Traffic Impact Study for the:

Retail and Industrial Development Project

In the City of Rialto

December 2021



# TRAFFIC IMPACT STUDY FOR THE PROPOSED RETAIL AND INDUSTRIAL DEVELOPMENT PROJECT IN THE CITY OF RIALTO

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# TRAFFIC IMPACT STUDY FOR THE PROPOSED RETAIL AND INDUSTRIAL DEVELOPMENT IN THE CITY OF RIALTO

## I. INTRODUCTION

# A. Purpose of the TIA and Study Objectives

This Traffic Impact Study has been prepared to address the traffic-related effects of the proposed retail and industrial development in the City of Rialto.

This study has been conducted in accordance with the traffic study requirements of the City of Rialto, based on the City's *Traffic Impact Analysis Guidelines for Vehicle Miles Traveled (VMT) and Level of Service (LOS) Assessment* (October 2021), and in accordance with San Bernardino Association of Governments (SANBAG) Congestion Management Program (CMP) requirements.

This study addresses existing and future traffic conditions, taking into account the project trips to be generated by the project and potential project-related effects on the surrounding circulation system.

This report includes a description of existing traffic conditions in the surrounding area, estimated project trip generation and distribution, future traffic growth, and an assessment of project-related effects on the roadway system. Where necessary, circulation system improvements have been identified to achieve acceptable intersection operation in the vicinity of the project.

The project will be evaluated for the following conditions:

- Existing Conditions
- Opening Year 2022 Without Project (Existing Plus Ambient Growth Plus Cumulative Projects)
- Opening Year 2022 With Project (Existing Plus Ambient Growth Plus Cumulative Projects Plus Project)

# B. Site Plan Location and Study Area

The project is located on the southwest corner of the intersection of Riverside Avenue and Senior Way in the City of Rialto, north of the Interstate 10 (I-10) in the City of Rialto. The project site is shown in its regional setting on a vicinity map on Figure 1. The project site is bounded by shopping center retail to the north and south, Riverside Avenue to the East, and Willow Avenue to the West.





FIGURE 1 VICINITY MAP SOURCE: NEARMAP



# C. Development Project Identification

The Development Project Identification will be determined upon further discussion with City staff.

# D. Development Project Description

The project will involve the construction of a shopping center with 79,676 square feet of retail use, 9,660 square feet of fast-food restaurant with drive-through use, 3,596 square feet of automated car wash use, and 83,272 square feet of general light industrial use on the currently vacant site. A copy of the project site plan is provided on Figure 2.

Vehicular access provisions for the project site would consist of the following:

- Two full-movement signalized driveways on Riverside Avenue;
- One right-in, right-out (RIRO) only unsignalized driveway on Riverside Avenue;
- One full-movement unsignalized driveway on Willow Avenue.

For purposes of this analysis, the proposed opening year for the project is Year 2022. The project will be developed in a single project phase. The project site is located approximately 1,400 feet west of the City of Colton border.





FIGURE 2 PROJECT SITE PLAN



# E. Analysis Methodology

# Intersection Analysis – HCM Methodology

Peak hour intersection operations at signalized and unsignalized intersections were evaluated using the methods prescribed in the Highway Capacity Manual (HCM) 6<sup>th</sup> Edition, consistent with the requirements of the City of Rialto and the San Bernardino County CMP.

The City of Rialto guidelines require analysis of traffic operations to be based on the vehicular delay methodologies of the HCM (Transportation Research Board Special Report 209). The intersection analysis for the proposed project has been accomplished using the Trafficware SYNCHRO program and using the specified input parameters outlined in the City's Traffic Impact Analysis Guidelines.

Per the HCM Methodology, Level of Service (LOS) for signalized intersections is defined in terms of average vehicle delay. Specifically, LOS criteria are stated in terms of the average control delay per vehicle for the peak 15-minute period within the hour analyzed. The charts on the following page provide a description of the operating characteristics of each Level of Service and define the LOS in terms of average seconds of delay for signalized and unsignalized intersections.

# 2. Level of Service Standards and Measure of Significance

The City of Rialto, per the City of Rialto 2010 General Plan Update, establishes minimum Level of Service standards. According to Policy 4-1.20 of the General Plan document, the City requires that signalized intersections operate at LOS D or better during the morning and evening peak hours. The City's Traffic Study Guidelines require new development to mitigate effects that cause the Level of Service to fall below LOS D, or cause the peak hour delay to increase as follows:

- LOS A/B by 10.0 seconds
- LOS C by 8.0 seconds
- LOS D by 5.0 seconds
- LOS E by 2.0 seconds
- LOS F by 1.0 second

The City's traffic study guidelines require unsignalized intersections to operate with no vehicular movement having an average delay exceeding 120 seconds during the morning and evening peak hours.

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

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

Source: Highway Capacity Manual (HCM 6<sup>th</sup> Edition), Exhibit 18-4.
 Source: Highway Capacity Manual (HCM 6<sup>th</sup> Edition), Exhibits 19-1 and 20-2.

# 3. Roadway Segment Analysis

The roadway segment analysis will address the project's effect on daily operating conditions on roadway segments within the project vicinity. Roadway segments are evaluated by comparing the daily traffic volume on a roadway segment to the daily capacity of that segment, to determine the volume-to-capacity (V/C) ratio. Daily capacity is based on the roadway classification, as shown in the following chart:

CITY OF RIALTO ROADWAY CAPACITY (1)								
Doodway Classification	No. of	lo. of Two-Way Traffic Volume (ADT) <sup>(2)</sup>						
Roadway Classification	Lanes	Service Level C	Service Level D	Service Level E				
Local	2	2,500-2,799	2,800-3,099	3,100 +				
Collector (60' or 64')	2	9,900-11,199	11,200-12,499	12,500 +				
Industrial (45')	2	9,900-11,199	11,200-12,499	12,500 +				
Arterial <sup>(3)</sup>	2	14,400-16,199	16,200-17,999	18,000 +				
Secondary Highway	4	16,900-19,399	19,400-21,999	22,000 +				
Modified Arterial (100')	4	26,200-29,599	29,600-32,999	33,000 +				
Arterial (120')	6	38,700-44,099	44,100-49,499	49,500 +				

#### Notes:

- (1) All capacity figures are based on optimum conditions and are intended as guidelines for planning purposes only
- (2) Maximum two-way ADT values are based on the 1999 Modified Highway Capacity Manual Level of Service Tables.
- (3) Two-lane roads designated as future arterials that conform to arterial design standards for vertical and horizontal alignments are analyzed as arterials.

