is 6 months with some overlaps of the two sub-phases.

#### **Construction Phase 3**

Sub-phase 3a – Construct the new WLC Pkwy bridge over SR-60. The WLC Pkwy bridge will be closed but the newly constructed freeway ramps will be open during this sub-phase. Some of the bridge work could overlap with work in phase 2 to reduce construction duration. The final design of the bridge and bridge type will determine the duration of the construction. (Estimated duration: 10 months)

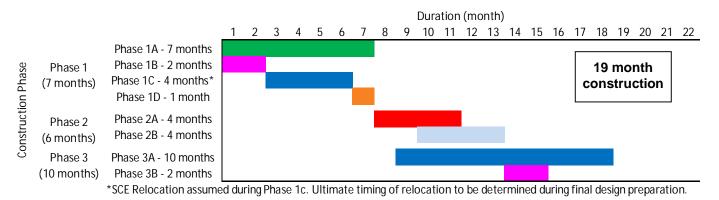
Sub-phase 3b – Widening of WLC Pkwy near Ironwood Avenue. Partial closure of the Theodore Street at Ironwood Avenue is anticipated. (Estimated duration: 2 months)

The estimated construction duration for Phase 3 is 10 months with sub-phase 3b occurring concurrently with sub-phase 3a.

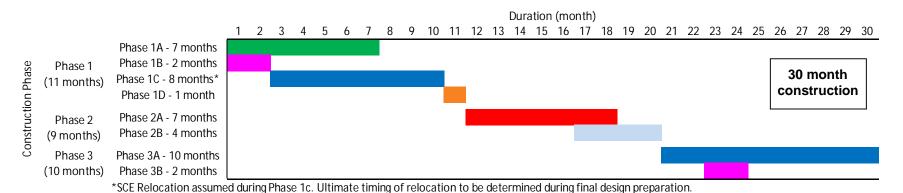
It is estimated that the construction staging strategy with the interchange completely closed for 4 months as described above, would reduce the overall project construction duration from 30 months to 19 months. Construction with partial closure of the interchange and allowing traffic flow at the ramps and on WLC Pkwy throughout the course of construction would require the widening of WLC Pkwy to be done for half of the roadway at a time, which would substantially increase the duration for sub-phases 1c and 2a, which would then push back the start of the bridge construction in sub-phase 3a. In addition, widening WLC Pkwy in two settings would be challenging due to the substantial difference (up to 30 feet) between the existing and the proposed roadway profile. Temporary shoring would be required along WLC Pkwy. The estimated construction duration comparison between the construction staging with and without the complete interchange closure is presented in Exhibit 7.

It is estimated that the construction cost of the roadway widening portion would be reduced by 25% to 35% with the complete interchange closure during construction. Due to the substantial difference in the proposed roadway profile on WLC Pkwy, temporary shoring along the roadway would be required to allow traffic on WLC Pkwy during construction. This would not be needed if the roadway and interchange are completely closed to traffic. The effort and cost required for traffic control would be reduced as well.

# Estimated Construction Duration with 4 Month Complete Interchange Closure



Estimated Construction Duration without Complete Interchange Closure (Build half of WLC Pkwy with shoring)



**Exhibit 7: Estimated Construction Duration Comparison** 

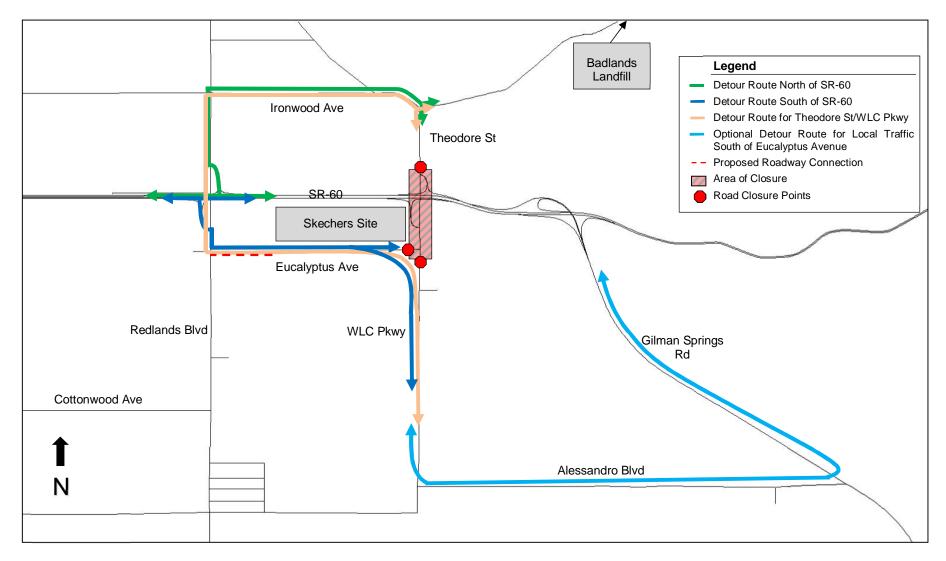
# Proposed Closure Conditions: Eucalyptus Avenue Extension

The proposed conditions would be to extend Eucalyptus Avenue from its current terminus at the western edge of the developed Skechers site to Redlands Boulevard. The proposed condition would be to widen Eucalyptus Avenue to accommodate detoured traffic during the closure of the SR-60/WLC Pkwy IC. There currently exists a single-lane access road. Highland Corporate Park is conditioned to extend and widen Eucalyptus Avenue to its ultimate condition between Redlands Boulevard and WLC Pkwy as their development expands. The timing of Highland Corporate Park's ultimate improvements on Eucalyptus Avenue is not known. As a result, if the ultimate improvements on Eucalyptus Avenue are not constructed by Highlands Corporate Park at the time it is required for the SR-60/WLC Pkwy IC detoured traffic, an additional lane will be added between Redlands Boulevard and the existing Skechers building as part of the SR-60/WLC Pkwy IC project with the reimbursement of the costs to be collected from Highland Corporate Park.

#### **Detour Routes**

Detour routes have been developed to provide access between SR-60 and the land uses north and south of the freeway (shown in Exhibit 8). The detour routes utilize the most direct roadways consistent with existing travel patterns. The detour routes will use the Redlands Boulevard interchange which is located approximately one mile to the west of the proposed WLC Pkwy IC.

The re-distribution of existing traffic was based on a review of the roadway network characteristics including lanes and intersection controls, existing travel patterns, existing turning movement traffic counts, and use of the travel demand forecasting model to observe regional travel patterns. Individual roadway segments adjacent to the WLC Pkwy interchange were selected in the model and trips to/from each link were isolated. The "Select Link Analysis" provided an estimation of directional travel patterns outside of the study area. For example, the Select Link Analysis showed that trips accessing Eucalyptus Avenue from the south primarily originated in the west, which indicates that those motorists could more conveniently use the Eucalyptus Avenue Extension instead of the Eucalyptus Avenue/WLC Pkwy intersection.



**Exhibit 8: Proposed Detour Routes During Interchange Closure** 

# Detour Route North of SR-60 (shown in green in Exhibit 8)

Traffic from the Badlands Landfill and residential land uses to the north of SR-60 will use Ironwood Avenue and Redlands Boulevard to access the Redlands Boulevard interchange with SR-60. This path would require that Ironwood Avenue between Redlands Boulevard and WLC Pkwy be designated as a temporary truck route to accommodate waste disposal trucks going to and from the landfill (it is not currently a designated truck route).

# Detour Route to Skechers of SR-60 (shown in blue in Exhibit 8)

Trips to and from the Skechers distribution center will use the Redlands Boulevard Interchange, a short section of Redlands Boulevard, and the Eucalyptus Avenue Extension. This path would require that the short section of Redlands Boulevard, south of the eastbound off-ramp, and the Eucalyptus Avenue Extension be used for truck access and will require it to be open for 2-way access for all vehicles. Emergency services will continue to access the Skechers distribution center on the west side from Redlands Boulevard.

## Detour Route to Houses along WLC Pkwy (shown in brown in Exhibit 8)

Trips to and from the five residences along WLC Pkwy will use the bypass road and route around Redlands Boulevard. Local traffic may also use Alessandro Boulevard to access Gilman Springs Road and the Gilman Springs Road interchange to access SR-60.

It is noted that in January 2015, the existing WLC Pkwy bridge was struck by a truck traveling on the SR-60 mainline. This incident resulted in a complete closure of the WLC Pkwy bridge for emergency repairs. During the bridge closure, the same detour routes as proposed in this study were put in place to detour traffic.

#### Traffic Re-Distribution During Construction

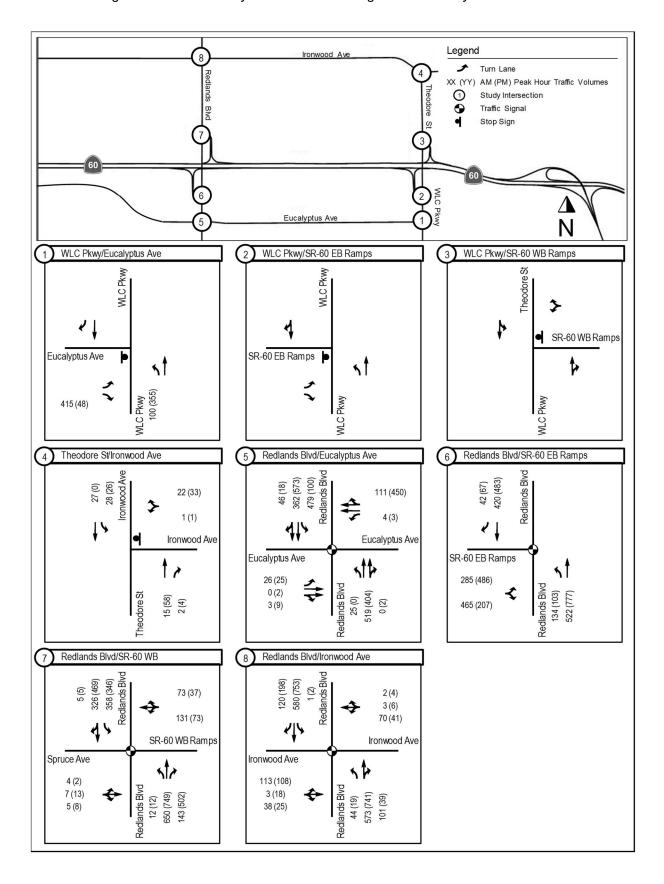
The base condition traffic volumes at the WLC Pkwy IC were distributed through the study intersections based on the primary detour routes, consistent with baseline traffic patterns in the area. Exhibit 9 shows the resulting intersection traffic volumes for the "Project Construction Conditions" at the study intersections.

A conservative approach, assuming all the respective existing traffic volumes at the closed ramp will be diverted to the primary detour routes, was applied to identify the traffic impacts under the worst-case scenario for the interchange closure. It is possible that a certain amount of traffic will be diverted to routes other than the identified primary detour routes and some travelers will adjust their travel plans to avoid the area with closures. Therefore, the actual traffic volumes diverted to the primary detour routes could be less than those identified in the report.

# Intersection LOS During Project Construction

Traffic operations at the study intersections were evaluated for the project construction Conditions to determine if distributed traffic would cause negative impacts to the intersection's operations. Intersection operations were evaluated using the Synchro software, and are consistent with the WLC Pkwy IC PA/ED study. The existing conditions' traffic operations in this study are consistent with the findings from the PA/ED study. In addition, no improvement projects were assumed to be completed to the study intersections prior to the beginning of project construction; therefore, the intersection geometries and signal phasing have been assumed to remain consistent with existing conditions.

Exhibit 10 summarizes the peak hour delay and LOS forecasted for existing and the project construction conditions. Detailed worksheets are presented in Appendix C.



**Exhibit 9: Forecasted Turning Movement Volumes during Project Construction Conditions (2022)** 

Exhibit 10: Forecasted Intersection LOS during Project Construction (2022)

			Bas	se Condi	tions (20	)22)	Base Conditions + Construction (2022)			
ID	Intersection	Traffic Control	AM Pea	ak Hour	PM Pea	k Hour	AM Pea	ak Hour	PM Peak Hour	
		Control	Delay (sec/v eh)	LOS	Delay (sec/v eh)	LOS	Delay (sec/v eh)	LOS	Delay (sec/v eh)	LOS
1	WLC Pkwy & Eucalyptus Avenue	SSSC <sup>2</sup>	15.4	С	13.3	В	Closed during Project Construction			
2	WLC Pkwy & SR-60 EB Ramps	SSSC <sup>2</sup>	12.7	В	9.9	Α	(Вур	does not	t have	
3	WLC Pkwy & SR-60 WB Ramps	SSSC <sup>2</sup>	10.6	В	11.4	В	i	ntersectio	n control)	5
4	Theodore Street & Ironwood Avenue	SSSC <sup>2</sup>	8.9	А	8.9	А	8.5	А	9.0	А
5	Redlands Boulevard & Eucalyptus Avenue	SIGNAL <sup>1</sup>	9.8	Α	6.7	Α	20.0	В	11.9	В
6	Redlands Boulevard & SR-60 EB Ramps	SIGNAL <sup>1</sup>	12.3	В	24.7	С	37.9	D	38.6	D
7	Redlands Boulevard & SR-60 WB Ramps	SIGNAL <sup>1</sup>	22.5	С	33.2	С	26.6	С	28.4	С
8	Redlands Boulevard & Ironwood Avenue	SIGNAL <sup>1</sup>	12.4	В	12.8	В	18.2	В	16.6	В

#### Notes:

All study intersections would operate at the target LOS of "D" or better during the AM and PM peak hours during construction. Therefore, no capacity increasing improvements are needed to accommodate the additional traffic demand at the study intersections.

#### Travel Time

Travel time was determined for scenarios before and after the WLC Pkwy IC closure to assess the additional time required to travel on the detour routes and to determine whether unreasonable inconvenience would occur as a result of the proposed detours. The travel time estimates were conducted using roadway travel distances and posted speed limits to calculate a route travel time.

Given the relatively low congestion and delay along the roadways and intersections in the study area, the Time-Speed approach was deemed sufficient for travel time estimations. However, all detour routes were driven to ensure that they were free of constraints that may hinder free-flow travel. Exhibit 11 provides the estimated travel times between SR-60 and key origins within the study area for existing conditions and project construction conditions. The intent of estimating travel time between SR-60 and points of interest within the area is to better understand how a typical motorist would be affected by the WLC Pkwy IC closure. Traffic counts and field observations indicate that most traffic along WLC Pkwy uses SR-60; therefore, selecting destination points on SR-60 was intended to mimic existing travel patterns.

For example, Exhibit 11 provides an estimate of the distance and travel time from the Theodore Street/Ironwood Avenue intersection to a point on SR-60 west of the Redlands Boulevard ramps. The route is a common route for vehicles traveling between areas within Moreno Valley and the Badlands Landfill. The exhibit provides distance and estimated travel time increases to be expected during the project construction conditions.

The travel time along the routes refers to the time spent traveling along each respective detour. Time is rounded to the nearest minute.

<sup>1.</sup> For signalized intersections, average delay and LOS for all approaches are reported.

<sup>2. &</sup>quot;SSSC" means "side-street stop controlled." For SSSC intersections, delay and LOS for the worst performing approach are reported.

<sup>3.</sup> Assumes the Eucalyptus Avenue Extension is open.

**Exhibit 11: Travel Time and Distance Estimates** 

Travel Time	Existing Conditions	Project Construction Conditions*	Difference	
From SR-60 West of Redlands Boulevard to:				
Theodore Street/Ironwood Avenue	1.4 miles	1.5 miles	0.1 miles	
Theodore Street/Horlwood Avenue	2 minutes	2 minutes	< 1 minute	
WLC Pkwy/Eucalyptus Avenue	1.4 miles	1.4 miles	0 miles	
VVEO F KWy/Eucaryptus Avenue	2 minutes	2 minutes	< 1 minute	
Skechers Distribution Site – Vehicle Access	1.7 miles	1.1 miles	-0.6 miles	
Skechers Distribution Site — Vehicle Access	2 minutes	2 minutes	< 1 minute	
Skechers Distribution Site – Truck Access	2.0 miles	0.7 miles	-1.3 miles	
Skecilers Distribution Site – Truck Access	3 minutes	1 minutes	-1 minute	
WLC Pkwy/Dracaea Avenue	2.1 miles	3.8 miles	1.7 miles	
	3 minutes	6 minutes	3 minutes	
From SR-60 East of Gilman Springs Road to:				
Theodore Street/Ironwood Avenue	1.6 miles	3.7 miles	2.1 miles	
Theodore Street/Horiwood Avende	2 minutes	5 minutes	3 minutes	
WLC Pkwy/Eucalyptus Avenue	1.0 miles	3.2 miles	2.1 miles	
VVEO F KWy/Eucaryptus Avenue	1 minute	3 minutes	2 minutes	
Skechers Distribution Site – Vehicle Access	1.3 miles	2.9 miles	1.5 miles	
Overliera Distribution Site — Verlicie Access	1 minute	3 minutes	2 minutes	
Skechers Distribution Site – Truck Access	1.8 miles	2.3 miles	0.7 miles	
Overlieta Distribution Site - Truck Access	2 minutes	3 minutes	1 minute	
WLC Pkwy/Dracaea Avenue	1.6 miles	4.7 miles	3.1 miles	
WEO I KWy/Diacasa Avellue	2 minutes	7 minutes	5 minutes	

#### \*Notes:

- Travel times represent approximations based on distance and posted speed limit calculation and do not include stopped time at intersections. Minimum travel time shown as "< 1 minute".
- "Vehicle Access" was assumed to be the driveway approximately 1,600 feet from WLC Pkwy.
- "Truck Access" was assumed to be the driveway approximately 3,600 feet from WLC Pkwy.

As can be seen in Exhibit 11, most travelers coming from or going to places west of Redlands Boulevard on SR-60 (76% of current WLC Pkwy IC users) would experience little, if any, delay as a result of the closure of the WLC Pkwy IC. In fact, the extension of Eucalyptus Avenue will decrease the distance and travel time for the largest group of users of the WLC Pkwy IC, namely to and from the Skechers distribution site. As shown in Exhibit 8, the truck access for the Skechers site and the west will decrease by over one mile; passenger car access to the site will decrease by over half a mile (passenger cars typically enter the site from a different driveway than trucks). The only notable inconvenience to/from areas west of the site would be travelers to and from the five residences along WLC Pkwy south of Eucalyptus Avenue, who would travel an additional 1.7 miles (approximately 3 minutes) to reach SR-60 at Redlands Boulevard.

The 23% of current WLC Pkwy IC users traveling to or from SR-60 east of Gilman Springs Road IC would experience increases in travel time of 1 to 3 minutes, with the exception of travelers to and from the five residences along WLC Pkwy south of Eucalyptus Avenue, who would travel an additional 3.1 miles (approximately 5 minutes) to reach SR-60 at Gilman Springs Road.

#### Emergency Response Travel Time

Emergency response travel time was considered when evaluating the detour routes associated with the closure of the WLC Pkwy IC. Access to the Skechers site by the Moreno Valley Fire Department was analyzed to determine the amount of delay that would be added to their response times with the closure of the interchange. The calculated travel time delay was compared to the Moreno Valley Fire Department

goal of responding within a five minute response time to 90% of the calls (Moreno Valley Fire Department Strategic Plan, December 2011).

The closest fire station to the Skechers distribution site is the Moreno Beach Fire Station #58, located at 28040 Eucalyptus Avenue. Eucalyptus Avenue has recently been constructed and opened to connect to Redlands Boulevard. This allows for access directly to the Skechers site.

Field observations noted that fire response vehicles, while responding to a call, used the open "truck" entrance along the western edge of the Skechers site. The other access gates along Eucalyptus are closed and not staffed, whereas the gates at the western edge of the site are staffed so that they can be opened for the fire department. For purposes of this evaluation, emergency response vehicles were assumed to access the site via the driveway on the western end of the Skechers distribution site.

Estimated travel times for emergency response were calculated similar to passenger car and truck travel times, by using a speed-distance calculation. The estimated travel times do not account for stoppage time.

With Eucalyptus Avenue extending to connect to Redlands Boulevard, the distance required to access the site decreases by 1.4 miles, resulting in an approximately 90 seconds of response time savings. The emergency travel time to the Skechers site is less than one minute.

Emergency access from the Moreno Beach Fire Station #58 site to the five residences south of the WLC Pkwy IC would remain the same. The access route will be on Eucalyptus Avenue to WLC Pkwy.

## Heavy Vehicle Traffic

Intersections along the detour routes were evaluated to determine if the addition of heavy vehicle turning movements could be accommodated. Field observations and a review of the City of Moreno Valley Truck Routes found that heavy vehicles already successfully make turns at intersections under existing conditions. The following intersections require special attention for project construction conditions:

## Redlands Boulevard/Ironwood Avenue

The detour route between the SR-60 Redlands Boulevard interchange and the Badlands Landfill would require heavy vehicles to make a northbound right-turn and westbound left-turn at the Redlands Boulevard/Ironwood Avenue intersection. At the present time, this turning movement is not frequently made by heavy vehicles. Exhibit 12 shows a truck turning analysis at the intersection to determine if heavy vehicles could make the turning movements without impacting vehicles in adjacent travel lanes. As shown, the truck template goes beyond the existing footprint of the intersection. Therefore, the southeast quadrant of this intersection will need to be improved to accommodate the detoured trucks.

#### Alessandro Boulevard/ WLC Pkwy

Exhibit 13 shows a truck turning analysis at the intersection to determine if heavy vehicles could make the turning movements. As shown, the truck template goes beyond the existing footprint of the intersection. Therefore, the intersection will need to be improved to accommodate the detoured trucks.

## Alessandro Boulevard/Gilman Springs Road

Exhibit 14 shows a truck turning analysis at the intersection to determine if heavy vehicles could make the turning movements. As shown, the truck template goes beyond the existing footprint of the intersection. Therefore, the southwest and southeast quadrants of this intersection may need to be improved to accommodate the detoured vehicles.

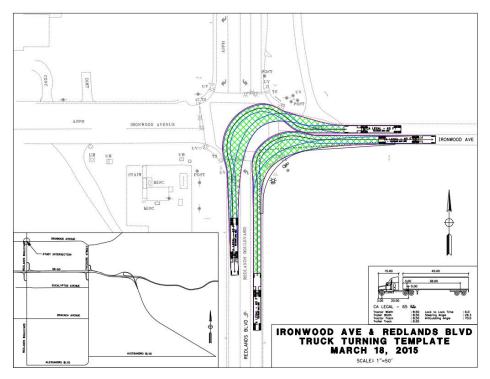


Exhibit 12: Truck Turning Analysis at Redlands Boulevard / Ironwood Avenue Intersection

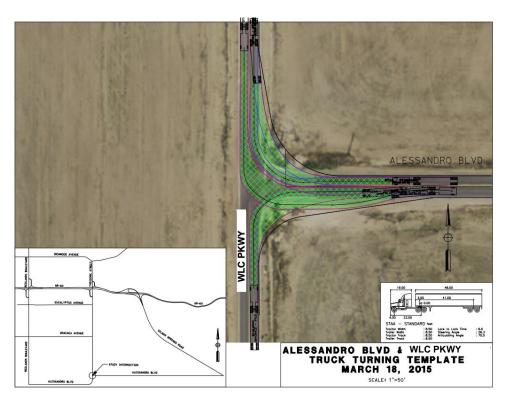


Exhibit 13: Truck Turning Analysis at Alessandro Boulevard / WLC Pkwy Intersection

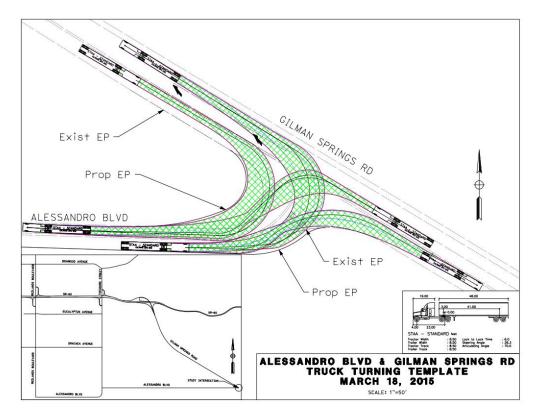


Exhibit 14: Truck Turning Analysis at Alessandro Boulevard / Gilman Springs Road Intersection

# Bicycle and Pedestrian Traffic

Bicycle and pedestrian crossings of the WLC Pkwy IC will be prohibited during construction. Bicyclists and pedestrians should be detoured to the Redlands Boulevard freeway crossing. Additionally, temporary paving or grading could be included on the same side as the pedestrian walkway on the bridge. The Redlands Boulevard IC, similar to the WLC Pkwy IC, has striped hard shoulders and a sidewalk on the west side of the bridge. Therefore, no significant impact due to degradation of facilities is expected for bicyclists and pedestrians.

# 5. CONCLUSIONS

The closure of the WLC Pkwy IC would require existing traffic to be diverted to adjacent roadways and the Redlands Boulevard interchange. The evaluations completed as part of this study found that the detour routes and study intersections could accommodate the detoured vehicles while maintaining an acceptable Level of Service. Closure of the WLC Pkwy IC with proper notice and planning will not adversely impact the existing traffic operations in the study area. Inconveniences to motorists would be minimal given the close proximity and relative ease of access to the Redlands Boulevard IC.

Time-delay analysis and intersection operational analysis were performed for the proposed primary detour routes associated with the WLC Pkwy IC closure to identify the potential traffic impacts due to the closure. The analysis found that all study intersections would continue to operate at acceptable levels during construction of the project.

In addition, travel times of the existing routes and the proposed primary detour routes for the interchange closure scenario were determined for free-flow conditions. The travel time delay analysis concluded that all the proposed detour routes for the closure would impose a less than one minute delay to motorists traveling to/from the west on SR-60. Motorists travelling to/from the east, which represent a smaller amount of traffic, would incur an approximate 2:00 minute delay.

Completion of the Eucalyptus Avenue Extension prior to initiation of the project would reduce travel delay for motorists on Eucalyptus Avenue, when compared to existing conditions. The completion of the Eucalyptus Avenue Extension would allow for the WLC Pkwy/Redlands Boulevard intersection to be closed for the entire construction period with increased delay to only a small percentage of motorists in the area.

The goals and objectives of the interchange closure are to enhance safety to the work environment for both the work force and motoring public as well as minimizing delays for motorists. Based on the existing and future forecasted traffic volumes, the WLC Pkwy IC is considered an interchange with low traffic volumes. The analysis in this study revealed that the intersections along the detour routes would operate at an acceptable Level of Service and thus the impacts on motorists would not be significant. In addition, having complete closure of the interchange for 4 months during construction would reduce the construction duration when compared to having partial closure of the WLC Pkwy bridge. Complete interchange closure would reduce the overall construction duration by approximately 11 months with a cost savings of 25% to 35% on the overall construction costs. In general, construction costs are reduced due to multiple contractor mobilizations for various construction trades, a reduction in the traffic control needed for multiple stages, and more efficient construction activities. To ensure the 4-month closure duration is successful, controls will be placed on the contractor as well as maintain close coordination with Caltrans and the community.

## Recommendations

The WLC Pkwy IC project is not expected to adversely impact businesses and residences in the area; however, the following measures are recommended:

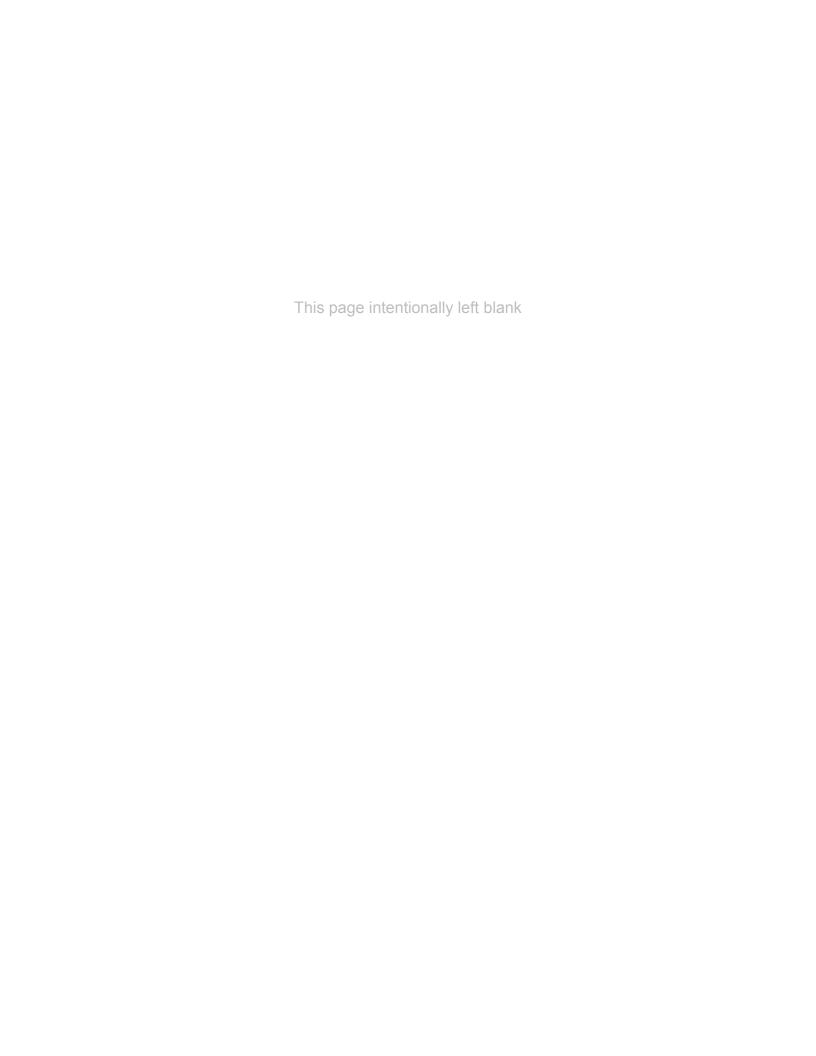
- Partially close Theodore Street north of the SR-60 westbound on/off ramp intersection and provide continued access to local land owners during the closure. (Phase 2)
- Partially close WLC Pkwy south of the WLC Pkwy/Eucalyptus Avenue intersection. (Phase 1)
- Post notifications at the Badlands Landfill, along landfill access road, and at the Ironwood Avenue/Theodore Street intersection to notify trucks of the closure of WLC Pkwy and its detour route.
- Install temporary Truck Route Detour signage (SC3 CA DETOUR with arrow supplement to R14-1 TRUCK ROUTE) to direct trucks along Ironwood Avenue and Redlands Boulevard between the Badlands Landfill and SR-60 (to provide special notice to Badlands Landfill-related truck trips, in addition to standard detour signage, as needed).

- Install temporary Truck Route Detour signage (SC3 CA DETOUR with arrow supplement to R14-1 TRUCK ROUTE) to direct trucks along the short section of Redlands Boulevard, south of the eastbound off-ramp, and the Eucalyptus Avenue Extension.
- Create one point of contact within the City of Moreno Valley and/or Caltrans to provide closure information to requesting parties.
- Post notifications at intersections along Alessandro Boulevard and Redlands Boulevard to alert northbound motorists of the WLC Pkwy closure.
- Provide proper notification and continued communication for all affected groups as part of the public outreach program in the Transportation Management Plan including:
  - Local businesses
  - Local agencies (City of Moreno Valley and County of Riverside public services)
  - Emergency response services (Moreno Valley Fire Department, Riverside County Fire Department, and local ambulance services, etc.)
  - Law enforcement agencies (City of Moreno Valley Police Department, County of Riverside Sheriff, California Highway Patrol, etc.)
  - Local school districts
  - Trucking industry
  - Chamber of Commerce and local politicians
- Conduct an open house Town Hall meeting to discuss the interchange closure plan with the public.
- Notify the public of the pending interchange closure through multiple media outlets by sending informational notices, issuing press releases, and making public service radio announcements, etc.
  - o Form an email interest/distribution list for updates
  - Create a project website for updates
- Involve the City of Moreno Valley and County of Riverside Traffic Engineer in interchange closure actions as needed.
- Include elements as listed in the Transportation Management Plan attached in Appendix E.
- Provide improvements at the following intersections:
  - Redlands Boulevard/Ironwood Avenue Improve the southeast quadrant of this intersection to accommodate the detoured trucks.
  - Alessandro Boulevard/WLC Pkwy Improve intersection to accommodate the detoured trucks.
  - Alessandro Boulevard/Gilman Springs Road Improve intersection to accommodate the detoured vehicles.

# SR-60/WORLD LOGISTICS CENTER PARKWAY INTERCHANGE CLOSURE STUDY

# **Appendix A**

**Traffic Counts** 



City of Moreno Valley N/S: Theodore Street E/W: Eucalyptus Avenue

Weather: Clear

File Name: 04\_MRV\_Theodore\_Eucalyptus AM Site Code: 09817323

Start Date : 5/31/2017

Page No : 1

Groups Printed- Cars & Trailers - Large 2 Axle Vehicles - 3 Axle Vehicles - 4 Axle Trucks - 5 Axle Trucks - 6+ Axle Trucks - Buses & RV's Motorcycles - Bicycles - Medium Truck

Motorcycles - Bicycles - Medium Truck										
		eodore Stre			heodore Stre		Euc	alyptus Ave		
		<u>Southbound</u>			Northbound			Eastbound		
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
07:00 AM	7	7	14	1	8	9	1	0	1	24
07:15 AM	17	11	28	4	11	15	2	0	2	45
07:30 AM	15	15	30	6	12	18	0	2	2	50
07:45 AM	14	16	30	7	13	20	2	2	4	54
Total	53	49	102	18	44	62	5	4	9	173
08:00 AM	10	23	33	15	12	27	2	1	3	63
08:15 AM	12	34	46	10	10	20	2	4	6	72
08:30 AM	12	26	38	6	12	18	9	27	36	92
08:45 AM	10	17	27	2	12	14	4	5	9	50
Total	44	100	144	33	46	79	17	37	54	277
·				•						
Grand Total	97	149	246	51	90	141	22	41	63	450
Apprch %	39.4	60.6		36.2	63.8		34.9	65.1		
Total %	21.6	33.1	54.7	11.3	20	31.3	4.9	9.1	14	
Cars & Trailers	45	117	162	47	44	91	13	37	50	303
% Cars & Trailers	46.4	78.5	65.9	92.2	48.9	64.5	59.1	90.2	79.4	67.3
Large 2 Axle Vehicles	0	1	1	0	0	0	0	0	0	1
% Large 2 Axle Vehicles	0	0.7	0.4	0	0	0	0	0	0	0.2
3 Axle Vehicles	0	2	2	0	0	0	1	0	1	3
% 3 Axle Vehicles	0	1.3	0.8	0	0	0	4.5	0	1.6	0.7
4 Axle Trucks	1	2	3	0	0	0	1	0	1	4
% 4 Axle Trucks	1	1.3	1.2	0	0	0	4.5	0	1.6	0.9
5 Axle Trucks	43	13	56	0	40	40	3	0	3	99
% 5 Axle Trucks	44.3	8.7	22.8	0	44.4	28.4	13.6	0	4.8	22
6+ Axle Trucks	0	1	1	0	0	0	0	0	0	1
% 6+ Axle Trucks	0	0.7	0.4	0	0	0	0	0	0	0.2
Buses & RV's	0	0	0	0	0	0	0	0	0	0
% Buses & RV's	0	0	0	0	0	0	0	0	0	0
Motorcycles	0	1	1	0	0	0	0	0	0	1
% Motorcycles	0	0.7	0.4	0	0	0	0	0	0	0.2
Bicycles	0	1	1	0	0	0	0	1	1	2
% Bicycles	0	0.7	0.4	0	0	0	0	2.4	1.6	0.4
Medium Truck	8	11	19	4	6	10	4	3	7	36
% Medium Truck	8.2	7.4	7.7	7.8	6.7	7.1	18.2	7.3	11.1	8

	Th	Theodore Street			neodore Str	eet	Euc	enue		
	;	Southbound	l		Northbound	t				
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis Fro	m 07:00 AM	to 08:45 AM	1 - Peak 1 of	1						
Peak Hour for Entire Int	ersection Beg	gins at 07:4	5 AM							
07:45 AM	14	16	30	7	13	20	2	2	4	54
08:00 AM	10	23	33	15	12	27	2	1	3	63
08:15 AM	12	34	46	10	10	20	2	4	6	72
08:30 AM	12	26	38	6	12	18	9	27	36	92
Total Volume	48	99	147	38	47	85	15	34	49	281
% App. Total	32.7	67.3		44.7	55.3		30.6	69.4		
PHF	.857	.728	.799	.633	.904	.787	.417	.315	.340	.764

City of Moreno Valley N/S: Theodore Street E/W: Eucalyptus Avenue Weather: Clear

File Name: 04\_MRV\_Theodore\_Eucalyptus AM Site Code: 09817323

Start Date : 5/31/2017 Page No : 1

Groups Printed- Care & Trailers

					ed- Cars &						
	T	heodore St	reet	T	heodore Str	eet	Eu	enue			
		Southboun	nd		Northbound			Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total	
07:00 AM	5	4	9	1	7	8	0	0	0	17	
07:15 AM	10	6	16	4	10	14	1	0	1	31	
07:30 AM	9	10	19	5	6	11	0	1	1	31	
07:45 AM	4	13	17	7	6	13	1	1	2	32	
Total	28	33	61	17	29	46	2	2	4	111	
08:00 AM	6	19	25	13	3	16	1	1	2	43	
08:15 AM	3	29	32	9	5	14	1	4	5	51	
08:30 AM	3	22	25	6	5	11	6	25	31	67	
08:45 AM	5	14	19	2	2	4	3	5	8	31	
Total	17	84	101	30	15	45	11	35	46	192	
Grand Total	45	117	162	47	44	91	13	37	50	303	
Apprch %	27.8	72.2		51.6	48.4		26	74			
Total %	14.9	38.6	53.5	15.5	14.5	30	4.3	12.2	16.5		

	Theodore Street			Th	neodore Str	eet	Euc	enue		
	;	Southbound	d		Northboun	d				
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1										
Peak Hour for Entire In	tersection B	egins at 07	:45 AM							
07:45 AM	4	13	17	7	6	13	1	1	2	32
MA 00:80	6	19	25	13	3	16	1	1	2	43
08:15 AM	3	29	32	9	5	14	1	4	5	51
08:30 AM	3	22	25	6	5	11	6	25	31	67
Total Volume	16	83	99	35	19	54	9	31	40	193
% App. Total	16.2	83.8		64.8	35.2		22.5	77.5		
PHF	.667	.716	.773	.673	.792	.844	.375	.310	.323	.720

City of Moreno Valley N/S: Theodore Street E/W: Eucalyptus Avenue

Weather: Clear

File Name: 04\_MRV\_Theodore\_Eucalyptus AM Site Code: 09817323

Start Date : 5/31/2017 Page No : 1

Grou	ps	Printea-	Larg	je z	Axie	venicies
			. ~		-	

Croupe i finted Edige 2 7 title verificies										
			Т			Euc				
	Southbound			Northboun	d					
Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total	
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	1	
0	0	0	0	0	0	0	0	0	0_	
0	1	1	0	0	0	0	0	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	1	1	0	0	0	0	0	0	1	
0	100		0	0		0	0			
0	100	100	0	0	0	0	0	0		
	Thru 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Southbound   Thru	Theodore Street Southbound  Thru Right App. Total  0 0 0 0 0 0 0 0 1 1 0 0 0 0 1 1  0	Theodore Street Southbound  Thru Right App. Total Left  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	Theodore Street Southbound Thru Right App. Total Left Thru  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Theodore Street Southbound         Theodore Street Northbound           Thru         Right         App. Total         Left         Thru         App. Total           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         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0 <t< td=""><td>Theodore Street Southbound         Theodore Street Northbound         Euc Southbound           Thru         Right         App. Total         Left         Thru         App. Total         Left           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         0         0           0         0         0         0         0         0         0           0         0         0         0         0         0         0           0         0         0         0         0         0         0           0         0         0         0         0         0         0           0         0         0         0         0         0         0</td><td>Theodore Street Southbound         Theodore Street Northbound         Eucalyptus Ave Eastbound           Thru         Right         App. Total         Left         Thru         App. Total         Left         Right           0</td><td>Theodore Street Southbound         Theodore Street Southbound         Eucalyptus Avenue Eastbound           Thru         Right         App. Total         Left         Thru         App. Total         Left         Right         App. Total           0</td></t<>	Theodore Street Southbound         Theodore Street Northbound         Euc Southbound           Thru         Right         App. Total         Left         Thru         App. Total         Left           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         0         0           0         0         0         0         0         0         0           0         0         0         0         0         0         0           0         0         0         0         0         0         0           0         0         0         0         0         0         0           0         0         0         0         0         0         0	Theodore Street Southbound         Theodore Street Northbound         Eucalyptus Ave Eastbound           Thru         Right         App. Total         Left         Thru         App. Total         Left         Right           0	Theodore Street Southbound         Theodore Street Southbound         Eucalyptus Avenue Eastbound           Thru         Right         App. Total         Left         Thru         App. Total         Left         Right         App. Total           0	

	Т	Theodore Street			heodore St	reet	Eu			
	Southbound				Northboun	d	Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 07:45 A	M to 08:30 A	AM - Peak 1 d	of 1				_		
Peak Hour for Entire Ir	ntersection E	Begins at 07	:45 AM							
07:45 AM	0	0	0	0	0	0	0	0	0	0
MA 00:80	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0		0	0		0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

City of Moreno Valley N/S: Theodore Street E/W: Eucalyptus Avenue Weather: Clear

File Name: 04\_MRV\_Theodore\_Eucalyptus AM Site Code: 09817323

Start Date : 5/31/2017 Page No : 1

Groups Printed- 3 Axle Vehicles

Groups Frinted- 3 Axie Verlicles										
		neodore Str		Т	heodore Str		Eucalyptus Avenue Eastbound			
	Southbound				Northboun	d				
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	0	0	0_
Total	0	0	0	0	0	0	0	0	0	0
08:00 AM	0	1	1	0	0	0	0	0	0	1
08:15 AM	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	1	0	1	1
08:45 AM	0	1	1	0	0	0	0	0	0	1_
Total	0	2	2	0	0	0	1	0	1	3
Grand Total	0	2	2	0	0	0	1	0	1	3
Apprch %	0	100		0	0		100	0		
Total %	0	66.7	66.7	0	0	0	33.3	0	33.3	

	Т	Theodore Street			heodore St	reet	Eucalyptus Avenue			
		Southbound			Northboun	d	Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 07:45 A	M to 08:30 /	AM - Peak 1 c	of 1				-		
Peak Hour for Entire Ir	tersection E	Begins at 07	:45 AM							
07:45 AM	0	0	0	0	0	0	0	0	0	0
08:00 AM	0	1	1	0	0	0	0	0	0	1
08:15 AM	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	1	0	1	1_
Total Volume	0	1	1	0	0	0	1	0	1	2
% App. Total	0	100		0	0		100	0		
PHF	.000	.250	.250	.000	.000	.000	.250	.000	.250	.500

City of Moreno Valley N/S: Theodore Street E/W: Eucalyptus Avenue Weather: Clear

File Name: 04\_MRV\_Theodore\_Eucalyptus AM Site Code: 09817323

Start Date : 5/31/2017 Page No : 1

Groups Printed- A Ayla Trucks

	_			roups Prini				calyptus Ave		
		heodore Str		11	heodore Str		Euc			
		Southbound			Northbound	d				
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	0
07:45 AM	1	11	2	0	0	0	0	0	0	2
Total	1	1	2	0	0	0	0	0	0	2
08:00 AM	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	1	1	0	0	0	1	0	1	2
08:30 AM	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	0
Total	0	1	1	0	0	0	1	0	1	2
Grand Total	1	2	3	0	0	0	1	0	1	4
Apprch %	33.3	66.7		0	0		100	0		
Total %	25	50	75	0	0	0	25	0	25	

	TI	Theodore Street			heodore St	reet	Euc			
	Southbound				Northboun	d	Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 07:45 Al	M to 08:30 A	AM - Peak 1 c	of 1				-		
Peak Hour for Entire Ir	tersection E	Begins at 07	:45 AM							
07:45 AM	1	1	2	0	0	0	0	0	0	2
08:00 AM	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	1	1	0	0	0	1	0	1	2
08:30 AM	0	0	0	0	0	0	0	0	0	0_
Total Volume	1	2	3	0	0	0	1	0	1	4
% App. Total	33.3	66.7		0	0		100	0		
PHF	.250	.500	.375	.000	.000	.000	.250	.000	.250	.500

City of Moreno Valley N/S: Theodore Street E/W: Eucalyptus Avenue Weather: Clear

File Name: 04\_MRV\_Theodore\_Eucalyptus AM Site Code: 09817323 Start Date : 5/31/2017 Page No : 1

Groups Printed- 5 Axle Trucks

				roups Prin	tea- 5 Axie	Trucks				
	Th	eodore Str	eet	T	heodore Str	eet	Eucalyptus Avenue			
	Southbound				Northbound	d	Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
07:00 AM	0	1	1	0	0	0	0	0	0	1
07:15 AM	7	3	10	0	1	1	1	0	1	12
07:30 AM	5	0	5	0	6	6	0	0	0	11
07:45 AM	8	1	9	0	6	6	1	0	1	16
Total	20	5	25	0	13	13	2	0	2	40
08:00 AM	4	1	5	0	8	8	1	0	1	14
08:15 AM	7	1	8	0	4	4	0	0	0	12
08:30 AM	7	4	11	0	7	7	0	0	0	18
08:45 AM	5	2	7	0	8	8	0	0	0	15
 Total	23	8	31	0	27	27	1	0	1	59
Grand Total	43	13	56	0	40	40	3	0	3	99
Apprch %	76.8	23.2		0	100		100	0		
Total %	43.4	13.1	56.6	0	40.4	40.4	3	0	3	