Source: City of Rialto Traffic Impact Analysis Guidelines for VMT and LOS Assessment (2021)

The minimum acceptable LOS for roadway segments in the City of Rialto is D, except for Riverside Avenue south for the Metrolink tracks all the way to the City's southern border, which can operate at LOS E.

According to the City's Traffic Study Guidelines, a roadway segment must mitigate their impact if the segment exceeds 1,500 feet and the V/C ratio exceeds 1.0, even if improved intersection at the ends of the segment do not exceed LOS D.

## II. AREA CONDITIONS

# A. Identify Study Area and Intersections

This traffic study includes documentation of existing conditions, analysis of cumulative traffic conditions, and identification of project-related effects at the following study intersections:

# **Existing Intersections:**

- 1. San Bernardino Avenue at Lilac Avenue
- 2. San Bernardino Avenue at Willow Avenue
- 3. San Bernardino Avenue at Riverside Avenue
- 4. Riverside Avenue at Senior Way
- 6. Riverside Avenue at Gateway Plaza/Value Center
- 8. Valley Boulevard at Willow Avenue
- 9. Valley Boulevard at Gateway Plaza/Value Center
- 10. Valley Boulevard at Riverside Avenue
- 11. Riverside Avenue at I-10 WB Ramps
- 12. Riverside Avenue at I-10 EB Ramps

# Future Driveway Intersections:

- 5. Riverside Avenue at Project Driveway
- 7. Willow Avenue at Project Driveway

In addition, the following roadway segments were analyzed:

- Riverside Avenue: Rialto Marketplace to Senior Way
- Riverside Avenue: Gateway Plaza/Value Center to Valley Boulevard
- Willow Avenue: Valley Boulevard to San Bernardino Avenue
- Valley Boulevard: Willow Avenue to Riverside Avenue

The study locations were established in conjunction with City staff through the Scoping Agreement process (Exhibit A of the City of Rialto *Traffic Impact Analysis Guidelines for VMT and LOS Assessment*). A copy of the Approved Scoping Agreement is provided in *Appendix A*.

# B. Description of Existing Roads, Traffic Controls and Intersection Geometrics

Regional access to the site is provided primarily by the Interstate 10 (I-10) Freeway, to the south of the project site. Access to I-10 is available on the ramps along Riverside Avenue. In addition, the I-215 Freeway is located approximately 4.3 miles to the east of the site, and access to the SR-210 Freeway is approximately 4.3 miles to the west of the site.

Existing lane configurations and intersection controls at the study intersections are shown on Figure 3. The following provides a description of the roadways surrounding the project site.

San Bernardino Avenue – San Bernardino Avenue is designated as a Secondary Arterial in the City of Rialto General Plan, which would provide four travel lanes with two lanes in each direction within the project vicinity. San Bernardino Avenue traverses the City in an east-west direction, turning into Olive Street to the east. The posted speed limit on San Bernardino Avenue is 35 miles per hour (mph).

Riverside Avenue – Riverside Avenue is designated as a Modified Major Arterial II in the City of Rialto General Plan near the project vicinity, which would provide 6 travel lanes with three lanes in each direction and a raised median, east of the project. Riverside Avenue traverses the City in a north-south direction. The posted speed limit on Riverside Avenue is 40 mph.

Valley Boulevard – Valley Boulevard is designated as a Major Arterial in the City of Rialto General Plan, which would provide 4 travel lanes with 2 lanes in each direction and a two-way left-turn lane (TWLTL). Valley Boulevard traverses the City in an east-west direction. The posted speed limit on Valley Boulevard is 40 mph.

Lilac Avenue – Lilac Avenue is designated as a Collector Street in the City of Rialto General Plan, which would provide 2 travel lanes with 1 lane in each direction. Lilac Avenue traverses the City in a north-south direction. The posted speed limit on Lilac Avenue is 45 mph, and 25 mph near Joe Baca Middle School when children are present.

Willow Avenue – Willow Avenue is designated as a Collector Street in the City of Rialto General Plan, which would provide 2 travel lanes with 1 lane in each direction. Willow Avenue traverses the City in a north-south direction. The posted speed limit on Willow Avenue is 45 mph.

# C. Existing Traffic Volumes

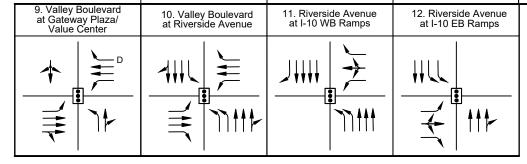
Existing morning peak period (7:00 to 9:00 AM) and evening peak period (4:00 to 6:00 PM) turning movement counts, as well as 24-hour roadway segment counts, were collected for the study intersections and study roadway segments. The counts were completed in September, 2021. Copies of the traffic count data worksheets are provided in *Appendix B*. Existing morning peak hour volumes, evening peak hour volumes, and daily roadway volumes are presented on Figure 4.



NOT TO SCALE



San Bernardino Avenue     at Lilac Avenue	San Bernardino Avenue     at Willow Avenue	San Bernardino Avenue at Riverside Avenue	Riverside Avenue at Senior Way		
	#\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	#\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			
<ol><li>Riverside Avenue at Project Driveway</li></ol>	6. Riverside Avenue at Gateway Plaza/ Value Center	7. Willow Avenue at Project Driveway	8. Valley Boulevard at Willow Avenue		
Future Intersection	#\ <del>\</del>	Future Intersection			



LEGEND:

= Study Intersection

= Turn or Through Lane

= Signal

= Stop Sign

= Defacto Right Turn

FIGURE 3 EXISTING LANE CONFIGURATION AND TRAFFIC CONTROL







San Bernardino Avenue     at Lilac Avenue	San Bernardino Avenue at Willow Avenue	San Bernardino Avenue at Riverside Avenue	Riverside Avenue     at Senior Way
28/17 7 8 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	70/84 -70/84	77/131 \\ \tag{233/342}	620/1482 → 15/4 8/2 → 15/4
<ol><li>Riverside Avenue at Project Driveway</li></ol>	6. Riverside Avenue at Gateway Plaza/ Value Center	7. Willow Avenue at Project Driveway	8. Valley Boulevard at Willow Avenue
Future Intersection	29/36 29/36 29/36 29/36 29/36 29/36 29/36 29/36 29/36 29/36 29/36 29/36 29/36 29/36 29/36 29/36 29/36 29/36 20	Future Intersection	20/50 7 580/729 0/5 7 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
•			

9. Valley Boulevard at Gateway Plaza/ Value Center	10. Valley Boulevard at Riverside Avenue	11. Riverside Avenue at I-10 WB Ramps	12. Riverside Avenue at I-10 EB Ramps		
20	31/88 - 147/152 31/88 - 147/152 31/88 - 147/152 31/88 - 147/152 31/88 - 147/152 31/88 - 147/152	252/283 → 458/283 - 1084/800 - 1084/800	216/2202 248/438 348/438 348/438		

FIGURE 4 EXISTING TRAFFIC VOLUMES LEGEND:

**X** = Study Intersection

**XX/YY** = AM/PM Peak Hour

Volumes

X,XXX = Average Daily Traffic Volume



# D. Existing Delay and Level of Service

# Peak Hour Operating Conditions

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

Review of this table indicates that all study intersections currently operate at an acceptable Level of Service. Copies of Existing Conditions intersection analysis worksheets are provided in *Appendix C*.

# Daily Roadway Operating Conditions

Roadway Level of Service analysis was conducted based on the roadway capacities presented previously in this report. The results of the roadway analysis for Existing Conditions are shown on Table 2.

Review of this table indicates that the study roadway segments are currently operating within their current Level of Service D capacity.

#### E. Transit Service

Transit service to the project area is provided via the OmniTrans transit lines, which serve various San Bernardino cities in the area. Bus stops in the project vicinity are located along Riverside Avenue, San Bernardino Avenue, and Valley Boulevard. A description of the bus routes serving the project area is provided below.

OmniTrans Route 19 operates between the City of Fontana and the City of Yucaipa, traveling through Rialto along San Bernardino Avenue in the project vicinity. Route 19 operates on weekdays from 4:49 AM to 10:33 PM with approximately 30-minute to 60-minute headways (the time between bus arrivals), on Saturdays from 5:20 AM to 9:42 PM with approximately 1-hour headways, and on Sundays from 6:40 AM to 7:08 PM with approximately 1-hour headways.

OmniTrans Route 22 operates between the City of Rialto and the City of Colton along Riverside Avenue and Valley Bouelvard in the project vicinity. Route 22 operates on weekdays from 5:05 AM to 9:43 PM with approximately 1-hour headways, on Saturdays from 7:13 AM to 7:28 PM with approximately 1-hour headways, and on Sundays from 7:28 AM to 7:28 PM with approximately 1-hour headways.

# TABLE 1 SUMMARY OF INTERSECTION OPERATION EXISTING CONDITIONS

		Traffic	AM Peak Hour		PM Pea	k Hour
Int.#	Intersection	Control	Delay	LOS	Delay	LOS
1	San Bernardino Ave at Lilac Ave	U	13.9	В	12.6	В
2	San Bernardino Ave at Willow Ave	U	23.1	С	27.3	D
3	San Bernardino Ave at Riverside Dr	S	30.1	С	34.6	С
4	Riverside Dr at Senior Wy	S	2.2	А	3.3	Α
5	Riverside Dr at Project Dwy	Future				
6	Riverside Dr at Gateway Plaza/Value Ctr	S	4.6	А	7.8	А
7	Willow Ave at Project Dwy	Future				
8	Valley Blvd at Willow Ave	S	22.1	С	21.2	С
9	Valley Blvd at Gateway Plaza/Value Ctr	S	20.6	С	19.3	В
10	Valley Blvd at Riverside Dr	S	17.5	В	16.9	В
11	Riverside Dr at I-10 WB Ramps	S	12.0	В	11.9	В
12	Riverside Dr at I-10 EB Ramps	S	9.9	Α	18.2	В

# Notes:

- Delay values for unsignalized intersections represent the average vehicle delay on the worst (highest delay) intersection approach.

# TABLE 2 SUMMARY OF ROADWAY ANALYSIS EXISTING CONDITIONS

Roadway	Segment	Roadway Classification	LOS Capacity <sup>1</sup>	Existing ADT	V/C	LOS
Riverside Avenue	Senior Way to Rialto Marketplace	Modified Major Arterial II	49,499	35,827	0.724	С
Kiverside Averide	Gateway Plaza/Value Center to Valley Boulevard	Modified Major Arterial II	49,499	21,071	0.426	Α
Willow Avenue	Valley Boulevard to San Bernardino Avenue	Collector Street	12,499	4,864	0.389	Α
Valley Boulevard	Willow Avenue to Riverside Avenue	Major Arterial <sup>2</sup>	35,998	20,264	0.563	А

Notes: <sup>1</sup> Source: City of Rialto Traffic Impact Analysis Guidelines for VMT and LOS Asssessment (2021).