	Theodore Street			T	heodore St	reet	Eucalyptus Avenue			
		Southboun	d	Northbound			Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 07:45 Al	M to 08:30 /	AM - Peak 1 c	of 1				_		
Peak Hour for Entire In	tersection E	Begins at 07	:45 AM							
07:45 AM	8	1	9	0	6	6	1	0	1	16
MA 00:80	4	1	5	0	8	8	1	0	1	14
08:15 AM	7	1	8	0	4	4	0	0	0	12
08:30 AM	7	4	11	0	7	7	0	0	0	18_
Total Volume	26	7	33	0	25	25	2	0	2	60
% App. Total	78.8	21.2		0	100		100	0		
PHF	.813	.438	.750	.000	.781	.781	.500	.000	.500	.833

City of Moreno Valley N/S: Theodore Street E/W: Eucalyptus Avenue Weather: Clear

File Name: 04\_MRV\_Theodore\_Eucalyptus AM Site Code: 09817323

Start Date : 5/31/2017 Page No : 1

Groups Printed- 6+ Ayla Trucks

				roups Printe						
	TI	heodore Str	reet	TI	heodore Str	eet	Eu	calyptus Ave	enue	
		Southboun	d		Northboun	d		Eastbound		
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
07:00 AM	0	<sup>-</sup> 1	1	0	0	0	0	0	0	1
07:15 AM	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	0	0	0_
Total	0	1	1	0	0	0	0	0	0	1
08:00 AM	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
Grand Total	0	1	1	0	0	0	0	0	0	1
Apprch %	0	100		0	0		0	0		
Total %	0	100	100	0	0	0	0	0	0	

	Т	Theodore Street			heodore St	reet	Eu	enue			
		Southbound	b		Northboun	d	Eastbound				
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total	
Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1											
Peak Hour for Entire Ir	tersection E	Begins at 07	:45 AM								
07:45 AM	0	0	0	0	0	0	0	0	0	0	
MA 00:80	0	0	0	0	0	0	0	0	0	0	
08:15 AM	0	0	0	0	0	0	0	0	0	0	
08:30 AM	0	0	0	0	0	0	0	0	0	0	
Total Volume	0	0	0	0	0	0	0	0	0	0	
% App. Total	0	0		0	0		0	0			
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	

City of Moreno Valley N/S: Theodore Street E/W: Eucalyptus Avenue

Weather: Clear

File Name : 04\_MRV\_Theodore\_Eucalyptus AM Site Code : 09817323

Start Date : 5/31/2017 Page No : 1

Groups Printed- Buses & RV's

					tea- Buses a					
	The	eodore Stre	eet	Т	heodore Str	eet	Euc	calyptus Ave	enue	
	S	outhbound	t		Northbound	b		Eastbound		
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	0	0	0_
Total	0	0	0	0	0	0	0	0	0	0
08:00 AM	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0
Apprch %	0	0		0	0		0	0		
Total %										

	Т	Theodore Street			heodore St	reet	Euc	enue		
		Southbound	d		Northboun	d		Eastbound	t	
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 07:45 A	M to 08:30 A		_						
Peak Hour for Entire In	ntersection E	Begins at 07	:45 AM							
07:45 AM	0	0	0	0	0	0	0	0	0	0
MA 00:80	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0		0	0		0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

City of Moreno Valley N/S: Theodore Street E/W: Eucalyptus Avenue Weather: Clear

File Name : 04\_MRV\_Theodore\_Eucalyptus AM Site Code : 09817323

Start Date : 5/31/2017 Page No : 1

Groups Printed- Motorcycles

				Groups Prir	<u>nted-Motoro</u>	cycles				
	TI	heodore Str	eet	T	heodore Str	eet	Eu-	calyptus Ave	enue	
		Southbound	d		Northboun	d		Eastbound		
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	1	1	0	0	0	0	0	0	1
07:30 AM	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	0	0	0
Total	0	1	1	0	0	0	0	0	0	1
08:00 AM	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
Grand Total	0	1	1	0	0	0	0	0	0	1
Apprch %	0	100		0	0		0	0		
Total %	0	100	100	0	0	0	0	0	0	
	07:00 AM 07:15 AM 07:30 AM 07:45 AM Total  08:00 AM 08:15 AM 08:30 AM 08:45 AM Total  Grand Total Apprch %	Start Time         Thru           07:00 AM         0           07:15 AM         0           07:30 AM         0           07:45 AM         0           Total         0           08:00 AM         0           08:15 AM         0           08:30 AM         0           08:45 AM         0           Grand Total         0           Apprch %         0	Southbound   Start Time   Thru   Right	07:00 AM         0         0         0           07:15 AM         0         1         1           07:30 AM         0         0         0           07:45 AM         0         0         0           Total         0         1         1           08:00 AM         0         0         0           08:15 AM         0         0         0           08:30 AM         0         0         0           08:45 AM         0         0         0           Total         0         0         0           Grand Total Apprich %         0         1         1           100         1         1	Theodore Street   Southbound   Start Time   Thru   Right   App. Total   Left	Theodore Street Southbound         Theodore Street Northbound           Start Time         Thru         Right         App. Total         Left         Thru           07:00 AM         0         0         0         0         0           07:15 AM         0         1         1         0         0           07:30 AM         0         0         0         0         0           07:45 AM         0         0         0         0         0           Total         0         1         1         0         0           08:00 AM         0         0         0         0         0           08:00 AM         0         0         0         0         0           08:15 AM         0         0         0         0         0           08:30 AM         0         0         0         0         0           08:45 AM         0         0         0         0         0           Total         0         0         0         0         0           Grand Total Apprich %         0         100         0         0	Theodore Street Southbound         Theodore Street Northbound           Start Time         Thru         Right         App. Total         Left         Thru         App. Total           07:00 AM         0         0         0         0         0         0           07:15 AM         0         1         1         0         0         0           07:30 AM         0         0         0         0         0         0         0           07:45 AM         0         0         0         0         0         0         0         0           Total         0         1         1         0         0         0         0         0           08:00 AM         0         0         0         0         0         0         0         0         0           08:00 AM         0	Theodore Street Southbound         Theodore Street Southbound         Theodore Street Northbound         Eu Northbound           Start Time         Thru         Right         App. Total         Left         Thru         App. Total         Left           07:00 AM         0	Theodore Street Southbound         Theodore Street Northbound         Eucalyptus Ave Eastbound           Start Time         Thru         Right         App. Total         Left         Thru         App. Total         Left         Right           07:00 AM         0         <	Southbound   Northbound   Eastbound

	Т	Theodore Street			heodore St	reet	Eu	enue		
		Southbound	d		Northboun	ıd		Eastbound	d	
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 07:45 A	M to 08:30 A	AM - Peak 1 d	of 1				_		
Peak Hour for Entire Ir	ntersection I	Begins at 07	:45 AM							
07:45 AM	0	0	0	0	0	0	0	0	0	0
08:00 AM	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0		0	0		0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

City of Moreno Valley N/S: Theodore Street E/W: Eucalyptus Avenue Weather: Clear

File Name: 04\_MRV\_Theodore\_Eucalyptus AM Site Code: 09817323

Start Date : 5/31/2017 Page No : 1

Groups Printed-Bicvcles

Int. Total
0
1
1
0_
2
0
0
0
0_
0
2

	Т	Theodore Street			heodore St	reet	Eu	enue			
		Southbound	b		Northboun	d		Eastbound	t		
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total	
Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1											
Peak Hour for Entire Ir	ntersection E	Begins at 07	:45 AM								
07:45 AM	0	0	0	0	0	0	0	0	0	0	
08:00 AM	0	0	0	0	0	0	0	0	0	0	
08:15 AM	0	0	0	0	0	0	0	0	0	0	
08:30 AM	0	0	0	0	0	0	0	0	0	0	
Total Volume	0	0	0	0	0	0	0	0	0	0	
% App. Total	0	0		0	0		0	0			
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	

City of Moreno Valley N/S: Theodore Street E/W: Eucalyptus Avenue Weather: Clear

File Name: 04\_MRV\_Theodore\_Eucalyptus AM Site Code: 09817323 Start Date : 5/31/2017 Page No : 1

			(	3roups Print	<u>ted- Mediun</u>	n Truck				
	T	heodore Sti	reet	T	heodore St	reet	Eu	calyptus Av	enue	
		Southboun	nd		Northboun	d		Eastbound	d	
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
07:00 AM	2	1	3	0	1	1	1	0	1	5
07:15 AM	0	0	0	0	0	0	0	0	0	0
07:30 AM	1	4	5	1	0	1	0	0	0	6
07:45 AM	1	1	2	0	1	1	0	1	1	4
Total	4	6	10	1	2	3	1	1	2	15
08:00 AM	0	2	2	2	1	3	0	0	0	5
08:15 AM	2	3	5	1	1	2	0	0	0	7
08:30 AM	2	0	2	0	0	0	2	2	4	6
08:45 AM	0	0	0	0	2	2	1	0	1	3
Total	4	5	9	3	4	7	3	2	5	21
Grand Total	8	11	19	4	6	10	4	3	7	36
Apprch %	42.1	57.9		40	60		57.1	42.9		
Total %	22.2	30.6	52.8	11.1	16.7	27.8	11.1	8.3	19.4	

	Т	Theodore Street			heodore St	reet	Euc	enue			
		Southboun	d		Northboun	d		Eastbound	t		
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total	
Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1											
Peak Hour for Entire Ir	tersection E	Begins at 07	:45 AM								
07:45 AM	1	1	2	0	1	1	0	1	1	4	
MA 00:80	0	2	2	2	1	3	0	0	0	5	
08:15 AM	2	3	5	1	1	2	0	0	0	7	
08:30 AM	2	0	2	0	0	0	2	2	4	6_	
Total Volume	5	6	11	3	3	6	2	3	5	22	
% App. Total	45.5	54.5		50	50		40	60			
PHF	.625	.500	.550	.375	.750	.500	.250	.375	.313	.786	

City of Moreno Valley N/S: Theodore Street E/W: Eucalyptus Avenue Weather: Clear File Name: 04\_MRV\_Theodore\_Eucalyptus PM Site Code: 09817323

Site Code : 0981/323 Start Date : 5/31/2017

Page No : 1

Groups Printed- Cars & Trailers - Large 2 Axle Vehicles - 3 Axle Vehicles - 4 Axle Trucks - 5 Axle Trucks - 6+ Axle Trucks - Buses & RV's Motorcycles - Bicycles - Medium Truck

	_	haadana Ctu		rcycles - Bio						
	'	heodore Str		11	heodore Str		Euc	alyptus Ave		
Otant Time	TI	Southboun		1 - 64	Northbound		1 - 66	Eastbound		let Tetal
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
04:00 PM	6	6	12	3	11	14	12	2	14	40
04:15 PM	10	8	18	1	4	5	11	4	15	38
04:30 PM	9	10	19	2	10	12	11	8	19	50
04:45 PM	6	8	14	4	7	11	10	2	12	37
Total	31	32	63	10	32	42	44	16	60	165
	1			1						
05:00 PM	6	10	16	2	3	5	9	4	13	34
05:15 PM	4	10	14	0	3	3	5	2	7	24
05:30 PM	8	11	19	1	12	13	15	8	23	55
05:45 PM	9	3	12	4	5	9	10	3	13	34
Total	27	34	61	7	23	30	39	17	56	147
Grand Total	58	66	124	17	55	72	83	33	116	312
Apprch %	46.8	53.2		23.6	76.4		71.6	28.4		
Total %	18.6	21.2	39.7	5.4	17.6	23.1	26.6	10.6	37.2	
Cars & Trailers	47	45	92	12	37	49	63	29	92	233
% Cars & Trailers	81	68.2	74.2	70.6	67.3	68.1	75.9	87.9	79.3	74.7
Large 2 Axle Vehicles	0	1	1	1	0	1	1	0	1	3
% Large 2 Axle Vehicles	0	1.5	0.8	5.9	0	1.4	1.2	0	0.9	1
3 Axle Vehicles	0	1	1	0	0	0	4	0	4	5
% 3 Axle Vehicles	0	1.5	0.8	0	0	0	4.8	0	3.4	1.6
4 Axle Trucks	0	2	2	0	0	0	0	0	0	2
% 4 Axle Trucks	0	3	1.6	0	0	0	0	0	0	0.6
5 Axle Trucks	3	13	16	1	5	6	2	0	2	24
% 5 Axle Trucks	5.2	19.7	12.9	5.9	9.1	8.3	2.4	0	1.7	7.7
6+ Axle Trucks	0	0	0	0	0	0	0	0	0	0
% 6+ Axle Trucks	0	0	0	0	0	0	0	0	0	0
Buses & RV's	0	0	0	0	0	0	0	0	0	0
% Buses & RV's	0	0	0	0	0	0	0	0	0	0_
Motorcycles	0	0	0	0	4	4	0	0	0	4
% Motorcycles	0	0	0	0	7.3	5.6	0	0	0	1.3
Bicycles	0	0	0	0	0	0	0	0	0	0
% Bicycles	0	0	0	0	0	0	0	0	0	0_
Medium Truck	8	4	12	3	9	12	13	4	17	41
% Medium Truck	13.8	6.1	9.7	17.6	16.4	16.7	15.7	12.1	14.7	13.1

	Th	Theodore Street			neodore Str	eet	Eu	enue					
	,	Southbound	d d		Northbound	d		Eastbound					
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total			
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1													
Peak Hour for Entire Int	ersection Beg	gins at 04:0	0 PM										
04:00 PM	6	6	12	3	11	14	12	2	14	40			
04:15 PM	10	8	18	1	4	5	11	4	15	38			
04:30 PM	9	10	19	2	10	12	11	8	19	50			
04:45 PM	6	8	14	4	7	11	10	2	12	37			
Total Volume	31	32	63	10	32	42	44	16	60	165			
% App. Total	49.2	50.8		23.8	76.2		73.3	26.7					
PHF	.775	.800	.829	.625	.727	.750	.917	.500	.789	.825			

City of Moreno Valley N/S: Theodore Street E/W: Eucalyptus Avenue Weather: Clear

File Name : 04\_MRV\_Theodore\_Eucalyptus PM Site Code : 09817323

Start Date : 5/31/2017 Page No : 1

Groups Printed- Care & Trailers

					iroups Print	ed- Cars &	l railers				
		Т	heodore St	reet	Т	heodore Str	reet	Eu	calyptus Av	enue	
			Southboun	nd		Northboun	d		Eastbound	k	
Start -	Гіте	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
04:00	PM (	5	5	10	2	7	9	6	2	8	27
04:15	PM	8	6	14	1	2	3	7	4	11	28
04:30	PM	6	6	12	0	5	5	9	6	15	32
04:45	PM	4	6	10	3	7	10	8	1	9	29
-	Total	23	23	46	6	21	27	30	13	43	116
05:00	PM	4	7	11	2	2	4	7	4	11	26
05:15	PM	3	5	8	0	3	3	5	2	7	18
05:30	PM	8	8	16	1	9	10	12	7	19	45
05:45	PM	9	2	11	3	2	5	9	3	12	28
-	Total	24	22	46	6	16	22	33	16	49	117
Grand <sup>-</sup>	Total	47	45	92	12	37	49	63	29	92	233
Appro	h %	51.1	48.9		24.5	75.5		68.5	31.5		
Tot	al %	20.2	19.3	39.5	5.2	15.9	21	27	12.4	39.5	

	Th	neodore Str	eet	T	heodore St	reet	Euc	calyptus Av	enue	
		Southbound	d		Northboun	d		Eastbound	k	
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 04:00 PN	M to 04:45 F	PM - Peak 1 c	of 1				_		
Peak Hour for Entire Ir	ntersection B	Begins at 04	:00 PM							
04:00 PM	5	5	10	2	7	9	6	2	8	27
04:15 PM	8	6	14	1	2	3	7	4	11	28
04:30 PM	6	6	12	0	5	5	9	6	15	32
04:45 PM	4	6	10	3	7	10	8	1	9	29
Total Volume	23	23	46	6	21	27	30	13	43	116
% App. Total	50	50		22.2	77.8		69.8	30.2		
PHF	.719	.958	.821	.500	.750	.675	.833	.542	.717	.906

City of Moreno Valley N/S: Theodore Street E/W: Eucalyptus Avenue

Weather: Clear

File Name: 04\_MRV\_Theodore\_Eucalyptus PM Site Code: 09817323

			Grou	<u> ps Printed-</u>	<ul> <li>Large 2 Ax</li> </ul>	le Vehicles				1
	Т	heodore Sti	reet	7	heodore St	reet	Eu	calyptus Ave	enue	l
		Southboun	d		Northboun	d		Eastbound	d	
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
04:00 PM	0	0	0	1	0	1	0	0	0	1
04:15 PM	0	0	0	0	0	0	1	0	1	1
04:30 PM	0	1	1	0	0	0	0	0	0	1
04:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	1	1	1	0	1	1	0	1	3
05:00 DM	0	0	Λ	_	^	0	· Λ	0	0	0

04:00 PM	0	0	0	1	0	1	0	0	0	1
04:15 PM	0	0	0	0	0	0	1	0	1	1
04:30 PM	0	1	1	0	0	0	0	0	0	1
04:45 PM	0	0	0	0	0	0	0	0	0	0_
Total	0	1	1	1	0	1	1	0	1	3
05:00 PM	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0_
Total	0	0	0	0	0	0	0	0	0	0
Grand Total	0	1	1	1	0	1	1	0	1	3
Apprch %	0	100		100	0		100	0		
Total %	0	33.3	33.3	33.3	0	33.3	33.3	0	33.3	

	Th	eodore Str	eet	Th	neodore Sti	eet	Euc	calyptus Av	enue	
		Southbound	d		Northboun	d		Eastbound	k	
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 04:00 PM	1 to 04:45 F	PM - Peak 1 of	1				-	• •	
Peak Hour for Entire In	tersection Be	egins at 04	:00 PM							
04:00 PM	0	0	0	1	0	1	0	0	0	1
04:15 PM	0	0	0	0	0	0	1	0	1	1
04:30 PM	0	1	1	0	0	0	0	0	0	1
04:45 PM	0	0	0	0	0	0	0	0	0	0
Total Volume	0	1	1	1	0	1	1	0	1	3
% App. Total	0	100		100	0		100	0		
PHF	000	250	250	250	000	250	250	000	250	750

City of Moreno Valley N/S: Theodore Street E/W: Eucalyptus Avenue Weather: Clear

File Name: 04\_MRV\_Theodore\_Eucalyptus PM Site Code: 09817323 Start Date : 5/31/2017 Page No : 1

Groups Printed- 3 Axle Vehicles

					<u>ea- 3 Axie v</u>					
	Th	eodore Stre	eet	Т	heodore Str	eet	Euc	calyptus Ave	enue	
		Southbound	k		Northbound	b		Eastbound		
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	0	0	2	0	2	2
04:15 PM	0	1	1	0	0	0	1	0	1	2
04:30 PM	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	1	1	0	0	0	3	0	3	4
05:00 PM	0	0	0	0	0	0	1	0	1	1
05:15 PM	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0_
Total	0	0	0	0	0	0	1	0	1	1
Grand Total	0	1	1	0	0	0	4	0	4	5
Apprch %	0	100		0	0		100	0		
Total %	0	20	20	0	0	0	80	0	80	

	Т	heodore Str	eet	T	heodore St	reet	Euc	calyptus Av	enue	
		Southbound	d		Northboun	d		Eastbound	t	
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 04:00 P	M to 04:45 F	PM - Peak 1 c	of 1				_		
Peak Hour for Entire Ir	ntersection E	Begins at 04	:00 PM							
04:00 PM	0	0	0	0	0	0	2	0	2	2
04:15 PM	0	1	1	0	0	0	1	0	1	2
04:30 PM	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0_
Total Volume	0	1	1	0	0	0	3	0	3	4
% App. Total	0	100		0	0		100	0		
PHF	.000	.250	.250	.000	.000	.000	.375	.000	.375	.500

City of Moreno Valley N/S: Theodore Street E/W: Eucalyptus Avenue Weather: Clear

File Name : 04\_MRV\_Theodore\_Eucalyptus PM Site Code : 09817323

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Groups Printed- A Ayla Trucks

		neodore Str		Froups Print	heodore Str		Eu	achientus Ave	nuo	
				- 11			⊑u	calyptus Ave		
		Southbound			Northbound			Eastbound		
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	1	1	0	0	0	0	0	0	1_
Total	0	1	1	0	0	0	0	0	0	1
05:00 PM	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	1	1	0	0	0	0	0	0	1
05:30 PM	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	1	1	0	0	0	0	0	0	1
Grand Total	0	2	2	0	0	0	0	0	0	2
Apprch %	0	100		0	0		0	0		
Total %	0	100	100	0	0	0	0	0	0	

	Т	heodore Str	eet	Т	heodore St	reet	Eu	calyptus Av	enue	
		Southbound	d		Northboun	d		Eastbound	k	
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 04:00 P	M to 04:45 F	PM - Peak 1 c	of 1				_		
Peak Hour for Entire Ir	ntersection E	Begins at 04	:00 PM							
04:00 PM	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	1	1	0	0	0	0	0	0	1_
Total Volume	0	1	1	0	0	0	0	0	0	1
% App. Total	0	100		0	0		0	0		
PHF	.000	.250	.250	.000	.000	.000	.000	.000	.000	.250

City of Moreno Valley N/S: Theodore Street E/W: Eucalyptus Avenue Weather: Clear

File Name: 04\_MRV\_Theodore\_Eucalyptus PM Site Code: 09817323

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Groups Printed- 5 Axle Trucks

					teu- 5 Axie					
	enue	alyptus Ave	Euc	eet	heodore Str	Т	reet	heodore St	Т	
		Eastbound		d d	Northbound		ıd	Southbour		
Int. Total	App. Total	Right	Left	App. Total	Thru	Left	App. Total	Right	Thru	Start Time
4	0	0	0	3	3	0	1	<sup>-</sup> 1	0	04:00 PM
2	1	0	1	0	0	0	1	0	1	04:15 PM
4	0	0	0	1	0	1	3	2	1	04:30 PM
3	1	0	1	0	0	0	2	1_	1	04:45 PM
13	2	0	2	4	3	1	7	4	3	Total
2	0	0	0	0	0	0	2	2	0	05:00 PM
4	0	0	0	0	0	0	4	4	0	05:15 PM
4	0	0	0	2	2	0	2	2	0	05:30 PM
1_	0	0	0	0	0	0	1	1_	0	05:45 PM
11	0	0	0	2	2	0	9	9	0	Total
24	2	0	2	6	5	1	16	13	3	Grand Total
		0	100		83.3	16.7		81.2	18.8	Apprch %
	8.3	0	8.3	25	20.8	4.2	66.7	54.2	12.5	Total %
	0 0 0 0 0 0 0	0 0 0 0	0 0 0 0 0	0 0 0 2 0 2 0 6	0 0 2 0 2 5 83.3	0 0 0 0 0	16	2 4 2 1 9 13 81.2	0 0 0 0 0 3 18.8	04:45 PM Total 05:00 PM 05:15 PM 05:30 PM 05:45 PM Total Grand Total Apprch %

	Т	heodore Str	eet	Ţ	heodore St	reet	Euc	calyptus Av	enue	
		Southboun	d		Northboun	d		Eastbound	t	
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 04:00 P	M to 04:45 I	PM - Peak 1 d	of 1				_		
Peak Hour for Entire Ir	ntersection E	Begins at 04	:00 PM							
04:00 PM	0	1	1	0	3	3	0	0	0	4
04:15 PM	1	0	1	0	0	0	1	0	1	2
04:30 PM	1	2	3	1	0	1	0	0	0	4
04:45 PM	1	1_	2	0	0	0	1	0	1	3_
Total Volume	3	4	7	1	3	4	2	0	2	13
% App. Total	42.9	57.1		25	75		100	0		
PHF	.750	.500	.583	.250	.250	.333	.500	.000	.500	.813

City of Moreno Valley N/S: Theodore Street E/W: Eucalyptus Avenue Weather: Clear

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Groups Printed- 6+ Ayla Trucks

	The	eodore Stre		roups Printe Th	neodore Str		Euc	calyptus Ave	enue	
	5	Southbound	ı l		Northbound	d		Eastbound		
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0_
Total	0	0	0	0	0	0	0	0	0	0
05:00 PM	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0_
Total	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0
Apprch %	0	0		0	0		0	0		
Total %										

	TI	heodore Str	eet	Т	heodore St	reet	Euc	enue		
		Southbound	d		Northboun	d		Eastbound	d	
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 04:00 Pl	M to 04:45 F	PM - Peak 1 o	of 1				_		
Peak Hour for Entire Ir	tersection E	Begins at 04	:00 PM							
04:00 PM	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0		0	0		0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

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Groups Printed- Ruses & RV/s

	The	odore Stre		iroups Printe Th	eodore Stre		Eucalyptus Avenue			
	S	outhbound	l		Northbound			Eastbound		
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0_
Total	0	0	0	0	0	0	0	0	0	0
05:00 PM	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0_
Total	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0
Apprch %	0	0		0	0		0	0		
Total %										

	Т	Theodore Street		Т	heodore St	reet	Eu	enue		
		Southbound	d		Northboun	d		Eastbound	d	
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 04:00 P	M to 04:45 F	PM - Peak 1 c	of 1				_		
Peak Hour for Entire Ir	ntersection I	Begins at 04	:00 PM							
04:00 PM	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0		0	0		0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

City of Moreno Valley N/S: Theodore Street E/W: Eucalyptus Avenue Weather: Clear

File Name: 04\_MRV\_Theodore\_Eucalyptus PM Site Code: 09817323

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Groups Printed- Motorcycles

				Groups Prir	nted- Motord	cycles				
	Th	neodore Str	eet	T	heodore Str	eet	Eu	calyptus Ave	enue	
		Southbound	d		Northbound	d		Eastbound		
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	4	4	0	0	0	4
04:45 PM	0	0	0	0	0	0	0	0	0	0_
Total	0	0	0	0	4	4	0	0	0	4
05:00 PM	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0_
Total	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	4	4	0	0	0	4
Apprch %	0	0		0	100		0	0		
Total %	0	0	0	0	100	100	0	0	0	

	Т	Theodore Street		T	heodore St	reet	Euc	enue		
		Southbound	b		Northboun	d		Eastbound	t	
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 04:00 P	M to 04:45 F	PM - Peak 1 c	of 1				_		
Peak Hour for Entire Ir	ntersection E	Begins at 04	:00 PM							
04:00 PM	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	4	4	0	0	0	4
04:45 PM	0	0	0	0	0	0	0	0	0	0_
Total Volume	0	0	0	0	4	4	0	0	0	4
% App. Total	0	0		0	100		0	0		
PHF	.000	.000	.000	.000	.250	.250	.000	.000	.000	.250

City of Moreno Valley N/S: Theodore Street E/W: Eucalyptus Avenue Weather: Clear

File Name: 04\_MRV\_Theodore\_Eucalyptus PM Site Code: 09817323

Start Date : 5/31/2017 Page No : 1

Groups Printed- Bicycles

	Th	eodore Stre	eet		inted-Bicyc ieodore Str		Euc	alyptus Ave	enue	
	3,	Southbound	t t		Northbound	t l		Eastbound		
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
05:00 PM	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0_
Total	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0
Apprch %	0	0		0	0		0	0		
Total %										

	Т	Theodore Street		Т	heodore St	reet	Eu	enue		
		Southbound	b		Northboun	d		Eastbound	b	
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 04:00 P	M to 04:45 F	PM - Peak 1 d	of 1				_		
Peak Hour for Entire Ir	ntersection E	Begins at 04	:00 PM							
04:00 PM	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0		0	0		0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

City of Moreno Valley N/S: Theodore Street E/W: Eucalyptus Avenue Weather: Clear

File Name: 04\_MRV\_Theodore\_Eucalyptus PM Site Code: 09817323 Start Date : 5/31/2017 Page No : 1

Groups Printed- Medium Truck

					<u>ed- Mediun</u>					
	Т	heodore St	reet	T	heodore Sti	reet	Eu	calyptus Av	enue	
		Southbour	nd		Northboun	d		Eastbound	k	
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
04:00 PM	1	0	1	0	1	1	4	0	4	6
04:15 PM	I 1	1	2	0	2	2	1	0	1	5
04:30 PM	1 2	1	3	1	1	2	2	2	4	9
04:45 PM	1	0	1	1	0	1	1	1	2	4_
Tota	5	2	7	2	4	6	8	3	11	24
05:00 PM	1 2	1	3	0	1	1	1	0	1	5
05:15 PM	I 1	0	1	0	0	0	0	0	0	1
05:30 PM	1 0	1	1	0	1	1	3	1	4	6
05:45 PM	0	0	0	1	3	4	1	0	1	5
Tota	3	2	5	1	5	6	5	1	6	17
Grand Tota	1 8	4	12	3	9	12	13	4	17	41
Apprch %	66.7	33.3		25	75		76.5	23.5		
Total %		9.8	29.3	7.3	22	29.3	31.7	9.8	41.5	

	Т	Theodore Street		Т	heodore St	reet	Euc	enue		
		Southboun	d		Northboun	d		Eastbound	t	
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 04:00 P	M to 04:45 I	PM - Peak 1 c	of 1				-		
Peak Hour for Entire Ir	itersection E	Begins at 04	:00 PM							
04:00 PM	1	0	1	0	1	1	4	0	4	6
04:15 PM	1	1	2	0	2	2	1	0	1	5
04:30 PM	2	1	3	1	1	2	2	2	4	9
04:45 PM	11_	0	1	1	0	1	1	11	2	4
Total Volume	5	2	7	2	4	6	8	3	11	24
% App. Total	71.4	28.6		33.3	66.7		72.7	27.3		
PHF	.625	.500	.583	.500	.500	.750	.500	.375	.688	.667

City of Moreno Valley N/S: Theodore Street

E/W: SR-60 Eastbound Ramps

Weather: Clear

File Name: 03\_MRV\_Theodore\_60E AM Site Code: 09817323

Site Code : 09817323 Start Date : 5/31/2017

Page No : 1

Groups Printed- Cars & Trailers - Large 2 Axle Vehicles - 3 Axle Vehicles - 4 Axle Trucks - 5 Axle Trucks - 6+ Axle Trucks - Buses & RV's Motorcycles - Bicycles - Medium Truck

Theodore Street   Start Time   Thru   Right   App. Total   Left   Thru   App. Total   Left   Right   App. Total   Int. Total
Start Time
07:00 AM
07:15 AM         10         0         10         11         4         15         9         11         20         45           07:30 AM         21         1         22         10         0         10         6         13         19         51           07:45 AM         13         2         15         12         3         15         5         15         20         50           Total         50         3         53         38         10         48         30         46         76         177           08:00 AM         14         1         15         10         5         15         5         22         27         57           08:15 AM         15         1         16         6         5         11         5         29         34         61           08:30 AM         14         1         15         8         10         18         6         26         32         65           08:45 AM         9         3         12         12         5         17         9         16         25         54           Total         52         6         58         36
O7:30 AM
07:45 AM         13         2         15         12         3         15         5         15         20         50           Total         50         3         53         38         10         48         30         46         76         177           08:00 AM         14         1         15         10         5         15         5         22         27         57           08:15 AM         15         1         16         6         5         11         5         29         34         61           08:30 AM         14         1         15         8         10         18         6         26         32         65           08:45 AM         9         3         12         12         5         17         9         16         25         54           Total         52         6         58         36         25         61         25         93         118         237           Grand Total         102         9         111         74         35         109         55         139         194         414           Apprich         91.9         8.1         67.9
Total         50         3         53         38         10         48         30         46         76         177           08:00 AM         14         1         15         10         5         15         5         22         27         57           08:15 AM         15         1         16         6         5         11         5         29         34         61           08:30 AM         14         1         15         8         10         18         6         26         32         65           08:45 AM         9         3         12         12         5         17         9         16         25         54           Total         52         6         58         36         25         61         25         93         118         237           Grand Total         102         9         111         74         35         109         55         139         194         414           Apprich %         91.9         8.1         67.9         32.1         28.4         71.6         71.6         71.6         71.0         71.6         71.6         71.0         71.0         71.0
08:00 AM         14         1         15         10         5         15         5         22         27         57           08:15 AM         15         1         16         6         5         11         5         29         34         61           08:30 AM         14         1         15         8         10         18         6         26         32         65           08:45 AM         9         3         12         12         5         17         9         16         25         54           Total         52         6         58         36         25         61         25         93         118         237           Grand Total         102         9         111         74         35         109         55         139         194         414           Apprich %         91.9         8.1         67.9         32.1         28.4         71.6
08:15 AM         15         1         16         6         5         11         5         29         34         61           08:30 AM         14         1         15         8         10         18         6         26         32         65           08:45 AM         9         3         12         12         5         17         9         16         25         54           Total         52         6         58         36         25         61         25         93         118         237           Grand Total         102         9         111         74         35         109         55         139         194         414           Apprich %         91.9         8.1         67.9         32.1         28.4         71.6
08:15 AM         15         1         16         6         5         11         5         29         34         61           08:30 AM         14         1         15         8         10         18         6         26         32         65           08:45 AM         9         3         12         12         5         17         9         16         25         54           Total         52         6         58         36         25         61         25         93         118         237           Grand Total         102         9         111         74         35         109         55         139         194         414           Apprich %         91.9         8.1         67.9         32.1         28.4         71.6
08:30 AM         14         1         15         8         10         18         6         26         32         65           08:45 AM         9         3         12         12         5         17         9         16         25         54           Total         52         6         58         36         25         61         25         93         118         237           Grand Total         102         9         111         74         35         109         55         139         194         414           Apprich %         91.9         8.1         67.9         32.1         28.4         71.6         71.6         71.6         71.6         71.6         71.6         71.6         71.6         71.6         71.6         72.2         71.6         72.2         71.6         72.3         71.6         71.6         71.6         72.2         71.6         72.2         71.6         72.2         72.3         72.2         72.5         72.2         72.3         72.2         72.5         72.2         72.3         72.2         72.3         72.2         72.5         72.2         72.2         72.3         72.2         72.3         72.7 </td
O8:45 AM         9         3         12         12         5         17         9         16         25         54           Total         52         6         58         36         25         61         25         93         118         237           Grand Total         102         9         111         74         35         109         55         139         194         414           Apprich %         91.9         8.1         67.9         32.1         28.4         71.6
Total         52         6         58         36         25         61         25         93         118         237           Grand Total Apprich Wights         102         9         111         74         35         109         55         139         194         414           Apprich Wights         91.9         8.1         67.9         32.1         28.4         71.6
Grand Total         102         9         111         74         35         109         55         139         194         414           Apprch %         91.9         8.1         67.9         32.1         28.4         71.6
Apprch %         91.9         8.1         67.9         32.1         28.4         71.6           Total %         24.6         2.2         26.8         17.9         8.5         26.3         13.3         33.6         46.9           Cars & Trailers         56         7         63         38         29         67         23         122         145         275           % Cars & Trailers         54.9         77.8         56.8         51.4         82.9         61.5         41.8         87.8         74.7         66.4           Large 2 Axle Vehicles         1         1         2         0         1         1         4         1         5         8           % Large 2 Axle Vehicles         1         11.1         1.8         0         2.9         0.9         7.3         0.7         2.6         1.9           3 Axle Vehicles         0         0         0         0         0         0         3         1         4         4           4 Axle Trucks         0         0         0         0         0         0         5         3         8         8           % 4 Axle Trucks         0         0         0
Apprch %         91.9         8.1         67.9         32.1         28.4         71.6           Total %         24.6         2.2         26.8         17.9         8.5         26.3         13.3         33.6         46.9           Cars & Trailers         56         7         63         38         29         67         23         122         145         275           % Cars & Trailers         54.9         77.8         56.8         51.4         82.9         61.5         41.8         87.8         74.7         66.4           Large 2 Axle Vehicles         1         1         2         0         1         1         4         1         5         8           % Large 2 Axle Vehicles         1         11.1         1.8         0         2.9         0.9         7.3         0.7         2.6         1.9           3 Axle Vehicles         0         0         0         0         0         0         3         1         4         4           4 Axle Trucks         0         0         0         0         0         0         5         3         8         8           % 4 Axle Trucks         0         0         0
Total %         24.6         2.2         26.8         17.9         8.5         26.3         13.3         33.6         46.9           Cars & Trailers         56         7         63         38         29         67         23         122         145         275           % Cars & Trailers         54.9         77.8         56.8         51.4         82.9         61.5         41.8         87.8         74.7         66.4           Large 2 Axle Vehicles         1         1         2         0         1         1         4         1         5         8           % Large 2 Axle Vehicles         1         11.1         1.8         0         2.9         0.9         7.3         0.7         2.6         1.9           3 Axle Vehicles         0         0         0         0         0         0         3         1         4         4           % 3 Axle Vehicles         0         0         0         0         0         0         5.5         0.7         2.1         1           4 Axle Trucks         0         0         0         0         0         5         3         8         8           % 4 Axle Trucks
Total %         24.6         2.2         26.8         17.9         8.5         26.3         13.3         33.6         46.9           Cars & Trailers         56         7         63         38         29         67         23         122         145         275           % Cars & Trailers         54.9         77.8         56.8         51.4         82.9         61.5         41.8         87.8         74.7         66.4           Large 2 Axle Vehicles         1         1         2         0         1         1         4         1         5         8           % Large 2 Axle Vehicles         1         11.1         1.8         0         2.9         0.9         7.3         0.7         2.6         1.9           3 Axle Vehicles         0         0         0         0         0         0         3         1         4         4           % 3 Axle Vehicles         0         0         0         0         0         0         5.5         0.7         2.1         1           4 Axle Trucks         0         0         0         0         0         5         3         8         8           % 4 Axle Trucks
Cars & Trailers         56         7         63         38         29         67         23         122         145         275           % Cars & Trailers         54.9         77.8         56.8         51.4         82.9         61.5         41.8         87.8         74.7         66.4           Large 2 Axle Vehicles         1         1         2         0         1         1         4         1         5         8           % Large 2 Axle Vehicles         1         11.1         1.8         0         2.9         0.9         7.3         0.7         2.6         1.9           3 Axle Vehicles         0         0         0         0         0         0         3         1         4         4           % 3 Axle Vehicles         0         0         0         0         0         0         5.5         0.7         2.1         1           4 Axle Trucks         0         0         0         0         0         5         3         8         8           % 4 Axle Trucks         0         0         0         0         0         9.1         2.2         4.1         1.9           5 Axle Trucks         39
Large 2 Axle Vehicles         1         1         2         0         1         1         4         1         5         8           % Large 2 Axle Vehicles         1         11.1         1.8         0         2.9         0.9         7.3         0.7         2.6         1.9           3 Axle Vehicles         0         0         0         0         0         3         1         4         4           % 3 Axle Vehicles         0         0         0         0         0         0         5.5         0.7         2.1         1           4 Axle Trucks         0         0         0         0         0         5         3         8         8           % 4 Axle Trucks         0         0         0         0         0         9.1         2.2         4.1         1.9           5 Axle Trucks         39         1         40         32         5         37         19         10         29         106
Large 2 Axle Vehicles         1         1         2         0         1         1         4         1         5         8           % Large 2 Axle Vehicles         1         11.1         1.8         0         2.9         0.9         7.3         0.7         2.6         1.9           3 Axle Vehicles         0         0         0         0         0         0         3         1         4         4           % 3 Axle Vehicles         0         0         0         0         0         0         5.5         0.7         2.1         1           4 Axle Trucks         0         0         0         0         0         0         5         3         8         8           % 4 Axle Trucks         0         0         0         0         0         9.1         2.2         4.1         1.9           5 Axle Trucks         39         1         40         32         5         37         19         10         29         106
3 Axle Vehicles     0     0     0     0     0     3     1     4     4       % 3 Axle Vehicles     0     0     0     0     0     5.5     0.7     2.1     1       4 Axle Trucks     0     0     0     0     0     5     3     8     8       % 4 Axle Trucks     0     0     0     0     0     9.1     2.2     4.1     1.9       5 Axle Trucks     39     1     40     32     5     37     19     10     29     106
3 Axle Vehicles     0     0     0     0     0     3     1     4     4       % 3 Axle Vehicles     0     0     0     0     0     5.5     0.7     2.1     1       4 Axle Trucks     0     0     0     0     0     5     3     8     8       % 4 Axle Trucks     0     0     0     0     0     9.1     2.2     4.1     1.9       5 Axle Trucks     39     1     40     32     5     37     19     10     29     106
4 Axle Trucks     0     0     0     0     0     5     3     8     8       % 4 Axle Trucks     0     0     0     0     0     9.1     2.2     4.1     1.9       5 Axle Trucks     39     1     40     32     5     37     19     10     29     106
% 4 Axle Trucks         0         0         0         0         0         9.1         2.2         4.1         1.9           5 Axle Trucks         39         1         40         32         5         37         19         10         29         106
5 Axle Trucks 39 1 40 32 5 37 19 10 29 106
<u>% 5 Axle Trucks</u> 38.2 11.1 36 43.2 14.3 33.9 34.5 7.2 14.9 25.6
6+ Axle Trucks   5 0 5 4 0 4 0 1 1 1 10
<u>% 6+ Axle Trucks</u> 4.9 0 4.5 5.4 0 3.7 0 0.7 0.5 2.4
Buses & RV's 0 0 0 0 0 0 1 0 1 1 1
<u>% Buses &amp; RV's</u> 0 0 0 0 0 0 1.8 0 0.5 0.2
Motorcycles   0 0 0 0 0 0 0 0 1 1 1 1 1
<u>% Motorcycles 0 0 0 0 0 0 0 0 0.7 0.5 0.2</u>
Bicycles   1 0 1 0 0 0 0 0 0 1
<u>% Bicycles 1 0 0.9 0 0 0 0 0 0 0.2</u>
Medium Truck 0 0 0 0 0 0 0 0 0 0 0
% Medium Truck   0 0 0 0 0 0 0 0 0 0 0

		eodore Stre		Th	Theodore Street Northbound			SR-60 Eastbound Ramps Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total	
Peak Hour Analysis Fro	m 07:00 AM	to 08:45 AN	/I - Peak 1 of	1							
Peak Hour for Entire Int	ersection Beg	gins at 08:0	0 AM								
08:00 AM	14	1	15	10	5	15	5	22	27	57	
08:15 AM	15	1	16	6	5	11	5	29	34	61	
08:30 AM	14	1	15	8	10	18	6	26	32	65	
08:45 AM	9	3	12	12	5	17	9	16	25	54	
Total Volume	52	6	58	36	25	61	25	93	118	237	
% App. Total	89.7	10.3		59	41		21.2	78.8			
PHF	.867	.500	.906	.750	.625	.847	.694	.802	.868	.912	

City of Moreno Valley N/S: Theodore Street

E/W: SR-60 Eastbound Ramps

Total %

Weather: Clear

File Name: 03\_MRV\_Theodore\_60E AM Site Code: 09817323

Start Date : 5/31/2017 Page No : 1

44.4

52.7

8.4

24.4

			G	roups Print	ed- Cars &	Trailers				
	Т	heodore St	reet	T	heodore St	reet	SR-60	Eastbound	Ramps	
		Southboun	ıd		Northboun	ıd		Eastbound		
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
07:00 AM	6	0	6	5	3	8	4	5	9	23
07:15 AM	5	0	5	10	3	13	5	7	12	30
07:30 AM	13	0	13	5	0	5	2	12	14	32
07:45 AM	6	2	8	5	2	7	3	13	16	31
Total	30	2	32	25	8	33	14	37	51	116
MA 00:80	10	1	11	2	3	5	1	20	21	37
08:15 AM	8	1	9	2	5	7	2	28	30	46
08:30 AM	6	1	7	3	8	11	4	23	27	45
08:45 AM	2	2	4	6	5	11	2	14	16	31
Total	26	5	31	13	21	34	9	85	94	159
Grand Total	56	7	63	38	29	67	23	122	145	275
Apprch %	88.9	11.1		56.7	43.3		15.9	84.1		

13.8

2.5

22.9

20.4

	The	eodore Str	eet	TI	heodore Str	reet	SR-60	Eastbound	Ramps	
		Southbound	d		Northboun	d		Eastbound	k	
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 08:00 AM	to 08:45 A	AM - Peak 1 o	f 1				_		
Peak Hour for Entire In	tersection Be	gins at 08	:00 AM							
08:00 AM	10	1	11	2	3	5	1	20	21	37
08:15 AM	8	1	9	2	5	7	2	28	30	46
08:30 AM	6	1	7	3	8	11	4	23	27	45
08:45 AM	2	2	4	6	5	11	2	14	16	31
Total Volume	26	5	31	13	21	34	9	85	94	159
% App. Total	83.9	16.1		38.2	61.8		9.6	90.4		
PHF	.650	.625	.705	.542	.656	.773	.563	.759	.783	.864

10.5

City of Moreno Valley N/S: Theodore Street E/W: SR-60 Eastbound Ramps

Weather: Clear

File Name: 03\_MRV\_Theodore\_60E AM Site Code: 09817323

			Grou	ps Printed-	Large 2 Ax	le Vehicles				
	Т	heodore Sti	reet	T	heodore St	reet	SR-60	Eastbound	Ramps	
		Southboun			Northboun			Eastbound		
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	2	1	3	3
07:45 AM	0	0	0	0	1	1	0	0	0	1_
Total	0	0	0	0	1	1	2	1	3	4
MA 00:80	0	0	0	0	0	0	0	0	0	0
08:15 AM	1	0	1	0	0	0	1	0	1	2
08:30 AM	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	1	1	0	0	0	1	0	1	2
Total	1	1	2	0	0	0	2	0	2	4
Grand Total	1	1	2	0	1	1	4	1	5	8
Apprch %	50	50		0	100		80	20		
Total %	12.5	12.5	25	0	12.5	12.5	50	12.5	62.5	