LOS = Level of Service

ADT = Average Daily Traffic

V/C = Volume to Capacity

<sup>&</sup>lt;sup>2</sup> Valley Boulevard currently provides 4 lanes in this segment of the roadway. The daily capacity for a 2-lane arterial has been factored proportionately to reflect 4 lanes.

# III. PROJECTED FUTURE TRAFFIC

A. Opening Year 2022 Without Project (Existing Plus Ambient Growth Plus Cumulative Projects)

# 1. Ambient Growth Rate

An ambient growth rate of 2.0% per year to Opening Year 2022 was applied to existing peak hour traffic volumes to develop the base Opening Year 2022 forecasts.

# 2. Cumulative Projects

In addition to ambient growth, traffic volumes for Cumulative Projects (approved and pending projects) were added to the base Opening Year 2022 traffic volumes. Cumulative Projects consist of any project that has been approved and is not yet occupied, and projects that are in various stages of the application and approval process, but have not yet been approved.

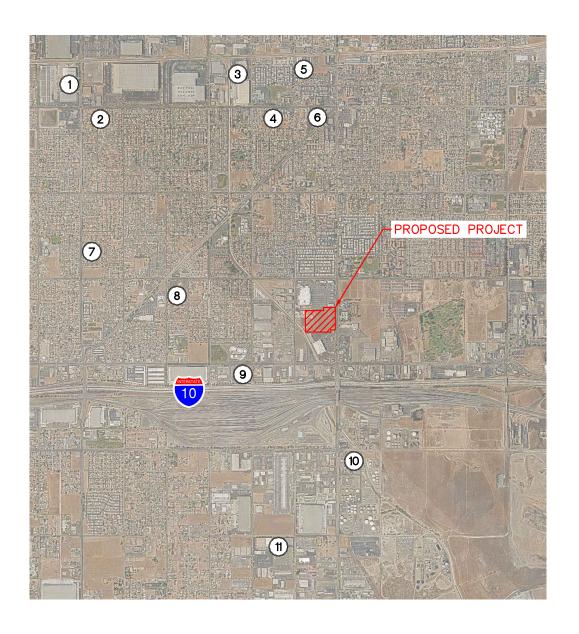
A summary of Cumulative Projects in the project vicinity and the trip generation associated with each is provided on Table 3. The locations of the Cumulative Projects are shown on Figure 5. Cumulative Project traffic volumes are shown on Figure 6. Cumulative Project Trip Distribution and Trip Assignment sheets are provided in *Appendix D*.

The Opening Year 2022 Without Project traffic volumes, and are shown on Figure 7.

TABLE 3 SUMMARY OF CUMULATIVE PROJECTS

					Trip Generation Estimates						
Proj #	Description	Land Use	Quantity	Units	AM Peak			our	PN	PM Peak Hour	
			Quantity	Ullits	Daily	In	Out	Total	In	Out	Total
1	NWC Cedar Ave and Merrill Ave	Warehousing	127.990	KSF	223	17	5	22	7	18	25
2	N/S Merrill Ave, 250' E of Cedar Ave	Manufacturing	4.500	KSF	18	2	1	3	1	2	3
3	NWC of Lilac Ave and Merrill Ave	Single-Family Detached Housing	65	DU	614	12	36	48	41	24	65
4	364 W Merrill Ave	Single-Family Detached Housing	2	DU	19	0	1	1	1	1	2
5	Bonnie View Dr and Willow Ave	Single-Family Detached Housing	29	DU	274	5	16	21	18	11	29
6	164 W Merrill Ave	Senior Adult Housing-Detached	70	DU	299	6	11	17	13	8	21
7	Cedar Ave, between Woodcrest St and Miramont St	Single-Family Detached Housing	10	DU	94	2	6	8	6	4	10
8	San Bernardino Ave, between Spruce Ave and Idylwild Ave	Single-Family Detached Housing	19	DU	179	4	11	15	12	7	19
9	515 W Valley Blvd	Automobile Sales (New)	4.642	KSF	129	6	2	8	5	7	12
10	Slover Ave, 190' W of Riverside Ave	Recreational Vehicle Sales	17.000	KSF	85	7	1	8	4	9	13
11	SWC of Santa Ana Ave and Willow Ave	Manufacturing	47.447	KSF	186	23	7	30	10	22	32
Total	Project Trips				2,120	84	97	181	118	113	231

DU = Dwelling Unit, KSF = 1,000 square feet



NOT TO SCALE

LEGEND:



**X** = Cumulative Project Location

FIGURE 5

CUMULATIVE PROJECT LOCATIONS

SOURCE: NEARMAP









San Bernardino Avanue     at Lilac Avenue		. San Bernardino Avenue at Willow Avenue		San Bernardino Avenue at Riverside Avenue						le Avenue or Way
←2/5		←2/5	4/9→	←2/5	4/9→					
4/3→	4/3-	<b>&gt;</b>	4/3→	2/7→		2/7→				
5. Riverside Aver at Project Drivew	at Gate	6. Riverside Avenue at Gateway Plaza/ Value Center		7. Willow Avenue at Project Driveway		Boulevard Avenue				
Future Intersec	tion	2/7	Future Intersection				0/1→	<b>←1/1</b>		

9. Valley Boulevard at Gateway Plaza/ Value Center	10. Valley Boulevard at Riverside Avenue	11. Riverside Avenue at I-10 WB Ramps	12. Riverside Avenue at I-10 EB Ramps
0/1→	0/1 ← 0/1	\frac{\fin}}}{\fint}}}}}}}}{\frac}\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\	1/4 7 ↑ 7 2/1 3 5%