	TI	heodore Str	eet	T	heodore St	reet	SR-60	Eastbound	l Ramps	
		Southbound	b		Northboun	d		Eastbound	ı k	
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 08:00 Al	M to 08:45 A	AM - Peak 1 c	of 1				_		
Peak Hour for Entire Ir	tersection E	Begins at 08	:00 AM							
08:00 AM	0	0	0	0	0	0	0	0	0	0
08:15 AM	1	0	1	0	0	0	1	0	1	2
08:30 AM	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	1	1	0	0	0	1	0	1	2
Total Volume	1	1	2	0	0	0	2	0	2	4
% App. Total	50	50		0	0		100	0		
PHF	.250	.250	.500	.000	.000	.000	.500	.000	.500	.500

City of Moreno Valley N/S: Theodore Street

E/W: SR-60 Eastbound Ramps

Weather: Clear

File Name: 03\_MRV\_Theodore\_60E AM Site Code: 09817323

			G	roups Print	ed- 3 Axle \	/ehicles				
	TI	heodore Str	eet	· T	heodore St	reet	SR-60	Eastbound	Ramps	
		Southboun			Northboun			Eastbound		
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	1	0	1	1_
Total	0	0	0	0	0	0	1	0	1	1
08:00 AM	0	0	0	0	0	0	1	1	2	2
08:15 AM	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	1	0	1	1_
Total	0	0	0	0	0	0	2	1	3	3
Grand Total	0	0	0	0	0	0	3	1	4	4
Apprch %	0	0		0	0		75	25		
Total %	0	0	0	0	0	0	75	25	100	

	Т	heodore Str	eet	T	heodore St	reet	SR-60	Eastbound	Ramps	
		Southbound	d		Northboun	ıd		Eastbound	·	
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 08:00 A	M to 08:45 A	AM - Peak 1 d	of 1				_		
Peak Hour for Entire Ir	ntersection E	Begins at 08	:00 AM							
08:00 AM	0	0	0	0	0	0	1	1	2	2
08:15 AM	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	1	0	1	1_
Total Volume	0	0	0	0	0	0	2	1	3	3
% App. Total	0	0		0	0		66.7	33.3		
PHF	.000	.000	.000	.000	.000	.000	.500	.250	.375	.375

City of Moreno Valley N/S: Theodore Street E/W: SR-60 Eastbound Ramps

Weather: Clear

File Name: 03\_MRV\_Theodore\_60E AM Site Code: 09817323

Start Date : 5/31/2017 Page No : 1

Groups Printed- A Ayla Trucks

				roups Print						
	Th	neodore Str	eet	TI	neodore Str	eet	SR-60	Eastbound	Ramps	
	;	Southbound	d		Northbound	d		Eastbound		
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	0	1	0	1	1
07:15 AM	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	1	1	1_
Total	0	0	0	0	0	0	1	1	2	2
08:00 AM	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	1	1	1
08:30 AM	0	0	0	0	0	0	1	0	1	1
08:45 AM	0	0	0	0	0	0	3	1	4	4
Total	0	0	0	0	0	0	4	2	6	6
Grand Total	0	0	0	0	0	0	5	3	8	8
Apprch %	0	0		0	0		62.5	37.5		
Total %	0	0	0	0	0	0	62.5	37.5	100	

	Т	heodore Str	eet	T	heodore St	reet	SR-60	Eastbound	l Ramps	
		Southbound	b		Northboun	d		Eastbound	t t	
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 08:00 A	M to 08:45 A	AM - Peak 1 c	of 1				_		
Peak Hour for Entire Ir	tersection E	Begins at 08	:00 AM							
MA 00:80	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	1	1	1
08:30 AM	0	0	0	0	0	0	1	0	1	1
08:45 AM	0	0	0	0	0	0	3	1	4	4_
Total Volume	0	0	0	0	0	0	4	2	6	6
% App. Total	0	0		0	0		66.7	33.3		
PHF	.000	.000	.000	.000	.000	.000	.333	.500	.375	.375

City of Moreno Valley N/S: Theodore Street

E/W: SR-60 Eastbound Ramps

Grand Total

Apprch % Total %

39

2.5

0.9

97.5

36.8

Weather: Clear

File Name: 03\_MRV\_Theodore\_60E AM Site Code: 09817323

Site Code : 09817323 Start Date : 5/31/2017

Page No : 1

			(	Groups Prin	ted- 5 Axle	Trucks				
	Т	heodore Str		Т	heodore St		SR-60	Eastbound		
		Southboun	d		Northboun	d		Eastbound	t	
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	0	5	1	6	6
07:15 AM	4	0	4	1	1	2	4	3	7	13
07:30 AM	7	1	8	4	0	4	2	0	2	14
07:45 AM	6	0	6	7	0	7	1	1	2	15_
Total	17	1	18	12	1	13	12	5	17	48
08:00 AM	2	0	2	7	2	9	2	1	3	14
08:15 AM	6	0	6	3	0	3	2	0	2	11
08:30 AM	8	0	8	5	2	7	1	3	4	19
08:45 AM	6	0	6	5	0	5	2	1	3	14_
Total	22	0	22	20	4	24	7	5	12	58

5

13.5

4.7

37

34.9

19

65.5

17.9

10

34.5

9.4

29

27.4

106

32

86.5

30.2

40

37.7

	TI	heodore Str	eet	Т	heodore St	reet	SR-60	Eastbound	l Ramps	
		Southbound	d		Northboun	d		Eastbound	t	
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 08:00 Al	M to 08:45 A	AM - Peak 1 d	of 1				_		
Peak Hour for Entire In	ntersection E	Begins at 08	:00 AM							
08:00 AM	2	0	2	7	2	9	2	1	3	14
08:15 AM	6	0	6	3	0	3	2	0	2	11
08:30 AM	8	0	8	5	2	7	1	3	4	19
08:45 AM	6	0	6	5	0	5	2	1	3	14_
Total Volume	22	0	22	20	4	24	7	5	12	58
% App. Total	100	0		83.3	16.7		58.3	41.7		
PHF	.688	.000	.688	.714	.500	.667	.875	.417	.750	.763

City of Moreno Valley N/S: Theodore Street

E/W: SR-60 Eastbound Ramps

Weather: Clear

File Name: 03\_MRV\_Theodore\_60E AM Site Code: 09817323

Start Date : 5/31/2017 Page No : 1

			G	roups Printe	ed- 6+ Axle	Trucks				
	Th	eodore Str	eet	. TI	heodore Str	eet	SR-60	Eastbound	Ramps	
		Southbound	t		Northboun	d		Eastbound		
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	0	0	1	1	1
07:15 AM	1	0	1	0	0	0	0	0	0	1
07:30 AM	0	0	0	1	0	1	0	0	0	1
07:45 AM	11	0	1	0	0	0	0	0	0	1_
Total	2	0	2	1	0	1	0	1	1	4
08:00 AM	2	0	2	1	0	1	0	0	0	3
08:15 AM	0	0	0	1	0	1	0	0	0	1
08:30 AM	0	0	0	0	0	0	0	0	0	0
08:45 AM	1	0	1	1	0	1	0	0	0	2
Total	3	0	3	3	0	3	0	0	0	6
Grand Total	5	0	5	4	0	4	0	1	1	10
Apprch %	100	0		100	0		0	100		
Total %	50	0	50	40	0	40	0	10	10	

	Th	eodore Str	eet	Т	heodore St	reet	SR-60	Eastbound	Ramps	
	9	Southbound	d		Northboun	d		Eastbound	·	
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 08:00 AN	l to 08:45 A	AM - Peak 1 of	f 1				_		
Peak Hour for Entire In	tersection Be	egins at 08	:00 AM							
08:00 AM	2	0	2	1	0	1	0	0	0	3
08:15 AM	0	0	0	1	0	1	0	0	0	1
08:30 AM	0	0	0	0	0	0	0	0	0	0
08:45 AM	1	0	1	1	0	1	0	0	0	2
Total Volume	3	0	3	3	0	3	0	0	0	6
% App. Total	100	0		100	0		0	0		
PHF	.375	.000	.375	.750	.000	.750	.000	.000	.000	.500

City of Moreno Valley N/S: Theodore Street

E/W: SR-60 Eastbound Ramps

Grand Total Apprch % Total %

0

0

0

0

Weather: Clear

File Name: 03\_MRV\_Theodore\_60E AM Site Code: 09817323

1

100

1

Site Code : 09817323 Start Date : 5/31/2017

0

0

Page No : 1

			(	Groups Prin	ted- Buses	& RV's				
	Т	heodore Str		T	heodore St		SR-60	Eastbound		
		Southboun	<u>d</u>		Northboun			Eastbound	d l	
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	0	0	0_
Total	0	0	0	0	0	0	0	0	0	0
08:00 AM	0	0	0	0	0	0	1	0	1	1
08:15 AM	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	1	0	1	1

0

0

0

0

0

100

100

0

0

	Т	Theodore Street		T	heodore St	reet	SR-60	l Ramps		
		Southbound	b		Northboun	d		Eastbound	t	
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 08:00 A	M to 08:45 A	AM - Peak 1 c	of 1				_		
Peak Hour for Entire Ir	ntersection E	Begins at 08	:00 AM							
08:00 AM	0	0	0	0	0	0	1	0	1	1
08:15 AM	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	0_
Total Volume	0	0	0	0	0	0	1	0	1	1
% App. Total	0	0		0	0		100	0		
PHF	.000	.000	.000	.000	.000	.000	.250	.000	.250	.250

City of Moreno Valley N/S: Theodore Street E/W: SR-60 Eastbound Ramps

Weather: Clear

File Name: 03\_MRV\_Theodore\_60E AM Site Code: 09817323

				Groups Pri						
	Т	heodore Str	eet	· T	heodore St	reet	SR-60	Eastbound	Ramps	
		Southboun	d		Northboun			Eastbound		
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	0	1	1	1
07:30 AM	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	0	0	0_
Total	0	0	0	0	0	0	0	1	1	1
08:00 AM	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	1	1	1
Apprch %	0	0		0	0		0	100		
Total %	0	0	0	0	0	0	0	100	100	

	Т	Theodore Street		Т	heodore St	reet	SR-60	Ramps		
		Southbound	b		Northboun	d		Eastbound	b	
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 08:00 A	M to 08:45 A	AM - Peak 1 d	of 1				_		
Peak Hour for Entire Ir	tersection E	Begins at 08	:00 AM							
MA 00:80	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	0_
Total Volume	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0		0	0		0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

City of Moreno Valley N/S: Theodore Street E/W: SR-60 Eastbound Ramps

Weather: Clear

File Name: 03\_MRV\_Theodore\_60E AM Site Code: 09817323

Groups Printed- Bicycle	<u>s</u>
-------------------------	----------

				0.00,00.		0.00				
	The	eodore Str	eet	T	heodore Str	eet	SR-60	Ramps		
		Southbound	d		Northboun	d		Eastbound		
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	0	0	0	0
07:30 AM	1	0	1	0	0	0	0	0	0	1
 07:45 AM	0	0	0	0	0	0	0	0	0	0_
Total	1	0	1	0	0	0	0	0	0	1
08:00 AM	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0
 08:45 AM	0	0	0	0	0	0	0	0	0	0_
Total	0	0	0	0	0	0	0	0	0	0
Grand Total	1	0	1	0	0	0	0	0	0	1
Apprch %	100	0		0	0		0	0		
Total %	100	0	100	0	0	0	0	0	0	

	Т	Theodore Street		Т	heodore St	reet	SR-60	Ramps		
		Southbound	d		Northboun	d		Eastbound	d	
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 08:00 A	M to 08:45 A	AM - Peak 1 c	of 1				_		
Peak Hour for Entire Ir	ntersection E	Begins at 08	:00 AM							
08:00 AM	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0		0	0		0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

City of Moreno Valley N/S: Theodore Street E/W: SR-60 Eastbound Ramps

Weather: Clear

File Name: 03\_MRV\_Theodore\_60E AM Site Code: 09817323

			G	Groups Prin	ted- Mediun	n Truck				
	Т	heodore Str	eet	. Т	heodore Sti	reet	SR-60	Eastbound	l Ramps	
		Southboun	d		Northboun	d		Eastbound		
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	0	0	0_
Total	0	0	0	0	0	0	0	0	0	0
08:00 AM	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	0_
Total	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0
Apprch %	0	0		0	0		0	0		
Total %										

	Т	Theodore Street		Ţ	heodore St	reet	SR-60	Ramps		
		Southbound	d		Northboun	d		Eastbound	. k	
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 08:00 A	M to 08:45 A	AM - Peak 1 c	of 1				_		
Peak Hour for Entire In	tersection E	Begins at 08	:00 AM							
MA 00:80	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0		0	0		0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

City of Moreno Valley N/S: Theodore Street

E/W: SR-60 Eastbound Ramps

Weather: Clear

File Name: 03\_MRV\_Theodore\_60E PM Site Code: 09817323

Site Code : 09817323 Start Date : 5/31/2017

Page No : 1

Groups Printed- Cars & Trailers - Large 2 Axle Vehicles - 3 Axle Vehicles - 4 Axle Trucks - 5 Axle Trucks - 6+ Axle Trucks - Buses & RV's 
Motorcycles - Bicycles - Medium Truck

	т	heodore Str			cycles - Med heodore Str		SD 60	Ramps		
	'	Southboun			Northbound		311-00	Eastbound		
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
04:00 PM	7	3	10	7	15	22	1	5	6	38
04:15 PM	13	4	17	4	15	19	2	5	7	43
04:30 PM	9	4	13	10	5	15	5	10	15	43
04:45 PM	9	3	12	11	11	22	5	6	11	45
Total	38	14	52	32	46	78	13	26	39	169
05:00 PM	9	3	12	5	5	10	3	7	10	32
05:15 PM	7	5	12	3	9	12	1	8	9	33
05:30 PM	6	3	9	8	16	24	1	11	12	45
05:45 PM	9	0	9	7	8	15	2	6	8	32
Total	31	11	42	23	38	61	7	32	39	142
	1			1						
Grand Total	69	25	94	55	84	139	20	58	78	311
Apprch %	73.4	26.6		39.6	60.4		25.6	74.4		
Total %	22.2	8	30.2	17.7	27	44.7	6.4	18.6	25.1	
Cars & Trailers	66	23	89	46	75	121	11	41	52	262
% Cars & Trailers	95.7	92	94.7	83.6	89.3	87.1	55	70.7	66.7	84.2
Large 2 Axle Vehicles	0	1	1	0	1	1	6	1	7	9
% Large 2 Axle Vehicles	00_	4	1.1	0	1.2	0.7	30	1.7	9	2.9
3 Axle Vehicles	0	0	0	0	3	3	0	1	1	4
% 3 Axle Vehicles	0	0	0	0	3.6	2.2	0	1.7	1.3	1.3
4 Axle Trucks	0	0	0	0	1	1	1	3	4	5
% 4 Axle Trucks	0	0	0	0	1.2	0.7	5	5.2	5.1	1.6
5 Axle Trucks	3	0	3	4	4	8	1	12	13	24
% 5 Axle Trucks	4.3	0	3.2	7.3	4.8	5.8	5	20.7	16.7	7.7
6+ Axle Trucks	0	1	1	0	0	0	1	0	1	2
% 6+ Axle Trucks	0	4	1.1	0	0	0	5	0	1.3	0.6
Buses & RV's	0	0	0	0	0	0	0 0	0 0	0	0
% Buses & RV's	0	0	0	5	0	5	0	0	0	<u>0</u> 5
Motorcycles	0	_	_	9.1	0	-	0	0	-	
% Motorcycles	0	0	0	9.1	0	3.6	0	0	0	1.6
Bicycles % Bicycles	0	0	0	0	0	0	0	0	0	0
Medium Truck	0	0	0	0	0	0	0	0	0	0
% Medium Truck	0	0	0	0	0	0	0	0	0	0
% iviedium muck	1 0	U	U	U	Ü	0	U	Ü	0	U

		eodore Stre		Т	heodore Stro		SR-60 Eastbound Ramps Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis Fro	m 04:00 PM	to 05:45 PN	/I - Peak 1 of	1						
Peak Hour for Entire Int	ersection Be	gins at 04:0	0 PM							
04:00 PM	7	3	10	7	15	22	1	5	6	38
04:15 PM	13	4	17	4	15	19	2	5	7	43
04:30 PM	9	4	13	10	5	15	5	10	15	43
04:45 PM	9	3	12	11	11	22	5	6	11	45
Total Volume	38	14	52	32	46	78	13	26	39	169
% App. Total	73.1	26.9		41	59		33.3	66.7		
PHF	.731	.875	.765	.727	.767	.886	.650	.650	.650	.939

City of Moreno Valley N/S: Theodore Street

E/W: SR-60 Eastbound Ramps

Apprch %

Total %

74.2

25.2

25.8

8.8

Weather: Clear

File Name: 03\_MRV\_Theodore\_60E PM Site Code: 09817323

Start Date : 5/31/2017 Page No : 1

21.2

4.2

46.2

78.8

15.6

19.8

			G	roups Print	<u>ed- Cars &amp; ˈ</u>	Trailers				
	TI	heodore Str	eet	T	heodore Sti	reet	SR-60	Eastbound	Ramps	
		Southboun	d		Northboun	d		Eastbound	d i	
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
04:00 PM	7	3	10	5	12	17	0	5	5	32
04:15 PM	12	4	16	4	10	14	0	3	3	33
04:30 PM	8	3	11	6	5	11	4	7	11	33
04:45 PM	8	3	11	10	11	21	4	4	8	40_
Total	35	13	48	25	38	63	8	19	27	138
05:00 PM	9	3	12	5	5	10	1	5	6	28
05:15 PM	7	4	11	3	8	11	1	3	4	26
05:30 PM	6	3	9	6	16	22	0	9	9	40
05:45 PM	9	0	9	7	8	15	1	5	6	30_
Total	31	10	41	21	37	58	3	22	25	124
Grand Total	66	23	89	46	75	121	11	41	52	262

62

28.6

38

17.6

34

	TI	Theodore Street		Т	heodore St	reet	SR-60	l Ramps		
		Southbound	d		Northboun	d		Eastbound	ı k	
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 04:00 Pl	M to 04:45 F	PM - Peak 1 c	of 1				_		
Peak Hour for Entire Ir	tersection E	Begins at 04	:00 PM							
04:00 PM	7	3	10	5	12	17	0	5	5	32
04:15 PM	12	4	16	4	10	14	0	3	3	33
04:30 PM	8	3	11	6	5	11	4	7	11	33
04:45 PM	8	3	11	10	11	21	4	4	8	40_
Total Volume	35	13	48	25	38	63	8	19	27	138
% App. Total	72.9	27.1		39.7	60.3		29.6	70.4		
PHF	.729	.813	.750	.625	.792	.750	.500	.679	.614	.863

City of Moreno Valley N/S: Theodore Street

E/W: SR-60 Eastbound Ramps

Weather: Clear

File Name: 03\_MRV\_Theodore\_60E PM Site Code: 09817323

			Grou	ps Printed-	Large 2 Ax	e Vehicles				
	Tł	neodore Str			heodore Str		SR-60	) Eastbound	Ramps	
		Southbound			Northboun			Eastboung	d	
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	1	1	2	0	2	3
04:30 PM	0	0	0	0	0	0	1	1	2	2
04:45 PM	0	0	0	0	0	0	0	0	0	0_
Total	0	0	0	0	1	1	3	1	4	5
05:00 PM	0	0	0	0	0	0	2	0	2	2
05:15 PM	0	1	1	0	0	0	0	0	0	1
05:30 PM	0	0	0	0	0	0	1	0	1	1
05:45 PM	0	0	0	0	0	0	0	0	0	0_
Total	0	1	1	0	0	0	3	0	3	4
Grand Total	0	1	1	0	1	1	6	1	7	9
Apprch %	0	100		0	100		85.7	14.3		
Total %	0	11.1	11.1	0	11.1	11.1	66.7	11.1	77.8	

	Т	heodore Str	eet	Т	heodore Sti	reet	SR-60	) Eastbound	Ramps	
		Southbound	b		Northboun	d		Eastbound	k	
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 04:00 P	M to 04:45 F	PM - Peak 1 c	of 1				<u>-</u>	• •	
Peak Hour for Entire Ir	ntersection E	Begins at 04	:00 PM							
04:00 PM	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	1	1	2	0	2	3
04:30 PM	0	0	0	0	0	0	1	1	2	2
04:45 PM	0	0	0	0	0	0	0	0	0	0_
Total Volume	0	0	0	0	1	1	3	1	4	5
% App. Total	0	0		0	100		75	25		
PHF	.000	.000	.000	.000	.250	.250	.375	.250	.500	.417

City of Moreno Valley N/S: Theodore Street

E/W: SR-60 Eastbound Ramps

Total

Weather: Clear

File Name: 03\_MRV\_Theodore\_60E PM Site Code: 09817323

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Start Date : 5/31/2017 Page No : 1

	TI	heodore Str	reet	T	heodore Str	reet	SR-60	Eastbound	Ramps	
		Southboun	d		Northboun	d		Eastbound	d	
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	1	1	0	0	0	1
04:15 PM	0	0	0	0	2	2	0	1	1	3
04:30 PM	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0_
Total	0	0	0	0	3	3	0	1	1	4
			_			_ 1		_	_ 1	
05:00 PM	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0

Groups Printed- 3 Axle Vehicles

Grand Total	0	0	0	0	3	3	0	1	1
Apprch %	0	0		0	100		0	100	
Total %	0	0	0	0	75	75	0	25	25

	The	eodore Stre	eet	The	eodore Str	eet	SR-60	Eastbound	Ramps	
	S	outhbound	d	1	Northboun	d		Eastbound	t	
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis Fro	om 04:00 PM	to 04:45 F	PM - Peak 1 of	1				_		_
Peak Hour for Entire In	itersection Be	gins at 04	:00 PM							
04:00 PM	0	0	0	0	1	1	0	0	0	1
04:15 PM	0	0	0	0	2	2	0	1	1	3
04:30 PM	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	3	3	0	1	1	4
% App. Total	0	0		0	100		0	100		
PHF	000	000	000	000	375	375	000	250	250	333

City of Moreno Valley N/S: Theodore Street

E/W: SR-60 Eastbound Ramps

Weather: Clear

File Name: 03\_MRV\_Theodore\_60E PM Site Code: 09817323

Groups	Printed	l- 4 Axle	Trucks

				Jioups Pilii	ileu- 4 Axie	TTUCKS				
	Th	neodore Str	eet	T	heodore Str	eet	SR-60	Eastbound	Ramps	
		Southbound	d		Northbound	d		Eastbound	1	
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	0	0	1	0	1	1
04:15 PM	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	1	1	1
 04:45 PM	0	0	0	0	0	0	0	0	0	0_
Total	0	0	0	0	0	0	1	1	2	2
05:00 PM	0	0	0	0	0	0	0	1	1	1
05:15 PM	0	0	0	0	1	1	0	1	1	2
05:30 PM	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	1	1	0	2	2	3
Grand Total	0	0	0	0	1	1	1	3	4	5
Apprch %	0	0		0	100		25	75		
Total %	0	0	0	0	20	20	20	60	80	

	Т	heodore Str	eet	Т	heodore St	reet	SR-60	Ramps		
		Southbound	d		Northboun	d		Eastbound	t	
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 04:00 P	M to 04:45 F	PM - Peak 1 d	of 1				_		
Peak Hour for Entire In	tersection E	Begins at 04	:00 PM							
04:00 PM	0	0	0	0	0	0	1	0	1	1
04:15 PM	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	1	1	1
04:45 PM	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	1	1	2	2
% App. Total	0	0		0	0_		50	50		
PHF	.000	.000	.000	.000	.000	.000	.250	.250	.500	.500

City of Moreno Valley N/S: Theodore Street E/W: SR-60 Eastbound Ramps

Weather: Clear

File Name: 03\_MRV\_Theodore\_60E PM Site Code: 09817323

Start Date : 5/31/2017 Page No : 1

Groups Printed- 5 Ayla Trucks

					ed- 5 Axle					
	Th	eodore Stre	eet	T	heodore Str	eet	SR-60	) Eastbound	Ramps	
		Southbound	b		Northbound	b		Eastbound		
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
04:00 PM	0	0	0	1	2	3	0	0	0	3
04:15 PM	1	0	1	0	2	2	0	1	1	4
04:30 PM	1	0	1	0	0	0	0	1	1	2
04:45 PM	11	0	1	1	0	1	1	2	3	5_
Total	3	0	3	2	4	6	1	4	5	14
05:00 PM	0	0	0	0	0	0	0	1	1	1
05:15 PM	0	0	0	0	0	0	0	4	4	4
05:30 PM	0	0	0	2	0	2	0	2	2	4
05:45 PM	0	0	0	0	0	0	0	1	1	1_
Total	0	0	0	2	0	2	0	8	8	10
Grand Total	3	0	3	4	4	8	1	12	13	24
Apprch %	100	0		50	50		7.7	92.3		
Total %	12.5	0	12.5	16.7	16.7	33.3	4.2	50	54.2	

	Th	eodore Str	eet	T	heodore St	reet	SR-60	Eastbound	Ramps	
		Southbound	b		Northboun	d		Eastbound	k	
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 04:00 PM	1 to 04:45 F	PM - Peak 1 o	f 1				_	•	
Peak Hour for Entire In	ntersection Be	egins at 04	:00 PM							
04:00 PM	0	0	0	1	2	3	0	0	0	3
04:15 PM	1	0	1	0	2	2	0	1	1	4
04:30 PM	1	0	1	0	0	0	0	1	1	2
04:45 PM	1	0	1	1	0	1	1	2	3	5_
Total Volume	3	0	3	2	4	6	1	4	5	14
% App. Total	100	0		33.3	66.7		20	80		
PHF	.750	.000	.750	.500	.500	.500	.250	.500	.417	.700

City of Moreno Valley N/S: Theodore Street E/W: SR-60 Eastbound Ramps

Weather: Clear

File Name: 03\_MRV\_Theodore\_60E PM Site Code: 09817323

			G	roups Print	ted- 6+ Axle	Trucks				
	Т	heodore Str	eet	· T	heodore St	reet	SR-60	Eastbound	Ramps	
		Southboun			Northboun			Eastbound		
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	1	1	0	0	0	0	0	0	1
04:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	1	1	0	0	0	0	0	0	1
05:00 PM	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	1	0	1	1_
Total	0	0	0	0	0	0	1	0	1	1
Grand Total	0	1	1	0	0	0	1	0	1	2
Apprch %	0	100		0	0		100	0		
Total %	0	50	50	0	0	0	50	0	50	

	Т	heodore Stre	eet	Т	heodore St	reet	SR-60	) Eastbound	l Ramps	
		Southbound	b		Northboun	d		Eastbound	t	
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 04:00 P	M to 04:45 F	PM - Peak 1 c	of 1				_		
Peak Hour for Entire Ir	ntersection E	Begins at 04:	:00 PM							
04:00 PM	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	1	1	0	0	0	0	0	0	1
04:45 PM	0	0	0	0	0	0	0	0	0	0_
Total Volume	0	1	1	0	0	0	0	0	0	1
% App. Total	0	100		0	0		0	0		
PHF	.000	.250	.250	.000	.000	.000	.000	.000	.000	.250

City of Moreno Valley N/S: Theodore Street E/W: SR-60 Eastbound Ramps

Weather: Clear

File Name: 03\_MRV\_Theodore\_60E PM Site Code: 09817323

Start Date : 5/31/2017 Page No : 1

Groups Printed- Buses & RV's

	The	andora Ctra			eu- buses c		SR-60 Eastbound Ramps			
	Theodore Street			Theodore Street						
	Southbound			Northbound			Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0_
Total	0	0	0	0	0	0	0	0	0	0
05:00 PM	0	0	ا م	0	0	0	0	0	ا م	0
	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0_
Total	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0
Apprch %	0	0		0	0		0	0		
Total %										

	Theodore Street			Т	heodore Sti	reet	SR-60 Eastbound Ramps			
	Southbound				Northboun	d	Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 04:00 P	M to 04:45 F	PM - Peak 1 c	of 1				_		
Peak Hour for Entire Ir	ntersection E	Begins at 04	:00 PM							
04:00 PM	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0		0	0		0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

City of Moreno Valley N/S: Theodore Street E/W: SR-60 Eastbound Ramps

Weather: Clear

File Name: 03\_MRV\_Theodore\_60E PM Site Code: 09817323

Start Date : 5/31/2017 Page No : 1

Groups Printed- Motorcycles

					ntea- Motor					
	Theodore Street			Т	heodore St	reet	SR-60 Eastbound Ramps			
		Southbound			Northboun	d	Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
04:00 PN	1 0	0	0	1	0	1	0	0	0	1
04:15 PN	1 0	0	0	0	0	0	0	0	0	0
04:30 PN	1 0	0	0	4	0	4	0	0	0	4
04:45 PN	1 0	0	0	0	0	0	0	0	0	0_
Tota	I 0	0	0	5	0	5	0	0	0	5
05:00 PN	1 0	0	0	0	0	0	0	0	0	0
05:15 PN	1 0	0	0	0	0	0	0	0	0	0
05:30 PN	1 0	0	0	0	0	0	0	0	0	0
05:45 PN	1 0	0	0	0	0	0	0	0	0	0
Tota	I 0	0	0	0	0	0	0	0	0	0
Grand Tota	I 0	0	0	5	0	5	0	0	0	5
Apprch %	6 0	0		100	0		0	0		
Total %		0	0	100	0	100	0	0	0	

	Theodore Street			Т	heodore St	reet	SR-60 Eastbound Ramps			
	Southbound				Northboun	ıd	Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 04:00 P	M to 04:45 F	PM - Peak 1 d	of 1				_		
Peak Hour for Entire Ir	ntersection E	Begins at 04	:00 PM							
04:00 PM	0	0	0	1	0	1	0	0	0	1
04:15 PM	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	4	0	4	0	0	0	4
04:45 PM	0	0	0	0	0	0	0	0	0	0_
Total Volume	0	0	0	5	0	5	0	0	0	5
% App. Total	0	0		100	0		0	0		
PHF	.000	.000	.000	.313	.000	.313	.000	.000	.000	.313

City of Moreno Valley N/S: Theodore Street E/W: SR-60 Eastbound Ramps

Weather: Clear

File Name: 03\_MRV\_Theodore\_60E PM Site Code: 09817323

Start Date : 5/31/2017 Page No : 1

Groups Printed- Bicycles

		Th	neodore Str	eet		rinted- Bicy heodore Str		SR-60	Eastbound	Ramps	
			Southbound	d		Northboun	d		Eastbound	_	
Start -	Гіте	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
04:00	PM	0	0	0	0	0	0	0	0	0	0
04:15	PM	0	0	0	0	0	0	0	0	0	0
04:30	PM	0	0	0	0	0	0	0	0	0	0
04:45	PM	0	0	0	0	0	0	0	0	0	0_
-	Γotal │	0	0	0	0	0	0	0	0	0	0
05:00	PM	0	0	0	0	0	0	0	0	0	0
05:15	PM	0	0	0	0	0	0	0	0	0	0
05:30	PM	0	0	0	0	0	0	0	0	0	0
05:45	PM	0	0	0	0	0	0	0	0	0	0_
-	「otal │	0	0	0	0	0	0	0	0	0	0
Grand <sup>7</sup>		0	0	0	0	0	0	0	0	0	0
Appro	h %	0	0		0	0		0	0		
	al %										

	Т	heodore Str	eet	Т	heodore St	reet	SR-60	) Eastbound	Ramps	
		Southbound	b		Northboun	d		Eastbound	l l	
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 04:00 P	M to 04:45 F	PM - Peak 1 c	of 1				-		
Peak Hour for Entire Ir	tersection E	Begins at 04	:00 PM							
04:00 PM	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0_
Total Volume	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0		0	0		0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

City of Moreno Valley N/S: Theodore Street E/W: SR-60 Eastbound Ramps

Weather: Clear

File Name: 03\_MRV\_Theodore\_60E PM Site Code: 09817323

				Groups Prin	ted- Medium	n Truck				
	Т	heodore Str	eet	T	heodore Sti	reet	SR-60	Eastbound	Ramps	
		Southbound	d		Northboun	d		Eastbound	d i	
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0_
Total	0	0	0	0	0	0	0	0	0	0
05:00 PM	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0_
Total	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0
Apprch %	0	0		0	0		0	0		
Total %										

	Т	heodore Str	eet	Т	heodore Sti	reet	SR-60	) Eastbound	Ramps	
		Southbound	b		Northboun	d		Eastbound	b	
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 04:00 P	M to 04:45 F	PM - Peak 1 c	of 1				_		
Peak Hour for Entire Ir	ntersection E	Begins at 04	:00 PM							
04:00 PM	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0		0	0		0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

City of Moreno Valley N/S: Theodore Street

E/W: SR-60 Westbound Ramps

Weather: Clear

File Name: 02\_MRV\_Theodore\_60W AM Site Code: 09817323

Start Date : 5/31/2017

Page No : 1

Groups Printed- Cars & Trailers - Large 2 Axle Vehicles - 3 Axle Vehicles - 4 Axle Trucks - 5 Axle Trucks - 6+ Axle Trucks - Buses & RV's Motorcycles - Bicycles - Medium Truck

					cycles - Med					
	I	heodore Str		SR-60	Westbound			neodore Str		
		Southboun			Westbound			<u>Northboung</u>		
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
07:00 AM	2	5	7	2	7	9	12	3	15	31
07:15 AM	4	1	5	16	3	19	10	2	12	36
07:30 AM	7	6	13	9	5	14	4	1	5	32
07:45 AM	4	3	7	15	9	24	7	1	8	39
Total	17	15	32	42	24	66	33	7	40	138
08:00 AM	6	5	11	7	7	14	9	3	12	37
08:15 AM	6	6	12	11	1	12	7	3	10	34
08:30 AM	6	3	9	11	0	11	11	7	18	38
08:45 AM	4	4	8	12	3	15	8	2	10	33
Total	22	18	40	41	11	52	35	15	50	142
Grand Total	39	33	72	83	35	118	68	22	90	280
Apprch %	54.2	45.8		70.3	29.7		75.6	24.4		
ˈTotal %	13.9	11.8	25.7	29.6	12.5	42.1	24.3	7.9	32.1	
Cars & Trailers	15	30	45	36	29	65	37	16	53	163
% Cars & Trailers	38.5	90.9	62.5	43.4	82.9	55.1	54.4	72.7	58.9	58.2
Large 2 Axle Vehicles	3	1	4	1	3	4	4	1	5	13
% Large 2 Axle Vehicles	7.7	3	5.6	1.2	8.6	3.4	5.9	4.5	5.6	4.6
3 Axle Vehicles	3	0	3	0	0	0	3	1	4	7
% 3 Axle Vehicles	7.7	0	4.2	0	0	0	4.4	4.5	4.4	2.5
4 Axle Trucks	3	1	4	0	0	0	5	0	5	9
% 4 Axle Trucks	7.7	3	5.6	0	0	0	7.4	0	5.6	3.2
5 Axle Trucks	15	1	16	39	1	40	18	4	22	78
% 5 Axle Trucks	38.5	3	22.2	47	2.9	33.9	26.5	18.2	24.4	27.9
6+ Axle Trucks	0	0	0	7	0	7	1	0	1	8
% 6+ Axle Trucks	0	0	0	8.4	0	5.9	1.5	0	1.1	2.9
Buses & RV's	0	0	0	0	0	0	0	0	0	0
% Buses & RV's	0	0	0	0	0	0	0	0	0	0
Motorcycles	0	0	0	0	2	2	0	0	0	2
% Motorcycles	0	0	0	0	5.7	1.7	0	0	0	0.7
Bicycles	0	0	0	0	0	0	0	0	0	0
% Bicycles	0	0	0	0	0	0	0	0	0	0_
Medium Truck	0	0	0	0	0	0	0	0	0	0
% Medium Truck	0	0	0	0	0	0	0	0	0	0

	Th	eodore Stre	eet	SR-60	Westbound	Ramps	Tł	neodore Stre	eet	
	9	Southbound	b		Westbound			Northbound	t	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis Fro	m 07:00 AM t	to 08:45 AN	/I - Peak 1 of	1						
Peak Hour for Entire Int	ersection Beg	gins at 07:4	5 AM							
07:45 AM	4	3	7	15	9	24	7	1	8	39
08:00 AM	6	5	11	7	7	14	9	3	12	37
08:15 AM	6	6	12	11	1	12	7	3	10	34
08:30 AM	6	3	9	11	0	11	11	7	18	38
Total Volume	22	17	39	44	17	61	34	14	48	148
% App. Total	56.4	43.6		72.1	27.9		70.8	29.2		
PHF	.917	.708	.813	.733	.472	.635	.773	.500	.667	.949

City of Moreno Valley N/S: Theodore Street E/W: SR-60 Westbound Ramps

Weather: Clear

File Name: 02\_MRV\_Theodore\_60W AM Site Code: 09817323

Start Date : 5/31/2017 Page No : 1

Groups Printed- Cars & Trailers

				G		ea- Cars &					
		Th	eodore Str	eet	SR-60	Westbound	Ramps	TI	heodore Str	eet	
			Southbound	d		Westbound	1		Northbound	d b	
Start Tin	ne	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
07:00 A	M	1	5	6	2	6	8	5	3	8	22
07:15 A	M	3	1	4	9	3	12	7	0	7	23
07:30 A	M	0	5	5	4	5	9	1	1	2	16
07:45 A	M	0	3	3	6	6	12	4	1	5	20
To	tal	4	14	18	21	20	41	17	5	22	81
08:00 A	M	3	5	8	3	6	9	4	1	5	22
08:15 A	M	3	5	8	4	1	5	6	2	8	21
08:30 A	M	2	3	5	4	0	4	7	6	13	22
08:45 A	M	3	3	6	4	2	6	3	2	5	17
To	tal	11	16	27	15	9	24	20	11	31	82
Grand To	tal	15	30	45	36	29	65	37	16	53	163
Apprch	%	33.3	66.7		55.4	44.6		69.8	30.2		
Total		9.2	18.4	27.6	22.1	17.8	39.9	22.7	9.8	32.5	

	Т	heodore Sti	eet	SR-60	) Westbound	d Ramps	Th	eodore Str	eet	
		Southboun	d		Westboun	d		Northbound	b	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 07:45 A	M to 08:30	AM - Peak 1 d	of 1	_			_		
Peak Hour for Entire Ir	ntersection E	Begins at 07	′:45 AM							
07:45 AM	0	3	3	6	6	12	4	1	5	20
08:00 AM	3	5	8	3	6	9	4	1	5	22
08:15 AM	3	5	8	4	1	5	6	2	8	21
08:30 AM	2	3	5	4	0	4	7	6	13	22
Total Volume	8	16	24	17	13	30	21	10	31	85
% App. Total	33.3	66.7		56.7	43.3		67.7	32.3		
PHF	.667	.800	.750	.708	.542	.625	.750	.417	.596	.966

City of Moreno Valley N/S: Theodore Street

E/W: SR-60 Westbound Ramps

Weather: Clear

File Name: 02\_MRV\_Theodore\_60W AM Site Code: 09817323

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			Grou	ps Printed-	Large 2 Axl	e Vehicles				
	Th	eodore Str	eet	SR-60	Westbound	l Ramps	Th	neodore Str	eet	
	5	Southbound	b		Westbound	. t		Northbound	b	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	0	1	1	1
07:30 AM	0	0	0	0	0	0	1	0	1	1
07:45 AM	11	0	1	0	1	1	1	0	1	3_
Total	1	0	1	0	1	1	2	1	3	5
08:00 AM	1	0	1	0	1	1	0	0	0	2
08:15 AM	1	1	2	0	0	0	1	0	1	3
08:30 AM	0	0	0	0	0	0	0	0	0	0
	_	_	_			_		_		

08:45 AM	0	0	0	1	1	2	1	0	1	
Total	2	1	3	1	2	3	2	0	2	
Grand Total	3	1	4	1	3	4	4	1	5	
Apprch %	75	25		25	75		80	20		
Total %	23.1	7.7	30.8	7.7	23.1	30.8	30.8	7.7	38.5	

	Th	eodore Str	eet	SR-60	Westbound	d Ramps	Th	neodore Str	reet	
	9	Southbound	d		Westbound	d		Northboun	d	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 07:45 AN	1 to 08:30 A	AM - Peak 1 of	f 1	_			_		
Peak Hour for Entire In	tersection Be	egins at 07	:45 AM							
07:45 AM	1	0	1	0	1	1	1	0	1	3
MA 00:80	1	0	1	0	1	1	0	0	0	2
08:15 AM	1	1	2	0	0	0	1	0	1	3
08:30 AM	0	0	0	0	0	0	0	0	0	0
Total Volume	3	1	4	0	2	2	2	0	2	8
% App. Total	75	25		0	100		100	0		
PHF	.750	.250	.500	.000	.500	.500	.500	.000	.500	.667

City of Moreno Valley N/S: Theodore Street E/W: SR-60 Westbound Ramps

Weather: Clear

File Name: 02\_MRV\_Theodore\_60W AM Site Code: 09817323

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Groups Printed- 3 Ayle Vehicles

			G	roups Printe	<u>a- 3 Axie v</u>	enicies				
	Th	neodore Str	eet	SR-60	Westbound	Ramps	Т	heodore Str	eet	
		Southboun	d		Westbound	d		Northbound	d	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	1	0	1	1_
Total	0	0	0	0	0	0	1	0	1	1
08:00 AM	1	0	1	0	0	0	1	0	1	2
08:15 AM	1	0	1	0	0	0	0	0	0	1
08:30 AM	1	0	1	0	0	0	0	1	1	2
08:45 AM	0	0	0	0	0	0	1	0	1	1_
Total	3	0	3	0	0	0	2	1	3	6
Grand Total	3	0	3	0	0	0	3	1	4	7
Apprch %	100	0		0	0		75	25		
Total %	42.9	0	42.9	0	0	0	42.9	14.3	57.1	

	Т	heodore Str	eet	SR-60	Westbound	d Ramps	T	heodore Str	eet	
		Southbound	d		Westboun	d		Northbound	d	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 07:45 A	M to 08:30 A	AM - Peak 1 c	of 1	_			_		
Peak Hour for Entire Ir	ntersection I	Begins at 07	:45 AM							
07:45 AM	0	0	0	0	0	0	1	0	1	1
MA 00:80	1	0	1	0	0	0	1	0	1	2
08:15 AM	1	0	1	0	0	0	0	0	0	1
08:30 AM	1	0	1	0	0	0	0	1	1	2
Total Volume	3	0	3	0	0	0	2	1	3	6
% App. Total	100	0		0	0		66.7	33.3		
PHF	.750	.000	.750	.000	.000	.000	.500	.250	.750	.750

City of Moreno Valley N/S: Theodore Street E/W: SR-60 Westbound Ramps

Weather: Clear

File Name: 02\_MRV\_Theodore\_60W AM Site Code: 09817323

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Groups Printed- 4 Axle Trucks

					tea- 4 Axie					
	T	heodore Str	reet	SR-60	Westbound	l Ramps	T	heodore Str	eet	
		Southboun	d		Westbound	. t		Northbound	b	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
07:00 AM	1	0	1	0	0	0	1	0	1	2
07:15 AM	1	0	1	0	0	0	0	0	0	1
07:30 AM	1	0	1	0	0	0	0	0	0	1
07:45 AM	0	0	0	0	0	0	0	0	0	0_
Total	3	0	3	0	0	0	1	0	1	4
MA 00:80	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	2	0	2	2
08:45 AM	0	1	1	0	0	0	2	0	2	3_
Total	0	1	1	0	0	0	4	0	4	5
Grand Total	3	1	4	0	0	0	5	0	5	9
Apprch %	75	25		0	0		100	0		
Total %	33.3	11.1	44.4	0	0	0	55.6	0	55.6	

	Т	heodore Str	eet	SR-60	Westbound	d Ramps	Th	eodore Str	eet	
		Southboun	d		Westbound	d		Northboun	d	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 07:45 A	M to 08:30	AM - Peak 1 d	of 1				_		
Peak Hour for Entire Ir	tersection E	Begins at 07	':45 AM							
07:45 AM	0	0	0	0	0	0	0	0	0	0
08:00 AM	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	2	0	2	2
Total Volume	0	0	0	0	0	0	2	0	2	2
% App. Total	0	0		0	0		100	0		
PHF	.000	.000	.000	.000	.000	.000	.250	.000	.250	.250

City of Moreno Valley N/S: Theodore Street E/W: SR-60 Westbound Ramps

Weather: Clear

File Name: 02\_MRV\_Theodore\_60W AM Site Code: 09817323

Start Date : 5/31/2017 Page No : 1

Groups Printed- 5 Ayla Trucks

				roups Prini	ted- 5 Axie	rucks				
	TI	heodore Str	reet	SR-60	Westbound	Ramps	Т	heodore Str	eet	
		Southboun	d		Westbound	d		Northbound	b	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	1	1	5	0	5	6
07:15 AM	0	0	0	6	0	6	3	1	4	10
07:30 AM	6	1	7	5	0	5	2	0	2	14
07:45 AM	3	0	3	7	0	7	1	0	1	11_
Total	9	1	10	18	1	19	11	1	12	41
08:00 AM	1	0	1	3	0	3	4	2	6	10
08:15 AM	1	0	1	7	0	7	0	1	1	9
08:30 AM	3	0	3	5	0	5	2	0	2	10
08:45 AM	1	0	1	6	0	6	1	0	1	8
Total	6	0	6	21	0	21	7	3	10	37
Grand Total	15	1	16	39	1	40	18	4	22	78
Apprch %	93.8	6.2		97.5	2.5		81.8	18.2		
Total %	19.2	1.3	20.5	50	1.3	51.3	23.1	5.1	28.2	

	TI	heodore Str	eet	SR-60	Westbound	d Ramps	Th	neodore Str	eet	
		Southbound	d		Westbound	d		Northboun	d	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 07:45 Al	M to 08:30 A	AM - Peak 1 d	of 1				_		
Peak Hour for Entire Ir	tersection E	Begins at 07	:45 AM							
07:45 AM	3	0	3	7	0	7	1	0	1	11
08:00 AM	1	0	1	3	0	3	4	2	6	10
08:15 AM	1	0	1	7	0	7	0	1	1	9
08:30 AM	3	0	3	5	0	5	2	0	2	10
Total Volume	8	0	8	22	0	22	7	3	10	40
% App. Total	100	0		100	0		70	30		
PHF	.667	.000	.667	.786	.000	.786	.438	.375	.417	.909