FIGURE 6 CUMULATIVE PROJECT TRAFFIC VOLUMES

# LEGEND:



**X** = Study Intersection

**XX/YY** = AM/PM Peak Hour

Volumes XXX = Average Daily Traffic

Volume









1	. San Bernardino Avenue at Lilac Avenue	San Bernardino Avenue     at Willow Avenue	San Bernardino Avenue at Riverside Avenue	Riverside Avenue     at Senior Way		
_	29/17   7-4/32   -201/341   -46/35   -4	14/17 → 17/86 14/17 → 18/28 → 19/8 14/17 → 18/28 →	21/352 → 109/10	634/1519 → 128/1031		
	5. Riverside Avenue at Project Driveway	<ol> <li>Riverside Avenue at Gateway Plaza/ Value Center</li> </ol>	7. Willow Avenue at Project Driveway	8. Valley Boulevard at Willow Avenue		
F	Future Intersection	22/13 24/101	Future Intersection	20/51 7 6/6  20/51 7 7 6/7  20/51 7 7 6/7  20/51 7 7 6/7  20/51 7 7 6/7		

9. Valley Boulevard at Gateway Plaza/ Value Center	10. Valley Boulevard at Riverside Avenue	11. Riverside Avenue at I-10 WB Ramps	12. Riverside Avenue at I-10 EB Ramps
8	32/90 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\$20/61110/889 ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	250/2312 250/449 250/449

FIGURE 7 OPENING YEAR 2022 WITHOUT PROJECT TRAFFIC VOLUMES



**X** = Study Intersection

**XX/YY** = AM/PM Peak Hour

Volumes

X,XXX = Average Daily Traffic Volume



# 3. Opening Year 2022 Without Project Delay and Level of Service

# Peak Hour Operating Conditions

Intersection Level of Service analysis was conducted for the morning and evening peak hours using the analysis procedures and assumptions described previously in this report. The results of the intersection analysis for the Opening Year 2022 Without Project scenario are shown on Table 4.

Review of this table indicates that all study intersections would continue to operate at an acceptable Level of Service. Copies of Opening Year 2022 Without Project intersection analysis worksheets are provided in *Appendix C*.

# Daily Roadway Operating Conditions

Roadway Level of Service analysis was conducted based on the roadway capacities presented previously in this report. The results of the roadway analysis for Opening Year 2022 Without Project are shown on Table 5.

Review of this table indicates that the study roadway segments are currently operating within their current Level of Service D capacity.

# B. Project Traffic

## 1. Project Trip Generation

Trip generation estimates for the project are based on daily and peak hourly trip generation rates obtained from the Institute of Transportation Engineers (ITE) <u>Trip Generation Manual</u> (11<sup>th</sup> Edition). ITE trip generation estimates for the project are based on the trip generation rates for the following ITE Land Uses: ITE Land Use 110 – General Light Industrial; and ITE Land Use 821 – Shopping Plaza (40K-150K). It is assumed that trips generated by the shopping plaza are all passenger vehicle trips. According to the ITE 10<sup>th</sup> Edition Supplement, the trips generated by the light industrial use would be 92% passenger vehicles and 8% trucks. The City of Rialto TIA Report Guidelines specify a truck split of 70% of trucks being 4+-axle, 28% of trucks being 3-axle, 2% of trucks being 2-axle. These truck classification splits were applied to the daily and peak hour trip generation to develop an estimate of truck volumes by number of axles which would be associated with the proposed project.

TABLE 4
SUMMARY OF INTERSECTION OPERATION
OPENING YEAR 2022 WITHOUT PROJECT

		Traffic	AM Peal	k Hour	PM Peal	k Hour
Int.#	Intersection	Control	Delay	LOS	Delay	LOS
1	San Bernardino Ave at Lilac Ave	U	14.2	В	13.0	В
2	San Bernardino Ave at Willow Ave	U	24.5	С	29.4	D
3	San Bernardino Ave at Riverside Dr	S	30.8	С	37.4	D
4	Riverside Dr at Senior Wy	S	2.2	А	3.3	Α
5	Riverside Dr at Project Dwy	Future				
6	Riverside Dr at Gateway Plaza/Value Ctr	S	4.6	А	8.0	А
7	Willow Ave at Project Dwy	Future				
8	Valley Blvd at Willow Ave	S	22.1	С	20.7	С
9	Valley Blvd at Gateway Plaza/Value Ctr	S	20.6	С	19.2	В
10	Valley Blvd at Riverside Dr	S	18.1	В	17.6	В
11	Riverside Dr at I-10 WB Ramps	S	12.2	В	12.3	В
12	Riverside Dr at I-10 EB Ramps	S	10.2	В	19.4	В

# Note:

- Delay values for unsignalized intersections represent the average vehicle delay on the worst (highest delay) intersection approach.

# TABLE 5 SUMMARY OF ROADWAY ANALYSIS OPENING YEAR 2022 WITHOUT PROJECT

Roadway	Segment		Opening Year ADT	Cumulative Projects ADT	Opening Year + Cumulative Projects ADT	V/C	LOS
Riverside Avenue	Senior Way to Rialto Marketplace	49,499	36,544	120	36,664	0.741	С
Kiverside Averide	Gateway Plaza/Value Center to Valley Boulevard	49,499	21,492	120	21,612	0.437	А
Willow Avenue	Valley Boulevard to San Bernardino Avenue	12,499	4,961	0	4,961	0.397	Α
Valley Boulevard	Willow Avenue to Riverside Avenue	35,998	20,669	13	20,682	0.575	А

Notes: <sup>1</sup> Source: City of Rialto Traffic Impact Analysis Guidelines for VMT and LOS Asssessment (2021)

ADT = Average Daily Traffic

V/C = Volume to Capacity

Passenger car equivalent (PCE) factors were then applied to the truck types, based on number of axles (1.5 PCE for 2-axle trucks, 2.0 PCE for 3-axle trucks, and 3.0 PCE for 4+-axle trucks) to determine the total PCE volumes to be generated by the project. The trip generation rates and PCE factors, and the resulting trip generation estimates for the project, are summarized on Table 6. With the PCE factors, the project is estimated to generate 6,396 PCE trips on a daily basis, with 290 PCE trips in the morning peak hour, and 628 PCE trips in the evening peak hour.

Not all trips from the project are anticipated to be new. Some trips are expected to be captured by the internal land uses, or from the existing flow of traffic passing the site. Internal capture and pass-by were applied to the project based on discussion with the City and methodology within the City of Rialto TIA Report Guidelines.

# 2. Trip Distribution and Assignment

Trip distribution assumptions for the project were developed by taking into account the proposed site uses, and the routes to and from the freeway system for the vehicles. Trip distribution assumptions are shown on Figure 8. The resulting project-related trips are shown on Figure 9. Pass-by volumes which are shown on Figure 10 were then added to the project-related trips to determine total project traffic volumes. The resulting project volumes are shown on Figure 11.

C. Opening Year 2022 With Project (Existing Plus Ambient Growth Plus Cumulative Projects Plus Project)

# Peak Hour Operating Conditions

The total proposed project traffic volumes were added to the Opening Year 2022 Without Project traffic volumes to determine the Opening Year 2022 With Project conditions. The resulting Opening Year 2022 With Project traffic volumes are shown on Figure 12. Intersection Level of Service analysis was conducted for the morning and evening peak hours, and the results of this analysis are shown on Table 7. Intersection analysis worksheets for this scenario are provided in *Appendix C*.

Review of this table indicates that with the addition of project traffic, all study intersections would operate at an acceptable Level of Service.

# Daily Roadway Operating Conditions

Roadway Level of Service analysis was conducted based on the roadway capacities presented previously in this report. The results of the roadway analysis for Opening Year 2022 With Project conditions are shown on Table 8.

Review of this table indicates that the study roadway segments would continue to operate within their current Level of Service D capacity with the addition of Project traffic.

# TABLE 6 SUMMARY OF PROJECT TRIP GENERATION

					Trip Ge	eneration R	Rates <sup>1</sup>		
	ITE		AM Peak Hour PM Peak Hour				ur		
Land Use	Code	Unit	Daily In Out Total In Ou				Out	Total	
Shopping Plaza (40K - 150K)	821	KSF	94.490	2.189	1.341	3.53	4.334	4.696	9.03
General Light Industrial	110	KSF	4.870	0.651	0.089	0.74	0.091	0.559	0.65

				Trip Generation Estimates						
					А	M Peak Ho	ur	Р	M Peak Ho	ur
Land Use		Quantity	Unit	Daily	In	Out	Total	In	Out	Total
Shopping Plaza (40K - 150K)	_	93.023	KSF	8,790	204	125	329	403	437	840
	Internal C	apture 10% <sup>2</sup>	-879	-20	-13	-33	-40	-44	-84	
		P	ass-by 25% <sup>2</sup>	-1,978	-46	-28	-74	-91	-98	-189
General Light Industrial 83.272 KSF			406	54	7	61	8	47	55	
Passenger Vehicles	92.00%			374	50	6	56	7	43	50
Trucks	8.00%			32	4	1	5	1	4	5

## GENERAL LIGHT INDUSTRIAL PROJECT TRIPS - PASSENGER CAR EQUIVALENTS (PCE)

Vehicle Type	Vehicle	Daily	PCE Factor <sup>2</sup>		A	M Peak Ho	ur	Pl	M Peak Ho	ur
vernicie Type	Mix <sup>2</sup>	Vehicles	PGE PACIOI	Daily	In	Out	Total	In	Out	Total
Passenger Vehicles	92.00%	374	1.0	374	50	6	56	7	43	50
2-Axle Trucks	0.16%	1	1.5	2	0	0	0	0	0	0
3-Axle Trucks	2.24%	9	2.0	18	2	0	2	0	2	2
4+ Axle Trucks	5.60%	23	3.0	69	9	1	10	1	8	9
Total Truck PCE Trips				89	11	1	12	1	10	11
Total Proposed Project PCE Trips				463	61	7	68	8	53	61
Total Project Trips				6,396	199	91	290	280	348	628

Source: Institute of Transportation Engineers (ITE) <u>Trip Generation Manual</u>, 11th Edition

<sup>&</sup>lt;sup>2</sup> Source: City of Rialto Traffic Impact Analysis Report Guidelines and Requirements

# TABLE 6 SUMMARY OF PROJECT TRIP GENERATION

					Trip Ge	eneration R	Rates <sup>1</sup>		
	ITE		AM Peak Hour PM Peak Hour				ur		
Land Use	Code	Unit	Daily In Out Total In Ou				Out	Total	
Shopping Plaza (40K - 150K)	821	KSF	94.490	2.189	1.341	3.53	4.334	4.696	9.03
General Light Industrial	110	KSF	4.870	0.651	0.089	0.74	0.091	0.559	0.65

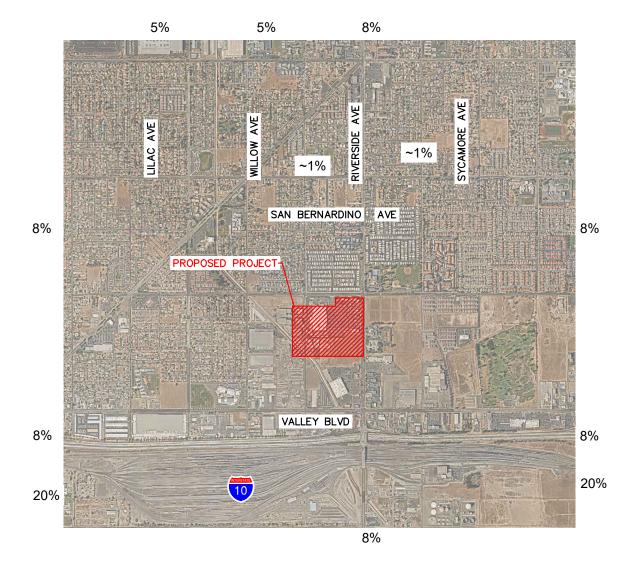
				Trip Generation Estimates						
					А	M Peak Ho	ur	Р	M Peak Ho	ur
Land Use		Quantity	Unit	Daily	In	Out	Total	In	Out	Total
Shopping Plaza (40K - 150K)	_	93.023	KSF	8,790	204	125	329	403	437	840
	Internal C	apture 10% <sup>2</sup>	-879	-20	-13	-33	-40	-44	-84	
		P	ass-by 25% <sup>2</sup>	-1,978	-46	-28	-74	-91	-98	-189
General Light Industrial 83.272 KSF			406	54	7	61	8	47	55	
Passenger Vehicles	92.00%			374	50	6	56	7	43	50
Trucks	8.00%			32	4	1	5	1	4	5