City of Moreno Valley N/S: Theodore Street E/W: SR-60 Westbound Ramps

Weather: Clear

File Name: 02\_MRV\_Theodore\_60W AM Site Code: 09817323

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Groups Printed- 6+ Ayla Trucks

			G	roups Printe	<u>ed- 6+ Axle</u>	Trucks				
	Th	heodore Str	eet	SR-60	Westbound	l Ramps	T	heodore Str	eet	
		Southbound	d		Westbound	. t		Northboun	d	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	0	1	0	1	1
07:15 AM	0	0	0	1	0	1	0	0	0	1
07:30 AM	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	2	0	2	0	0	0	2
Total	0	0	0	3	0	3	1	0	1	4
08:00 AM	0	0	0	1	0	1	0	0	0	1
08:15 AM	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	2	0	2	0	0	0	2
08:45 AM	0	0	0	1	0	1	0	0	0	1_
Total	0	0	0	4	0	4	0	0	0	4
Grand Total	0	0	0	7	0	7	1	0	1	8
Apprch %	0	0		100	0		100	0		
Total %	0	0	0	87.5	0	87.5	12.5	0	12.5	

	Т	heodore Sti	eet	SR-60	) Westbound	d Ramps	Tr	neodore Str	eet	
		Southboun	d		Westboun	d		Northboun	d	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 07:45 A	M to 08:30	AM - Peak 1 d	of 1						
Peak Hour for Entire Ir	ntersection E	Begins at 07	′:45 AM							
07:45 AM	0	0	0	2	0	2	0	0	0	2
MA 00:80	0	0	0	1	0	1	0	0	0	1
08:15 AM	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	2	0	2	0	0	0	2
Total Volume	0	0	0	5	0	5	0	0	0	5
% App. Total	0	0		100	0		0	0		
PHF	.000	.000	.000	.625	.000	.625	.000	.000	.000	.625

City of Moreno Valley N/S: Theodore Street E/W: SR-60 Westbound Ramps

Weather: Clear

File Name: 02\_MRV\_Theodore\_60W AM Site Code: 09817323

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Groups Printed- Buses & RV's

					<u>:ea- Buses a</u>					
	Th	neodore Stre	eet	SR-60	Westbound	Ramps	TI	heodore Str	eet	
		Southbound	d l		Westbound	ŀ		Northbound	b	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
08:00 AM	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0
Apprch %	0	0		0	0		0	0		
Total %										

	Т	heodore Str	eet	SR-60	Westbound	d Ramps	Tł	neodore Str	eet	
		Southboun	d		Westboun	d		Northboun	d	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 07:45 A	M to 08:30	AM - Peak 1 d	of 1				_		
Peak Hour for Entire In	tersection I	Begins at 07	':45 AM							
07:45 AM	0	0	0	0	0	0	0	0	0	0
MA 00:80	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0_
Total Volume	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0		0	0		0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

City of Moreno Valley N/S: Theodore Street E/W: SR-60 Westbound Ramps

Weather: Clear

File Name: 02\_MRV\_Theodore\_60W AM Site Code: 09817323

Start Date : 5/31/2017 Page No : 1

Groups Printed- Motorcycles

				Groups Prii	<u>ntea- iviotoro</u>	cycles				
	Th	neodore Str	eet	SR-60	Westbound	Ramps	T	heodore Str	eet	
		Southbound	d		Westbound	. t		Northbound	d l	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	2	2	0	0	0	2
Total	0	0	0	0	2	2	0	0	0	2
08:00 AM	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	2	2	0	0	0	2
Apprch %	0	0		0	100		0	0		
Total %	0	0	0	0	100	100	0	0	0	

	Т	heodore Str	eet	SR-60	Westbound	Ramps	Th	eodore Str	eet	
		Southboun	d		Westboun	d		Northbound	d	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 07:45 A	M to 08:30	AM - Peak 1 d	of 1				_		
Peak Hour for Entire Ir	tersection E	Begins at 07	':45 AM							
07:45 AM	0	0	0	0	2	2	0	0	0	2
MA 00:80	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0_
Total Volume	0	0	0	0	2	2	0	0	0	2
% App. Total	0	0		0	100		0	0		
PHF	.000	.000	.000	.000	.250	.250	.000	.000	.000	.250

City of Moreno Valley N/S: Theodore Street E/W: SR-60 Westbound Ramps

Weather: Clear

File Name: 02\_MRV\_Theodore\_60W AM Site Code: 09817323

Start Date : 5/31/2017 Page No : 1

Groups Printed- Bicycles

				Groups P	rintea- Bicy	cies				
	TI	heodore Str	eet	SR-60	Westbound	l Ramps	Th	neodore Str	eet	
		Southbound	d		Westbound	. t		Northbound	l k	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
08:00 AM	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	0
 Total	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0
Apprch %	0	0		0	0		0	0		
Total %										

	Т	heodore Str	eet	SR-60	Westbound	d Ramps	Tł	eet		
		Southboun	d		Westboun	d		Northboun	d	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 07:45 A	M to 08:30	AM - Peak 1 d	of 1				_		
Peak Hour for Entire In	tersection I	Begins at 07	':45 AM							
07:45 AM	0	0	0	0	0	0	0	0	0	0
MA 00:80	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0_
Total Volume	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0		0	0		0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

City of Moreno Valley N/S: Theodore Street E/W: SR-60 Westbound Ramps

Weather: Clear

File Name: 02\_MRV\_Theodore\_60W AM Site Code: 09817323

	Т	heodore Str	eet	SR-60	Westbound	d Ramps	Т	heodore Str	eet	
		Southboun	d		Westboun	d		Northboun	d	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	0	0	0_
Total	0	0	0	0	0	0	0	0	0	0
08:00 AM	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
rand Total	0	0	0	0	0	0	0	0	0	0
Apprch %	0	0		0	0		0	0		
Total %										
	07:00 AM 07:15 AM 07:30 AM 07:45 AM Total 08:00 AM 08:15 AM 08:30 AM 08:45 AM Total rand Total Apprch %	Start Time	Southboun   Start Time   Left   Thru     07:00 AM   0   0   0   07:15 AM   0   0   0   07:30 AM   0   0   0   07:45 AM   0   0   0   0   0   0   0   0   0	Theodore Street   Southbound	Theodore Street   Southbound   SR-60	Theodore Street   Southbound   Start Time   Left   Thru   App. Total   Left   Right	Southbound   Westbound   Start Time   Left   Thru   App. Total   Left   Right   App. Total	Theodore Street   Southbound   Start Time   Left   Thru   App. Total   Left   Right   App. Total   Thru   O7:00 AM   0   0   0   0   0   0   0   0   0	Theodore Street   Southbound   SR-60   Westbound   Ramps   Westbound   Theodore Street   Southbound   Start Time   Left   Thru   App. Total   Left   Right   App. Total   Thru   Right   O7:00 AM   0   0   0   0   0   0   0   0   0	Theodore Street   Southbound   SR-60   Westbound   Ramps   Westbound   Northbound

	Т	heodore Str	eet	SR-60	Westbound	d Ramps	TI	reet		
		Southboun	d		Westboun	d		Northbound	d	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 07:45 A	M to 08:30	AM - Peak 1 d	of 1	-			-		
Peak Hour for Entire Ir	tersection I	Begins at 07	:45 AM							
07:45 AM	0	0	0	0	0	0	0	0	0	0
MA 00:80	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0		0	0		0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

City of Moreno Valley N/S: Theodore Street

E/W: SR-60 Westbound Ramps

Weather: Clear

File Name: 02\_MRV\_Theodore\_60W PM Site Code: 09817323

Start Date : 5/31/2017

Page No : 1

Groups Printed- Cars & Trailers - Large 2 Axle Vehicles - 3 Axle Vehicles - 4 Axle Trucks - 5 Axle Trucks - 6+ Axle Trucks - Buses & RV's Motorcycles - Bicycles - Medium Truck

	_				cycles - Mec		71	1 0		
	ı	heodore Str		SR-60	Westbound			neodore Str		
		Southboun			Westbound			Northbound		
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
04:00 PM	11	7	18	3	1	4	5	13	18	40
04:15 PM	9	6	15	10	4	14	4	9	13	42
04:30 PM	10	11	21	4	3	7	7	10	17	45
04:45 PM	5	5	10	6	2	8	4	6	10	28
Total	35	29	64	23	10	33	20	38	58	155
05:00 PM	1	7	8	6	3	9	2	10	12	29
05:15 PM	3	8	11	3	4	7	1	4	5	23
05:30 PM	2	3	5	5	0	5	8	13	21	31
05:45 PM	2	3	5	4	4	8	1	6	7	20
Total	8	21	29	18	11	29	12	33	45	103
Grand Total	43	50	93	41	21	62	32	71	103	258
Apprch %	46.2	53.8		66.1	33.9		31.1	68.9		
Total %	16.7	19.4	36	15.9	8.1	24	12.4	27.5	39.9	
Cars & Trailers	32	49	81	37	20	57	27	59	86	224
% Cars & Trailers	74.4	98	87.1	90.2	95.2	91.9	84.4	83.1	83.5	86.8
Large 2 Axle Vehicles	3	0	3	0	1	1	2	6	8	12
% Large 2 Axle Vehicles	7	0	3.2	0	4.8	1.6	6.2	8.5	7.8	4.7
3 Axle Vehicles	1	0	1	1	0	1	0	4	4	6
% 3 Axle Vehicles	2.3	0	1.1	2.4	0	1.6	0	5.6	3.9	2.3
4 Axle Trucks	4	0	4	0	0	0	0	0	0	4
% 4 Axle Trucks	9.3	0	4.3	0	0	0	0	0	0	1.6
5 Axle Trucks	3	0	3	3	0	3	2	2	4	10
% 5 Axle Trucks	7	0	3.2	7.3	0	4.8	6.2	2.8	3.9	3.9
6+ Axle Trucks	0	1	1	0	0	0	1	0	1	2
% 6+ Axle Trucks	0	2	1.1	0	0	0	3.1	0	1	0.8
Buses & RV's	0	0	0	0	0	0	0	0	0	0
% Buses & RV's	0	0	0	0	0	0	0	0	0	0_
Motorcycles	0	0	0	0	0	0	0	0	0	0
% Motorcycles	0	0	0	0	0	0	0	0	0	0_
Bicycles	0	0	0	0	0	0	0	0	0	0
% Bicycles	0	0	0	0	0	0	0	0	0	0
Medium Truck	0	0	0	0	0	0	0	0	0	0
% Medium Truck	0	0	0	0	0	0	0	0	0	0
		-	•		•	- 1		-	- 1	•

	Th	neodore Stre	eet	SR-60	Westbound	Ramps	Tł	neodore Stre	eet	
		Southbound	t		Westbound	· .		Northbound	t	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis Fro	m 04:00 PM	to 05:45 PN	I - Peak 1 of	1				_		
Peak Hour for Entire Int	ersection Be	gins at 04:0	0 PM							
04:00 PM	11	7	18	3	1	4	5	13	18	40
04:15 PM	9	6	15	10	4	14	4	9	13	42
04:30 PM	10	11	21	4	3	7	7	10	17	45
04:45 PM	5	5	10	6	2	8	4	6	10	28
Total Volume	35	29	64	23	10	33	20	38	58	155
% App. Total	54.7	45.3		69.7	30.3		34.5	65.5		
PHF	.795	.659	.762	.575	.625	.589	.714	.731	.806	.861

City of Moreno Valley N/S: Theodore Street E/W: SR-60 Westbound Ramps

Weather: Clear

File Name : 02\_MRV\_Theodore\_60W PM Site Code : 09817323

Start Date : 5/31/2017 Page No : 1

Groupe Printed- Care & Trailers

			(-	roups Printe	ed- Cars &	l railers				
	Т	heodore Sti	reet	SR-60	Westbound	Ramps	Т	heodore Str	eet	
		Southboun	nd		Westbound	· k		Northboun	d	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
04:00 PM	7	7	14	2	1	3	4	9	13	30
04:15 PM	4	6	10	10	3	13	4	5	9	32
04:30 PM	9	10	19	3	3	6	7	9	16	41
04:45 PM	5	5	10	5	2	7	3	5	8	25_
Total	25	28	53	20	9	29	18	28	46	128
05:00 PM	1	7	8	5	3	8	2	8	10	26
05:15 PM	3	8	11	3	4	7	1	4	5	23
05:30 PM	2	3	5	5	0	5	5	13	18	28
05:45 PM	1	3	4	4	4	8	1	6	7	19_
Total	7	21	28	17	11	28	9	31	40	96
Grand Total	32	49	81	37	20	57	27	59	86	224
Apprch %	39.5	60.5		64.9	35.1		31.4	68.6		
Total %	14.3	21.9	36.2	16.5	8.9	25.4	12.1	26.3	38.4	

	Т	heodore Str	eet	SR-60	Westbound	d Ramps	Th	eet		
		Southboun	d		Westboun	d		Northbound	b	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 04:00 P	M to 04:45 I	PM - Peak 1 d	of 1	_			_		
Peak Hour for Entire Ir	tersection E	Begins at 04	:00 PM							
04:00 PM	7	7	14	2	1	3	4	9	13	30
04:15 PM	4	6	10	10	3	13	4	5	9	32
04:30 PM	9	10	19	3	3	6	7	9	16	41
04:45 PM	5	5	10	5	2	7	3	5	8	25_
Total Volume	25	28	53	20	9	29	18	28	46	128
% App. Total	47.2	52.8		69	31		39.1	60.9		
PHF	.694	.700	.697	.500	.750	.558	.643	.778	.719	.780

City of Moreno Valley N/S: Theodore Street E/W: SR-60 Westbound Ramps

Weather: Clear

File Name : 02\_MRV\_Theodore\_60W PM Site Code : 09817323

Groups	Printed-	Large ≥	' Axle	Vehicles
	00.00	14/ 11		

			Olou	ps i illiteu-	Large Z Ax	ie veriicies				
	Th	neodore Str	eet	SR-60	Westbound		Т Т	heodore Str	eet	
		Southbound	d		Westbound	d		Northboun	d	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
04:00 PM	2	0	2	0	0	0	0	<sup>-</sup> 1	1	3
04:15 PM	0	0	0	0	1	1	0	2	2	3
04:30 PM	0	0	0	0	0	0	0	1	1	1
04:45 PM	0	0	0	0	0	0	0	1	1	1_
Total	2	0	2	0	1	1	0	5	5	8
05:00 PM	0	0	0	0	0	0	0	1	1	1
05:15 PM	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	2	0	2	2
05:45 PM	11	0	1	0	0	0	0	0	0	1_
Total	1	0	1	0	0	0	2	1	3	4
Grand Total	3	0	3	0	1	1	2	6	8	12
Apprch %	100	0		0	100		25	75		
Total %	25	0	25	0	8.3	8.3	16.7	50	66.7	

	Т	heodore Str	eet	SR-60	Westbound	d Ramps	Th	reet		
		Southboun	d		Westboun	d		Northboun	d	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 04:00 P	M to 04:45 I	PM - Peak 1 d	of 1				_		
Peak Hour for Entire Ir	ntersection E	Begins at 04	:00 PM							
04:00 PM	2	0	2	0	0	0	0	1	1	3
04:15 PM	0	0	0	0	1	1	0	2	2	3
04:30 PM	0	0	0	0	0	0	0	1	1	1
04:45 PM	0	0	0	0	0	0	0	1	1	1_
Total Volume	2	0	2	0	1	1	0	5	5	8
% App. Total	100	0		0	100		0	100		
PHF	.250	.000	.250	.000	.250	.250	.000	.625	.625	.667

City of Moreno Valley N/S: Theodore Street E/W: SR-60 Westbound Ramps

Weather: Clear

File Name : 02\_MRV\_Theodore\_60W PM Site Code : 09817323

Start Date : 5/31/2017 Page No : 1

Groups Printed- 3 Ayle Vehicles

			G	roups Printe	ed-3 Axie V	ehicles				
	Th	eodore Str	eet	SR-60	Westbound	l Ramps	Т	heodore Str	eet	
		Southbound	b		Westbound	. t		Northboun	d	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	0	0	0	2	2	2
04:15 PM	0	0	0	0	0	0	0	1	1	1
04:30 PM	1	0	1	0	0	0	0	0	0	1
04:45 PM	0	0	0	0	0	0	0	0	0	0
 Total	1	0	1	0	0	0	0	3	3	4
05:00 PM	0	0	0	1	0	1	0	1	1	2
05:15 PM	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	1	0	1	0	1	1	2
·									·	
Grand Total	1	0	1	1	0	1	0	4	4	6
Apprch %	100	0		100	0		0	100		
Total %	16.7	0	16.7	16.7	0	16.7	0	66.7	66.7	

	T	heodore St	reet	SR-60	) Westbound	d Ramps	Th	eet		
		Southbour	nd		Westboun	d		Northboun	d	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 04:00 P	M to 04:45	PM - Peak 1 d	of 1	-			<u>-</u>		
Peak Hour for Entire In	ntersection E	Begins at 04	1:00 PM							
04:00 PM	0	0	0	0	0	0	0	2	2	2
04:15 PM	0	0	0	0	0	0	0	1	1	1
04:30 PM	1	0	1	0	0	0	0	0	0	1
04:45 PM	0	0	0	0	0	0	0	0	0	0_
Total Volume	1	0	1	0	0	0	0	3	3	4
% App. Total	100	0		0	0		0	100		
PHF	.250	.000	.250	.000	.000	.000	.000	.375	.375	.500

City of Moreno Valley N/S: Theodore Street E/W: SR-60 Westbound Ramps

Weather: Clear

File Name : 02\_MRV\_Theodore\_60W PM Site Code : 09817323

Start Date : 5/31/2017 Page No : 1

Groups Printed- A Ayla Trucks

					Froups Print						
		Th	neodore Str	eet	SR-60	Westbound	l Ramps	Т	heodore Str	eet	
			Southboun	d		Westbound	. t		Northbound	b	
9	Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
	04:00 PM	2	0	2	0	0	0	0	0	0	2
	04:15 PM	2	0	2	0	0	0	0	0	0	2
	04:30 PM	0	0	0	0	0	0	0	0	0	0
	04:45 PM	0	0	0	0	0	0	0	0	0	0_
	Total	4	0	4	0	0	0	0	0	0	4
	05:00 PM	0	0	0	0	0	0	0	0	0	0
	05:15 PM	0	0	0	0	0	0	0	0	0	0
	05:30 PM	0	0	0	0	0	0	0	0	0	0
	05:45 PM	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0
Gr	and Total	4	0	4	0	0	0	0	0	0	4
	Apprch %	100	0		0	0		0	0		
	Total %	100	0	100	0	0	0	0	0	0	

	Т	heodore Str	eet	SR-60	Westbound	d Ramps	Th	neodore Str	eet	
		Southboun	d		Westboun	d		Northbound	d	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 04:00 P	M to 04:45 I	PM - Peak 1 d	of 1	_			_		
Peak Hour for Entire Ir	tersection E	Begins at 04	:00 PM							
04:00 PM	2	0	2	0	0	0	0	0	0	2
04:15 PM	2	0	2	0	0	0	0	0	0	2
04:30 PM	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0
Total Volume	4	0	4	0	0	0	0	0	0	4
% App. Total	100	0		0	0		0	0		
PHF	.500	.000	.500	.000	.000	.000	.000	.000	.000	.500

City of Moreno Valley N/S: Theodore Street E/W: SR-60 Westbound Ramps

Weather: Clear

File Name : 02\_MRV\_Theodore\_60W PM Site Code : 09817323

Start Date : 5/31/2017 Page No : 1

Groups Printed- 5 Ayla Trucks

				roups Prin	ted- 5 Axle	I rucks				
	Th	neodore Str	eet	SR-60	Westbound	l Ramps	T	heodore Str	eet	
		Southbound	d		Westbound	. t		Northboun	d	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	0	1	0	1	1	1	2	3
04:15 PM	3	0	3	0	0	0	0	1	1	4
04:30 PM	0	0	0	1	0	1	0	0	0	1
04:45 PM	0	0	0	1	0	1	1	0	1	2
Total	3	0	3	3	0	3	2	2	4	10
05:00 PM	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
Grand Total	3	0	3	3	0	3	2	2	4	10
Apprch %	100	0		100	0		50	50		
Total %	30	0	30	30	0	30	20	20	40	

	Т	heodore Str	reet	SR-60	Westbound	d Ramps	Th	neodore Str	eet	
		Southboun	d		Westboun	d		Northbound	d	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 04:00 P	M to 04:45 I	PM - Peak 1 d	of 1	_			_		
Peak Hour for Entire Ir	ntersection E	Begins at 04	1:00 PM							
04:00 PM	0	0	0	1	0	1	1	1	2	3
04:15 PM	3	0	3	0	0	0	0	1	1	4
04:30 PM	0	0	0	1	0	1	0	0	0	1
04:45 PM	0	0	0	1	0	1	1	0	1	2
Total Volume	3	0	3	3	0	3	2	2	4	10
% App. Total	100	0		100	0		50	50		
PHF	.250	.000	.250	.750	.000	.750	.500	.500	.500	.625

City of Moreno Valley N/S: Theodore Street E/W: SR-60 Westbound Ramps

Weather: Clear

File Name : 02\_MRV\_Theodore\_60W PM Site Code : 09817323

Start Date : 5/31/2017 Page No : 1

Groups Printed- 6+ Ayla Trucks

			(-	Froups Print	<u>ed- 6+ Axle</u>	Trucks				
		Theodore St	treet	SR-60	Westbound	d Ramps	Т	heodore Str	eet	
		Southbour	nd		Westbound	d		Northboun	d	
Start Tim	e Lef	t Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
04:00 PM	4 (	0	0	0	0	0	0	0	0	0
04:15 PN	1 (	0	0	0	0	0	0	0	0	0
04:30 PM	<b>/</b>   (	) 1	1	0	0	0	0	0	0	1
04:45 PN	4 (	0	0	0	0	0	0	0	0	0_
Tota	ıl (	) 1	1	0	0	0	0	0	0	1
05:00 PN	<b>/</b>   (	0	0	0	0	0	0	0	0	0
05:15 PN	1 (	0	0	0	0	0	0	0	0	0
05:30 PM	<b>/</b>   (	0	0	0	0	0	1	0	1	1
05:45 PN	4 (	0	0	0	0	0	0	0	0	0
Tota		0	0	0	0	0	1	0	1	1
Grand Tota	ıl (	) 1	1	0	0	0	1	0	1	2
Apprch 9	6 (	100		0	0		100	0		
Total %		50	50	0	0	0	50	0	50	

	Т	heodore Str	reet	SR-60	Westbound	d Ramps	Th	neodore Str	eet	
		Southboun	ıd		Westboun	d		Northbound	b	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 04:00 P	M to 04:45	PM - Peak 1 o	of 1				_		
Peak Hour for Entire Ir	ntersection I	Begins at 04	1:00 PM							
04:00 PM	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	1	1	0	0	0	0	0	0	1
04:45 PM	0	0	0	0	0	0	0	0	0	0
Total Volume	0	1	1	0	0	0	0	0	0	1
% App. Total	0	100		0	0		0	0		
PHF	.000	.250	.250	.000	.000	.000	.000	.000	.000	.250

City of Moreno Valley N/S: Theodore Street E/W: SR-60 Westbound Ramps

Weather: Clear

File Name : 02\_MRV\_Theodore\_60W PM Site Code : 09817323

Start Date : 5/31/2017 Page No : 1

Groupe Printed- Ruses & RV/s

	The	eodore Stre		roups Print	Westbound		Th	eodore Stre	apt	
		Southbound			Westbound			Northbound		
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
05:00 PM	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0
Apprch %	0	0		0	0		0	0		
Total %										

	Т	heodore Str	eet	SR-60	Westbound	d Ramps	Tł	neodore Str	eet	
		Southboun	d		Westboun	d		Northbound	b	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 04:00 P	M to 04:45 I	PM - Peak 1 d	of 1	_			_		
Peak Hour for Entire Ir	ntersection I	Begins at 04	:00 PM							
04:00 PM	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0_
Total Volume	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0		0	0		0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

City of Moreno Valley N/S: Theodore Street E/W: SR-60 Westbound Ramps

Weather: Clear

File Name : 02\_MRV\_Theodore\_60W PM Site Code : 09817323

Start Date : 5/31/2017 Page No : 1

Groups Printed- Motorcycles

				Groups Prin	<u>ited-Motorc</u>	cycles				
	Th	eodore Str	eet	SR-60	Westbound	Ramps	T	heodore Str	eet	
	;	Southbound	b		Westbound	. t		Northbound	b	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
05:00 PM	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0
Apprch %	0	0		0	0		0	0		
Total %										
	04:00 PM 04:15 PM 04:30 PM 04:45 PM Total 05:00 PM 05:15 PM 05:30 PM 05:45 PM Total Grand Total Apprch %	Start Time	Southbound   Start Time	Theodore Street   Southbound	Theodore Street Southbound         SR-60           Start Time         Left         Thru         App. Total         Left           04:00 PM         0	Theodore Street Southbound         SR-60 Westbound Westbound           Start Time         Left         Thru         App. Total         Left         Right           04:00 PM         0         0         0         0         0         0           04:15 PM         0         0         0         0         0         0         0           04:30 PM         0         <	Theodore Street   Sunthbound   SR-60   Westbound   Ramps   Westbound	Theodore Street   Suthbound   SR-60   Westbound   Ramps   Westbound	Theodore Street Southbound         SR-60 Westbound Ramps Westbound         Theodore Str Northbound           Start Time         Left         Thru         App. Total         Left         Right         App. Total         Thru         Right           04:00 PM         0	Southbound         Westbound         Northbound           Start Time         Left         Thru         App. Total         Left         Right         App. Total         Thru         Right         App. Total           04:00 PM         0         <

	Т	heodore Str	eet	SR-60	Westbound	d Ramps	Tł	neodore Str	eet	
		Southboun	d		Westboun	d		Northbound	b	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 04:00 P	M to 04:45 I	PM - Peak 1 d	of 1	_			_		
Peak Hour for Entire Ir	ntersection I	Begins at 04	:00 PM							
04:00 PM	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0_
Total Volume	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0		0	0		0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

City of Moreno Valley N/S: Theodore Street E/W: SR-60 Westbound Ramps

Weather: Clear

File Name : 02\_MRV\_Theodore\_60W PM Site Code : 09817323

Start Date : 5/31/2017 Page No : 1

Groups Printed- Ricycles

					inted- Bicyc					
	Th	eodore Stre	eet	SR-60	Westbound	Ramps	Т	heodore Str	eet	
		Southbound	t l		Westbound	d		Northbound	d	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0
 04:45 PM	0	0	0	0	0	0	0	0	0	0_
Total	0	0	0	0	0	0	0	0	0	0
05:00 PM	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0
Apprch %	0	0		0	0		0	0		
Total %										

	Т	heodore Str	eet	SR-60	Westbound	d Ramps	Tł	neodore Str	eet	
		Southboun	d		Westboun	d		Northbound	b	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 04:00 P	M to 04:45 I	PM - Peak 1 d	of 1	_			_		
Peak Hour for Entire Ir	ntersection I	Begins at 04	:00 PM							
04:00 PM	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0_
Total Volume	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0		0	0		0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

City of Moreno Valley N/S: Theodore Street E/W: SR-60 Westbound Ramps

Weather: Clear

File Name : 02\_MRV\_Theodore\_60W PM Site Code : 09817323

				Sroups Print						
	Т	heodore St	reet	SR-60	Westbound	d Ramps	Т	heodore Str	eet	
		Southboun	ıd		Westbound	d		Northboun	d	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0_
Total	0	0	0	0	0	0	0	0	0	0
05:00 PM	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0
Apprch %	0	0		0	0		0	0		
 Total %										

	Т	heodore Str	eet	SR-60	Westbound	d Ramps	TI	heodore Str	eet	
		Southbound	d		Westboun	d		Northbound	d	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 04:00 F	M to 04:45 F	PM - Peak 1 d	of 1	_			_		
Peak Hour for Entire Ir	ntersection	Begins at 04	:00 PM							
04:00 PM	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0		0	0		0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

City of Moreno Valley N/S: Theodore Street E/W: Ironwood Avenue Weather: Clear File Name: 01\_MRV\_Theodore\_Ironwood AM Site Code: 09817323

Site Code : 09817323 Start Date : 5/31/2017

Page No : 1

Groups Printed- Cars & Trailers - Large 2 Axle Vehicles - 3 Axle Vehicles - 4 Axle Trucks - 5 Axle Trucks - 6+ Axle Trucks - Buses & RV's Motorcycles - Bicycles - Medium Truck

					cycles - Med					
	Iro	onwood Ave		Т	heodore Str		Iro	nwood Ave		
		Westbound			Northbound			Eastbound		
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
07:00 AM	1	5	6	6	1	7	0	8	8	21
07:15 AM	0	3	3	5	2	7	5	7	12	22
07:30 AM	1	6	7	11	2	13	3	6	9	29
07:45 AM	0	3	3	9	0	9	8	4	12	24
Total	2	17	19	31	5	36	16	25	41	96
08:00 AM	2	5	7	5	0	5	10	7	17	29
08:15 AM	3	4	7	7	1	8	4	5	9	24
08:30 AM	1	3	4	13	3	16	5	6	11	31
08:45 AM	2	2	4	6	2	8	4	9	13	25_
Total	8	14	22	31	6	37	23	27	50	109
Grand Total	10	31	41	62	11	73	39	52	91	205
Apprch %	24.4	75.6		84.9	15.1		42.9	57.1		
Total %	4.9	15.1	20	30.2	5.4	35.6	19	25.4	44.4	
Cars & Trailers	2	25	27	21	3	24	25	6	31	82
% Cars & Trailers	20	80.6	65.9	33.9	27.3	32.9	64.1	11.5	34.1	40
Large 2 Axle Vehicles	1	0	1	3	1	4	2	5	7	12
% Large 2 Axle Vehicles	10	0	2.4	4.8	9.1	5.5	5.1	9.6	7.7	5.9
3 Axle Vehicles	1	0	1	7	1	8	0	8	8	17
% 3 Axle Vehicles	10	0	2.4	11.3	9.1	11	0	15.4	8.8	8.3
4 Axle Trucks	0	0	0	0	0	0	0	0	0	0
% 4 Axle Trucks	0	0	0	0	0	0	0	0	0	0
5 Axle Trucks	0	0	0	16	1	17	1	19	20	37
% 5 Axle Trucks	0	0	0	25.8	9.1	23.3	2.6	36.5	22	18
6+ Axle Trucks	0	0	0	0	0	0	0	0	0	0
% 6+ Axle Trucks	0	0	0	0	0	0	0	0	0	0_
Buses & RV's	0	0	0	0	0	0	0	1	1	1
% Buses & RV's	0	0	0	0	0	0	0	1.9	1.1	0.5
Motorcycles	0	0	0	0	0	0	2	0	2	2
Motorcycles	0	0	0	0	0	0	5.1	0	2.2	1_
Bicycles	2	1	3	0	1	1	1	0	1	5
% Bicycles	20	3.2	7.3	0	9.1	1.4	2.6	0	1.1	2.4
Medium Truck	4	5	9	15	4	19	8	13	21	49
% Medium Truck	40	16.1	22	24.2	36.4	26	20.5	25	23.1	23.9

	Iro	nwood Aver	nue	Т	heodore Str	eet	Iro	nwood Ave	nue	
		Westbound			Northbound	d		Eastbound		
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis Fro	om 07:00 AM	to 08:45 AN	/I - Peak 1 of	1	_					
Peak Hour for Entire In	tersection Be	gins at 08:0	0 AM							
08:00 AM	2	5	7	5	0	5	10	7	17	29
08:15 AM	3	4	7	7	1	8	4	5	9	24
08:30 AM	1	3	4	13	3	16	5	6	11	31
08:45 AM	2	2	4	6	2	8	4	9	13	25
Total Volume	8	14	22	31	6	37	23	27	50	109
% App. Total	36.4	63.6		83.8	16.2		46	54		
PHF	.667	.700	.786	.596	.500	.578	.575	.750	.735	.879

City of Moreno Valley N/S: Theodore Street E/W: Ironwood Avenue Weather: Clear

File Name : 01\_MRV\_Theodore\_Ironwood AM Site Code : 09817323

Start Date : 5/31/2017 Page No : 1

Groups Printed- Care & Trailers

				iroups Printe						
	Ire	onwood Ave	enue	T	heodore Str	eet	Iro	onwood Ave	nue	
		Westboun	d		Northbound	b		Eastbound	d	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
07:00 AM	0	5	5	2	0	2	0	0	0	7
07:15 AM	0	2	2	1	1	2	3	2	5	9
07:30 AM	1	6	7	4	2	6	3	3	6	19
07:45 AM	0	1	1	4	0	4	4	0	4	9
Total	1	14	15	11	3	14	10	5	15	44
08:00 AM	0	4	4	1	0	1	6	0	6	11
08:15 AM	0	4	4	2	0	2	4	0	4	10
08:30 AM	1	2	3	6	0	6	5	1	6	15
08:45 AM	0	1	1	1	0	1	0	0	0	2
Total	1	11	12	10	0	10	15	1	16	38
Grand Total	2	25	27	21	3	24	25	6	31	82
Apprch %	7.4	92.6		87.5	12.5		80.6	19.4		
Total %		30.5	32.9	25.6	3.7	29.3	30.5	7.3	37.8	

	Iro	nwood Ave	nue	Т	heodore St	reet	Irc	nwood Ave	nue	
		Westbound	d		Northboun	d		Eastbound		
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 08:00 Al	M to 08:45	AM - Peak 1 c	of 1	_			-		
Peak Hour for Entire In	tersection B	Begins at 08	3:00 AM							
08:00 AM	0	4	4	1	0	1	6	0	6	11
08:15 AM	0	4	4	2	0	2	4	0	4	10
08:30 AM	1	2	3	6	0	6	5	1	6	15
08:45 AM	0	1	1	1	0	1	0	0	0	2
Total Volume	1	11	12	10	0	10	15	1	16	38
% App. Total	8.3	91.7		100	0		93.8	6.2		
PHF	.250	.688	.750	.417	.000	.417	.625	.250	.667	.633

City of Moreno Valley N/S: Theodore Street E/W: Ironwood Avenue Weather: Clear

File Name : 01\_MRV\_Theodore\_Ironwood AM Site Code : 09817323

Start Date : 5/31/2017 Page No : 1

Groups Printed- Large 2 Ayle Vehicles

			Grou	ps Printed-	Large 2 Axl	e Vehicles				
	Iro	nwood Ave	nue	T	heodore Str	eet	Iro	onwood Ave	nue	
		Westbound	l k		Northbound	d		Eastbound	l	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	1	0	1	0	0	0	1
07:15 AM	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	2	2	2
Total	0	0	0	1	0	1	0	2	2	3
08:00 AM	1	0	1	1	0	1	1	1	2	4
08:15 AM	0	0	0	1	0	1	0	1	1	2
08:30 AM	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	1	1	1	1	2	3
Total	1	0	1	2	1	3	2	3	5	9
Grand Total	1	0	1	3	1	4	2	5	7	12
Apprch %	100	0		75	25		28.6	71.4		
Total %	8.3	0	8.3	25	8.3	33.3	16.7	41.7	58.3	

	Iro	nwood Ave	nue	Т	heodore St	reet	Irc	nwood Ave	nue	
		Westbound	b		Northboun	d		Eastbound	k	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 08:00 AN	/l to 08:45	AM - Peak 1 c	f 1	_			_		
Peak Hour for Entire In	tersection B	egins at 08	:00 AM							
08:00 AM	1	0	1	1	0	1	1	1	2	4
08:15 AM	0	0	0	1	0	1	0	1	1	2
08:30 AM	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	1	1	1	1	2	3_
Total Volume	1	0	1	2	1	3	2	3	5	9
% App. Total	100	0		66.7	33.3		40	60		
PHF	.250	.000	.250	.500	.250	.750	.500	.750	.625	.563

City of Moreno Valley N/S: Theodore Street E/W: Ironwood Avenue Weather: Clear

File Name : 01\_MRV\_Theodore\_Ironwood AM Site Code : 09817323

Start Date : 5/31/2017 Page No : 1

Groups Printed- 3 Ayle Vehicles

 			G	roups Printe	ed-3 Axle V	ehicles				
	Iro	nwood Avei	nue	T	heodore Str	eet	Iro	nwood Ave	nue	
		Westbound			Northbound	d		Eastbound	l	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	1	0	1	0	1	1	2
07:15 AM	0	0	0	1	0	1	0	0	0	1
07:30 AM	0	0	0	2	0	2	0	0	0	2
07:45 AM	0	0	0	0	0	0	0	1	1	1_
Total	0	0	0	4	0	4	0	2	2	6
08:00 AM	0	0	0	0	0	0	0	1	1	1
08:15 AM	1	0	1	1	1	2	0	0	0	3
08:30 AM	0	0	0	1	0	1	0	0	0	1
08:45 AM	0	0	0	1	0	1	0	5	5	6
 Total	1	0	1	3	1	4	0	6	6	11
Grand Total	1	0	1	7	1	8	0	8	8	17
Apprch %	100	0		87.5	12.5		0	100		
Total %	5.9	0	5.9	41.2	5.9	47.1	0	47.1	47.1	

	Iro	onwood Ave	enue	T	heodore St	reet	Iro	nwood Ave	nue	
		Westbound	d		Northboun	d		Eastbound	t l	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 08:00 A	M to 08:45	AM - Peak 1 d	of 1	_			_		
Peak Hour for Entire Ir	ntersection E	Begins at 08	3:00 AM							
08:00 AM	0	0	0	0	0	0	0	1	1	1
08:15 AM	1	0	1	1	1	2	0	0	0	3
08:30 AM	0	0	0	1	0	1	0	0	0	1
08:45 AM	0	0	0	1	0	1	0	5	5	6_
Total Volume	1	0	1	3	1	4	0	6	6	11
% App. Total	100	0		75	25		0	100		
PHF	.250	.000	.250	.750	.250	.500	.000	.300	.300	.458

City of Moreno Valley N/S: Theodore Street E/W: Ironwood Avenue Weather: Clear

File Name : 01\_MRV\_Theodore\_Ironwood AM Site Code : 09817323

Start Date : 5/31/2017 Page No : 1

Groups Printed- A Ayla Trucks

	Iron	nwood Aver		iroups Printer. Tr	neodore Str		Irc	nwood Avei	nue	
		Westbound			Northbound			Eastbound		
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	0	0	0_
Total	0	0	0	0	0	0	0	0	0	0
08:00 AM	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	0_
Total	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0
Apprch %	0	0		0	0		0	0		
Total %										

	Iro	onwood Ave	nue	Т	heodore Sti	reet	Irc	nwood Ave	nue	
		Westbound	d		Northboun	d		Eastbound	d	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 08:00 A	M to 08:45	AM - Peak 1 d	of 1				-		
Peak Hour for Entire Ir	ntersection I	Begins at 08	3:00 AM							
08:00 AM	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0		0	0		0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

City of Moreno Valley N/S: Theodore Street E/W: Ironwood Avenue Weather: Clear

File Name : 01\_MRV\_Theodore\_Ironwood AM Site Code : 09817323

Start Date : 5/31/2017 Page No : 1

Groups Printed- 5 Ayla Trucks

				Froups Print	ed- 5 Axie	rucks				
	Iro	nwood Ave	nue	TI	heodore Str	eet	Iro	onwood Ave	nue	
		Westbound	d .		Northbound	t		Eastbound	d l	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	0	0	4	4	4
07:15 AM	0	0	0	1	0	1	1	5	6	7
07:30 AM	0	0	0	5	0	5	0	2	2	7
07:45 AM	0	0	0	4	0	4	0	1	1	5_
Total	0	0	0	10	0	10	1	12	13	23
08:00 AM	0	0	0	1	0	1	0	2	2	3
08:15 AM	0	0	0	1	0	1	0	2	2	3
08:30 AM	0	0	0	3	1	4	0	1	1	5
08:45 AM	0	0	0	1	0	1	0	2	2	3
Total	0	0	0	6	1	7	0	7	7	14
Grand Total	0	0	0	16	1	17	1	19	20	37
Apprch %	0	0		94.1	5.9		5	95		
Total %	0	0	0	43.2	2.7	45.9	2.7	51.4	54.1	

	Iro	nwood Ave	nua	т	heodore Sti	root	Iro	nwood Ave	nue	
							110			
		Westbound			Northboun	<u>d</u>		Eastbound		
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 08:00 AN	I to 08:45 A	AM - Peak 1 c	f 1						
Peak Hour for Entire In	itersection B	egins at 08	:00 AM							
08:00 AM	0	0	0	1	0	1	0	2	2	3
08:15 AM	0	0	0	1	0	1	0	2	2	3
08:30 AM	0	0	0	3	1	4	0	1	1	5
08:45 AM	0	0	0	1	0	1	0	2	2	3_
Total Volume	0	0	0	6	1	7	0	7	7	14
% App. Total	0	0		85.7	14.3		0	100		
PHF	.000	.000	.000	.500	.250	.438	.000	.875	.875	.700

City of Moreno Valley N/S: Theodore Street E/W: Ironwood Avenue Weather: Clear

File Name : 01\_MRV\_Theodore\_Ironwood AM Site Code : 09817323

	Irc	onwood Ave	nue	Т	heodore Str	reet	Iro	onwood Ave	nue	
		Westbound	t		Northboun	d		Eastbound		
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
08:00 AM	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0
Apprch %	0	0		0	0		0	0		
Total %										
	07:00 AM 07:15 AM 07:30 AM 07:45 AM Total  08:00 AM 08:15 AM 08:30 AM 08:45 AM Total  Grand Total Apprch %	Start Time         Left           07:00 AM         0           07:15 AM         0           07:30 AM         0           07:45 AM         0           Total         0           08:00 AM         0           08:15 AM         0           08:30 AM         0           08:45 AM         0           Total         0           Grand Total         0           Apprch %         0	Start Time   Left   Thru	Start Time	Start Time	Start Time	Westbound         Northbound           Start Time         Left         Thru         App. Total         Left         Right         App. Total           07:00 AM         0         0         0         0         0         0           07:15 AM         0         0         0         0         0         0           07:30 AM         0         0         0         0         0         0           07:45 AM         0         0         0         0         0         0           Total         0         0         0         0         0         0           08:00 AM         0         0         0         0         0         0           08:15 AM         0         0         0         0         0         0           08:30 AM         0         0         0         0         0         0           08:45 AM         0         0         0         0         0         0           Total         0         0         0         0         0         0           Grand Total         0         0         0         0         0         0	Start Time	Start Time	Start Time

	Irc	nwood Ave		Т	heodore St		Irc	nwood Ave		
		Westbound	<u></u>		Northboun	d		Eastbound	t	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 08:00 A	M to 08:45	AM - Peak 1 d	of 1	_			_		
Peak Hour for Entire Ir	ntersection E	Begins at 08	:00 AM							
08:00 AM	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	0_
Total Volume	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0		0	0		0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

City of Moreno Valley N/S: Theodore Street E/W: Ironwood Avenue Weather: Clear

File Name : 01\_MRV\_Theodore\_Ironwood AM Site Code : 09817323

			(	<u> 3roups Prin</u>	<u>ted- Buses</u>	<u>&amp; RV's</u>				
	Irc	nwood Ave	nue	T	heodore St	reet	Ire	onwood Ave	nue	
		Westbound	t		Northboun	d		Eastbound		
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	0	0	0_
Total	0	0	0	0	0	0	0	0	0	0
08:00 AM	0	0	0	0	0	0	0	1	1	1
08:15 AM	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	1	1	1
Grand Total	0	0	0	0	0	0	0	1	1	1
Apprch %	0	0		0	0		0	100		
Total %	0	0	0	0	0	0	0	100	100	

	Iro	onwood Ave	nue	T	heodore Sti	reet	Iro	nwood Ave	nue	
		Westbound	b		Northboun	d		Eastbound	t	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 08:00 A	M to 08:45	AM - Peak 1 d	of 1				_		
Peak Hour for Entire Ir	ntersection E	Begins at 08	3:00 AM							
MA 00:80	0	0	0	0	0	0	0	1	1	1
08:15 AM	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	0_
Total Volume	0	0	0	0	0	0	0	1	1	1
% App. Total	0	0		0	0		0	100		
PHF	.000	.000	.000	.000	.000	.000	.000	.250	.250	.250

City of Moreno Valley N/S: Theodore Street E/W: Ironwood Avenue Weather: Clear

File Name : 01\_MRV\_Theodore\_Ironwood AM Site Code : 09817323

				Groups Prir	nted- Motoro	cycles				
	Irc	nwood Ave	nue	T	heodore Str	eet	Iro	onwood Ave	nue	
		Westbound	t		Northboun	d		Eastbound		
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	2	0	2	2
Total	0	0	0	0	0	0	2	0	2	2
08:00 AM	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	2	0	2	2
Apprch %	0	0		0	0		100	0		
Total %	0	0	0	0	0	0	100	0	100	

	Ire	onwood Ave	nue	Т	heodore St	reet	Iro	nwood Ave	nue	
		Westbound	b		Northboun	d		Eastbound	d	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 08:00 A	M to 08:45	AM - Peak 1 d	of 1	<u>-</u>			_		
Peak Hour for Entire Ir	ntersection I	Begins at 08	:00 AM							
08:00 AM	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0		0	0		0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

City of Moreno Valley N/S: Theodore Street E/W: Ironwood Avenue Weather: Clear

File Name : 01\_MRV\_Theodore\_Ironwood AM Site Code : 09817323

Start Date : 5/31/2017 Page No : 1

Groups Printed- Ricycles

				Groups P	rinted- Bicy	cles				
	Iro	onwood Ave	nue	Т	heodore Str	eet	Iro	nwood Ave	nue	
		Westbound	d		Northboun	d		Eastbound	l	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	1	1	0	0	0	0	0	0	1
07:30 AM	0	0	0	0	0	0	0	0	0	0
 07:45 AM	0	0	0	0	0	0	0	0	0	0_
Total	0	1	1	0	0	0	0	0	0	1
08:00 AM	1	0	1	0	0	0	0	0	0	1
08:15 AM	1	0	1	0	0	0	0	0	0	1
08:30 AM	0	0	0	0	1	1	0	0	0	1
08:45 AM	0	0	0	0	0	0	1	0	1	1_
Total	2	0	2	0	1	1	1	0	1	4
Grand Total	2	1	3	0	1	1	1	0	1	5
Apprch %	66.7	33.3		0	100		100	0		
Total %	40	20	60	0	20	20	20	0	20	

	Iro	onwood Ave	nue	Т	heodore St	reet	Iro	nwood Ave	nue	
		Westbound	b		Northboun	d		Eastbound	d	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 08:00 A	M to 08:45	AM - Peak 1 d	of 1						
Peak Hour for Entire Ir	tersection E	Begins at 08	3:00 AM							
08:00 AM	1	0	1	0	0	0	0	0	0	1
08:15 AM	1	0	1	0	0	0	0	0	0	1
08:30 AM	0	0	0	0	1	1	0	0	0	1
08:45 AM	0	0	0	0	0	0	1	0	1	1_
Total Volume	2	0	2	0	1	1	1	0	1	4
% App. Total	100	0		0	100		100	0		
PHF	.500	.000	.500	.000	.250	.250	.250	.000	.250	1.00

City of Moreno Valley N/S: Theodore Street E/W: Ironwood Avenue Weather: Clear

File Name : 01\_MRV\_Theodore\_Ironwood AM Site Code : 09817323

Start Date : 5/31/2017 Page No : 1

Groups Printed- Medium Truck

				Broups Print						
	Irc	nwood Ave	enue	T	heodore Str	eet	Iro	onwood Ave	nue	
		Westbound	d		Northboun	d		Eastbound	d l	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
07:00 AM	1	0	1	2	<sup>-</sup> 1	3	0	3	3	7
07:15 AM	0	0	0	2	1	3	1	0	1	4
07:30 AM	0	0	0	0	0	0	0	1	1	1
07:45 AM	0	2	2	1	0	1	2	0	2	5
Total	1	2	3	5	2	7	3	4	7	17
08:00 AM	0	1	1	2	0	2	3	2	5	8
08:15 AM	1	0	1	2	0	2	0	2	2	5
08:30 AM	0	1	1	3	1	4	0	4	4	9
08:45 AM	2	1	3	3	1	4	2	1	3	10
Total	3	3	6	10	2	12	5	9	14	32
Grand Total	4	5	9	15	4	19	8	13	21	49
Apprch %	44.4	55.6		78.9	21.1		38.1	61.9		
Total %	8.2	10.2	18.4	30.6	8.2	38.8	16.3	26.5	42.9	

	Iro	nwood Ave	nue	Т	heodore Sti	reet	Iro	nwood Ave	enue	
		Westbound	b		Northboun	d		Eastbound	t t	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 08:00 AN	/l to 08:45	AM - Peak 1 o	of 1				_		
Peak Hour for Entire In	ntersection B	egins at 08	:00 AM							
08:00 AM	0	1	1	2	0	2	3	2	5	8
08:15 AM	1	0	1	2	0	2	0	2	2	5
08:30 AM	0	1	1	3	1	4	0	4	4	9
08:45 AM	2	1	3	3	1	4	2	1	3	10
Total Volume	3	3	6	10	2	12	5	9	14	32
% App. Total	50	50		83.3	16.7		35.7	64.3		
PHF	375	750	500	833	500	750	417	563	700	800

City of Moreno Valley N/S: Theodore Street E/W: Ironwood Avenue Weather: Clear

File Name: 01\_MRV\_Theodore\_Ironwood PM Site Code: 09817323

Start Date : 5/31/2017 Page No : 1

Groups Printed- Cars & Trailers - Large 2 Axle Vehicles - 3 Axle Vehicles - 4 Axle Trucks - 5 Axle Trucks - 6+ Axle Trucks - Buses & RV's 
Motorcycles - Bicycles - Medium Truck

Motorcycles - Bicycles - Medium Truck											
	Ironwood Avenue			Theodore Street			Ironwood Avenue				
	Westbound			Northbound			Eastbound				
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total	
04:00 PM	1	6	7	9	1	10	2	6	8	25	
04:15 PM	0	7	7	10	1	11	6	3	9	27	
04:30 PM	1	8	9	11	4	15	4	3	7	31	
04:45 PM	1	2	3	10	0	10	4	1	5	18	
Total	3	23	26	40	6	46	16	13	29	101	
05.00.514			_				•	•		4.0	
05:00 PM	1	6	7	2	1	3	6	0	6	16	
05:15 PM	0	6	6	2	1	3	4	0	4	13	
05:30 PM	1	2	3	7	0	7	6	1	7	17	
05:45 PM	0	3	3	1	0	1	3	2	5	9_	
Total	2	17	19	12	2	14	19	3	22	55	
Grand Total	5	40	45	52	8	60	35	16	51	156	
Apprch %	11.1	88.9	_	86.7	13.3		68.6	31.4			
Total %	3.2	25.6	28.8	33.3	5.1	38.5	22.4	10.3	32.7		
Cars & Trailers	2	25	27	21	3	24	25	6	31	82	
% Cars & Trailers	40	62.5	60	40.4	37.5	40	71.4	37.5	60.8	52.6	
Large 2 Axle Vehicles	0	1	1	2	0	2	0	0	0	3	
% Large 2 Axle Vehicles	0	2.5	2.2	3.8	0	3.3	0	0	0	1.9	
3 Axle Vehicles	0	0	0	5	0	5	0	2	2	7	
% 3 Axle Vehicles	0	0	0	9.6	0	8.3	0	12.5	3.9	4.5	
4 Axle Trucks	0	0	0	0	0	0	0	0	0	0	
% 4 Axle Trucks	0	0	0	0	0	0	0	0	0	0_	
5 Axle Trucks	0	0	0	4	0	4	1	2	3	7	
% 5 Axle Trucks	0	0	0	7.7	0	6.7	2.9	12.5	5.9	4.5	
6+ Axle Trucks	0	0	0	0	0	0	0	0	0	0	
% 6+ Axle Trucks	0	0	0	0	0	0	0	0	0	0	
Buses & RV's	0	0	0	0	0	0	0	0	0	0	
% Buses & RV's	0	0	0	0	0	0	0	0	0	0	
Motorcycles	0	0	0	0	0	0	0	0	0	0	
% Motorcycles	00_	0	0	0	0	0	0	0	0	0_	
Bicycles	0	0	0	0	1	1	0	0	0	1	
% Bicycles	0	0	0	0	12.5	1.7	0	0	0	0.6	
Medium Truck	3	14	17	20	4	24	9	6	15	56	
% Medium Truck	60	35	37.8	38.5	50	40	25.7	37.5	29.4	35.9	

	Ironwood Avenue			Theodore Street			Ironwood Avenue			
	Westbound			Northbound			Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	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	1	6	7	9	1	10	2	6	8	25
04:15 PM	0	7	7	10	1	11	6	3	9	27
04:30 PM	1	8	9	11	4	15	4	3	7	31
04:45 PM	1	2	3	10	0	10	4	1	5	18
Total Volume	3	23	26	40	6	46	16	13	29	101
% App. Total	11.5	88.5		87	13		55.2	44.8		
PHF	.750	.719	.722	.909	.375	.767	.667	.542	.806	.815

City of Moreno Valley N/S: Theodore Street E/W: Ironwood Avenue Weather: Clear

File Name : 01\_MRV\_Theodore\_Ironwood PM Site Code : 09817323

			G	roups Print	ed- Cars &	Trailers				
	Irc	nwood Ave	enue	Т	heodore St	reet	Iro	onwood Ave	nue	
		Westbound	d		Northboun	d		Eastbound	d l	
rt Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
:00 PM	0	5	5	2	0	2	0	0	0	7
:15 PM	0	2	2	1	1	2	3	2	5	9
:30 PM	1	6	7	4	2	6	3	3	6	19
:45 PM	0	1	1	4	0	4	4	0	4	9_
Total	1	14	15	11	3	14	10	5	15	44
:00 PM	0	4	4	1	0	1	6	0	6	11
:15 PM	0	4	4	2	0	2	4	0	4	10
:30 PM	1	2	3	6	0	6	5	1	6	15
:45 PM	0	1	1	1	0	1	0	0	0	2
Total	1	11	12	10	0	10	15	1	16	38
nd Total	2	25	27	21	3	24	25	6	31	82
prch %	7.4	92.6		87.5	12.5		80.6	19.4		
Total %	2.4	30.5	32.9	25.6	3.7	29.3	30.5	7.3	37.8	
	:00 PM :15 PM :30 PM :45 PM Total :00 PM :15 PM :30 PM :45 PM Total d Total prch %	rt Time	Westboun   rt Time   Left   Thru   1:00 PM   0   5   1:15 PM   0   2   2:30 PM   1   6   6   45 PM   0   1   14   15 PM   0   4   1:15 PM   0   4   1:15 PM   0   4   1:15 PM   0   4   1:15 PM   0   1   1   1   1   1   1   1   1   1	Ironwood Avenue   Westbound     Westbound     Westbound       Westbound       Westbound       Westbound	Ironwood Avenue   Westbound   T   Westbound	Ironwood Avenue   Westbound   Theodore Str.   Northbound   Northboun	Westbound   Northbound     Northbound   Northbou	Ironwood Avenue	Ironwood Avenue	Ironwood Avenue   Westbound   Westbound

	Irc	nwood Ave	nue	Т	heodore Sti	reet	Iro	nwood Ave	nue	
		Westbound	t		Northboun	d		Eastbound	t l	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 04:00 P	M to 04:45 I	PM - Peak 1 d	of 1	_			_		
Peak Hour for Entire Ir	ntersection E	Begins at 04	:00 PM							
04:00 PM	0	5	5	2	0	2	0	0	0	7
04:15 PM	0	2	2	1	1	2	3	2	5	9
04:30 PM	1	6	7	4	2	6	3	3	6	19
04:45 PM	0	1	1	4	0	4	4	0	4	9
Total Volume	1	14	15	11	3	14	10	5	15	44
% App. Total	6.7	93.3		78.6	21.4		66.7	33.3		
PHF	.250	.583	.536	.688	.375	.583	.625	.417	.625	.579

City of Moreno Valley N/S: Theodore Street E/W: Ironwood Avenue Weather: Clear

File Name : 01\_MRV\_Theodore\_Ironwood PM Site Code : 09817323

Start Date : 5/31/2017 Page No : 1

Groups Printed- Large 2 Ayle Vehicles

			Grou	ps Printed-	Large 2 Axl	e Vehicles				
	Irc	nwood Ave	nue	T	heodore Str	eet	Iro	onwood Ave	nue	
		Westbound	t		Northbound	d		Eastbound	l	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	0	1	0	1	0	0	0	1
04:15 PM	0	0	0	1	0	1	0	0	0	1
04:30 PM	0	1	1	0	0	0	0	0	0	1
04:45 PM	0	0	0	0	0	0	0	0	0	0_
Total	0	1	1	2	0	2	0	0	0	3
05:00 PM	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
Grand Total	0	1	1	2	0	2	0	0	0	3
Apprch %	0	100		100	0		0	0		
Total %	0	33.3	33.3	66.7	0	66.7	0	0	0	

	Iro	onwood Ave	nue	Т	heodore St	reet	Iro	nwood Ave	nue	
		Westbound	b		Northboun	d		Eastbound	d	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 04:00 P	M to 04:45	PM - Peak 1 c	of 1	_			_		
Peak Hour for Entire Ir	ntersection I	Begins at 04	:00 PM							
04:00 PM	0	0	0	1	0	1	0	0	0	1
04:15 PM	0	0	0	1	0	1	0	0	0	1
04:30 PM	0	1	1	0	0	0	0	0	0	1
04:45 PM	0	0	0	0	0	0	0	0	0	0
Total Volume	0	1	1	2	0	2	0	0	0	3
% App. Total	0	100		100	0		0	0		
PHF	.000	.250	.250	.500	.000	.500	.000	.000	.000	.750

City of Moreno Valley N/S: Theodore Street E/W: Ironwood Avenue Weather: Clear

File Name : 01\_MRV\_Theodore\_Ironwood PM Site Code : 09817323

			G	roups Print	<u>ed- 3 Axle \</u>	/ehicles				
	Irc	nwood Ave	nue	T	heodore St	reet	Ire	onwood Ave	nue	
		Westbound	b		Northboun	d		Eastbound	k	
t Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
00 PM	0	0	0	2	0	2	0	2	2	4
15 PM	0	0	0	1	0	1	0	0	0	1
30 PM	0	0	0	2	0	2	0	0	0	2
45 PM	0	0	0	0	0	0	0	0	0	0_
Total	0	0	0	5	0	5	0	2	2	7
00 PM	0	0	0	0	0	0	0	0	0	0
15 PM	0	0	0	0	0	0	0	0	0	0
30 PM	0	0	0	0	0	0	0	0	0	0
45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
d Total	0	0	0	5	0	5	0	2	2	7
orch %	0	0		100	0		0	100		
	0	0	0	71.4	0	71.4	0	28.6	28.6	
	00 PM 15 PM 30 PM 45 PM	t Time	Westbound	Ironwood Avenue   Westbound   Time   Left   Thru   App. Total   00 PM   0   0   0   0   0   0   0   0   0	Ironwood Avenue   Westbound   T   Westbound   T   Time   Left   Thru   App. Total   Left   00 PM   0   0   0   0   1   30 PM   0   0   0   0   0   0   0   0   0	Ironwood Avenue	Westbound   Northbound   Nort	Ironwood Avenue	Ironwood Avenue	Ironwood Avenue   Westbound   Westbound

	Iro	onwood Ave	nue	Т	heodore St	reet	Iro	nwood Ave	nue	
		Westbound	b		Northboun	d		Eastbound	k	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 04:00 P	M to 04:45 I	PM - Peak 1 d	of 1	_			_		
Peak Hour for Entire Ir	ntersection I	Begins at 04	:00 PM							
04:00 PM	0	0	0	2	0	2	0	2	2	4
04:15 PM	0	0	0	1	0	1	0	0	0	1
04:30 PM	0	0	0	2	0	2	0	0	0	2
04:45 PM	0_	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	5	0	5	0	2	2	7
% App. Total	0	0		100	0		0	100		
PHF	.000	.000	.000	.625	.000	.625	.000	.250	.250	.438

City of Moreno Valley N/S: Theodore Street E/W: Ironwood Avenue Weather: Clear

File Name : 01\_MRV\_Theodore\_Ironwood PM Site Code : 09817323

Start Date : 5/31/2017 Page No : 1

Groups Printed- 4 Axle Trucks

					itea- 4 Axie					
	Irc	onwood Ave	nue	Т	heodore Str	eet	Iro	nwood Ave	nue	
		Westbound	d		Northbound	d		Eastbound		
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0
 04:45 PM	0	0	0	0	0	0	0	0	0	0_
Total	0	0	0	0	0	0	0	0	0	0
05:00 PM	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0
Apprch %	0	0		0	0		0	0		
Total %										

	Iro	onwood Ave	nue	Т	heodore Sti	reet	Iro	onwood Ave	nue	
		Westbound	d		Northboun	d		Eastbound	l l	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 04:00 P	M to 04:45 I	PM - Peak 1 d	of 1				<u>-</u>	• •	
Peak Hour for Entire Ir	tersection I	Begins at 04	:00 PM							
04:00 PM	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0		0	0		0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

City of Moreno Valley N/S: Theodore Street E/W: Ironwood Avenue Weather: Clear

File Name : 01\_MRV\_Theodore\_Ironwood PM Site Code : 09817323

Start Date : 5/31/2017 Page No : 1

Printed- 5 Ayla Truck

					ted- 5 Axle					
	Iro	nwood Ave		I	heodore Str		Iro	nwood Ave		
		Westbound			Northboun			Eastbound		
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	0	0	1	0	1	1
04:15 PM	0	0	0	3	0	3	0	0	0	3
04:30 PM	0	0	0	1	0	1	0	0	0	1
04:45 PM	0	0	0	0	0	0	0	1	1	1_
Total	0	0	0	4	0	4	1	1	2	6
05:00 PM	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	1	1	1_
Total	0	0	0	0	0	0	0	1	1	1
Grand Total	0	0	0	4	0	4	1	2	3	7
Apprch %	0	0		100	0		33.3	66.7		
Total %	0	0	0	57.1	0	57.1	14.3	28.6	42.9	

	Iro	onwood Ave	nue	Т	heodore Sti	reet	Iro	nwood Ave	enue	
		Westbound	ŀ		Northboun	d		Eastbound	t	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 04:00 P	M to 04:45 F	PM - Peak 1 d	of 1				_		
Peak Hour for Entire Ir	ntersection I	Begins at 04	:00 PM							
04:00 PM	0	0	0	0	0	0	1	0	1	1
04:15 PM	0	0	0	3	0	3	0	0	0	3
04:30 PM	0	0	0	1	0	1	0	0	0	1
04:45 PM	0	0	0	0	0	0	0	1	1	1_
Total Volume	0	0	0	4	0	4	1	1	2	6
% App. Total	0	0		100	0		50	50		
PHF	.000	.000	.000	.333	.000	.333	.250	.250	.500	.500

City of Moreno Valley N/S: Theodore Street E/W: Ironwood Avenue Weather: Clear

File Name : 01\_MRV\_Theodore\_Ironwood PM Site Code : 09817323

Start Date : 5/31/2017 Page No : 1

Groups Printed- 6+ Ayla Trucks

	Iro	nwood Ave	nue	Th	eodore Str	eet	Irc	nwood Ave	nue	
		Westbound			Northbound	t		Eastbound		
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
05:00 PM	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0
Apprch %	0	0		0	0		0	0		
	_			_			_	_		
	04:00 PM 04:15 PM 04:30 PM 04:45 PM Total 05:00 PM 05:15 PM 05:30 PM 05:45 PM	Start Time	Start Time	Start Time	Start Time	Ironwood Avenue   Westbound   Theodore Str.   Northbound	Ironwood Avenue   Westbound   Theodore Street   Northbound	Start Time	Start Time	Start Time

	Ire	onwood Ave	enue	Т	heodore St	reet	Iro	nwood Ave	nue	
		Westbound	d		Northboun	d		Eastbound	k	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 04:00 P	M to 04:45 I	PM - Peak 1 d	of 1	<u>-</u>			_		
Peak Hour for Entire Ir	ntersection I	Begins at 04	1:00 PM							
04:00 PM	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0		0	0		0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

City of Moreno Valley N/S: Theodore Street E/W: Ironwood Avenue Weather: Clear

File Name : 01\_MRV\_Theodore\_Ironwood PM Site Code : 09817323

		Iroi	nwood Ave			<u>ted- Buses (</u> heodore Str		Irc	nwood Avei	nue	
			Westbound			Northbound			Eastbound		
Start 5	ime	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
04:00	PM	0	0	0	0	0	0	0	0	0	0
04:15	PM	0	0	0	0	0	0	0	0	0	0
04:30	PM	0	0	0	0	0	0	0	0	0	0
04:45	PM	0	0	0	0	0	0	0	0	0	0
-	otal	0	0	0	0	0	0	0	0	0	0
05:00	PM	0	0	0	0	0	0	0	0	0	0
05:15	PM	0	0	0	0	0	0	0	0	0	0
05:30	PM	0	0	0	0	0	0	0	0	0	0
05:45	PM	0	0	0	0	0	0	0	0	0	0_
-	otal	0	0	0	0	0	0	0	0	0	0
Grand <sup>7</sup>		0	0	0	0	0	0	0	0	0	0
Appro	:h %	0	0		0	0		0	0		
Tot	al %										

	Iro	onwood Ave	nue	Т	heodore Sti	reet	Iro	onwood Ave	nue	
		Westbound	d		Northboun	d		Eastbound	l l	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 04:00 P	M to 04:45 I	PM - Peak 1 d	of 1				<u>-</u>	• •	
Peak Hour for Entire Ir	tersection I	Begins at 04	:00 PM							
04:00 PM	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0		0	0		0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

City of Moreno Valley N/S: Theodore Street E/W: Ironwood Avenue Weather: Clear

File Name : 01\_MRV\_Theodore\_Ironwood PM Site Code : 09817323

	Iro	nwood Ave		<u>Groups Prin</u> Th	neodore Str		Iro	nwood Avei	nue	
		Westbound	i		Northbound	t		Eastbound		
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0_
Total	0	0	0	0	0	0	0	0	0	0
05:00 PM	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0_
Total	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0
Apprch %	0	0		0	0		0	0		
Total %										

	Iro	onwood Ave	nue	Т	heodore Sti	reet	Iro	onwood Ave	nue	
		Westbound	d		Northboun	d		Eastbound	l l	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 04:00 P	M to 04:45 I	PM - Peak 1 d	of 1				<u>-</u>	• •	
Peak Hour for Entire Ir	tersection I	Begins at 04	:00 PM							
04:00 PM	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0		0	0		0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

City of Moreno Valley N/S: Theodore Street E/W: Ironwood Avenue Weather: Clear

File Name : 01\_MRV\_Theodore\_Ironwood PM Site Code : 09817323

	Iro	nwood Ave	nuo		<u>rinted- Bicy</u> heodore Str		Irc	nwood Ave	0110	
	110			'			IIC			
		Westbound			Northbound			Eastbound		
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	1	1	0	0	0	1
04:45 PM	0	0	0	0	0	0	0	0	0	0_
Total	0	0	0	0	1	1	0	0	0	1
05:00 PM	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	1	1	0	0	0	1
Apprch %	0	0		0	100		0	0		
Total %	0	0	0	0	100	100	0	0	0	

	Iro	onwood Ave	nue	T	heodore Sti	reet	Iro	nwood Ave	nue	
		Westbound	b		Northboun	d		Eastbound	t	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 04:00 P	M to 04:45 I	PM - Peak 1 d	of 1				_		
Peak Hour for Entire Ir	ntersection E	Begins at 04	:00 PM							
04:00 PM	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	1	1	0	0	0	1
04:45 PM	0	0	0	0	0	0	0	0	0	0_
Total Volume	0	0	0	0	1	1	0	0	0	1
% App. Total	0	0		0	100		0	0		
PHF	.000	.000	.000	.000	.250	.250	.000	.000	.000	.250

City of Moreno Valley N/S: Theodore Street E/W: Ironwood Avenue Weather: Clear

File Name : 01\_MRV\_Theodore\_Ironwood PM Site Code : 09817323

Start Date : 5/31/2017 Page No : 1

Groups Printed- Medium Truck

					ted- Medium					
	Irc	nwood Ave		I	heodore Str		Iro	onwood Ave		
		Westbound	d		Northboun	<u>d</u>		Eastbound	t	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
04:00 PM	1	1	2	4	1	5	1	4	5	12
04:15 PM	0	5	5	4	0	4	3	1	4	13
04:30 PM	0	1	1	4	1	5	1	0	1	7
 04:45 PM	11	1	2	6	0	6	0	0	0	8
Total	2	8	10	18	2	20	5	5	10	40
05:00 PM	1	2	3	1	1	2	0	0	0	5
05:15 PM	0	2	2	0	1	1	0	0	0	3
05:30 PM	0	0	0	1	0	1	1	0	1	2
 05:45 PM	0	2	2	0	0	0	3	1	4	6_
Total	1	6	7	2	2	4	4	1	5	16
Grand Total	3	14	17	20	4	24	9	6	15	56
Apprch %	17.6	82.4		83.3	16.7		60	40		
Total %	5.4	25	30.4	35.7	7.1	42.9	16.1	10.7	26.8	

	Iro	onwood Ave	nue	Т	heodore St	reet	Iro	nwood Ave	nue	
		Westbound	b		Northboun	d		Eastbound	d	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 04:00 P	M to 04:45	PM - Peak 1 c	of 1	_			_		
Peak Hour for Entire Ir	ntersection E	Begins at 04								
04:00 PM	1	1	2	4	1	5	1	4	5	12
04:15 PM	0	5	5	4	0	4	3	1	4	13
04:30 PM	0	1	1	4	1	5	1	0	1	7
04:45 PM	1	1	2	6	0	6	0	0	0	8
Total Volume	2	8	10	18	2	20	5	5	10	40
% App. Total	20	80		90	10		50	50		
PHF	.500	.400	.500	.750	.500	.833	.417	.313	.500	.769

#### **INTERSECTION #5 AM**

Start Date: 1/30/2018

Comment 1: City of Moreno Valley Comment 2: N/S: Redlands Boulevard Comment 3: E/W: Eucalyptus Avenue Comment 4: Weather: Clear

Cars	R		Bouleva bound	rd	E		ıs Avenu bound	ie	R	edlands North	Bouleva bound	rd	E		ıs Avenu oound	е
Start Time	Left	Thru	Right	Peds	Left	Left Thru Right Peds				Thru	Right	Peds	Left	Thru	Right	Peds
07:00 AM	0	59	6	0	1	0	2	0	9	132	0	0	0	0	0	0
07:15 AM	0	66	6	0	0	0	4	0	3	140	0	0	3	0	2	0
07:30 AM	0	91	8	0	1	0	1	0	2	100	0	0	0	0	0	0
07:45 AM	0	92	7	0	1	0	2	0	5	101	0	0	2	0	0	0
08:00 AM	1	80	6	0	0	0	2	0	4	83	0	0	6	0	1	0
08:15 AM	3	64	1	0	0	1	1	0	1	94	3	0	4	0	2	0
08:30 AM	1	61	2	0	1	0	20	0	2	78	0	0	2	0	4	0
08:45 AM	0	38	3	0	1	0	31	0	0	59	0	0	6	0	0	0

2-Axle	R		Bouleva	rd	Е		ıs Avenu	ie	R	edlands		rd	Е	,,	ıs Avenu	е
Trucks		South	bound			West	bound			North	bound			Easth	oound	
Start Time	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds
07:00 AM	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0
07:15 AM	0	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0
07:45 AM	0	1	0	0	0	0	0	0	0	3	0	0	0	0	0	0
08:00 AM	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
08:30 AM	0	1	0	0	0	0	1	0	0	1	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0

3-Axle Trucks	R		Bouleva bound	rd	E		ıs Avenu bound	е	R	edlands North	Bouleva bound	rd	E		us Avenu cound	е
Start Time	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds
07:00 AM	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0
07:15 AM	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0
08:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
08:45 AM	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0

4+ Axle	R		Bouleva	rd	E		ıs Avenu	е	R		Bouleva	rd	E	,,	ıs Avenu	е
Trucks		South	bound			West	bound			North	bound			East	ound	
Start Time	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds
07:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
07:15 AM	0	0	2	0	0	0	1	0	0	0	0	0	2	0	0	0
07:30 AM	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0
07:45 AM	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
08:00 AM	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0
08:15 AM	0	0	1	0	0	0	3	0	0	2	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
08:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0

#### **INTERSECTION #5 PM**

Start Date: 1/30/2018

Comment 1: City of Moreno Valley Comment 2: N/S: Redlands Boulevard Comment 3: E/W: Eucalyptus Avenue Comment 4: Weather: Clear

Cars	R		Bouleva bound	rd	E		ıs Avenu bound	е	R	edlands Northl	Bouleva bound	rd	E		ıs Avenu oound	е
Start Time	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds
04:00 PM	0	114	0	0	0	0	4	0	0	84	0	0	6	0	3	0
04:15 PM	1	99	4	0	0	0	1	0	0	92	0	0	13	0	5	0
04:30 PM	0	125	0	0	0	0	11	0	0	83	0	0	3	1	1	0
04:45 PM	1	134	1	0	0	0	4	0	0	96	1	0	8	0	2	0
05:00 PM	0	118	0	0	2	0	9	0	0	94	0	0	2	0	5	0
05:15 PM	0	119	3	0	0	0	4	0	0	103	0	0	7	0	0	0
05:30 PM	0	136	2	0	0	0	10	0	0	91	0	0	5	0	0	0
05:45 PM	0	116	0	0	0	0	9	0	1	72	0	0	3	0	1	0

2-Axle	R		Bouleva	rd	E		ıs Avenu	е	R	edlands		rd	E		ıs Avenu	е
Trucks		South	bound			West	bound			North	bound			Easth	ound	
Start Time	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds
04:00 PM	0	3	0	0	0	0	0	0	0	0	0	0	1	0	0	0
04:15 PM	0	3	0	0	0	0	0	0	0	2	0	0	0	0	0	0
04:30 PM	0	2	0	0	0	0	1	0	0	2	0	0	0	0	0	0
04:45 PM	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0
05:00 PM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	3	0	0	0	0	1	0	0	0	0	0	0	0	0	0
05:30 PM	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0
05:45 PM	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0

3-Axle Trucks	R		Bouleva bound	rd	E		ıs Avenu bound	е	R	edlands North	Bouleva bound	rd	E		ıs Avenu oound	е
Start Time	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds
04:00 PM	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	1	0	0	0	0	0	1	0	0	0
04:30 PM	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	1	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
05:15 PM	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
05:45 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0

4+ Axle	R		Bouleva	rd	E		ıs Avenu	е	R		Bouleva	rd	Е		ıs Avenu	е
Trucks		South	bound			West	bound			North	bound			Easth	ound	
Start Time	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds
04:00 PM	1	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
04:30 PM	0	0	3	0	0	0	1	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0
05:00 PM	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0

#### **INTERSECTION #6 AM**

Start Date: 1/30/2018

Comment 1: City of Moreno Valley Comment 2: N/S: Redlands Boulevard Comment 3: E/W: SR-60 Eastbound Ramps

Cars	R		Bouleva bound	rd			d End bound		R	edlands North	Bouleva bound	rd	SR-6		ound Ra	mps
Start Time	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds
07:00 AM	0	48	4	0	0	0	0	0	10	140	0	0	50	0	11	0
07:15 AM	0	63	10	0	0	0	0	0	16	105	0	0	39	0	10	0
07:30 AM	0	79	4	0	0	0	0	0	14	95	0	0	35	0	25	0
07:45 AM	0	85	7	0	0	0	0	0	17	82	0	0	49	0	17	0
08:00 AM	0	70	7	0	0	0	0	0	15	77	0	0	64	0	16	0
08:15 AM	0	46	0	0	0	0	0	0	10	83	0	0	72	0	21	0
08:30 AM	0	42	8	0	0	0	0	0	9	106	0	0	61	0	12	0
08:45 AM	0	28	4	0	0	0	0	0	10	78	0	0	72	0	16	0

2-Axle	R		Bouleva	rd			d End		R	edlands		rd	SR-6		ound Ra	mps
Trucks		South	bound			West	bound			North	bound			Easth	oound	
Start Time	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds
07:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
07:15 AM	0	2	0	0	0	0	0	0	0	2	0	0	2	0	0	0
07:30 AM	0	0	1	0	0	0	0	0	0	3	0	0	2	0	2	0
07:45 AM	0	2	0	0	0	0	0	0	0	5	0	0	4	0	0	0
08:00 AM	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	2	0	0	1	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	3	0	0	2	0	1	0
08:45 AM	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0

3-Axle Trucks	R		Bouleva bound	rd			d End bound		R	edlands North	Bouleva bound	rd	SR-6		oound Ra	mps
Start Time	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds
07:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
07:15 AM	0	0	0	0	0	0	0	0	1	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
07:45 AM	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0
08:00 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0
08:30 AM	0	0 0 0 0				0	0	0	0	1	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0

4+ Axle	R	edlands	Bouleva	rd		Dead	d End		R	edlands	Bouleva	rd	SR-6	60 Eastb	ound Ra	imps
Trucks		South	bound			West	bound			North	bound			Easth	oound	
Start Time	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds
07:00 AM	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	0	0	0	3	0	0	1	0	2	0
07:30 AM	0	0	0	0	0	0	0	0	0	2	0	0	3	0	1	0
07:45 AM	0	0	1	0	0	0	0	0	0	1	0	0	2	0	0	0
08:00 AM	0	0	1	0	0	0	0	0	1	2	0	0	2	0	2	0
08:15 AM	0	0	0	0	0	0	0	0	1	2	0	0	1	0	0	0
08:30 AM	0 0 0 0 0 0			0	0	0	0	0	0	1	0	0	1	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0

#### **INTERSECTION #6 PM**

Start Date: 1/30/2018

Comment 1: City of Moreno Valley Comment 2: N/S: Redlands Boulevard Comment 3: E/W: SR-60 Eastbound Ramps

Cars	R	edlands South	Bouleva bound	rd			d End bound		R		Bouleva bound	rd	SR-6		ound Ra	mps
Start Time	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds
04:00 PM	0	85	8	0	0	0	0	0	10	84	0	0	95	0	26	0
04:15 PM	0	75	12	0	0	0	0	0	14	92	0	0	98	0	35	0
04:30 PM	0	93	9	0	0	0	0	0	10	79	0	0	102	0	31	0
04:45 PM	0	93	13	0	0	0	0	0	20	90	0	0	103	0	33	0
05:00 PM	0	97	9	0	0	0	0	0	14	87	0	0	110	0	33	0
05:15 PM	0	107	6	0	0	0	0	0	14	92	0	0	104	0	26	0
05:30 PM	0	103	13	0	0	0	0	0	5	104	0	0	99	0	24	0
05:45 PM	0	87	10	0	0	0	0	0	10	70	0	0	109	0	25	0

2-Axle Trucks	R		Bouleva bound	rd			d End bound		R	edlands	Bouleva	rd	SR-6		ound Ra	mps
Start Time	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds
04:00 PM	0	5	1	0	0	0	0	0	1	3	0	0	1	0	2	0
04:15 PM	0	0	0	0	0	0	0	0	0	1	0	0	3	0	0	0
04:30 PM	0	1	0	0	0	0	0	0	0	3	0	0	1	0	2	0
04:45 PM	0	0	2	0	0	0	0	0	1	2	0	0	2	0	2	0
05:00 PM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0
05:30 PM	0	2	1	0	0	0	0	0	0	2	0	0	1	0	0	0
05:45 PM	0	1	0	0	0	0	0	0	0	1	0	0	2	0	2	0

3-Axle Trucks	R		Bouleva bound	rd			d End bound		R	edlands North	Bouleva bound	rd	SR-6		oound Ra	mps
Start Time	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds
04:00 PM	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	2	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	1	0	0	2	0	0	0
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
05:15 PM	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
05:45 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0

4+ Axle	R	edlands	Bouleva	rd		Dead	d End		R	edlands	Bouleva	rd	SR-6	60 Eastb	ound Ra	imps
Trucks		South	bound			West	bound			North	bound			Easth	oound	
Start Time	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds
04:00 PM	0	1	0	0	0	0	0	0	0	1	0	0	0	0	2	0
04:15 PM	0	0	0	0	0	0	0	0	0	2	0	0	2	0	1	0
04:30 PM	0	1	1	0	0	0	0	0	0	1	0	0	0	0	1	0
04:45 PM	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0
05:00 PM	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	2	0	0	1	0	0	0
05:30 PM	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

#### INTERSECTION #7 AM

Start Date: 1/30/2018

Comment 1: City of Moreno Valley Comment 2: N/S: Redlands Boulevard

Comment 3: E/W: Spruce Avenue/SR-60 Westbound Ramps

Cars	R		Bouleva bound	rd	SR-6		oound Ra bound	amps	R	edlands North	Bouleva bound	rd			Avenue oound	
Start Time	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds
07:00 AM	61	42	0	0	5	0	10	0	1	156	26	0	0	0	1	0
07:15 AM	72	64	1	0	11	0	5	0	1	123	27	0	0	3	0	0
07:30 AM	73	80	0	0	10	0	9	0	2	105	26	0	0	0	2	0
07:45 AM	76	72	1	0	9	0	12	0	7	101	14	0	1	1	1	0
08:00 AM	61	55	0	0	11	0	5	0	4	123	20	0	1	0	3	0
08:15 AM	53	46	0	0	8	0	4	0	0	137	17	0	0	2	1	0
08:30 AM	53				7	0	9	0	3	122	44	0	1	0	0	0
08:45 AM	38	26	3	0	3	0	5	0	0	108	39	0	3	0	0	0

2-Axle Trucks	R		Bouleva bound	rd	SR-6		oound Ra bound	amps	R	edlands North	Bouleva bound	rd			Avenue oound	
Start Time	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds
07:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	2	0	0	0	0	0	0	0	2	2	0	0	0	0	0
07:30 AM	2	1	0	0	0	0	0	0	0	2	2	0	0	0	0	0
07:45 AM	0	0	1	0	0	0	0	0	0	5	0	0	1	0	0	0
08:00 AM	0	0	0	0	1	0	0	0	0	2	0	0	0	0	1	0
08:15 AM	1	0	1	0	0	0	0	0	0	0	1	0	2	0	0	0
08:30 AM	0	0 0 0 0			0	0	0	0	0	1	1	0	0	0	0	0
08:45 AM	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0

3-Axle Trucks	R		Bouleva bound	rd	SR-6		oound Ra bound	amps	R	edlands North	Bouleva bound	rd			Avenue	
Start Time	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds
07:00 AM	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	1	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
08:00 AM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
08:30 AM	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0

4+ Axle	R		Bouleva	rd	SR-6		ound Ra	amps	R	edlands		rd			Avenue	
Trucks		South	bound			West	bound			North	bound			Easth	ound	
Start Time	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds
07:00 AM	0	1	0	0	0	0	1	0	0	0	1	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	0	0	0	1	3	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0
07:45 AM	1	1	0	0	0	0	0	0	0	3	1	0	0	0	0	0
08:00 AM	0	0	0	0	0	0	0	0	0	3	1	0	0	0	0	0
08:15 AM	1	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0
08:30 AM	1 0 0 0 2 0 0 0				0	0	0	0	0	1	1	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0

#### INTERSECTION #7 PM

Start Date: 1/30/2018

Comment 1: City of Moreno Valley Comment 2: N/S: Redlands Boulevard

Comment 3: E/W: Spruce Avenue/SR-60 Westbound Ramps

Cars	R		Bouleva bound	rd	SR-6		oound Ra bound	amps	R		Bouleva bound	rd			Avenue oound	
Start Time	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds
04:00 PM	71	82	0	0	12	0	9	0	1	153	27	0	0	2	2	0
04:15 PM	73	80	0	0	8	0	7	0	4	158	29	0	1	2	2	0
04:30 PM	74	92	1	0	5	0	3	0	3	140	24	0	1	3	1	0
04:45 PM	66	94	1	0	15	0	4	0	0	176	24	0	0	2	0	0
05:00 PM	69	93	0	0	7	0	9	0	4	165	29	0	0	3	1	0
05:15 PM	72	104	0	0	13	0	4	0	0	175	37	0	0	2	2	0
05:30 PM	98				13	0	6	0	1	166	25	0	1	1	2	0
05:45 PM	72	93	0	0	5	0	7	0	2	158	25	0	0	0	0	0

2-Axle	R	edlands	Bouleva	rd	SR-6	60 Westl	oound Ra	amps	R	edlands	Bouleva	rd		Spruce	Avenue	
Trucks		South	bound			West	bound			North	bound			Easth	oound	
Start Time	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds
04:00 PM	0	4	0	0	0	1	0	0	0	1	1	0	0	0	0	0
04:15 PM	1	0	0	0	0	0	1	0	1	0	1	0	0	0	0	0
04:30 PM	1	1	1	0	0	0	0	0	0	1	1	0	0	0	0	0
04:45 PM	0	2	0	0	0	0	0	0	0	1	0	0	0	1	0	0
05:00 PM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	2	0	0	0	0	1	0	0	0	1	0	0	0	0	0
05:30 PM	1	1 2 0 0			0	0	0	0	0	1	2	0	0	0	0	0
05:45 PM	3	1	0	0	0	0	0	0	1	1	0	0	0	1	0	0

3-Axle Trucks	R		Bouleva bound	rd	SR-6		oound Ra	amps	R	edlands North	Bouleva bound	rd			Avenue	
Start Time	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds
04:00 PM	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	1	0	0	0	2	0	0	0	0	0
04:30 PM	1	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	2	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
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30 PM	1	0 0 0 0 0 1 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	1	0	0	0	0	0

4+ Axle	R		Bouleva	rd	SR-6		ound Ra	amps	R		Bouleva	rd			Avenue	
Trucks		South	bound			West	bound			North	bound			Easth	oound	
Start Time	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds
04:00 PM	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0
04:15 PM	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0
04:30 PM	1	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0
04:45 PM	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
05:00 PM	2	0	0	0	0	0	0	0	0	0	2	0	0	0	1	0
05:15 PM	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0
05:30 PM	0 0 0 0				1	0	0	0	0	1	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

#### **INTERSECTION #8 AM**

Start Date: 1/30/2018

Comment 1: City of Moreno Valley Comment 2: N/S: Redlands Boulevard Comment 3: E/W: Ironwood Avenue Comment 4: Weather: Clear

Cars	R		Bouleva bound	rd		Ironwood	d Avenue bound	)	R	edlands North	Bouleva bound	rd			d Avenue bound	<del>)</del>
Start Time	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds
07:00 AM	0	102	24	0	0	1	1	0	2	168	1	0	33	0	0	0
07:15 AM	0	139	33	0	1	1	0	0	7	129	2	0	21	1	5	0
07:30 AM	1	143	26	0	0	4	0	0	9	98	0	0	25	2	6	0
07:45 AM	0	139	25	0	2	2	1	0	11	106	0	0	20	1	11	0
08:00 AM	0	108	12	0	2	1	0	0	4	121	2	0	37	2	8	0
08:15 AM	0	88	11	0	1	0	2	0	2	131	0	0	23	1	1	0
08:30 AM	1	92	19	0	0	2	0	0	0	135	3	0	11	0	5	0
08:45 AM	0	54	21	0	0	1	5	0	0	134	4	0	0	0	24	0

2-Axle Trucks	R		Bouleva bound	rd		Ironwood	d Avenue bound	)	R	edlands Northl	Bouleva bound	rd			d Avenue oound	•
Start Time	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds
07:00 AM	0	0	0	0	0	0	0	0	1	0	0	0	3	0	0	0
07:15 AM	0	2	0	0	0	0	0	0	1	1	0	0	0	1	0	0
07:30 AM	0	3	2	0	0	2	1	0	0	2	0	0	0	0	1	0
07:45 AM	0	1	0	0	0	0	0	0	0	4	0	0	0	1	1	0
08:00 AM	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	1	2	0	0	0	0	1	0
08:30 AM	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0
08:45 AM	0	2	0	0	0	0	0	0	0	4	0	0	0	0	0	0

3-Axle Trucks	R		Bouleva bound	rd			d Avenue bound	)	R	edlands North	Bouleva bound	rd			d Avenue bound	)
Start Time	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds
07:00 AM	0	0	0	1	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
07:30 AM	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
08:00 AM	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
08:30 AM	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

4+ Axle	R		Bouleva	rd			d Avenue	;	R	edlands		rd			d Avenue	)
Trucks		South	bound			West	bound			North	bound			East	ound	
Start Time	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds
07:00 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0
07:15 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
07:45 AM	0	1	0	0	0	0	0	0	0	2	1	0	0	0	0	0
08:00 AM	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0
08:15 AM	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0
08:30 AM	0	0 1 0 0				0	0	0	0	1	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0

#### **INTERSECTION #8 PM**

Start Date: 1/30/2018

Comment 1: City of Moreno Valley Comment 2: N/S: Redlands Boulevard Comment 3: E/W: Ironwood Avenue Comment 4: Weather: Clear

Cars	R		Bouleva bound	rd	Ironwood Avenue Westbound				R	edlands North	Bouleva bound	rd	Ironwood Avenue Eastbound			
Start Time	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds
04:00 PM	3	146	39	0	1	8	1	0	4	161	0	0	14	5	6	0
04:15 PM	2	152	44	0	0	9	1	0	5	149	1	0	26	2	3	0
04:30 PM	0	163	53	0	0	3	1	0	5	153	2	0	20	3	5	0
04:45 PM	1	160	41	0	1	1	3	0	1	171	0	0	26	4	3	0
05:00 PM	0	162	47	0	0	4	1	0	3	174	0	0	28	4	3	0
05:15 PM	2	181	39	0	0	3	1	0	3	170	4	0	21	6	5	0
05:30 PM	2	169	46	0	2	3	1	0	3	172	1	0	39	2	9	0
05:45 PM	0	154	47	0	0	2	0	0	5	168	0	0	24	2	6	0

2-Axle	R		Bouleva	rd	Ironwood Avenue				Redlands Boulevard				Ironwood Avenue			
Trucks		South	bound			West	bound			North	bound			Eastb	oound	
Start Time	Left	Thru	Right	Peds	Left	Left Thru Right Peds			Left	Thru	Right	Peds	Left	Thru	Right	Peds
04:00 PM	0	5	0	0	0	0	0	0	0	1	0	0	0	0	0	0
04:15 PM	0	1	2	0	0	0	0	0	0	2	0	0	0	0	0	0
04:30 PM	0	1	1	0	0	0	0	0	0	3	0	0	0	1	2	0
04:45 PM	0	2	1	0	0	0	0	0	0	2	0	0	0	0	0	0
05:00 PM	0	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0
05:15 PM	0	3	0	0	0	0	0	0	0	1	0	0	1	0	0	0
05:30 PM	0	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0
05:45 PM	0	5	0	0	0	1	0	0	0	1	0	0	0	0	0	0