## GENERAL LIGHT INDUSTRIAL PROJECT TRIPS - PASSENGER CAR EQUIVALENTS (PCE)

Vehicle Type	Vehicle	Daily	PCE Factor <sup>2</sup>		A	M Peak Ho	ur	Pl	M Peak Ho	ur
vernicie Type	Mix <sup>2</sup>	Vehicles	PGE PACIOI	Daily	In	Out	Total	In	Out	Total
Passenger Vehicles	92.00%	374	1.0	374	50	6	56	7	43	50
2-Axle Trucks	0.16%	1	1.5	2	0	0	0	0	0	0
3-Axle Trucks	2.24%	9	2.0	18	2	0	2	0	2	2
4+ Axle Trucks	5.60%	23	3.0	69	9	1	10	1	8	9
Total Truck PCE Trips				89	11	1	12	1	10	11
Total Proposed Project PCE Trips				463	61	7	68	8	53	61
Total Project Trips				6,396	199	91	290	280	348	628

Source: Institute of Transportation Engineers (ITE) <u>Trip Generation Manual</u>, 11th Edition

<sup>&</sup>lt;sup>2</sup> Source: City of Rialto Traffic Impact Analysis Report Guidelines and Requirements





NOT TO SCALE

LEGEND:
Project Site

XX% Trip Distribution Percentage

PROJECT TRIP DISTRIBUTION ASSUMPTIONS SOURCE: NEARMAP

FIGURE 8





NOT TO SCALE



	ardino Avenue Avenue	2. San Bernai at Willow		3. San Bernai at Riversid		4. Riversid at Senid	
17/23→	5/17 ←7/29	27/37→	←12/46 ↑ ∠↓↓ ⊌	27/37 →	17/23 19/27 19/27 17/23	6 5 12 12 12 12 12 12 12 12 12 12 12 12 12	34/45 √ 7/29 →
	ide Avenue ct Driveway	6. Riverside Avenue at Gateway Plaza/ Value Center		7. Willow at Project		8. Valley E at Willow	Boulevard Avenue
05/98 	42/74→	7/29 7 12/49 7	78/117 → 34/45 →	10/14	5/17 6/22 6/22	13/17 → 4/6 →	←2/7

9. Valley Boulevard at Gateway Plaza/ Value Center	10. Valley Boulevard at Riverside Avenue	11. Riverside Avenue at I-10 WB Ramps	12. Riverside Avenue at I-10 EB Ramps
4/6→	2/23 √2/23 √2/23 √2/23 √2/23 √3/24 √3	25/967 ←25/96 54/78→ 122,25/96	37/29

FIGURE 9 PROJECT-RELATED TRAFFIC VOLUMES

# LEGEND:



**X** = Study Intersection

**XX/YY** = AM/PM Peak Hour

Volumes

X,XXX = Average Daily Traffic Volume









6. Riverside Avenue at Gateway Plaza/ Value Center Riverside Avenue at Senior Way ₹\_10/20 ←-10/-20 6/21 -7 5 11/38 🗸 7/25 \_\_\_

FIGURE 10 PASS-BY TRAFFIC VOLUMES LEGEND:



**X** = Study Intersection

XX/YY = AM/PM Peak Hour

Volumes









San Bernardino Avenue at Lilac Avenue	San Bernardino Avenue at Willow Avenue	San Bernardino Avenue at Riverside Avenue	Riverside Avenue     at Senior Way		
5/17 ←7/29	± ←12/46 27/37 → ↑	82/02 → 17/23 ↑ ↑ ↑	21/81 7 7		
11/123-3	5/17	27/37 \$\frac{\pi}{21} \frac{\pi}{60}	8/36 / 2 8/7/ 8/5		
5. Riverside Avenue at Project Driveway	<ol> <li>Riverside Avenue at Gateway Plaza/ Value Center</li> </ol>	7. Willow Avenue at Project Driveway	Valley Boulevard at Willow Avenue		
√ 1/11/15 √ 20/50 ← 20/50	7/29 7 12/49 7 12/49 7	41/01 - 6/22 - 6/22 - 71/61	27 27 4/6 →		

9. Valley Boulevard at Gateway Plaza/ Value Center	10. Valley Boulevard at Riverside Avenue	11. Riverside Avenue at I-10 WB Ramps	12. Riverside Avenue at I-10 EB Ramps		
4/6→	12/27 	79/81-7 ←25/96 12/78 ← 25/96	37/29 √2/21 37/29 ← 27/21		

FIGURE 11 TOTAL PROJECT TRAFFIC VOLUMES

# LEGEND:



**X** = Study Intersection

**XX/YY** = AM/PM Peak Hour

Volumes

X,XXX = Average Daily Traffic Volume









	San Bernardino Avenue     at Lilac Avenue	San Bernardino Avenue     at Willow Avenue	San Bernardino Avenue at Riverside Avenue	Riverside Avenue     at Senior Way
	29/17 → 130/27 → 130	14/17 7 1086 14/17 7 1086 14/17 7 1086 14/17 7 1086 14/17 7 1086 1364/397 0 0000 1364/397 0 0000 1364	74/72 74	99 C27/43 1 C C27/43 1 C C27/43 1 C C27/43 46/68 N N N N N N N N N N N N N N N N N N N
Ī	<ol><li>Riverside Avenue at Project Driveway</li></ol>	6. Riverside Avenue at Gateway Plaza/ Value Center	7. Willow Avenue at Project Driveway	8. Valley Boulevard at Willow Avenue
	31/114 — 3/82/28 45/82 → − − − − − − − − − − − − − − − − − −	251/20 26/106 21/26	\$\frac{6}{22}	33/68
1		44 5: 11 4	40 D: : : A	