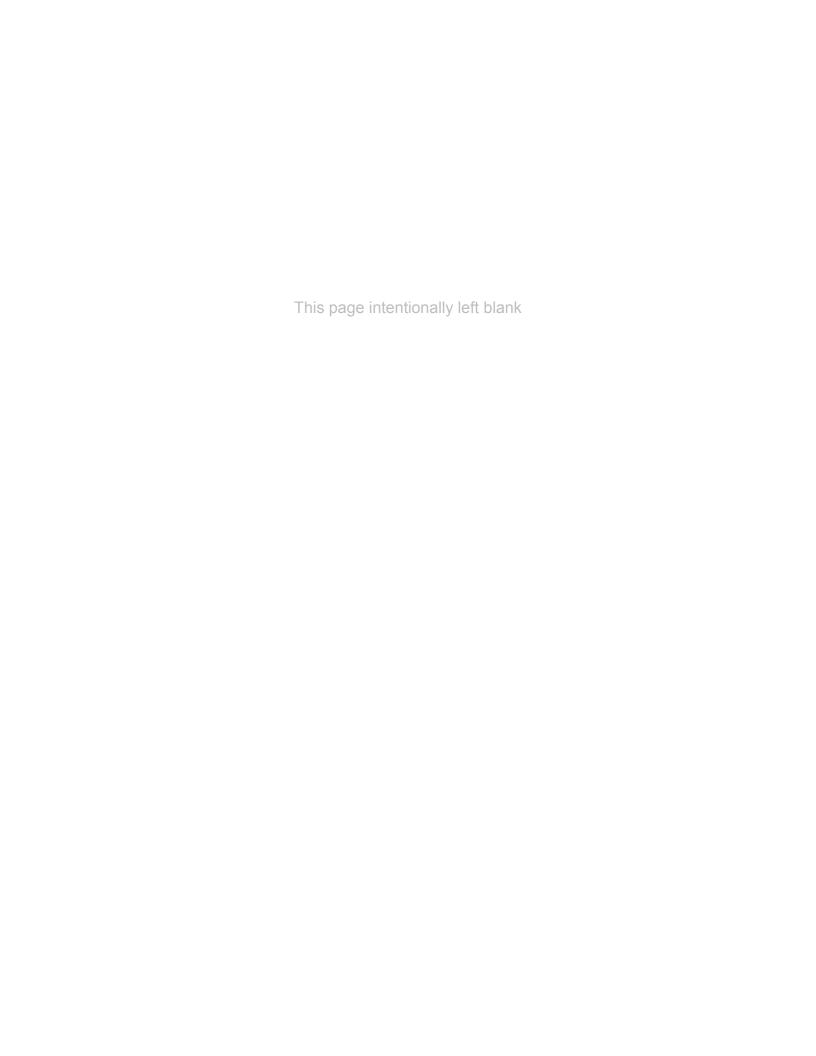
3-Axle Trucks	R		Bouleva bound	rd	Ironwood Avenue Westbound				R	edlands Northl	Bouleva bound	rd	Ironwood Avenue Eastbound			
Start Time	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds
04:00 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
04:30 PM	0	1	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
05:00 PM	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
05:30 PM	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

4+ Axle	Redlands Boulevard Southbound				Ironwood Avenue Westbound				R		Bouleva	rd	Ironwood Avenue			
Trucks		South	bound			West	bound			North	bound			East	oound	
Start Time	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds
04:00 PM	1	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	1	0	0	0	0	0	0
04:30 PM	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0
04:45 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
05:00 PM	0	2	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	1	0	0	0	0	0	0
05:30 PM	0	1	0	0	0	0	0	0	0	1	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

# SR-60/WORLD LOGISTICS CENTER PARKWAY INTERCHANGE CLOSURE STUDY

# **Appendix B**

Intersection LOS Worksheets for Base Conditions



	•	•	4	<b>†</b>	ļ	4
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	*	7	ሻ	<b>†</b>	<b>†</b>	7
Traffic Volume (veh/h)	11	5	21	79	425	69
Future Volume (Veh/h)	11	5	21	79	425	69
Sign Control	Stop			Free	Free	
Grade	0%			0%	0%	
Peak Hour Factor	0.72	0.72	0.72	0.72	0.72	0.72
Hourly flow rate (vph)	15	7	29	110	590	96
Pedestrians				5	5	
Lane Width (ft)				12.0	12.0	
Walking Speed (ft/s)				4.0	4.0	
Percent Blockage				0	0	
Right turn flare (veh)						
Median type				None	None	
Median storage veh)						
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	763	595	686			
vC1, stage 1 conf vol	, 00	0.70				
vC2, stage 2 conf vol						
vCu, unblocked vol	763	595	686			
tC, single (s)	6.4	6.2	4.1			
tC, 2 stage (s)	<u> </u>	V.2				
tF (s)	3.5	3.3	2.2			
p0 queue free %	96	99	97			
cM capacity (veh/h)	362	506	917			
				ND 0	CD 1	CD 1
Direction, Lane # Volume Total	EB 1	EB 2	NB 1	NB 2	SB 1	SB 2
	15 15	7	29	110	590	96
Volume Left		0	29	0	0	0
Volume Right	0	7	0	1700	1700	96
CSH	362	506	917	1700	1700	1700
Volume to Capacity	0.04	0.01	0.03	0.06	0.35	0.06
Queue Length 95th (ft)	3	10.0	2	0	0	0
Control Delay (s)	15.4	12.2	9.1	0.0	0.0	0.0
Lane LOS	C	В	A		0.0	
Approach Delay (s)	14.4		1.9		0.0	
Approach LOS	В					
Intersection Summary						
Average Delay			0.7			
Intersection Capacity Utiliz	ation		32.4%	IC	U Level o	of Service
Analysis Period (min)			15			

	٦	•	4	<b>†</b>	ļ	✓
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	ሻ	7	ሻ	<b>†</b>	f.	
Traffic Volume (veh/h)	63	379	70	21	114	6
Future Volume (Veh/h)	63	379	70	21	114	6
Sign Control	Stop			Free	Free	
Grade	0%			0%	0%	
Peak Hour Factor	0.84	0.84	0.84	0.84	0.84	0.84
Hourly flow rate (vph)	75	451	83	25	136	7
Pedestrians				5	5	
Lane Width (ft)				12.0	12.0	
Walking Speed (ft/s)				4.0	4.0	
Percent Blockage				0	0	
Right turn flare (veh)		10		-	-	
Median type				None	None	
Median storage veh)						
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	336	144	143			
vC1, stage 1 conf vol	000		1 10			
vC2, stage 2 conf vol						
vCu, unblocked vol	336	144	143			
tC, single (s)	6.4	6.2	4.1			
tC, 2 stage (s)	<u> </u>	0.2				
tF (s)	3.5	3.3	2.2			
p0 queue free %	88	50	94			
cM capacity (veh/h)	623	904	1452			
				00.4		
Direction, Lane #	EB 1	NB 1	NB 2	SB 1		
Volume Total	526	83	25	143		
Volume Left	75	83	0	0		
Volume Right	451	0	0	7		
cSH	1055	1452	1700	1700		
Volume to Capacity	0.50	0.06	0.01	0.08		
Queue Length 95th (ft)	72	5	0	0		
Control Delay (s)	12.7	7.6	0.0	0.0		
Lane LOS	В	A				
Approach Delay (s)	12.7	5.9		0.0		
Approach LOS	В					
Intersection Summary						
Average Delay			9.4			
Intersection Capacity Utiliz	zation		36.5%	IC	CU Level o	f Service
Analysis Period (min)			15			

	•	•	<b>†</b>	<i>&gt;</i>	<b>&gt;</b>	ļ
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥		1>			र्स
Traffic Volume (veh/h)	91	30	73	11	46	29
Future Volume (Veh/h)	91	30	73	11	46	29
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.88	0.88	0.88	0.88	0.88	0.88
Hourly flow rate (vph)	103	34	83	13	52	33
Pedestrians			5			5
Lane Width (ft)			12.0			12.0
Walking Speed (ft/s)			4.0			4.0
Percent Blockage			0			0
Right turn flare (veh)						
Median type			None			None
Median storage veh)						
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	232	94			96	
vC1, stage 1 conf vol					, ,	
vC2, stage 2 conf vol						
vCu, unblocked vol	232	94			96	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)	<u> </u>	0.2				
tF (s)	3.5	3.3			2.2	
p0 queue free %	86	96			97	
cM capacity (veh/h)	732	964			1510	
			CD 1			
Direction, Lane #	WB 1	NB 1	SB 1			
Volume Total	137	96	85 52			
Volume Left	103	12	52			
Volume Right	34	13	1510			
cSH	778	1700	1510			
Volume to Capacity	0.18	0.06	0.03			
Queue Length 95th (ft)	16	0	3			
Control Delay (s)	10.6	0.0	4.7			
Lane LOS	В	0.0	A			
Approach Delay (s)	10.6	0.0	4.7			
Approach LOS	В					
Intersection Summary						
Average Delay			5.8			
Intersection Capacity Utiliza	ation		24.3%	IC	U Level	of Service
Analysis Period (min)			15			

	•	•	<b>†</b>	<b>/</b>	<b>&gt;</b>	ļ
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥		<b>†</b>	7	7	<b>†</b>
Traffic Volume (veh/h)	4	19	63	7	23	59
Future Volume (Veh/h)	4	19	63	7	23	59
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.88	0.88	0.88	0.88	0.88	0.88
Hourly flow rate (vph)	5	22	72	8	26	67
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type			None			None
Median storage veh)						
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	191	72			80	
vC1, stage 1 conf vol	.,,					
vC2, stage 2 conf vol						
vCu, unblocked vol	191	72			80	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)	<u> </u>	0.2				
tF (s)	3.5	3.3			2.2	
p0 queue free %	99	98			98	
cM capacity (veh/h)	789	996			1531	
			ND 0	CD 1		
Direction, Lane #	WB 1	NB 1	NB 2	SB 1	SB 2	
Volume Total	27	72	8	26	67	
Volume Left	5	0	0	26	0	
Volume Right	22	0	8	0	0	
cSH	950	1700	1700	1531	1700	
Volume to Capacity	0.03	0.04	0.00	0.02	0.04	
Queue Length 95th (ft)	2	0	0	1	0	
Control Delay (s)	8.9	0.0	0.0	7.4	0.0	
Lane LOS	A			A		
Approach Delay (s)	8.9	0.0		2.1		
Approach LOS	А					
Intersection Summary						
Average Delay			2.2			
Intersection Capacity Utiliza	ation		17.9%	IC	U Level	of Service
Analysis Period (min)			15			

	٠	<b>→</b>	•	•	<b>←</b>	•	•	<b>†</b>	<i>&gt;</i>	<b>&gt;</b>	ļ	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	<b>∱</b> β		7	<b>∱</b> }		ň	<b>∱</b> }		Ţ	<b>∱</b> }	
Traffic Volume (vph)	26	0	3	4	0	20	25	519	0	0	347	46
Future Volume (vph)	26	0	3	4	0	20	25	519	0	0	347	46
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0		4.0	4.0		4.0	4.0			4.0	
Lane Util. Factor	1.00	0.95		1.00	0.95		1.00	0.95			0.95	
Frt	1.00	0.85		1.00	0.85		1.00	1.00			0.98	
Flt Protected	0.95	1.00		0.95	1.00		0.95	1.00			1.00	
Satd. Flow (prot)	1805	3068		1805	3068		1805	3610			3547	
Flt Permitted	0.95	1.00		0.95	1.00		0.95	1.00			1.00	
Satd. Flow (perm)	1805	3068		1805	3068		1805	3610			3547	
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	28	0	3	4	0	22	27	564	0	0	377	50
RTOR Reduction (vph)	0	3	0	0	22	0	0	0	0	0	14	0
Lane Group Flow (vph)	28	0	0	4	0	0	27	564	0	0	413	0
Turn Type	Prot	NA		Prot	NA		Prot	NA		Prot	NA	
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases												
Actuated Green, G (s)	0.5	0.5		0.5	0.5		0.5	13.4			8.9	
Effective Green, g (s)	0.5	0.5		0.5	0.5		0.5	13.4			8.9	
Actuated g/C Ratio	0.02	0.02		0.02	0.02		0.02	0.51			0.34	
Clearance Time (s)	4.0	4.0		4.0	4.0		4.0	4.0			4.0	
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0			3.0	
Lane Grp Cap (vph)	34	58		34	58		34	1832			1195	
v/s Ratio Prot	c0.02	0.00		0.00	c0.00		0.01	c0.16			0.12	
v/s Ratio Perm												
v/c Ratio	0.82	0.00		0.12	0.01		0.79	0.31			0.35	
Uniform Delay, d1	12.9	12.7		12.7	12.7		12.9	3.8			6.6	
Progression Factor	1.00	1.00		1.00	1.00		1.00	1.00			1.00	
Incremental Delay, d2	85.0	0.0		1.5	0.0		75.1	0.1			0.2	
Delay (s)	97.9	12.7		14.3	12.8		88.0	3.9			6.7	
Level of Service	F	В		В	В		F	Α			Α	
Approach Delay (s)		89.6			13.0			7.7			6.7	
Approach LOS		F			В			Α			Α	
Intersection Summary												
HCM 2000 Control Delay			9.8	Н	ICM 2000	Level of	Service		Α			
HCM 2000 Volume to Cap	acity ratio		0.44									
Actuated Cycle Length (s)			26.4		um of los				16.0			
	tersection Capacity Utilization		35.5%						Α			
Analysis Period (min)			15									

Analysis Period (min) c Critical Lane Group

	•	•	•	<b>†</b>	ļ	4		
Movement	EBL	EBR	NBL	NBT	SBT	SBR		
Lane Configurations	W		ሻ	<b>↑</b>	<b>†</b>	7		
Traffic Volume (vph)	222	86	64	501	306	36		
Future Volume (vph)	222	86	64	501	306	36		
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900		
Total Lost time (s)	4.0		4.0	4.0	4.0	4.0		
Lane Util. Factor	1.00		1.00	1.00	1.00	1.00		
Frpb, ped/bikes	1.00		1.00	1.00	1.00	1.00		
Flpb, ped/bikes Frt	1.00 0.96		1.00 1.00	1.00 1.00	1.00	1.00 0.85		
Flt Protected	0.90		0.95	1.00	1.00	1.00		
Satd. Flow (prot)	1765		1805	1900	1900	1615		
Flt Permitted	0.97		0.95	1.00	1.00	1.00		
Satd. Flow (perm)	1765		1805	1900	1900	1615		
Peak-hour factor, PHF	0.97	0.97	0.97	0.97	0.97	0.97		
Adj. Flow (vph)	229	89	66	516	315	37		
RTOR Reduction (vph)	29	0	0	0	0	11		
Lane Group Flow (vph)	289	0	66	516	315	26		
Confl. Peds. (#/hr)								
Turn Type	Prot		Prot	NA	NA	pm+ov		
Protected Phases	3		5	2	6	3		
Permitted Phases						6		
Actuated Green, G (s)	13.7		4.6	33.3	24.7	38.4		
Effective Green, g (s)	13.7		4.6	33.3	24.7	38.4		
Actuated g/C Ratio	0.25		0.08	0.61	0.45	0.70		
Clearance Time (s)	4.0		4.0	4.0	4.0	4.0		
Vehicle Extension (s)	3.0		3.0	3.0	3.0	3.0		
Lane Grp Cap (vph) v/s Ratio Prot	439		150	1150	853	1245 0.01		
v/s Ratio Prot v/s Ratio Perm	c0.16		0.04	c0.27	0.17	0.01		
v/c Ratio	0.66		0.44	0.45	0.37	0.01		
Uniform Delay, d1	18.6		24.0	5.9	10.0	2.5		
Progression Factor	1.00		1.00	1.00	0.76	1.52		
Incremental Delay, d2	3.6		2.1	1.3	1.2	0.0		
Delay (s)	22.1		26.0	7.1	8.9	3.9		
Level of Service	С		С	Α	Α	Α		
Approach Delay (s)	22.1			9.3	8.3			
Approach LOS	С			Α	Α			
Intersection Summary								
HCM 2000 Control Delay			12.3	H	CM 2000	Level of Serv	ce	
HCM 2000 Volume to Capa	icity ratio		0.56					
Actuated Cycle Length (s)			55.0			st time (s)		
Intersection Capacity Utiliza	ation		50.6%	IC	U Level	of Service		
Analysis Period (min)			15					
c Critical Lane Group								

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4		¥	<b>†</b>	7	, j	ĵ.	
Traffic Volume (vph)	4	7	5	40	0	43	12	577	132	312	297	5
Future Volume (vph)	4	7	5	40	0	43	12	577	132	312	297	5
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		4.0			4.0		4.0	4.0	4.0	4.0	4.0	
Lane Util. Factor		1.00			1.00		1.00	1.00	1.00	1.00	1.00	
Frpb, ped/bikes		1.00			1.00		1.00	1.00	1.00	1.00	1.00	
Flpb, ped/bikes		1.00			1.00		1.00	1.00	1.00	1.00	1.00	
Frt		0.96			0.93		1.00	1.00	0.85	1.00	1.00	
Flt Protected		0.99			0.98		0.95	1.00	1.00	0.95	1.00	
Satd. Flow (prot)		1797			1726		1805	1900	1615	1805	1895	
Flt Permitted		0.99			0.98		0.95	1.00	1.00	0.95	1.00	
Satd. Flow (perm)		1797			1726		1805	1900	1615	1805	1895	
Peak-hour factor, PHF	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Adj. Flow (vph)	4	7	5	41	0	44	12	589	135	318	303	5
RTOR Reduction (vph)	0	5	0	0	79	0	0	0	55	0	0	0
Lane Group Flow (vph)	0	11	0	0	6	0	12	589	80	318	308	0
Confl. Peds. (#/hr)	- · · ·			0 111								
Turn Type	Split	NA		Split	NA		Prot	NA	pm+ov	Prot	NA	
Protected Phases	4	4		8	8		5	2	8	1	6	
Permitted Phases		2.0			7.0		1 -	F7 7	2	0/1	00.0	
Actuated Green, G (s)		3.0			7.2		1.5	57.7	64.9	26.1	82.3	
Effective Green, g (s)		3.0 0.03			7.2 0.07		1.5	57.7 0.52	64.9 0.59	26.1 0.24	82.3 0.75	
Actuated g/C Ratio Clearance Time (s)		4.0			4.0		0.01 4.0	4.0	4.0	4.0	4.0	
Vehicle Extension (s)		3.0			3.0		3.0	3.0	3.0	3.0	3.0	
Lane Grp Cap (vph)		49			112		24	996	1011	428	1417	
v/s Ratio Prot		c0.01			0.00		0.01	c0.31	c0.01	c0.18	0.16	
v/s Ratio Perm		CU.U1			0.00		0.01	CU.3 I	0.04	CU. 10	0.10	
v/c Ratio		0.23			0.05		0.50	0.59	0.04	0.74	0.22	
Uniform Delay, d1		52.4			48.2		53.9	18.0	9.7	38.8	4.2	
Progression Factor		1.00			1.00		0.95	0.87	0.49	1.00	1.00	
Incremental Delay, d2		2.4			0.2		13.9	2.3	0.0	6.8	0.4	
Delay (s)		54.7			48.4		65.1	18.0	4.8	45.7	4.5	
Level of Service		D			D		E	В	A	D	A	
Approach Delay (s)		54.7			48.4			16.3			25.4	
Approach LOS		D			D			В			С	
Intersection Summary												
HCM 2000 Control Delay			22.5	Н	CM 2000	Level of S	Service		С			
HCM 2000 Volume to Capacity	ratio		0.58									
Actuated Cycle Length (s)			110.0		um of lost				16.0			
Intersection Capacity Utilization	n		66.5%	IC	CU Level	of Service			С			
Analysis Period (min)			15									
c Critical Lane Group												

	۶	<b>→</b>	•	•	-	•	1	<b>†</b>	<b>/</b>	<b>/</b>	Ţ	✓
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4		ሻ	₽		ሻ		7
Traffic Volume (vph)	113	8	31	4	12	5	35	570	10	2	578	120
Future Volume (vph)	113	8	31	4	12	5	35	570	10	2	578	120
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		4.0			4.0		4.0	4.0		4.0	4.0	4.0
Lane Util. Factor		1.00			1.00		1.00	1.00		1.00	1.00	1.00
Frpb, ped/bikes		0.99			0.99		1.00	1.00		1.00	1.00	0.97
Flpb, ped/bikes		1.00			1.00		1.00	1.00		1.00	1.00	1.00
Frt		0.97			0.97		1.00	1.00		1.00	1.00	0.85
Flt Protected		0.96			0.99		0.95	1.00		0.95	1.00	1.00
Satd. Flow (prot)		1771			1811		1805	1894		1805	1900	1572
Flt Permitted		0.96			0.99		0.95	1.00		0.95	1.00	1.00
Satd. Flow (perm)	0.00	1771	0.00	0.00	1811	0.00	1805	1894	0.00	1805	1900	1572
Peak-hour factor, PHF	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Adj. Flow (vph)	115	8 10	32	4	12 5	5	36 0	582 0	10 0	2	590 0	122 47
RTOR Reduction (vph)	0	145	0	0	16	0	36	592	0	0	590	75
Lane Group Flow (vph) Confl. Peds. (#/hr)	U	145	0 5	U	10	0 5	30	592	5	2	590	5
	Colit	NA	<u> </u>	Colit	NA	ິ	Drot	NA	<u> </u>	Drot	NA	
Turn Type Protected Phases	Split 4	NA 4		Split 8	NA 8		Prot 5	NA 2		Prot 1	NA 6	Perm
Permitted Phases	4	4		0	0		3	Z		ı	0	6
Actuated Green, G (s)		8.1			1.0		2.2	31.2		1.0	30.0	30.0
Effective Green, g (s)		8.1			1.0		2.2	31.2		1.0	30.0	30.0
Actuated g/C Ratio		0.14			0.02		0.04	0.54		0.02	0.52	0.52
Clearance Time (s)		4.0			4.0		4.0	4.0		4.0	4.0	4.0
Vehicle Extension (s)		3.0			3.0		3.0	3.0		3.0	3.0	3.0
Lane Grp Cap (vph)		250			31		69	1031		31	994	823
v/s Ratio Prot		c0.08			c0.01		c0.02	c0.31		0.00	0.31	023
v/s Ratio Perm		00.00			00.01		00.02	00.01		0.00	0.01	0.05
v/c Ratio		0.58			0.52		0.52	0.57		0.06	0.59	0.09
Uniform Delay, d1		23.0			27.9		27.0	8.6		27.7	9.4	6.8
Progression Factor		1.00			1.00		1.00	1.00		1.00	1.00	1.00
Incremental Delay, d2		3.2			13.9		6.9	0.8		0.9	1.0	0.0
Delay (s)		26.2			41.8		34.0	9.4		28.6	10.4	6.9
Level of Service		С			D		С	А		С	В	Α
Approach Delay (s)		26.2			41.8			10.8			9.8	
Approach LOS		С			D			В			Α	
Intersection Summary												
HCM 2000 Control Delay			12.4	Н	CM 2000	Level of	Service		В			
HCM 2000 Volume to Capaci	ty ratio		0.59						4			
Actuated Cycle Length (s)			57.3		um of los				16.0			
Intersection Capacity Utilizati	on		53.3%	IC	CU Level	of Service			А			
Analysis Period (min)			15									
c Critical Lane Group												

BBL   BBR   NBL   NBT   SBT   SBR   SBR		1	•	1	†	<b>↓</b>	4
Traffic Volume (veh/h)         48         20         12         343         35         70           Future Volume (Veh/h)         48         20         12         343         35         70           Sign Control         Stop         Free         Free         Free         Free           Grade         0%         0%         0%         0%         0%           Peak Hour Factor         0.75	Movement	EBL	EBR	NBL	NBT	SBT	SBR
Traffic Volume (veh/h)         48         20         12         343         35         70           Future Volume (Veh/h)         48         20         12         343         35         70           Sign Control         Stop         Free         Free         Free           Grade         0%         0%         0%         0%           Peak Hour Factor         0.75 <td>Lane Configurations</td> <td>ሻ</td> <td>7</td> <td>ሻ</td> <td><b>†</b></td> <td><b></b></td> <td>7</td>	Lane Configurations	ሻ	7	ሻ	<b>†</b>	<b></b>	7
Future Volume (Veh/h)							
Sign Control         Stop         Free         Free           Grade         0%         0%         0%           Peak Hour Factor         0.75							
Grade         0%         0%         0%           Peak Hour Factor         0.75	Sign Control	Stop			Free	Free	
Hourly flow rate (vph)	Grade	0%			0%	0%	
Pedestrians	Peak Hour Factor	0.75	0.75	0.75	0.75	0.75	0.75
Pedestrians	Hourly flow rate (vph)	64	27	16	457	47	93
Walking Speed (ft/s)       4.0       4.0         Percent Blockage       0       0         Right turn flare (veh)       None       None         Median type       None       None         Median storage veh)       Upstream signal (ft)         pX, platoon unblocked       VC, conflicting volume       541       52       140         vC1, stage 1 conf vol       vC2, stage 2 conf vol       VCu, unblocked vol       541       52       140         tC, single (s)       6.4       6.2       4.1       tC, 2 stage (s)       tF (s)       3.5       3.3       2.2         p0 queue free %       87       97       99       PO					5	5	
Percent Blockage       0       0         Right turn flare (veh)       Median type       None       None         Median storage veh)       Upstream signal (ft)         pX, platoon unblocked       VC, conflicting volume         vC1, stage 1 conf vol       VC2, stage 2 conf vol         vCu, unblocked vol       541       52       140       141       141       141       141       141       141       141       141       141       141       141       141       141       141       141       141       141       141       141       1	Lane Width (ft)				12.0	12.0	
Right turn flare (veh)  Median type  Median storage veh)  Upstream signal (ft) pX, platoon unblocked vC, conflicting volume vC1, stage 1 conf vol vC2, stage 2 conf vol vCu, unblocked vol tC, single (s) tF (s) 3.5 3.3 2.2 p0 queue free % 87 97 99 cM capacity (veh/h) 498 1017 1456  Direction, Lane # EB 1 EB 2 NB 1 NB 2 SB 1 SB 2  Volume Total 64 27 16 457 47 93 Volume Left 64 0 16 0 0 0 0 Volume Right 0 27 0 0 0 93 cSH 498 1017 1456 1700 1700 1700 Volume to Capacity 0.13 0.03 0.01 0.27 0.03 0.05 Queue Length 95th (ft) 11 2 1 0 0 0 0 0 Control Delay (s) 11.9 0.3 0.01	Walking Speed (ft/s)				4.0	4.0	
Right turn flare (veh)  Median type  Median storage veh)  Upstream signal (ft) pX, platoon unblocked vC, conflicting volume vC1, stage 1 conf vol vC2, stage 2 conf vol vCu, unblocked vol tC, single (s) tF (s) 3.5 3.3 2.2 p0 queue free % 87 97 99 cM capacity (veh/h) 498 1017 1456  Direction, Lane # EB 1 EB 2 NB 1 NB 2 SB 1 SB 2 Volume Total 64 27 16 457 47 93 Volume Left 64 0 16 0 0 0 Volume Right 0 27 0 0 0 93 cSH 498 1017 1456 1700 1700 Volume to Capacity 0.13 0.03 0.01 0.27 0.03 0.05 Queue Length 95th (ft) 11 2 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					0	0	
Median type       None       None         Median storage veh)       Upstream signal (ft)         pX, platoon unblocked       VC, conflicting volume       541       52       140         vC1, stage 1 conf vol       vC2, stage 2 conf vol       VCu, unblocked vol       541       52       140         tC, single (s)       6.4       6.2       4.1							
Median storage veh)         Upstream signal (ft)         pX, platoon unblocked         vC, conflicting volume       541       52       140         vC1, stage 1 conf vol         vC2, stage 2 conf vol       VCu, unblocked vol       541       52       140         tC, single (s)       6.4       6.2       4.1         tC, 2 stage (s)       tF (s)       3.5       3.3       2.2         p0 queue free %       87       97       99         cM capacity (veh/h)       498       1017       1456         Direction, Lane #       EB 1       EB 2       NB 1       NB 2       SB 1       SB 2         Volume Total       64       27       16       457       47       93         Volume Left       64       0       16       0       0       0         Volume Right       0       27       0       0       0       93         cSH       498       1017       1456       1700       1700       1700         Volume to Capacity       0.13       0.03       0.01       0.27       0.03       0.05         Queue Length 95th (ft)       11       2       1       0       0 <td></td> <td></td> <td></td> <td></td> <td>None</td> <td>None</td> <td></td>					None	None	
Upstream signal (ft) pX, platoon unblocked vC, conflicting volume vC1, stage 1 conf vol vC2, stage 2 conf vol vCu, unblocked vol tC, single (s) tF (s) 3.5 3.3 2.2 p0 queue free % 87 97 99 cM capacity (veh/h) 498 1017 1456  Direction, Lane # EB 1 EB 2 NB 1 NB 2 SB 1 SB 2 Volume Total 64 27 16 457 47 93 Volume Left 64 0 16 0 0 0 Volume Right 0 27 0 0 0 93 cSH 498 1017 1456 1700 1700 1700 Volume to Capacity 0 0 13 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0							
pX, platoon unblocked vC, conflicting volume							
VC, conflicting volume vC1, stage 1 conf vol vC2, stage 2 conf vol vCu, unblocked vol tC, single (s) tF (s) p0 queue free % CM capacity (veh/h)  Direction, Lane #  EB1 EB2 NB1 NB2 SB1 SB2  Volume Total  64 27 16 457 47 93 Volume Left 64 0 16 0 0 0 0 Volume Right 0 27 0 0 0 93 cSH 498 1017 1456 1700 1700 Volume to Capacity Volume to Capacity Volume Length 95th (ft) 11 2 1 0 0 0 Control Delay (s) 11.9 0 3 140  140  140  140  140  140  140							
vC1, stage 1 conf vol vC2, stage 2 conf vol vCu, unblocked vol tC, single (s) tC, 2 stage (s) tF (s) 3.5 3.3 2.2 p0 queue free % 87 97 99 cM capacity (veh/h) 498 1017 1456  Direction, Lane # EB 1 EB 2 NB 1 NB 2 SB 1 SB 2  Volume Total 64 27 16 457 47 93 Volume Left 64 0 16 0 0 0 0 Volume Right 0 27 0 0 0 93 cSH 498 1017 1456 1700 1700 1700 Volume to Capacity 0.13 0.03 0.01 0.27 0.03 0.05 Queue Length 95th (ft) 11 2 1 0 0 0 0 Control Delay (s) 11.9 0.3 0.03		541	52	140			
vC2, stage 2 conf vol         vCu, unblocked vol       541       52       140         tC, single (s)       6.4       6.2       4.1         tC, 2 stage (s)       87       97       99         cM capacity (veh/h)       498       1017       1456         Direction, Lane #       EB 1       EB 2       NB 1       NB 2       SB 1       SB 2         Volume Total       64       27       16       457       47       93         Volume Left       64       0       16       0       0       0         Volume Right       0       27       0       0       0       93         cSH       498       1017       1456       1700       1700       1700         Volume to Capacity       0.13       0.03       0.01       0.27       0.03       0.05         Queue Length 95th (ft)       11       2       1       0       0       0         Control Delay (s)       13.3       8.6       7.5       0.0       0.0       0.0         Lane LOS       B       A       A         Approach Delay (s)       11.9       0.3       0.0       0.0   <							
vCu, unblocked vol         541         52         140           tC, single (s)         6.4         6.2         4.1           tC, 2 stage (s)         53.5         3.3         2.2           p0 queue free %         87         97         99           cM capacity (veh/h)         498         1017         1456           Direction, Lane #         EB 1         EB 2         NB 1         NB 2         SB 1         SB 2           Volume Total         64         27         16         457         47         93           Volume Left         64         0         16         0         0         0           Volume Right         0         27         0         0         0         93           cSH         498         1017         1456         1700         1700         1700           Volume to Capacity         0.13         0.03         0.01         0.27         0.03         0.05           Queue Length 95th (ft)         11         2         1         0         0         0           Control Delay (s)         13.3         8.6         7.5         0.0         0.0         0           Lane LOS         B							
tC, 2 stage (s) tF (s)		541	52	140			
tC, 2 stage (s) tF (s) 3.5 3.3 2.2 p0 queue free % 87 97 99 cM capacity (veh/h) 498 1017 1456  Direction, Lane # EB 1 EB 2 NB 1 NB 2 SB 1 SB 2 Volume Total 64 27 16 457 47 93 Volume Left 64 0 16 0 0 0 Volume Right 0 27 0 0 0 93 cSH 498 1017 1456 1700 1700 1700 Volume to Capacity 0.13 0.03 0.01 0.27 0.03 0.05 Queue Length 95th (ft) 11 2 1 0 0 0 Control Delay (s) 13.3 8.6 7.5 0.0 0.0 Lane LOS B A Approach Delay (s) 11.9 0.3 0.0	tC, single (s)	6.4	6.2	4.1			
tF (s) 3.5 3.3 2.2 p0 queue free % 87 97 99 cM capacity (veh/h) 498 1017 1456  Direction, Lane # EB 1 EB 2 NB 1 NB 2 SB 1 SB 2  Volume Total 64 27 16 457 47 93  Volume Left 64 0 16 0 0 0  Volume Right 0 27 0 0 0 93 cSH 498 1017 1456 1700 1700 1700  Volume to Capacity 0.13 0.03 0.01 0.27 0.03 0.05  Queue Length 95th (ft) 11 2 1 0 0 0  Control Delay (s) 13.3 8.6 7.5 0.0 0.0  Approach Delay (s) 11.9 0.3 0.0							
p0 queue free %         87         97         99           cM capacity (veh/h)         498         1017         1456           Direction, Lane #         EB 1         EB 2         NB 1         NB 2         SB 1         SB 2           Volume Total         64         27         16         457         47         93           Volume Left         64         0         16         0         0         0           Volume Right         0         27         0         0         0         93           cSH         498         1017         1456         1700         1700         1700           Volume to Capacity         0.13         0.03         0.01         0.27         0.03         0.05           Queue Length 95th (ft)         11         2         1         0         0         0           Control Delay (s)         13.3         8.6         7.5         0.0         0.0         0.0           Lane LOS         B         A         A           Approach Delay (s)         11.9         0.3         0.0		3.5	3.3	2.2			
Direction, Lane #         EB 1         EB 2         NB 1         NB 2         SB 1         SB 2           Volume Total         64         27         16         457         47         93           Volume Left         64         0         16         0         0         0           Volume Right         0         27         0         0         0         93           cSH         498         1017         1456         1700         1700         1700           Volume to Capacity         0.13         0.03         0.01         0.27         0.03         0.05           Queue Length 95th (ft)         11         2         1         0         0         0           Control Delay (s)         13.3         8.6         7.5         0.0         0.0         0.0           Lane LOS         B         A         A           Approach Delay (s)         11.9         0.3         0.0		87	97	99			
Volume Total         64         27         16         457         47         93           Volume Left         64         0         16         0         0         0           Volume Right         0         27         0         0         0         93           cSH         498         1017         1456         1700         1700         1700           Volume to Capacity         0.13         0.03         0.01         0.27         0.03         0.05           Queue Length 95th (ft)         11         2         1         0         0         0           Control Delay (s)         13.3         8.6         7.5         0.0         0.0         0.0           Lane LOS         B         A         A           Approach Delay (s)         11.9         0.3         0.0	cM capacity (veh/h)	498	1017	1456			
Volume Total         64         27         16         457         47         93           Volume Left         64         0         16         0         0         0           Volume Right         0         27         0         0         0         93           cSH         498         1017         1456         1700         1700         1700           Volume to Capacity         0.13         0.03         0.01         0.27         0.03         0.05           Queue Length 95th (ft)         11         2         1         0         0         0           Control Delay (s)         13.3         8.6         7.5         0.0         0.0         0.0           Lane LOS         B         A         A           Approach Delay (s)         11.9         0.3         0.0	Direction, Lane #	EB 1	EB 2	NB 1	NB 2	SB 1	SB 2
Volume Left         64         0         16         0         0         0           Volume Right         0         27         0         0         0         93           cSH         498         1017         1456         1700         1700         1700           Volume to Capacity         0.13         0.03         0.01         0.27         0.03         0.05           Queue Length 95th (ft)         11         2         1         0         0         0           Control Delay (s)         13.3         8.6         7.5         0.0         0.0         0.0           Lane LOS         B         A         A           Approach Delay (s)         11.9         0.3         0.0							
Volume Right         0         27         0         0         93           cSH         498         1017         1456         1700         1700         1700           Volume to Capacity         0.13         0.03         0.01         0.27         0.03         0.05           Queue Length 95th (ft)         11         2         1         0         0         0           Control Delay (s)         13.3         8.6         7.5         0.0         0.0         0.0           Lane LOS         B         A         A           Approach Delay (s)         11.9         0.3         0.0							
CSH 498 1017 1456 1700 1700 1700  Volume to Capacity 0.13 0.03 0.01 0.27 0.03 0.05  Queue Length 95th (ft) 11 2 1 0 0 0  Control Delay (s) 13.3 8.6 7.5 0.0 0.0 0.0  Lane LOS B A A  Approach Delay (s) 11.9 0.3 0.0							
Volume to Capacity         0.13         0.03         0.01         0.27         0.03         0.05           Queue Length 95th (ft)         11         2         1         0         0         0           Control Delay (s)         13.3         8.6         7.5         0.0         0.0         0.0           Lane LOS         B         A         A           Approach Delay (s)         11.9         0.3         0.0							
Queue Length 95th (ft)       11       2       1       0       0       0         Control Delay (s)       13.3       8.6       7.5       0.0       0.0       0.0         Lane LOS       B       A       A         Approach Delay (s)       11.9       0.3       0.0							
Control Delay (s) 13.3 8.6 7.5 0.0 0.0 0.0  Lane LOS B A A  Approach Delay (s) 11.9 0.3 0.0							
Lane LOS B A A Approach Delay (s) 11.9 0.3 0.0	Ü , ,			7.5			
Approach Delay (s) 11.9 0.3 0.0							
						0.0	
Approach LOS B	Approach LOS	В					
Intersection Summary	Intersection Summary						
Average Delay 1.7				17			
Intersection Capacity Utilization 28.1% ICU Level of Service		zation			IC	'III evel (	of Service
Analysis Period (min) 15		200011				JO LOVOI (	JI JOI VICC

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Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	ሻ	7	ሻ	<b>†</b>	ħ	
Traffic Volume (veh/h)	20	59	34	357	46	20
Future Volume (Veh/h)	20	59	34	357	46	20
Sign Control	Stop			Free	Free	
Grade	0%			0%	0%	
Peak Hour Factor	0.87	0.87	0.87	0.87	0.87	0.87
Hourly flow rate (vph)	23	68	39	410	53	23
Pedestrians				5	5	
Lane Width (ft)				12.0	12.0	
Walking Speed (ft/s)				4.0	4.0	
Percent Blockage				0	0	
Right turn flare (veh)		10				
Median type				None	None	
Median storage veh)						
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	558	70	76			
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	558	70	76			
tC, single (s)	6.4	6.2	4.1			
tC, 2 stage (s)	0.1	0.2				
tF (s)	3.5	3.3	2.2			
p0 queue free %	95	93	97			
cM capacity (veh/h)	480	995	1536			
				00.4		
Direction, Lane #	EB 1	NB 1	NB 2	SB 1		
Volume Total	91	39	410	76		
Volume Left	23	39	0	0		
Volume Right	68	0	0	23		
cSH	1331	1536	1700	1700		
Volume to Capacity	0.07	0.03	0.24	0.04		
Queue Length 95th (ft)	5	2	0	0		
Control Delay (s)	9.9	7.4	0.0	0.0		
Lane LOS	А	Α				
Approach Delay (s)	9.9	0.6		0.0		
Approach LOS	А					
Intersection Summary						
Average Delay			1.9			
Intersection Capacity Utili	zation		28.8%	IC	CU Level c	of Service
Analysis Period (min)			15			

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Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	W		ĵ»			ર્ન
Traffic Volume (veh/h)	26	13	27	349	22	38
Future Volume (Veh/h)	26	13	27	349	22	38
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.68	0.68	0.68	0.68	0.68	0.68
Hourly flow rate (vph)	38	19	40	513	32	56
Pedestrians			5			5
Lane Width (ft)			12.0			12.0
Walking Speed (ft/s)			4.0			4.0
Percent Blockage			0			0
Right turn flare (veh)						
Median type			None			None
Median storage veh)						
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	422	302			553	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	422	302			553	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)						
tF (s)	3.5	3.3			2.2	
p0 queue free %	93	97			97	
cM capacity (veh/h)	572	740			1027	
Direction, Lane #	WB 1	NB 1	SB 1			
Volume Total	57	553	88			
Volume Left	38	0	32			
Volume Right	38 19	513	0			
cSH	619		1027			
		1700				
Volume to Capacity	0.09	0.33	0.03			
Queue Length 95th (ft)	8	0				
Control Delay (s)	11.4	0.0	3.3			
Lane LOS	B	0.0	A			
Approach Delay (s)	11.4	0.0	3.3			
Approach LOS	В					
Intersection Summary						
Average Delay			1.3			
Intersection Capacity Utiliz	ation		33.0%	IC	U Level	of Service
Analysis Period (min)			15			

	•	•	<b>†</b>	~	<b>/</b>	<b>↓</b>
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥		<b>†</b>	7	ሻ	<b>†</b>
Traffic Volume (veh/h)	5	29	38	8	22	7
Future Volume (Veh/h)	5	29	38	8	22	7
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.64	0.64	0.64	0.64	0.64	0.64
Hourly flow rate (vph)	8	45	59	13	34	11
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type			None			None
Median storage veh)						
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	138	59			72	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	138	59			72	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)						
tF (s)	3.5	3.3			2.2	
p0 queue free %	99	96			98	
cM capacity (veh/h)	841	1012			1541	
Direction, Lane #	WB 1	NB 1	NB 2	SB 1	SB 2	
Volume Total	53	59	13	34	11	
Volume Left	8	0	0	34	0	
Volume Right	45	0	13	0	0	
cSH	982	1700	1700	1541	1700	
Volume to Capacity	0.05	0.03	0.01	0.02	0.01	
Queue Length 95th (ft)	4	0	0	2	0	
Control Delay (s)	8.9	0.0	0.0	7.4	0.0	
Lane LOS	А			Α		
Approach Delay (s)	8.9	0.0		5.6		
Approach LOS	A	0.0		0.0		
Intersection Summary						
Average Delay			4.2			
Intersection Capacity Utiliz	zation		17.9%	IC	U Level	of Service
Analysis Period (min)			15			
anarysis r chou (IIIII)			13			

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	<b>∱</b> ∱		ň	<b>∱</b> ∱		7	ħβ		7	<b>∱</b> ∱	
Traffic Volume (vph)	25	2	9	3	0	59	0	404	2	2	566	18
Future Volume (vph)	25	2	9	3	0	59	0	404	2	2	566	18
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0		4.0	4.0			4.0		4.0	4.0	
Lane Util. Factor	1.00	0.95		1.00	0.95			0.95		1.00	0.95	
Frt	1.00	0.88		1.00	0.85			1.00		1.00	1.00	
Flt Protected	0.95	1.00		0.95	1.00			1.00		0.95	1.00	
Satd. Flow (prot)	1805	3167		1805	3068			3607		1805	3593	
Flt Permitted	0.95	1.00		0.95	1.00			1.00		0.95	1.00	
Satd. Flow (perm)	1805	3167		1805	3068			3607		1805	3593	
Peak-hour factor, PHF	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Adj. Flow (vph)	26	2	9	3	0	61	0	416	2	2	584	19
RTOR Reduction (vph)	0	10	0	0	58	0	0	0	0	0	1	0
Lane Group Flow (vph)	26	1	0	3	3	0	0	418	0	2	602	0
Turn Type	Prot	NA		Prot	NA		Prot	NA		Prot	NA	
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases												
Actuated Green, G (s)	4.1	7.9		1.8	5.6			72.5		1.8	78.3	
Effective Green, g (s)	4.1	7.9		1.8	5.6			72.5		1.8	78.3	
Actuated g/C Ratio	0.04	80.0		0.02	0.06			0.72		0.02	0.78	
Clearance Time (s)	4.0	4.0		4.0	4.0			4.0		4.0	4.0	
Vehicle Extension (s)	3.0	3.0		3.0	3.0			3.0		3.0	3.0	
Lane Grp Cap (vph)	74	250		32	171			2615		32	2813	
v/s Ratio Prot	c0.01	0.00		0.00	c0.00			0.12		0.00	c0.17	
v/s Ratio Perm												
v/c Ratio	0.35	0.00		0.09	0.02			0.16		0.06	0.21	
Uniform Delay, d1	46.7	42.4		48.3	44.6			4.3		48.3	2.8	
Progression Factor	1.00	1.00		1.01	1.00			1.00		1.10	0.52	
Incremental Delay, d2	2.9	0.0		1.3	0.0			0.1		0.6	0.1	
Delay (s)	49.5	42.4		50.1	44.7			4.4		53.6	1.6	
Level of Service	D	D		D	D			Α		D	Α	
Approach Delay (s)		47.4			44.9			4.4			1.8	
Approach LOS		D			D			Α			Α	
Intersection Summary												
HCM 2000 Control Delay			6.7	Н	CM 2000	Level of	Service		Α			
HCM 2000 Volume to Cap	acity ratio		0.22									
Actuated Cycle Length (s)			100.0		um of lost				16.0			
Intersection Capacity Utiliz	ation		30.9%	IC	CU Level	of Service	)		Α			
Analysis Period (min)			15									

Analysis Period (min) c Critical Lane Group

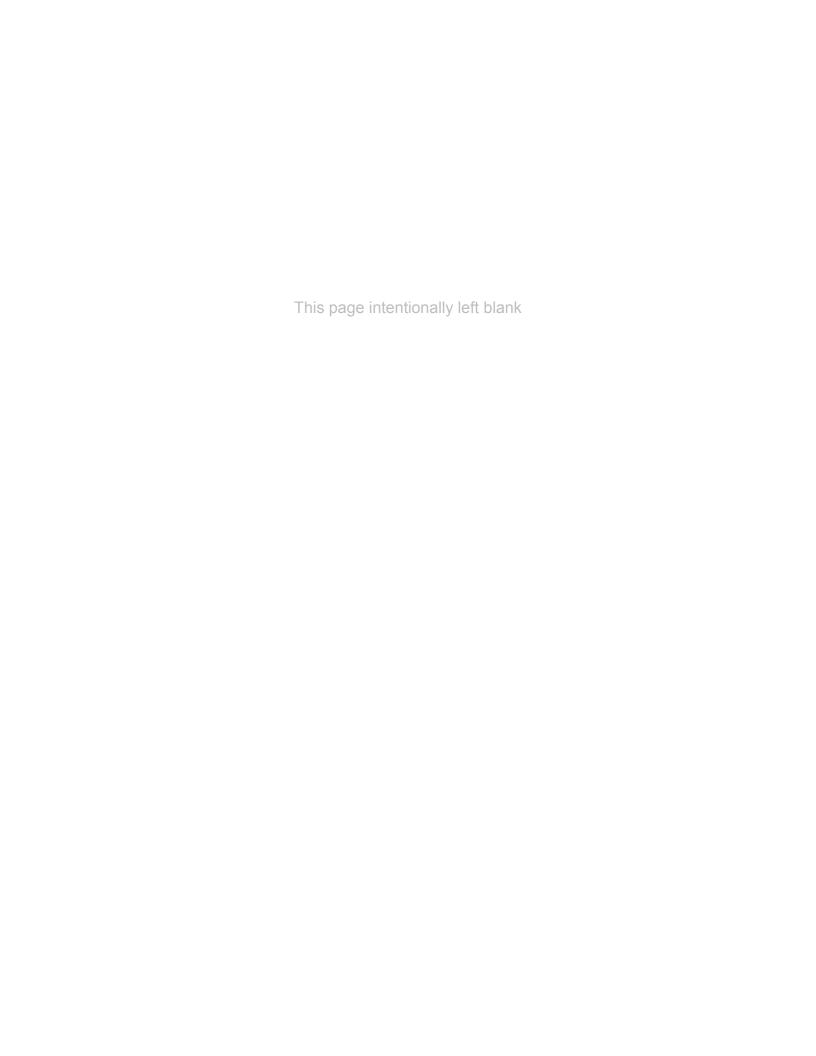
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Movement	EBL	EBR	NBL	NBT	SBT	SBR		
Lane Configurations	W		ሻ	<b>^</b>	<b>†</b>	7		
Traffic Volume (vph)	466	148	69	420	437	47		
Future Volume (vph)	466	148	69	420	437	47		
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900		
Total Lost time (s)	4.0		4.0	4.0	4.0	4.0		
Lane Util. Factor	1.00		1.00	1.00	1.00	1.00		
Frpb, ped/bikes	1.00		1.00	1.00	1.00	1.00		
Flpb, ped/bikes	1.00		1.00	1.00	1.00	1.00		
Frt	0.97		1.00	1.00	1.00	0.85		
Flt Protected	0.96		0.95	1.00	1.00	1.00		
Satd. Flow (prot)	1771		1805	1900	1900	1615		
Flt Permitted	0.96		0.95	1.00	1.00	1.00		
Satd. Flow (perm)	1771	0.07	1805	1900	1900	1615		
Peak-hour factor, PHF	0.96	0.96	0.96	0.96	0.96	0.96		
Adj. Flow (vph) RTOR Reduction (vph)	485 13	154	72	438	455	49		
`   '	626	0	0 72	0 438	0 455	9 40		
Lane Group Flow (vph) Confl. Peds. (#/hr)	020	U	12	436	400	40		
	Prot		Drot	NA	NΙΛ	nm : 01/		
Turn Type Protected Phases	3		Prot 5	2	NA 6	pm+ov 3		
Permitted Phases	J		5	Z	Ü	6		
Actuated Green, G (s)	40.3		6.9	51.7	40.8	81.1		
Effective Green, g (s)	40.3		6.9	51.7	40.8	81.1		
Actuated g/C Ratio	0.40		0.07	0.52	0.41	0.81		
Clearance Time (s)	4.0		4.0	4.0	4.0	4.0		
Vehicle Extension (s)	3.0		3.0	3.0	3.0	3.0		
Lane Grp Cap (vph)	713		124	982	775	1374		
v/s Ratio Prot	c0.35		0.04	c0.23	c0.24	0.01		
v/s Ratio Perm	00.00		0.01	00.20	00.21	0.01		
v/c Ratio	0.88		0.58	0.45	0.59	0.03		
Uniform Delay, d1	27.6		45.1	15.2	23.0	1.8		
Progression Factor	1.00		0.91	0.80	0.46	0.00		
Incremental Delay, d2	11.9		6.7	1.5	3.1	0.0		
Delay (s)	39.5		47.9	13.6	13.8	0.0		
Level of Service	D		D	В	В	Α		
Approach Delay (s)	39.5			18.4	12.4			
Approach LOS	D			В	В			
Intersection Summary								
HCM 2000 Control Delay			24.7	Н	CM 2000	Level of Servi	:e	
HCM 2000 Volume to Capa	acity ratio		0.72		2 2000			
Actuated Cycle Length (s)	, . 20		100.0	Sı	um of los	st time (s)		
Intersection Capacity Utiliza	ation		73.7%			of Service		
Analysis Period (min)			15					
c Critical Lane Group								

	۶	<b>→</b>	•	•	<b>←</b>	•	1	<b>†</b>	<i>&gt;</i>	<b>/</b>	<b>↓</b>	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4		ሻ	<b>†</b>	7	ሻ	f)	
Traffic Volume (vph)	2	13	8	47	0	24	12	721	153	324	429	5
Future Volume (vph)	2	13	8	47	0	24	12	721	153	324	429	5
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		4.0			4.0		4.0	4.0	4.0	4.0	4.0	
Lane Util. Factor		1.00			1.00		1.00	1.00	1.00	1.00	1.00	
Frpb, ped/bikes		1.00			1.00		1.00	1.00	1.00	1.00	1.00	
Flpb, ped/bikes		1.00			1.00		1.00	1.00	1.00	1.00	1.00	
Frt Flt Protected		0.95 1.00			0.95 0.97		1.00 0.95	1.00	0.85 1.00	1.00 0.95	1.00 1.00	
Satd. Flow (prot)		1800			1755		1805	1900	1615	1805	1897	
Flt Permitted		1.00			0.97		0.95	1.00	1.00	0.95	1.00	
Satd. Flow (perm)		1800			1755		1805	1900	1615	1805	1897	
Peak-hour factor, PHF	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Adj. Flow (vph)	2	14	9	50	0.74	26	13	767	163	345	456	5
RTOR Reduction (vph)	0	9	0	0	71	0	0	0	86	0	0	0
Lane Group Flow (vph)	0	16	0	0	5	0	13	767	77	345	461	0
Confl. Peds. (#/hr)								, , ,		0.10	101	
Turn Type	Split	NA		Split	NA		Prot	NA	pm+ov	Prot	NA	
Protected Phases	4	4		8	8		5	2	8	1	6	
Permitted Phases									2			
Actuated Green, G (s)		3.1			7.0		3.9	40.3	47.3	33.6	70.0	
Effective Green, g (s)		3.1			7.0		3.9	40.3	47.3	33.6	70.0	
Actuated g/C Ratio		0.03			0.07		0.04	0.40	0.47	0.34	0.70	
Clearance Time (s)		4.0			4.0		4.0	4.0	4.0	4.0	4.0	
Vehicle Extension (s)		3.0			3.0		3.0	3.0	3.0	3.0	3.0	
Lane Grp Cap (vph)		55			122		70	765	763	606	1327	
v/s Ratio Prot		c0.01			0.00		0.01	c0.40	c0.01	c0.19	0.24	
v/s Ratio Perm									0.04			
v/c Ratio		0.30			0.04		0.19	1.00	0.10	0.57	0.35	
Uniform Delay, d1		47.4			43.4		46.5	29.9	14.6	27.3	5.9	
Progression Factor		1.00			1.00		0.94	0.94	1.74	0.52	0.83	
Incremental Delay, d2		3.0			0.1		1.0	29.7	0.0	0.9	0.5	
Delay (s)		50.4			43.5		44.9	57.8	25.4	15.0	5.5	
Level of Service		D			D		D	E	С	В	A	
Approach LOS		50.4			43.5			52.0			9.6	
Approach LOS		D			D			D			Α	
Intersection Summary												
HCM 2000 Control Delay			33.2	Н	CM 2000	Level of S	Service		С			
HCM 2000 Volume to Capacit	ty ratio		0.73									
Actuated Cycle Length (s)			100.0		um of lost				16.0			
Intersection Capacity Utilization	on		76.6%	IC	CU Level	of Service			D			
Analysis Period (min)			15									
c Critical Lane Group												

	۶	<b>→</b>	•	•	-	•	1	<b>†</b>	<b>/</b>	<b>/</b>	<b>↓</b>	✓
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4		ሻ	1•		ሻ		7
Traffic Volume (vph)	108	21	21	5	12	7	13	738	7	4	750	198
Future Volume (vph)	108	21	21	5	12	7	13	738	7	4	750	198
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		4.0			4.0		4.0	4.0		4.0	4.0	4.0
Lane Util. Factor		1.00			1.00		1.00	1.00		1.00	1.00	1.00
Frpb, ped/bikes		1.00			0.99		1.00	1.00		1.00	1.00	0.97
Flpb, ped/bikes		1.00 0.98			1.00		1.00	1.00		1.00	1.00	1.00
Frt Flt Protected		0.98			0.96 0.99		1.00 0.95	1.00 1.00		1.00 0.95	1.00 1.00	0.85 1.00
Satd. Flow (prot)		1791			1791		1805	1897		1805	1900	1565
Flt Permitted		0.97			0.99		0.95	1.00		0.95	1.00	1.00
Satd. Flow (perm)		1791			1791		1805	1897		1805	1900	1565
Peak-hour factor, PHF	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Adj. Flow (vph)	111	22	22	5	12	7	13	761	7	4	773	204
RTOR Reduction (vph)	0	6	0	0	7	0	0	0	0	0	0	41
Lane Group Flow (vph)	0	149	0	0	17	0	13	768	0	4	773	163
Confl. Peds. (#/hr)			5		.,	5	10	700	5		,,,	5
Turn Type	Split	NA		Split	NA		Prot	NA		Prot	NA	Perm
Protected Phases	4	4		8	8		5	2		1	6	. 0
Permitted Phases												6
Actuated Green, G (s)		21.0			3.1		1.5	58.5		1.4	58.4	58.4
Effective Green, g (s)		21.0			3.1		1.5	58.5		1.4	58.4	58.4
Actuated g/C Ratio		0.21			0.03		0.02	0.58		0.01	0.58	0.58
Clearance Time (s)		4.0			4.0		4.0	4.0		4.0	4.0	4.0
Vehicle Extension (s)		3.0			3.0		3.0	3.0		3.0	3.0	3.0
Lane Grp Cap (vph)		376			55		27	1109		25	1109	913
v/s Ratio Prot		c0.08			c0.01		0.01	c0.40		0.00	c0.41	
v/s Ratio Perm												0.10
v/c Ratio		0.40			0.31		0.48	0.69		0.16	0.70	0.18
Uniform Delay, d1		34.0			47.4		48.9	14.5		48.7	14.6	9.7
Progression Factor		1.00			1.00		1.46	0.12		1.00	1.00	1.00
Incremental Delay, d2		3.1			3.2		5.1	0.7		3.0	1.9	0.1
Delay (s)		37.1			50.7		76.6	2.5		51.7	16.5	9.8
Level of Service		D			D		E	A		D	В	А
Approach Delay (s)		37.1			50.7			3.7			15.3	
Approach LOS		D			D			Α			В	
Intersection Summary												
HCM 2000 Control Delay			12.8	Н	CM 2000	Level of 3	Service		В			
HCM 2000 Volume to Capaci	ty ratio		0.62									
Actuated Cycle Length (s)			100.0		um of los				16.0			
Intersection Capacity Utilization	on		66.1%	IC	CU Level	of Service	!		С			
Analysis Period (min)			15									
c Critical Lane Group												

#### **Appendix C**

Intersection LOS Worksheets during Interchange Closure



	۶	•	4	<b>†</b>	ļ	✓
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	ሻ	7	ሻ	<b>†</b>	<b>†</b>	7
Traffic Volume (veh/h)	0	415	100	0	0	0
Future Volume (Veh/h)	0	415	100	0	0	0
Sign Control	Stop			Free	Free	
Grade	0%			0%	0%	
Peak Hour Factor	0.72	0.72	0.72	0.72	0.72	0.72
Hourly flow rate (vph)	0	576	139	0	0	0
Pedestrians				5	5	
Lane Width (ft)				12.0	12.0	
Walking Speed (ft/s)				4.0	4.0	
Percent Blockage				0	0	
Right turn flare (veh)						
Median type				None	None	
Median storage veh)						
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	283	5	0			
vC1, stage 1 conf vol	200					
vC2, stage 2 conf vol						
vCu, unblocked vol	283	5	0			
tC, single (s)	6.4	6.2	4.1			
tC, 2 stage (s)	<b>U.</b>	0.2				
tF (s)	3.5	3.3	2.2			
p0 queue free %	100	47	92			
cM capacity (veh/h)	648	1080	1636			
				ND 0	CD 1	CD 1
<u>Direction, Lane #</u> Volume Total	EB 1 0	EB 2 576	NB 1 139	NB 2 0	SB 1 0	SB 2 0
Volume Left	0	0	139	0	0	0
Volume Right cSH	1700	576	1424	1700	1700	0 1700
	1700	1080	1636	1700	1700	
Volume to Capacity	0.00	0.53	0.08	0.00	0.00	0.00
Queue Length 95th (ft)	0	82	7	0	0	0
Control Delay (s)	0.0	12.1	7.4	0.0	0.0	0.0
Lane LOS	A	В	A		0.0	
Approach LOS	12.1		7.4		0.0	
Approach LOS	В					
Intersection Summary						
Average Delay			11.2			
Intersection Capacity Utiliz	zation		29.0%	IC	CU Level o	of Service
Analysis Period (min)			15			

	۶	•	•	<b>†</b>	<b>↓</b>	4
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	ሻ	7	ሻ	<b>†</b>	î»	
Traffic Volume (veh/h)	0	0	0	0	0	0
Future Volume (Veh/h)	0	0	0	0	0	0
Sign Control	Stop			Free	Free	
Grade	0%			0%	0%	
Peak Hour Factor	0.84	0.84	0.84	0.84	0.84	0.84
Hourly flow rate (vph)	0	0	0	0	0	0
Pedestrians				5	5	
Lane Width (ft)				12.0	12.0	
Walking Speed (ft/s)				4.0	4.0	
Percent Blockage				0	0	
Right turn flare (veh)		10				
Median type				None	None	
Median storage veh)						
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	5	5	0			
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	5	5	0			
tC, single (s)	6.4	6.2	4.1			
tC, 2 stage (s)	<b></b>	V.2				
tF (s)	3.5	3.3	2.2			
p0 queue free %	100	100	100			
cM capacity (veh/h)	1018	1080	1636			
				CD 1		
Direction, Lane # Volume Total	EB 1	NB 1	NB 2	SB 1		
	0	0	0	0		
Volume Left	0	0	0	0		
Volume Right	1700	1700	1700	1700		
cSH Valuma ta Canaditu	1700	1700	1700	1700		
Volume to Capacity	0.00	0.00	0.00	0.00		
Queue Length 95th (ft)	0	0	0	0		
Control Delay (s)	0.0	0.0	0.0	0.0		
Lane LOS	A	0.0		0.0		
Approach Delay (s)	0.0	0.0		0.0		
Approach LOS	А					
Intersection Summary						
Average Delay			0.0			
Intersection Capacity Utiliz	zation		0.0%	IC	U Level	of Service
Analysis Period (min)			15			

	•	•	<b>†</b>	<b>/</b>	-	<b>↓</b>	
Movement	WBL	WBR	NBT	NBR	SBL	SBT	
Lane Configurations	¥		ĵ.			ર્ન	
Traffic Volume (veh/h)	0	0	0	0	0	0	
Future Volume (Veh/h)	0	0	0	0	0	0	
Sign Control	Stop		Free			Free	
Grade	0%		0%			0%	
Peak Hour Factor	0.88	0.88	0.88	0.88	0.88	0.88	
Hourly flow rate (vph)	0	0	0	0	0	0	
Pedestrians			5			5	
Lane Width (ft)			12.0			12.0	
Walking Speed (ft/s)			4.0			4.0	
Percent Blockage			0			0	
Right turn flare (veh)							
Median type			None			None	
Median storage veh)							
Upstream signal (ft)							
pX, platoon unblocked							
vC, conflicting volume	5	5			0		
vC1, stage 1 conf vol							
vC2, stage 2 conf vol							
vCu, unblocked vol	5	5			0		
tC, single (s)	6.4	6.2			4.1		
tC, 2 stage (s)							
tF (s)	3.5	3.3			2.2		
p0 queue free %	100	100			100		
cM capacity (veh/h)	1018	1080			1636		
Direction, Lane #	WB 1	NB 1	SB 1				
Volume Total	0	0	0				
Volume Left	0	0	0				
Volume Right	0	0	0				
cSH	1700	1700	1700				
Volume to Capacity	0.00	0.00	0.00				
Queue Length 95th (ft)	0	0	0				
Control Delay (s)	0.0	0.0	0.0				
Lane LOS	А						
Approach Delay (s)	0.0	0.0	0.0				
Approach LOS	А						
Intersection Summary							
Average Delay			0.0				
Intersection Capacity Utiliza	ation		0.0%	IC	U Level o	of Service	
Analysis Period (min)			15				

	•	•	<b>†</b>	<b>/</b>	<b>&gt;</b>	<b>↓</b>
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	W		<b>↑</b>	7	ሻ	<b>†</b>
Traffic Volume (veh/h)	1	22	15	2	28	27
Future Volume (Veh/h)	1	22	15	2	28	27
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.88	0.88	0.88	0.88	0.88	0.88
Hourly flow rate (vph)	1	25	17	2	32	31
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type			None			None
Median storage veh)						
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	112	17			19	
vC1, stage 1 conf vol	,,_	.,				
vC2, stage 2 conf vol						
vCu, unblocked vol	112	17			19	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)	<u> </u>	0.2				
tF (s)	3.5	3.3			2.2	
p0 queue free %	100	98			98	
cM capacity (veh/h)	872	1068			1611	
			ND 0	CD 1		
Direction, Lane #	WB 1	NB 1	NB 2	SB 1	SB 2	
Volume Total	26	17	2	32	31	
Volume Left	1	0	0	32	0	
Volume Right	25	0	2	0	0	
cSH	1059	1700	1700	1611	1700	
Volume to Capacity	0.02	0.01	0.00	0.02	0.02	
Queue Length 95th (ft)	2	0	0	2	0	
Control Delay (s)	8.5	0.0	0.0	7.3	0.0	
Lane LOS	A			A		
Approach Delay (s)	8.5	0.0		3.7		
Approach LOS	А					
Intersection Summary						
Average Delay			4.2			
Intersection Capacity Utiliz	ation		18.2%	IC	U Level	of Service
Analysis Period (min)			15			

	٠	<b>→</b>	$\rightarrow$	•	<b>←</b>	•	•	<b>†</b>	/	<b>&gt;</b>	ļ	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	ħβ		, j	<b>∱</b> ∱		ň	<b>∱</b> }		¥	ħβ	
Traffic Volume (vph)	26	0	3	4	0	111	25	519	0	479	362	46
Future Volume (vph)	26	0	3	4	0	111	25	519	0	479	362	46
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0		4.0	4.0		4.0	4.0		4.0	4.0	
Lane Util. Factor	1.00	0.95		1.00	0.95		1.00	0.95		1.00	0.95	
Frt	1.00	0.85		1.00	0.85		1.00	1.00		1.00	0.98	
Flt Protected	0.95	1.00		0.95	1.00		0.95	1.00		0.95	1.00	
Satd. Flow (prot)	1805	3068		1805	3068		1805	3610		1805	3549	
Flt Permitted	0.95	1.00		0.95	1.00		0.95	1.00		0.95	1.00	
Satd. Flow (perm)	1805	3068		1805	3068		1805	3610		1805	3549	
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	28	0	3	4	0	121	27	564	0	521	393	50
RTOR Reduction (vph)	0	3	0	0	110	0	0	0	0	0	8	0
Lane Group Flow (vph)	28	0	0	4	11	0	27	564	0	521	435	0
Turn Type	Prot	NA		Prot	NA		Prot	NA		Prot	NA	
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases												
Actuated Green, G (s)	2.3	7.1		1.1	5.9		2.3	16.8		22.1	36.6	
Effective Green, g (s)	2.3	7.1		1.1	5.9		2.3	16.8		22.1	36.6	
Actuated g/C Ratio	0.04	0.11		0.02	0.09		0.04	0.27		0.35	0.58	
Clearance Time (s)	4.0	4.0		4.0	4.0		4.0	4.0		4.0	4.0	
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Lane Grp Cap (vph)	65	345		31	286		65	961		632	2058	
v/s Ratio Prot	c0.02	0.00		0.00	c0.00		0.01	c0.16		c0.29	0.12	
v/s Ratio Perm												
v/c Ratio	0.43	0.00		0.13	0.04		0.42	0.59		0.82	0.21	
Uniform Delay, d1	29.8	24.9		30.5	26.0		29.7	20.1		18.7	6.3	
Progression Factor	1.00	1.00		1.00	1.00		1.00	1.00		1.00	1.00	
Incremental Delay, d2	4.5	0.0		1.9	0.1		4.3	0.9		8.6	0.1	
Delay (s)	34.3	24.9		32.4	26.1		34.0	21.1		27.3	6.4	
Level of Service	С	С		С	С		С	С		С	Α	
Approach Delay (s)		33.4			26.3			21.6			17.7	
Approach LOS		С			С			С			В	
Intersection Summary												
HCM 2000 Control Delay			20.0	Н	CM 2000	Level of	Service		В			
HCM 2000 Volume to Capa	acity ratio		0.62									
Actuated Cycle Length (s)			63.1		um of lost				16.0			
Intersection Capacity Utiliz	ation		59.0%	IC	CU Level	of Service	:		В			
Analysis Period (min)			15									

Analysis Period (min) c Critical Lane Group

	•	$\rightarrow$	<b>~</b>	<b>†</b>	ļ	✓		
Movement	EBL	EBR	NBL	NBT	SBT	SBR		
Lane Configurations	¥		ች	<b>†</b>	<b></b>	7		
Traffic Volume (vph)	285	465	134	522	420	42		
Future Volume (vph)	285	465	134	522	420	42		
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900		
Total Lost time (s)	4.0		4.0	4.0	4.0	4.0		
Lane Util. Factor	1.00		1.00	1.00	1.00	1.00		
Frpb, ped/bikes	1.00		1.00	1.00	1.00	1.00		
Flpb, ped/bikes	1.00		1.00	1.00	1.00	1.00		
Frt	0.92		1.00	1.00	1.00	0.85		
Flt Protected	0.98		0.95	1.00	1.00	1.00		
Satd. Flow (prot)	1709		1805	1900	1900	1615		
Flt Permitted	0.98		0.95	1.00	1.00	1.00		
Satd. Flow (perm)	1709		1805	1900	1900	1615		
Peak-hour factor, PHF	0.97	0.97	0.97	0.97	0.97	0.97		
Adj. Flow (vph)	294	479	138	538	433	43		
RTOR Reduction (vph)	52	0	0	0	0	9		
Lane Group Flow (vph)	721	0	138	538	433	34		
Confl. Peds. (#/hr)	, _ ,		100	000	100	<u> </u>		
Turn Type	Prot		Prot	NA	NA	pm+ov		
Protected Phases	3		5	2	6	3		
Permitted Phases	3		J	2	U	6		
Actuated Green, G (s)	54.9		12.6	57.1	40.5	95.4		
Effective Green, g (s)	54.9		12.6	57.1	40.5	95.4		
Actuated g/C Ratio	0.46		0.10	0.48	0.34	0.80		
Clearance Time (s)	4.0		4.0	4.0	4.0	4.0		
Vehicle Extension (s)	3.0		3.0	3.0	3.0	3.0		
Lane Grp Cap (vph)	781		189	904	641	1337		
v/s Ratio Prot	c0.42		c0.08	0.28	c0.23	0.01		
v/s Ratio Perm	CU.42		CU.U0	0.20	0.23	0.01		
v/c Ratio	0.92		0.73	0.60	0.68	0.01		
			52.1	23.0		2.6		
Uniform Delay, d1	30.6				34.1 0.75			
Progression Factor	1.00 16.4		1.00 13.5	1.00 2.9	5.4	1.75 0.0		
Incremental Delay, d2								
Delay (s) Level of Service	46.9		65.6	25.9 C	31.0 C	4.5		
	D 46.9		E	34.0	28.6	A		
Approach Delay (s) Approach LOS	46.9 D			34.0 C	28.0 C			
Intersection Summary								
HCM 2000 Control Delay			37.9	Н	CM 2000	Level of Servi	ce D	
HCM 2000 Control Belay HCM 2000 Volume to Capa	city ratio		0.81	11	2000	2 20101 01 001 11		
Actuated Cycle Length (s)	only rullo		120.0	S	um of los	st time (s)	12.0	
Intersection Capacity Utiliza	ation		83.9%			of Service	12.0 E	
Analysis Period (min)	IIIOII		15	- 10	O LCVCI	OF JOI VICE	L	
c Critical Lane Group			10					

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4		ሻ	<b>†</b>	7	7	f <sub>a</sub>	
Traffic Volume (vph)	4	7	5	131	0	73	12	650	143	358	326	5
Future Volume (vph)	4	7	5	131	0	73	12	650	143	358	326	5
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		4.0			4.0		4.0	4.0	4.0	4.0	4.0	
Lane Util. Factor		1.00			1.00		1.00	1.00	1.00	1.00	1.00	
Frpb, ped/bikes		1.00			1.00		1.00	1.00	1.00	1.00	1.00	
Flpb, ped/bikes		1.00			1.00		1.00	1.00	1.00	1.00	1.00	
Frt		0.96			0.95		1.00	1.00	0.85	1.00	1.00	
Flt Protected		0.99			0.97		0.95	1.00	1.00	0.95	1.00	
Satd. Flow (prot)		1797 0.99			1752		1805	1900	1615	1805	1896	
Flt Permitted Satd. Flow (perm)		1797			0.97 1752		0.95 1805	1.00 1900	1.00 1615	0.95 1805	1.00 1896	
	0.00		0.00	0.00		0.00						0.00
Peak-hour factor, PHF	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98 333	0.98
Adj. Flow (vph)	4	7 5	5 0	134	106	74	12 0	663	146 60	365 0	333	5
RTOR Reduction (vph) Lane Group Flow (vph)	0	11	0	0	100	0	12	663	86	365	338	0
Confl. Peds. (#/hr)	U	11	U	U	102	U	12	003	00	300	330	U
	Cnlit	NA		Colit	NA		Drot	NΙΛ	nm . ov	Drot	NA	
Turn Type Protected Phases	Split 4	1NA 4		Split 8	NA 8		Prot 5	NA 2	pm+ov 8	Prot 1	NA 6	
Permitted Phases	4	4		0	0		3	Z	2	l I	Ü	
Actuated Green, G (s)		3.0			12.5		6.7	58.2	70.7	30.3	81.8	
Effective Green, g (s)		3.0			12.5		6.7	58.2	70.7	30.3	81.8	
Actuated g/C Ratio		0.02			0.10		0.06	0.49	0.59	0.25	0.68	
Clearance Time (s)		4.0			4.0		4.0	4.0	4.0	4.0	4.0	
Vehicle Extension (s)		3.0			3.0		3.0	3.0	3.0	3.0	3.0	
Lane Grp Cap (vph)		44			182		100	921	1005	455	1292	
v/s Ratio Prot		c0.01			c0.06		0.01	c0.35	0.01	c0.20	0.18	
v/s Ratio Perm		00.01			00.00		0.01	00.00	0.04	00.20	0.10	
v/c Ratio		0.25			0.56		0.12	0.72	0.09	0.80	0.26	
Uniform Delay, d1		57.4			51.1		53.8	24.4	10.7	42.0	7.4	
Progression Factor		1.00			1.00		0.80	0.59	0.07	1.00	1.00	
Incremental Delay, d2		3.0			3.9		0.4	3.5	0.0	9.8	0.5	
Delay (s)		60.4			55.1		43.6	17.8	0.7	51.9	7.9	
Level of Service		Е			Е		D	В	Α	D	Α	
Approach Delay (s)		60.4			55.1			15.1			30.7	
Approach LOS		Е			Е			В			С	
Intersection Summary												
HCM 2000 Control Delay			26.6	H	CM 2000	Level of S	Service		С			
HCM 2000 Volume to Capacit	ty ratio		0.71						4			
Actuated Cycle Length (s)			120.0		um of los				16.0			
Intersection Capacity Utilization	on		82.4%	IC	:U Level	of Service			Е			
Analysis Period (min)			15									
c Critical Lane Group												

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4		ሻ	₽		ሻ		7
Traffic Volume (vph)	113	3	38	70	3	2	44	573	101	1	580	120
Future Volume (vph)	113	3	38	70	3	2	44	573	101	1	580	120
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		4.0			4.0		4.0	4.0		4.0	4.0	4.0
Lane Util. Factor		1.00			1.00		1.00	1.00		1.00	1.00	1.00
Frpb, ped/bikes		0.99			1.00		1.00	1.00		1.00	1.00	0.97
Flpb, ped/bikes		1.00			1.00		1.00	1.00		1.00	1.00	1.00
Frt		0.97			1.00		1.00	0.98		1.00	1.00	0.85
Flt Protected		0.96			0.96		0.95	1.00		0.95	1.00	1.00
Satd. Flow (prot)		1759			1807		1805	1850		1805	1900	1569
FIt Permitted		0.96			0.96		0.95	1.00		0.95	1.00	1.00
Satd. Flow (perm)	0.00	1759	0.00	0.00	1807	0.00	1805	1850	0.00	1805	1900	1569
Peak-hour factor, PHF	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Adj. Flow (vph)	115	3	39	71	3	2	45	585	103	1	592	122
RTOR Reduction (vph)	0	12 145	0	0	75	0	0 45	4 684	0	0	0 592	44 78
Lane Group Flow (vph)	0	140	0 5	0	75	0 5	43	004	0 5	1	392	5
Confl. Peds. (#/hr)	Cnlit	NIA	<u> </u>	Colit	NΙΛ	ິ	Drot	NΙΛ	ິ	Drot	NΙΛ	
Turn Type Protected Phases	Split 4	NA 4		Split 8	NA 8		Prot 5	NA 2		Prot 1	NA 6	Perm
Permitted Phases	4	4		Ö	Ö		5	Z		ļ	0	4
Actuated Green, G (s)		11.8			7.1		3.7	41.6		1.2	39.1	6 39.1
Effective Green, g (s)		11.8			7.1		3.7	41.6		1.2	39.1	39.1
Actuated g/C Ratio		0.15			0.09		0.05	0.54		0.02	0.50	0.50
Clearance Time (s)		4.0			4.0		4.0	4.0		4.0	4.0	4.0
Vehicle Extension (s)		3.0			3.0		3.0	3.0		3.0	3.0	3.0
Lane Grp Cap (vph)		267			165		85	990		27	956	789
v/s Ratio Prot		c0.08			c0.04		c0.02	c0.37		0.00	0.31	707
v/s Ratio Perm		00.00			00.01		00.02	00.07		0.00	0.01	0.05
v/c Ratio		0.54			0.46		0.53	0.69		0.04	0.62	0.10
Uniform Delay, d1		30.5			33.5		36.1	13.3		37.7	13.9	10.1
Progression Factor		1.00			1.00		1.00	1.00		1.00	1.00	1.00
Incremental Delay, d2		2.3			2.0		5.8	2.1		0.6	1.2	0.1
Delay (s)		32.7			35.5		42.0	15.4		38.2	15.1	10.1
Level of Service		С			D		D	В		D	В	В
Approach Delay (s)		32.7			35.5			17.0			14.3	
Approach LOS		С			D			В			В	
Intersection Summary												
HCM 2000 Control Delay			18.2	Н	CM 2000	Level of	Service		В			
HCM 2000 Volume to Capaci	ty ratio		0.64			., , ,						
Actuated Cycle Length (s)			77.7		um of lost				16.0			
Intersection Capacity Utilizati	on		53.5%	IC	CU Level	of Service	!		Α			
Analysis Period (min)			15									
c Critical Lane Group												

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Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	*	7	ሻ	<b>↑</b>	<b>†</b>	7
Traffic Volume (veh/h)	0	48	355	0	0	0
Future Volume (Veh/h)	0	48	355	0	0	0
Sign Control	Stop			Free	Free	
Grade	0%			0%	0%	
Peak Hour Factor	0.75	0.75	0.75	0.75	0.75	0.75
Hourly flow rate (vph)	0	64	473	0	0	0
Pedestrians				5	5	
Lane Width (ft)				12.0	12.0	
Walking Speed (ft/s)				4.0	4.0	
Percent Blockage				0	0	
Right turn flare (veh)				, ,		
Median type				None	None	
Median storage veh)				140110	140110	
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	951	5	0			
vC1, stage 1 conf vol	701	J	J			
vC2, stage 2 conf vol						
vCu, unblocked vol	951	5	0			
tC, single (s)	6.4	6.2	4.1			
tC, 2 stage (s)	υ. τ	0.2	7.1			
tF (s)	3.5	3.3	2.2			
p0 queue free %	100	94	71			
cM capacity (veh/h)	206	1080	1636			
Direction, Lane #	EB 1	EB 2	NB 1	NB 2	SB 1	SB 2
Volume Total	0	64	473	0	0	0
Volume Left	0	0	473	0	0	0
Volume Right	0	64	0	0	0	0
cSH	1700	1080	1636	1700	1700	1700
Volume to Capacity	0.00	0.06	0.29	0.00	0.00	0.00
Queue Length 95th (ft)	0	5	30	0	0	0
Control Delay (s)	0.0	8.5	8.1	0.0	0.0	0.0
Lane LOS	А	Α	А			
Approach Delay (s)	8.5		8.1		0.0	
Approach LOS	А					
Intersection Summary						
Average Delay			8.1			
Intersection Capacity Utiliz	zation		23.0%	I/	III evel	of Service
Analysis Period (min)	Lation		15	IC	O LCVCI (	JI JEI VICE
Analysis Penou (IIIII)			10			

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EBL	EBR	NBL	NBT	SBT	SBR
ሻ	7	ሻ	<b>†</b>	î,	
0	0	0	0	0	0
0	0	0	0	0	0
Stop			Free	Free	
0%			0%	0%	
0.87	0.87	0.87	0.87	0.87	0.87
0	0	0	0	0	0
			5	5	
			12.0	12.0	
			4.0	4.0	
			0	0	
	10				
			None	None	
5	5	0			
5	5	0			
6.4	6.2	4.1			
3.5	3.3	2.2			
100	100	100			
1018	1080	1636			
EB 1	NB 1	NB 2	SB 1		
0	0	0	0		
0	0	0	0		
0	0	0	0		
1700	1700	1700	1700		
0.00	0.00	0.00	0.00		
0	0	0	0		
0.0	0.0	0.0	0.0		
Α					
0.0	0.0		0.0		
А					
		0.0			
on			IC	CU Level o	of Service
		15			
	5 5 6.4 3.5 100 1018 EB 1 0 0 0 1700 0.00 A 0.0	5 5 5 5 6.4 6.2 3.5 3.3 100 100 1018 1080 EB1 NB1 0 0 0 0 1700 1700 0.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5 5 0 6.4 6.2 4.1  3.5 3.3 2.2 100 100 100 1018 1080 1636 EB 1 NB 1 NB 2 0 0 0 0 0 0 0 0 1700 1700 1700 0.00 0.00 A 0.0 0.0 A	5 5 0  5 5 0  6.4 6.2 4.1  3.5 3.3 2.2 100 100 100 1018 1080 1636  EB 1 NB 1 NB 2 SB 1 0	Stop

	€	•	<b>†</b>	<b>/</b>	-	<b>↓</b>	
Movement	WBL	WBR	NBT	NBR	SBL	SBT	
Lane Configurations	¥		ĵ.			ર્ન	
Traffic Volume (veh/h)	0	0	0	0	0	Ö	
Future Volume (Veh/h)	0	0	0	0	0	0	
Sign Control	Stop		Free			Free	
Grade	0%		0%			0%	
Peak Hour Factor	0.68	0.68	0.68	0.68	0.68	0.68	
Hourly flow rate (vph)	0	0	0	0	0	0	
Pedestrians			5			5	
Lane Width (ft)			12.0			12.0	
Walking Speed (ft/s)			4.0			4.0	
Percent Blockage			0			0	
Right turn flare (veh)							
Median type			None			None	
Median storage veh)							
Upstream signal (ft)							
pX, platoon unblocked							
vC, conflicting volume	5	5			0		
vC1, stage 1 conf vol							
vC2, stage 2 conf vol							
vCu, unblocked vol	5	5			0		
tC, single (s)	6.4	6.2			4.1		
tC, 2 stage (s)							
tF (s)	3.5	3.3			2.2		
p0 queue free %	100	100			100		
cM capacity (veh/h)	1018	1080			1636		
Direction, Lane #	WB 1	NB 1	SB 1				
Volume Total	0	0	0				
Volume Left	0	0	0				
Volume Right	0	0	0				
cSH	1700	1700	1700				
Volume to Capacity	0.00	0.00	0.00				
Queue Length 95th (ft)	0	0	0				
Control Delay (s)	0.0	0.0	0.0				
Lane LOS	Α						
Approach Delay (s)	0.0	0.0	0.0				
Approach LOS	А						
Intersection Summary							
Average Delay			0.0				
Intersection Capacity Utiliza	ation		0.0%	IC	U Level o	of Service	
Analysis Period (min)			15				

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Movement	WBL	WBR	NBT	NBR	SBL	SBT	
Lane Configurations	W		<b>†</b>	7	ች	<b>†</b>	
Traffic Volume (veh/h)	1	33	58	4	26	0	
Future Volume (Veh/h)	1	33	58	4	26	0	
Sign Control	Stop		Free			Free	
Grade	0%		0%			0%	
Peak Hour Factor	0.64	0.64	0.64	0.64	0.64	0.64	
Hourly flow rate (vph)	2	52	91	6	41	0	
Pedestrians							
Lane Width (ft)							
Walking Speed (ft/s)							
Percent Blockage							
Right turn flare (veh)							
Median type			None			None	
Median storage veh)							
Upstream signal (ft)							
pX, platoon unblocked							
vC, conflicting volume	173	91			97		
vC1, stage 1 conf vol							
vC2, stage 2 conf vol							
vCu, unblocked vol	173	91			97		
tC, single (s)	6.4	6.2			4.1		
tC, 2 stage (s)							
tF (s)	3.5	3.3			2.2		
p0 queue free %	100	95			97		
cM capacity (veh/h)	799	972			1509		
Direction, Lane #	WB 1	NB 1	NB 2	SB 1	SB 2		
Volume Total	54	91	6	41	0		
Volume Left	2	0	0	41	0		
Volume Right	52	0	6	0	0		
cSH	964	1700	1700	1509	1700		
Volume to Capacity	0.06	0.05	0.00	0.03	0.00		
Queue Length 95th (ft)	4	0	0	2	0		
Control Delay (s)	9.0	0.0	0.0	7.5	0.0		
Lane LOS	A			Α			
Approach Delay (s)	9.0	0.0		7.5			
Approach LOS	А						
Intersection Summary							
Average Delay			4.1				
Intersection Capacity Utiliz	ation		18.1%	IC	U Level	of Service	
Analysis Period (min)			15	_			

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	<b>∱</b> β		ሻ	ħβ		ሻ	<b>∱</b> }		ሻ	<b>∱</b> β	
Traffic Volume (vph)	25	2	9	3	0	450	0	404	2	100	573	18
Future Volume (vph)	25	2	9	3	0	450	0	404	2	100	573	18
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0		4.0	4.0			4.0		4.0	4.0	
Lane Util. Factor	1.00	0.95		1.00	0.95			0.95		1.00	0.95	
Frt	1.00	0.88		1.00	0.85			1.00		1.00	1.00	
Flt Protected	0.95	1.00		0.95	1.00			1.00		0.95	1.00	
Satd. Flow (prot)	1805	3167		1805	3068			3607		1805	3593	
Flt Permitted	0.95	1.00		0.95	1.00			1.00		0.95	1.00	
Satd. Flow (perm)	1805	3167		1805	3068			3607		1805	3593	
Peak-hour factor, PHF	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Adj. Flow (vph)	26	2	9	3	0	464	0	416	2	103	591	19
RTOR Reduction (vph)	0	9	0	0	366	0	0	1	0	0	3	0
Lane Group Flow (vph)	26	2	0	3	98	0	0	417	0	103	607	0
Turn Type	Prot	NA		Prot	NA		Prot	NA		Prot	NA	
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases												
Actuated Green, G (s)	0.9	8.6		0.9	8.6			11.1		4.2	19.3	
Effective Green, g (s)	0.9	8.6		0.9	8.6			11.1		4.2	19.3	
Actuated g/C Ratio	0.02	0.21		0.02	0.21			0.27		0.10	0.47	
Clearance Time (s)	4.0	4.0		4.0	4.0			4.0		4.0	4.0	
Vehicle Extension (s)	3.0	3.0		3.0	3.0			3.0		3.0	3.0	
Lane Grp Cap (vph)	39	667		39	646			981		185	1699	
v/s Ratio Prot	c0.01	0.00		0.00	c0.03			0.12		c0.06	c0.17	
v/s Ratio Perm												
v/c Ratio	0.67	0.00		0.08	0.15			0.43		0.56	0.36	
Uniform Delay, d1	19.8	12.7		19.5	13.1			12.2		17.4	6.8	
Progression Factor	1.00	1.00		1.00	1.00			1.00		1.00	1.00	
Incremental Delay, d2	35.5	0.0		8.0	0.1			0.3		3.6	0.1	
Delay (s)	55.3	12.7		20.4	13.2			12.5		21.0	6.9	
Level of Service	Е	В		С	В			В		С	А	
Approach Delay (s)		42.7			13.3			12.5			9.0	
Approach LOS		D			В			В			Α	
Intersection Summary												
HCM 2000 Control Delay			11.9	Н	CM 2000	Level of 3	Service		В			
HCM 2000 Volume to Capa	acity ratio		0.37									
Actuated Cycle Length (s)			40.8		um of lost				16.0			
Intersection Capacity Utiliza	ation		53.0%	IC	CU Level	of Service	<u> </u>		Α			
Analysis Period (min)			15									

Analysis Period (min) c Critical Lane Group

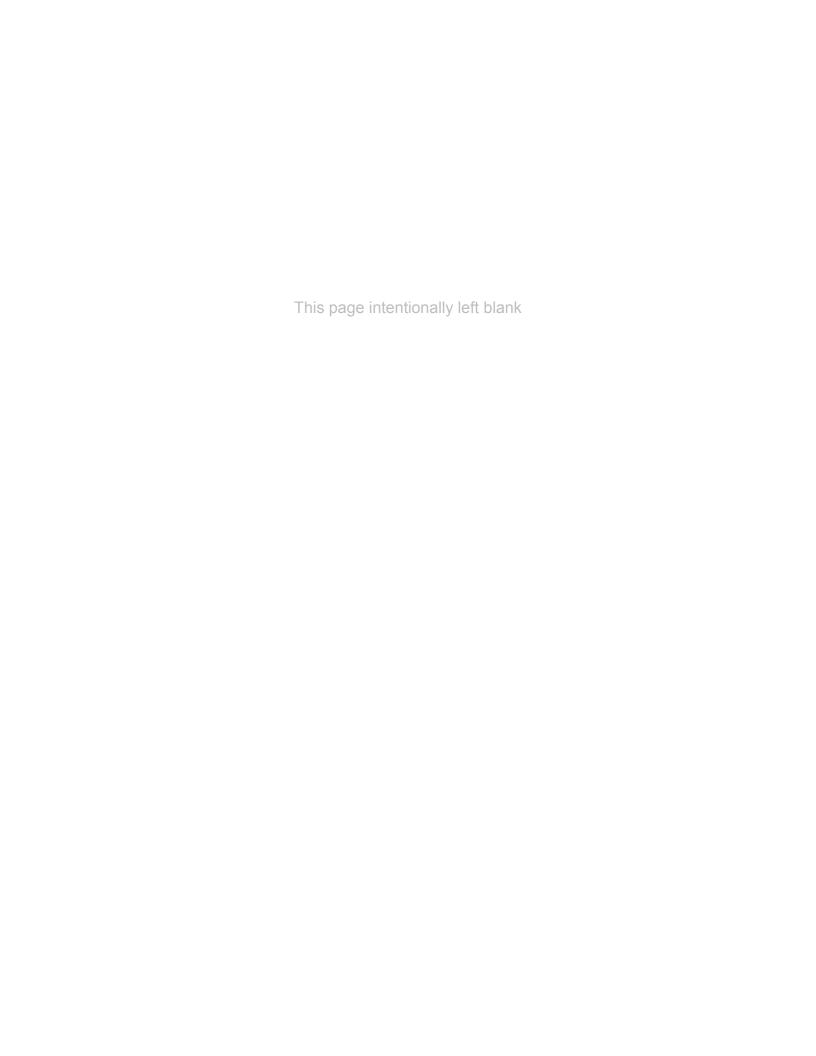
	۶	•	4	<b>†</b>	<b>↓</b>	✓	
Movement	EBL	EBR	NBL	NBT	SBT	SBR	
Lane Configurations	W		ሻ	<b>†</b>	<b>†</b>	7	
Traffic Volume (vph)	486	207	103	777	483	67	
Future Volume (vph)	486	207	103	777	483	67	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	
Total Lost time (s)	4.0		4.0	4.0	4.0	4.0	
Lane Util. Factor	1.00		1.00	1.00	1.00	1.00	
Frpb, ped/bikes	1.00		1.00	1.00	1.00	1.00	
Flpb, ped/bikes	1.00		1.00	1.00	1.00	1.00	
Frt Elt Drotootod	0.96		1.00	1.00	1.00	0.85	
Flt Protected	0.97 1762		0.95 1805	1.00 1900	1.00 1900	1.00	
Satd. Flow (prot) FIt Permitted	0.97		0.95	1.00	1.00	1615 1.00	
Satd. Flow (perm)	1762		1805	1900	1900	1615	
Peak-hour factor, PHF	0.96	0.96	0.96	0.96	0.96	0.96	
Adj. Flow (vph)	506	216	107	809	503	70	
RTOR Reduction (vph)	14	0	0	009	0	13	
Lane Group Flow (vph)	708	0	107	809	503	57	
Confl. Peds. (#/hr)	700	· ·	107	007	000	0,	
Turn Type	Prot		Prot	NA	NA	pm+ov	
Protected Phases	3		5	2	6	3	
Permitted Phases						6	
Actuated Green, G (s)	46.9		9.1	55.1	42.0	88.9	
Effective Green, g (s)	46.9		9.1	55.1	42.0	88.9	
Actuated g/C Ratio	0.43		0.08	0.50	0.38	0.81	
Clearance Time (s)	4.0		4.0	4.0	4.0	4.0	
Vehicle Extension (s)	3.0		3.0	3.0	3.0	3.0	
Lane Grp Cap (vph)	751		149	951	725	1363	
v/s Ratio Prot	c0.40		0.06	c0.43	0.26	0.02	
v/s Ratio Perm						0.02	
v/c Ratio	0.94		0.72	0.85	0.69	0.04	
Uniform Delay, d1	30.3		49.2	23.9	28.6	2.1	
Progression Factor	1.00		1.00	1.00	0.87	0.06	
Incremental Delay, d2	20.0		15.2	9.5	5.2	0.0	
Delay (s)	50.2		64.4	33.3	30.1	0.1	
Level of Service	D		E	C	C	A	
Approach LOS	50.2			37.0	26.4		
Approach LOS	D			D	С		
Intersection Summary							
HCM 2000 Control Delay			38.6	H	CM 2000	Level of Servic	9
HCM 2000 Volume to Capacity ratio 0.93							
Actuated Cycle Length (s) 110.0						st time (s)	
Intersection Capacity Utiliza	ation		87.1%	IC	U Level	of Service	
Analysis Period (min)			15				
c Critical Lane Group							

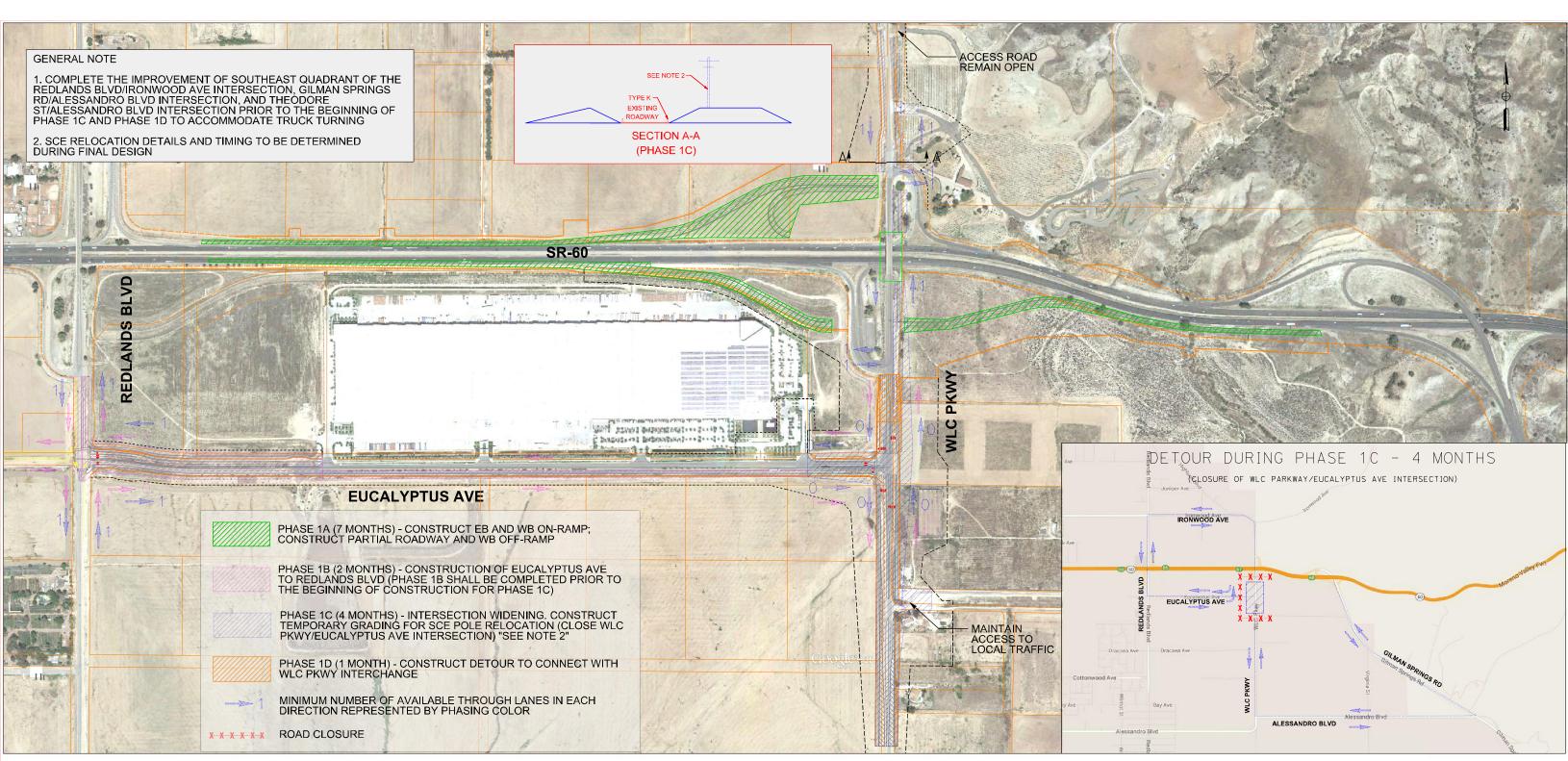
	۶	<b>→</b>	•	•	<b>←</b>	•	1	<b>†</b>	<i>&gt;</i>	<b>/</b>	<b>+</b>	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4		ሻ	<b>†</b>	7	Ť	î,	
Traffic Volume (vph)	2	13	8	73	0	37	12	749	502	346	469	5
Future Volume (vph)	2	13	8	73	0	37	12	749	502	346	469	5
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		4.0			4.0		4.0	4.0	4.0	4.0	4.0	
Lane Util. Factor		1.00			1.00		1.00	1.00	1.00	1.00	1.00	
Frpb, ped/bikes		1.00			1.00		1.00	1.00	1.00	1.00	1.00	
Flpb, ped/bikes		1.00			1.00		1.00	1.00	1.00	1.00	1.00	
Frt		0.95			0.95		1.00	1.00	0.85	1.00	1.00	
Flt Protected		1.00			0.97		0.95	1.00	1.00	0.95	1.00	
Satd. Flow (prot)		1800			1756		1805	1900	1615	1805	1897	
Flt Permitted		1.00			0.97		0.95	1.00	1.00	0.95	1.00	
Satd. Flow (perm)	0.04	1800	0.04	0.04	1756	0.04	1805	1900	1615	1805	1897	0.04
Peak-hour factor, PHF	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Adj. Flow (vph)	2	14 9	9	78	0 107	39	13 0	797	534	368	499 0	5
RTOR Reduction (vph)	0	16	0	0	107	0	13	0 797	208 326	0 368	504	0
Lane Group Flow (vph)	U	10	0	U	10	0	13	191	320	308	304	0
Confl. Peds. (#/hr)	Colit	NIA		Colit	NΙΛ		Drot	NΙΛ	n.ma . 01/	Drot	NΙΛ	
Turn Type Protected Phases	Split 4	NA 4		Split 8	NA 8		Prot 5	NA 2	pm+ov	Prot 1	NA 6	
Permitted Phases	4	4		Ö	Ö		5	Z	8	I	0	
Actuated Green, G (s)		4.6			9.7		3.6	57.5	67.2	22.2	76.1	
Effective Green, g (s)		4.6			9.7		3.6	57.5	67.2	22.2	76.1	
Actuated g/C Ratio		0.04			0.09		0.03	0.52	0.61	0.20	0.69	
Clearance Time (s)		4.0			4.0		4.0	4.0	4.0	4.0	4.0	
Vehicle Extension (s)		3.0			3.0		3.0	3.0	3.0	3.0	3.0	
Lane Grp Cap (vph)		75			154		59	993	1045	364	1312	
v/s Ratio Prot		c0.01			0.01		0.01	c0.42	c0.03	c0.20	0.27	
v/s Ratio Perm		00.01			0.01		0.01	00.12	0.17	00.20	0.21	
v/c Ratio		0.22			0.07		0.22	0.80	0.31	1.01	0.38	
Uniform Delay, d1		51.0			46.0		51.8	21.6	10.3	43.9	7.1	
Progression Factor		1.00			1.00		0.98	0.83	0.73	1.00	1.00	
Incremental Delay, d2		1.5			0.2		0.9	3.5	0.1	50.0	0.9	
Delay (s)		52.4			46.2		51.6	21.3	7.6	93.9	8.0	
Level of Service		D			D		D	С	Α	F	Α	
Approach Delay (s)		52.4			46.2			16.2			44.2	
Approach LOS		D			D			В			D	
Intersection Summary												
HCM 2000 Control Delay			28.4	Н	CM 2000	Level of S	Service		С			
HCM 2000 Volume to Capaci	ty ratio		0.78									
Actuated Cycle Length (s)			110.0		um of lost				16.0			
Intersection Capacity Utilization	on		81.6%	IC	CU Level	of Service			D			
Analysis Period (min)			15									
c Critical Lane Group												

	۶	<b>→</b>	*	•	<b>—</b>	•	1	†	<b>/</b>	<b>/</b>	Ţ	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4		ሻ	<b>₽</b>		ሻ	<b>↑</b>	7
Traffic Volume (vph)	108	18	25	41	6	4	19	741	39	2	753	198
Future Volume (vph)	108	18	25	41	6	4	19	741	39	2	753	198
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		4.0			4.0		4.0	4.0		4.0	4.0	4.0
Lane Util. Factor		1.00			1.00		1.00	1.00		1.00	1.00	1.00
Frpb, ped/bikes		1.00			1.00		1.00	1.00		1.00	1.00	0.97
Flpb, ped/bikes		1.00			1.00		1.00	1.00		1.00	1.00	1.00
Frt		0.98			0.99		1.00	0.99		1.00	1.00	0.85
Flt Protected		0.97			0.96		0.95	1.00		0.95	1.00	1.00
Satd. Flow (prot)		1785			1803		1805	1883		1805	1900	1567
Flt Permitted		0.97			0.96		0.95	1.00		0.95	1.00	1.00
Satd. Flow (perm)		1785			1803		1805	1883		1805	1900	1567
Peak-hour factor, PHF	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Adj. Flow (vph)	111	19	26	42	6	4	20	764	40	2	776	204
RTOR Reduction (vph)	0	7	0	0	3	0	0	1	0	0	0	34
Lane Group Flow (vph)	0	149	0	0	49	0	20	803	0	2	776	170
Confl. Peds. (#/hr)	0 111		5	0 111		5			5			5
Turn Type	Split	NA		Split	NA		Prot	NA		Prot	NA	Perm
Protected Phases	4	4		8	8		5	2		1	6	
Permitted Phases		10.0			4.0		2.2	F0 F		1.1	40.0	6
Actuated Green, G (s)		12.3			4.8		2.3	50.5		1.1	49.3	49.3
Effective Green, g (s)		12.3			4.8		2.3	50.5		1.1	49.3	49.3
Actuated g/C Ratio		0.15			0.06		0.03	0.60		0.01	0.58	0.58
Clearance Time (s) Vehicle Extension (s)		4.0 3.0			4.0 3.0		4.0 3.0	4.0 3.0		4.0 3.0	4.0 3.0	4.0 3.0
Lane Grp Cap (vph)		259			102		49	1122		23	1105	912
v/s Ratio Prot v/s Ratio Perm		c0.08			c0.03		c0.01	c0.43		0.00	0.41	0.11
v/c Ratio		0.58			0.48		0.41	0.72		0.09	0.70	0.11
Uniform Delay, d1		33.8			38.7		40.5	12.0		41.3	12.5	8.3
Progression Factor		1.00			1.00		1.00	1.00		1.00	1.00	1.00
Incremental Delay, d2		3.1			3.6		5.5	2.2		1.6	2.0	0.1
Delay (s)		36.9			42.3		46.0	14.2		42.9	14.6	8.4
Level of Service		J0.7			42.3 D		40.0 D	14.2 B		42.7 D	14.0 B	Α
Approach Delay (s)		36.9			42.3		U	15.0		D	13.3	
Approach LOS		D			D			В			В	
Intersection Summary												
HCM 2000 Control Delay			16.6	Н	CM 2000	Level of	Service		В			
HCM 2000 Volume to Capaci	ty ratio		0.68									
Actuated Cycle Length (s)			84.7	Sı	um of los	time (s)			16.0			
Intersection Capacity Utilization	on		58.7%	IC	U Level	of Service	)		В			
Analysis Period (min)			15									
c Critical Lane Group												

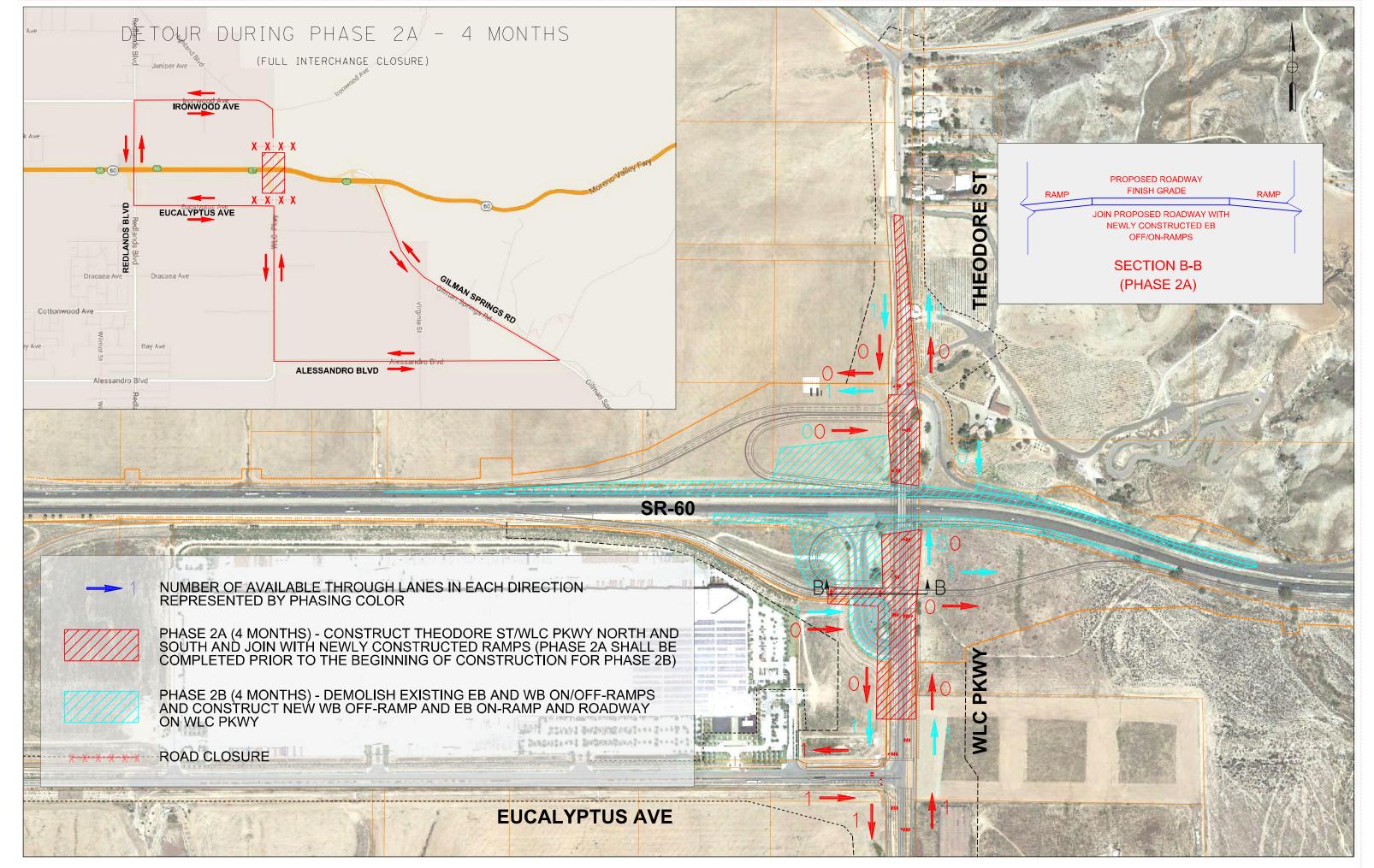
#### **Appendix D**

**Conceptual Construction Staging Exhibits** 

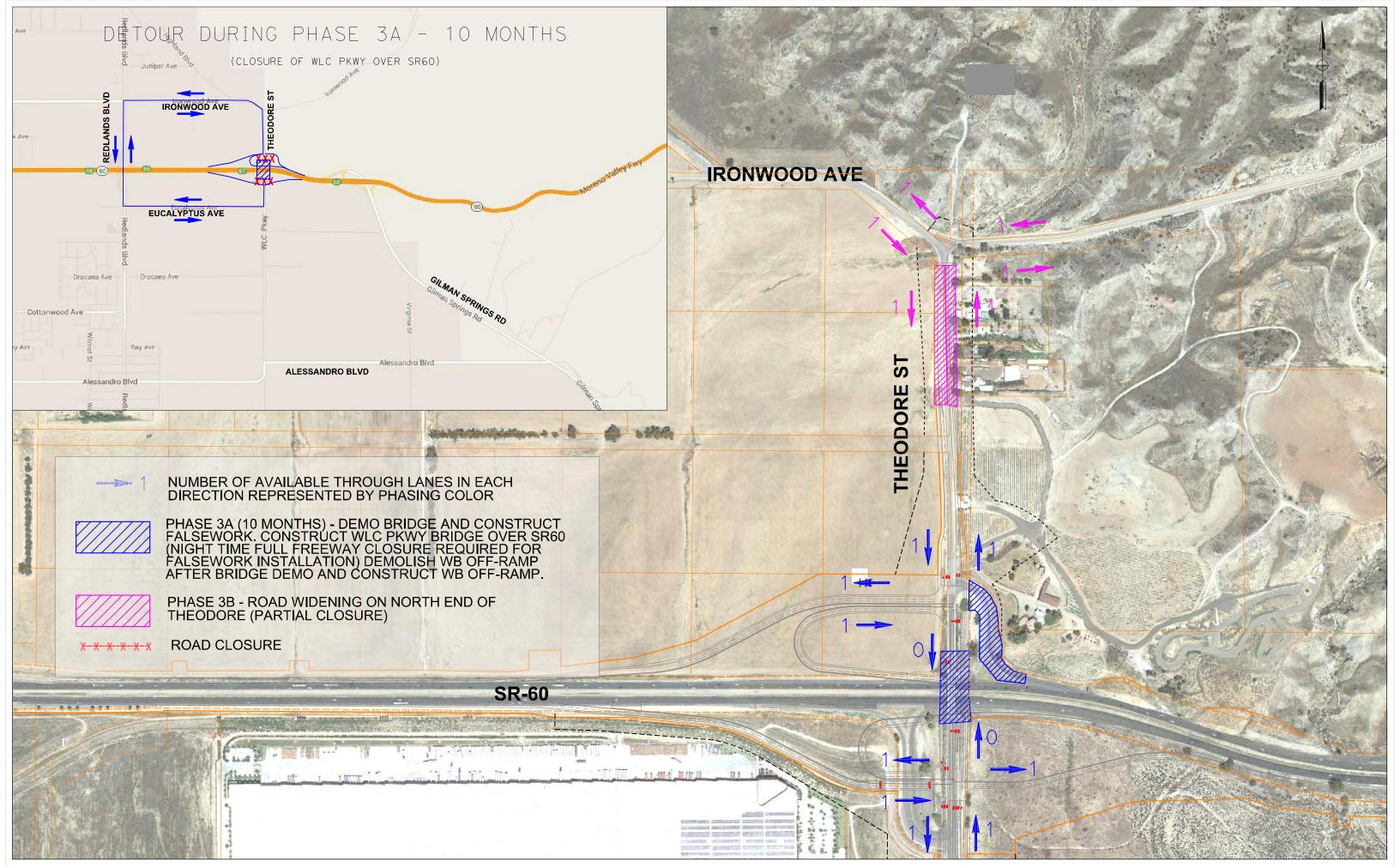




PHASE 1 (ESTIMATED CONSTRUCTION DURATION - 7 MONTHS)



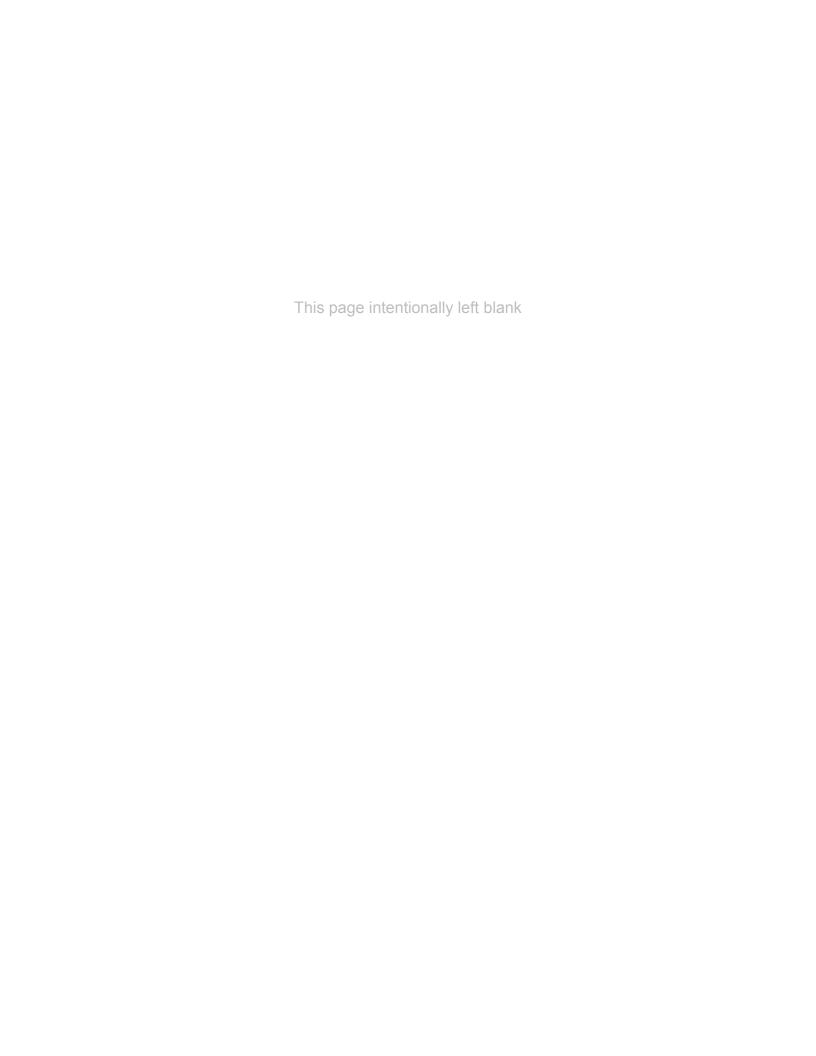
PHASE 2 (ESTIMATED CONSTRUCTION DURATION - 6 MONTHS)



PHASE 3 (ESTIMATED CONSTRUCTION DURATION - 10 MONTHS)

### **Appendix E**

**Transportation Management Plan** 



For DTM	1 use		Ca	Itrans D	istrict 8 (Rivers	ide & San Berna	ardino)		
Developer					TMP Data Sheet	(Ver. Mar. 2018)		1	
· ·	Manageme	nt Plan (TMP)	Data Shee	at is for PI	D PSP PP and PS	S&F considering DI		dity of this	TMP evnires
Transportation	i <del>M</del> anageme	THE FIGHT (TIVIL)				iated LRCs expires		alty Of this	Tivii expires
		The 1	TMP Data SI	heet includ	es background & sig	nature, TMP element	s & TMP estimate		
			Requ	iester: <i>C</i> o	omplete section (A	N) & (B) of this pag	ie only		
	Requeste	er: Submit sepa	arate reque	st for each	roadway (Type the	information in the ce	lls below with yellow backgroun	d ONLY)	
			'		3 . 31	Please note that		,	
		Project sha	Il not be c	ertified wi			irement Charts (LRCs)		
		, , oject ena		or timed in	& the TMP by	· ·	morriorit orianto (21100)		
(A) Degreests	rio info				& the twi b	y the DTM			
(A) Requeste			10/	23/2018		2 Demontración		т	raffic
3 - Full name	ı			e La Garza		<ul><li>2 - Department</li><li>4 - Phone No.</li></ul>	619-338-		Tarric
5 - email address			joe.delaga	arza@wsp.d	<u>com</u>				
6 - Project Manag				don Reyes		  -			
7 - Project Manag	er's email	<u>br</u>	andon.reye	<u>s@mbakeri</u>	ntl.com				
(B) Project in	formation				1-EA#/ID#	OM5	90/0813000109		
2-County/Route	rommation.		Rivers	side/SR-60		3-phase/sub object	PA/ED		
4-Post mile (From-	•				PM R14.1/F				
5-Short description		w WDC	Re	econstruct I	nterchange at World	d Logistics Center Par	rkway in the City of Moreno Vall	ey	
6-Estimated start	ction period pe	07/01/22	8-# of work	ing days	450	1			
7-Estimated end of			9-Estimated		\$ 90,000,000	•			
10- Requester: Use section (H), in the bottom of the page, to									
11- Documents to send Requester: Please attach the location map in jpeg/pdf format to your E-mail  12- If hard copies are requested, Send or bring them to the DTM office located on the south side of 11th. Floor, Attn: Al Afaneh. Questions: call 383-6262									
12- Il Hard copies	are requested	, send or bring tr	iem to the D		mail the request to: al		Aldrien.	Questions. C	.aii 303-0202
					·				
Following i	s for DTM ເ	<i>use</i> >>>>>	>>>>>	Developer:	Fill info in green cells o	only			
C) BACKGROUNE	INFORMATI	ON		Date	request received		Job assigned to		
# of working days		450				7			
Estimated Project of TMP estimate(\$)	cost (\$)	90,000,000 \$697,402	Equal to		Of the project cost	1			
(+)		\$577710 <u>L</u>	Equa. to	0.,,,,			!		
D) IMPACT	High	Medium	Low	N/A		J	mpact/mitigation): Closure of t		
State Hwy. Local road	X						hange will impact the State Higl detours have been developed to		
Ramp/connector	X				traffic circulation.				
							I		
E) Developer: Co						1			T + 0 / 0 0 / 0 0 1 0
Developed by Title		Joe De La Garza ransportation Er	naineer	Orig	jinal signed by:		X	Date	10/23/2018
E-mail		elagarza@wsp.o							
Phone/Fax		619) 338-9376							
				1		1	A1.05		T
F) Approved by Name:	Al Afaneh			Orig	jinal signed by:		Al Afaneh	Date	10/23/18
Title	District Traff	fic Manager							
E-mail	al.afaneh@d	<u> </u>							
Phone/Fax	909-383-626								
		<del>,                                      </del>				1			
G) District's i			7						
Department of T		 	]						
District: Address:	8 464 W. Fourt	I th St., San Bern	ardino Ca	92401-14	.00				
Operations, DTM, N		711	laramo, oa.	, ,2101 11		†			
			ocated on t	he North si	de of 7th. Fl. Enter f	from the open door 8	k turn left. MS: 711		
H) Remarks						•			
, Romans									

		TMP Elements	EA #/ID#	OM590/0813000109	Date	10	0/23/2018
		Note: A checkmark in the box means yo	ou need to incl	ude this in the project unles	ss staging, material, or w	ork ho	ur changes
		eliminate the need for the item. A ? in	front means T	MP anticipates this - please	check into this. A blank	box m	eans the
		item is not needed at this time based or					
		Public Affairs officer's 1st. & last name		Phone number			
		Public Information/Public Awarene	ess Campaign (F	AC)			
	1	Developer: Remember to obtain the esti				Est	imated Cost
		contacting Terri Kasinga. Procedure is in t	he file under 3-	TMP matters			
•		BEES 066063 (Traffic Management Plan-Publ	ic Information)	Cost to be			
		reduced by Public Affairs (PA) and Constructi					
		under State Furnished as the total of PA+0	CL.				
	1.1	Include Rideshare information in PA/CL pr	oject material to	o encourage			
	1.0	vehicles reduction in work area  Brochures and Mailers				¢.	1E 000
	—	<ul><li>Brochures and Mallers</li><li>Media Releases (&amp; minority media source:</li></ul>	z)			\$ \$	15,000 10,000
		Paid Advertising	3)			\$	5,000
		Public Meetings/PAC Mtgs./Speakers Bure	au (show cost a	Iso for room		\$	30,000
		rental)					
		Hand deliver notices to vicinity	_			\$	10,000
		<ul><li>☐ Broadcast fax service</li><li>☐ Telephone Hotline OR</li></ul>				dr.	10.000
		Telephone Hotiline OR       1-800-COMMUTE (The telephone number)	is shown on CS	Info signs) -		\$	10,000
	1.7	T ded delimited (The telephone hamber	13 3110WIT 011 00	Till O Signs)			
		Visual Information (videos, slide shows, e	tc.)				
		Local cable TV and News				\$	5,000
		☐ Traveler Information System (Internet)					40.000
		<ul><li>✓ Internet, E-mail, Social Media</li><li>✓ Notification to targeted groups:</li></ul>				\$	10,000
	1.14	Revised Transit Schedules/maps					
		Rideshare organizations					
		☐ schools					
		☐ organizations representing people with	n disabilities				
		bicycle organizations					
	1.15 1.16					Φ.	
	1.10	(TIP) group	oriei Trailic Inioi	mation people		\$	_
	1.17					\$	_
		"A representative of the Contractor, at Su	nerintendent lev	vel or higher		•	
		and authorized to commit the Contractor,					
		all Public Awareness Campaign meetings.		ent for the			
		meeting(s) varies from two to four hours	per month."				
	1.18	Other					
					Section 1 Total	\$	95,000
ĺ	2	Traveler Information Strategies					
ı		Project team needs to coordinate wi	th Traffic Des	siant			
	2.1	Existing Overhead Changeable Message S					
		New Installation (Stationary) - BEES 8609	32 CHANGEABL	E MESSAGE			
		SIGN SYSTEM - list locations					
	2.2	☑ Portable Changeable Message Signs (PCM)	MS) - BEES 0665	78			
		This strategy is in addition to Traffic Design	an's DCMS for ro	gular traffic bandling within the	project limits and is used	T	
		for advising motorists to divert at remote	•	9			
		for advanced motorist information - e.g. a	week ahead. 1	heir placement may need to be	cleared environmentally.		
		Placement should be of sufficient distance	prior to decisio	n points as determined by the f	Resident Engineer.		
		Was DOMO A		<b>*</b> 1.000.00	40	7 4	7,
		# of PCMS 4	Init cost/month	\$ 1,000.00 Months ne	eeded 19	\$	76,000
	2.3	✓ Lane Closure System Website				\$	_
		<ul> <li>✓ Caltrans Highway Information Network (C</li> </ul>	HIN)			\$	_
		Radar Speed Message Sign (Specter sign)		approx. EA @ \$30,000)		*	
	2.6	☐ Bicycle and pedestrian information, e.g. □	etour maps				
	2.7	Automated Workzone Information System					
		- consult with TMP Developer prior to upd	_				
	2.0	- refer to Section 12-3.35, page 156 to 15  ☐ Other	o8 of the 2015 S	tandard Spec.			
	2.0	— 501161					

1

TMP Elements	EA #/ID#	OM590/0813000109	Date	10/23/2018
			Section 2 Total	\$ 76,000
		·		

			Section 2 Total	\$	76,000
ſ	3	Incident Management			
	3 1	CHP's Construction or Maintenance Zone Enhanced Enforcement Program - COZEEP or MAZE	P REES 066062 -	ĺ	

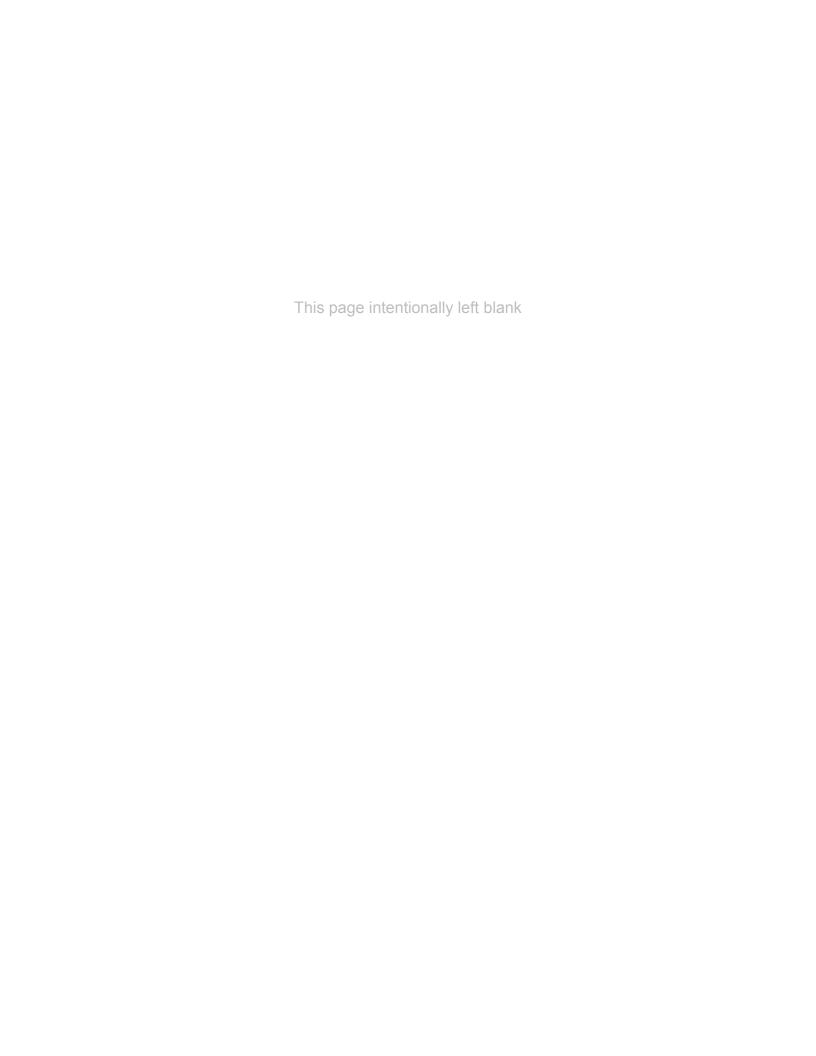
Enhanced Enforcement Program – COZEEP or MAZEEF show under "State or Agency furnished" in the Cost Estimate. Make sure to consider the LC hours and add CHP driving time to/from their office Day COZEEP: To protect active closures hours/day **CHP** vehicles # of officers 0 8 100 Night COZEEP: To protect active closures # of officers. Nights need 2 # of nights hours/night CHP vehicles Rate/Hr. 130 8 100 416,000 3.2 Freeway Service Patrol (FSP) for Construction (CFSP) BEES 066065 - show under "State or Agency furnished" in the Cost Estimate Short duration or remote area CFSP usually is bid with much higher hourly rates. If enhancement of program FSP feasible, CFSP could tie into the lower long-term FSP rates. # of days # of trucks Hours per day A For service within the regular FSP hours \$0 For service outside the regular FSP hours B Extended Peak hour coverage \$0 0 0 C Support during night closure 10 \$4,400 D Weekend support 0 0 \$0 Local agency (SAFE) support 8% \$352 8% of truck cost CFSP CHP support \$0 5% of truck cost only if within regular FSP and area Equipment/Supplies 10% \$440 % of truck cost unless more detail available Consult with the Inland Empire division of CHP or the border division in the southern Riverside county to select the method which is acceptable for the B,C,D that are outside the regular FSP hours or area. Method 1 CFSP/CHP support 20% \$880 20% of truck cost or CFSP Dispatcher @ # of days # of nights hours # of FSP Rate # of FSP vehicles CFSP CHP Officers (See Cozeep rate) # of CHP vehicles # of days # of nights hours # of officers Rate 45.00 Cooperative Agreement or Task Order with SAFE **✓** Task Order with CHP (State-wide Master Agreement for FSP support). \$880 Contact District FSP Coordinator for task orders. Service Contract Local Agency will arrange CFSP with SAFE Local Agency will arrange CFSP administration with CHP 3.2 Total \$6,072

	TMP Elements	EA #/ID#	OM590/0813000109	Date	10	0/23/2018
3.3	☐ Other			Section 3 Total	\$	422,072
4	Construction Strategies					•
4	Contact DTM, at 909-383-6262, to get Delay list. Inform DTM of any concerns/commitmerestrictions; if work may be affected by snow operations lane openings which may increas vary significantly between seasons, consider	ents regarding sp v and low or high e traffic impact v	pecial LC days, times, seasons, even n temperatures. E.g. excessive heat when vehicles overheat in the queue	ts; environmental may delay HMA		
	This TMD pressures a that would be planted as	halau If diffana	mt TMD procedo to be provided. The Dr	ainst Frances shall	ι Γ	
4.1	This TMP presumes that work is planned as ensure all appropriate lane requirement characteristics.		nt, TMP needs to be revised. The Pr	oject Engineer shall		
	☑ Off peak ☑ Night					
4.2	<ul><li>✓ Weekend</li><li>Expected facility closures and requirements</li></ul>					
	Flagging					
	☑ Shoulder ☑ Lane					
	☑ Street					
	<ul><li>☑ Ramp</li><li>☑ Connector*</li></ul>	İ	*Consult with TMP developer and the	o DTM regarding	ſ	
	✓ Extended Weekend Closures* ✓ Total Facility Closures*		COZEEP & other costs. Provide prop diversion plans for review.			
	CAUTION: If the Lane Requirement Chart (L	RC) for full main	line closures, of one or both direction	ns on a highway or		
	freeway, does not show the maximum numb					
4.3	Coordinate with adjacent ongoing and pla	anned constructi	on projects - also on detour routes.			
4.4 4.5	<ul><li>☑ BEES 066008 Incentives</li><li>☑ Strictly enforce construction CPM schedu</li></ul>	le				
4.6	10-Min. Delay Contact DTM at 90 Penalty	09-838-6262 for	10 Min. Delay Penalty Calculations.			
4.7	Other				_	
				Section 4 Total	\$	
5	Demand Management (DM)	(0.4.4.0.)				
	Project team needs to coordinate with RCTC  Traffic diversion may increase available work					
5.1	A co-op will be executed - mentioned in F	PSR or PR.			T	
	Instead of a co-op, 15% is added to the of through the contractor.	cost of DM eleme	ents since the payment to the local a	gency will be routed		
	Instead of a co-op, the local agency will i		<del>-</del>			
5.2	PA/CL or local agency need to inform con  HOV Lanes/Ramps (New or Convert)	nmuters through	RCTC/SANBAG. Funds part of PA/C	L.		
5.3	Park-and-Ride Lots	معما طفانين سر	and the manufactory			
5.4 5.5	<ul><li>□ Parking Management/Pricing (Coordination</li><li>□ BEES 066067 Rideshare Promotion</li></ul>	on with local age	ncy is required)			
5.6	☑ Other			Costion F Total	Φ.	
6	Alternate Route Strategies			Section 5 Total	\$	
	Caution - signed detours may require environ Please work with Traffic Design. BEES 06606			ailable work hours.		
6.1 6.2	<ul><li>☐ Add Capacity to Freeway connector</li><li>☑ Ramp Closures</li></ul>					
6.3	<ul><li>Temporary Highway Lanes or Shoulder U</li></ul>	se				
6.4	Parking Restrictions				¢	F0 000
6.5	<ul><li>✓ Street Improvements</li><li>☐ State R/W - Signals, Widen, etc.</li><li>☐ Local R/W - Signals, Widen, etc. co-operations</li></ul>	p or permit may	be needed		\$	50,000
6.6 6.7	<ul><li>✓ Local Street USE - co-op or Permit may b</li><li>✓ Traffic Control Officers (see 3.1 COZEEP)</li></ul>	e needed				
6.8	Signed detour - using State routes					
6.9 6.10	<ul><li>✓ Signed detour - using local streets and ro</li><li>✓ Adjust signals</li></ul>	oads. Coordinate	e with corresponding local agency.		\$	50,000
6.11	☐ Temporary bicycle or pedestrian facilities					
6.12	✓ Other			Section 6 Total	\$	100,000
				Jootton o rotal	Ψ	100,000

		TMP Estimate			
Developed by	Joe De La Garza	EA#/ID#	OM590/0813000109	Date	10/23/2018
TMP develo	oper: Amounts under the cos	st column will autor	matically be copied from t	he TMP	elements
TMP Elements					Cost
1. Public Information					\$95,000
2. Motorist Informati	on Strategies				\$76,000
3. Incident Managem	nent				\$426,402
4. Construction Strat	regies				\$0
5. Demand Managem	nent (DM)				\$0
6. Alternate Route St	trategies			r	\$100,000
Total TMP Estimate				Ĺ	\$ 697,402

### **Appendix F**

**Lane Closure Request Form** 





### District 8 - DTM/TMP Service Request Project Phase: 0 Phase

	roject maser je i mae	,-	
<i>Caltrans</i> ° R	equest Type: 🕡 TN	ИР LRC	SSP
			Submit date: 11/05/2018
			Requested by date: 11/19/2018
	A) Reques	ter Information	
Contact Name: Joe De L			lress: joe.delagarza@wsp.com
Division: -			ne #: 619-338-9376
Project Manager: Rebecca	Young		Iress: RYoung@mbakerintl.com
		Pho	ne #: 909-974-4976
	B) Proje	ct Information	1
Project EA: 0M590	Project ID: 0	813000109	Phase/Subobject: PA/ED
County: RIV Ro	oute: SR-60	Postr	niles: PM R14.1/R15.26
Direction: EB,WB No	earest cross street: <u>V</u>	Vorld Logistics Cent	er Parkway
Provide work description:	E	stimated Capital	Cost: \$ 90,000,000.00
Reconstruct Interchang	e at World Logistic	es Center Park	way in the City of Moreno Valley
Treconstruct interchang	e at world Logistic	5 Center Park	way in the City of Moreno valley
Type of Work	: Construction	Working I	Days: 450
Ready to List (RTL) Date	2:	Construction I	Date: 07/01/2022
	C) Requested	Closure Inforn	nation
Road Profile: Level	Estima	ated Work Shift H	ours Required: 7
	<del></del>		·
Requested Closure Work Wi	ndows (select all that	apply)	
	. —		nd Extended Weekend
Daytime Nigh	ttime 🔽 Weekda	ay 🔽 Weeker	Extended Weekend
Full, Directional, list di	ections: EB/WB		
Requested Facility Closure (	select all that apply)		
Shoulder Lane	<b>✓</b> Ramp	Connec	tor 🗸 Local Street
	D) Traffic Har	ndling Informa	 etion
/ K rail utilizat	tion - List Postmiles: 2		
ت ا	_		
Proposed Lar	e Width with K-rail: <u>1</u>		
Median Shoulder Width	ı: <u>12'                                      </u>	Outside S	houlder Width: 10'
Detours Requ	ired:	No	Yes, Consult Traffic Design
	Addition	nal Information	
The project is staged to phases of construction	reduce the duration that would require	on of interchang closure of ram	to construct the interchange. ge closure. There would be other ps or some turning movements at vork install and removal.

Attach project location map to the service request.

Project EA: 0M590	County: RIV
Project ID: 0813000109	Route: SR-60
	Postmile: 20 -22

No.	Facility	Direction	Postmile	No. of	No. of	Proposed Work Requiring	Remarks
	Type			Existing Lanes	Lanes to be Closed	Closure	
1	Onramp	EB	21.265	1	1	Ramp Work	Demolish and install new ramp
2	Offramp	EB	21.265	1	1	Ramp Work	Demolish and install new ramp
3	Onramp	WB	21.460	1	1	Ramp Work	Demolish and install new ramp
4	Offramp	WB	21.460	1	1	Ramp Work	Demolish and install new ramp
5	-	-				-	
6	-	-				-	
7	-	-				-	
8	-	-				-	
9	-	-				-	
10	-	-				-	
11	-	-				-	
12	-	-				-	
13	-	-				-	
14	-	-				-	
15	-	-				-	
16	-	-				-	
17	-	-				-	
18	-	-				-	
19	-	-				-	
20	-	-				-	
21	-	-				-	
22	-	-				-	
23	-	-				-	
24	-	-				-	
25	-	-				-	

<sup>\*</sup> Continuous ramp closures of more than 10 days requires Environmental approval.

#### DTM Service Request - Lane and Profile Information

Project EA:	0M590
Project ID:	0813000109

County: RIV
Route: SR-60

Postmile: 20 -22

No.	Starting Postmile	Ending Postmile	Direction	No. of Existing Lanes	Profile Grade %	Uphill or Downhill	Profile Description	Remarks
1	20.26	21.95	EB	2		-	Level	Install and take down falsework
2	22.00	20.47	WB	2		-	Level	Install and take down falsework
3			-			-	Level	
4			-			-	Level	
5			-			-	Level	
6			-			-	Level	
7			-			-	Level	
8			-			-	Level	
9			-			-	Level	
10			-			-	Level	
11			-			-	Level	
12			-			-	Level	
13			-			-	Level	
14			-			-	Level	
15			-			-	Level	