		"			
9. Valley Boulevard at Gateway Plaza/ Value Center	10. Valley Boulevard at Riverside Avenue	11. Riverside Avenue at I-10 WB Ramps	12. Riverside Avenue at I-10 EB Ramps		
2	200/374 0 522/430 36/96 7 200/374 7 522/430 7	04/84347 04/8469/347 04/8469/347 ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	250/2312 576/1119 → C 486/421 576/119 → C 486/421 576/449 → C 486/421		

FIGURE 12 OPENING YEAR 2022 WITH PROJECT TRAFFIC VOLUMES

LEGEND:

**X** = Study Intersection

**XX/YY** = AM/PM Peak Hour

Volumes

X,XXX = Average Daily Traffic Volume



TABLE 7
SUMMARY OF INTERSECTION OPERATION
OPENING YEAR 2022 WITH PROJECT CONDITIONS

			AM Peak Hour				PM Peak Hour					
			Without Project		With Project		01	Without Project		With Project		
Int.#	Intersection	Traffic Control	Delay	LOS	Delay	LOS	Change in Delay	Delay	LOS	Delay	LOS	Change in Delay
1	San Bernardino Ave at Lilac Ave	U	14.2	В	15.0	В	0.8	13.0	В	14.0	В	1.0
2	San Bernardino Ave at Willow Ave	U	24.5	С	27.6	D	3.1	29.4	D	39.9	E	10.5
3	San Bernardino Ave at Riverside Dr	S	30.8	С	33.0	С	2.2	37.4	D	40.7	D	3.3
4	Riverside Dr at Senior Wy	S	2.2	Α	5.7	Α	3.5	3.3	Α	10.9	В	7.6
5	Riverside Dr at Project Dwy	Future			9.3	Α				10.0	В	
6	Riverside Dr at Gateway Plaza/Value Ctr	S	4.6	Α	5.6	Α	1.0	8.0	Α	11.2	В	3.2
7	Willow Ave at Project Dwy	Future			8.6	Α				8.7	Α	
8	Valley Blvd at Willow Ave	S	22.1	С	22.1	С	0.0	20.7	С	20.7	С	0.0
9	Valley Blvd at Gateway Plaza/Value Ctr	S	20.6	С	20.6	С	0.0	19.2	В	19.2	В	0.0
10	Valley Blvd at Riverside Dr	S	18.1	В	18.2	В	0.1	17.6	В	19.3	В	1.7
11	Riverside Dr at I-10 WB Ramps	S	12.2	В	12.6	В	0.4	12.3	В	13.5	В	1.2
12	Riverside Dr at I-10 EB Ramps	S	10.2	В	10.7	В	0.5	19.4	В	25.5	С	6.1

# Notes:

- Delay values for unsignalized (U) intersections represent the average vehicle delay on the worst (highest delay) intersection approach.

# TABLE 8 SUMMARY OF ROADWAY ANALYSIS OPENING YEAR 2022 WITH PROJECT

Roadway	Segment	LOS Capacity <sup>1</sup>	Opening Year ADT	Cumulative Projects ADT	Cumulative	Net Daily Project Traffic	Opening Year + Cumulative + Project ADT	V/C	LOS
Riverside Avenue	Senior Way to Rialto Marketplace	49,499	36,544	120	36,664	2,001	38,665	0.781	С
	Gateway Plaza/Value Center to Valley Boulevard	49,499	21,492	120	21,612	3,686	25,298	0.511	А
Willow Avenue	Valley Boulevard to San Bernardino Avenue	12,499	4,961	0	4,961	320	5,281	0.423	А
Valley Boulevard	Willow Avenue to Riverside Avenue	35,998	20,669	13	20,682	130	20,812	0.578	А

Notes: <sup>1</sup> Source: City of Rialto Traffic Impact Analysis Guidelines for VMT and LOS Asssessment (2021)

LOS = Level of Service

ADT = Average Daily Traffic

V/C = Volume to Capacity

### IV. STORAGE CAPACITY AT LEFT-TURN POCKETS

Per request from City staff, queue lengths at left-turn pockets were assessed at the following locations:

- Riverside Avenue at Senior Way
  - Northbound Left Turn
  - Eastbound Left Turn
- Riverside Avenue at Gateway Plaza/Value Center
  - Northbound Left Turn
- Riverside Avenue at I-10 Westbound Ramps
  - o Northbound Left Turn
- Riverside Avenue at I-10 Eastbound Ramps
  - Southbound Left Turn

A summary of left-turn pocket storage capacity, as well at the 50th and 95th percentile queue lengths at the locations noted above are shown on Table 9 for all scenarios. Review of this table indicates that all left-turn pocket queues would be within the available storage capacity for all study scenarios. The left-turn pocket capacity worksheets are provided in *Appendix C*.

### V. DELIVERY TRUCK DRIVEWAY ACCESS

Vehicular access provisions for delivery trucks at the proposed site would be provided via four driveways: two full-movement signalized driveways on Riverside Avenue; one RIRO only unsignalized driveway on Riverside Avenue; and one full-movement unsignalized driveway on Willow Avenue.

Truck turn templates for delivery trucks taking access at the project driveways are shown on Figure 13.

### VI. VEHICLE MILES TRAVELED

### A. Vehicle Miles Traveled (VMT) Analysis

To be consistent with the previous Traffic Impact Study that was completed for this project, LOS was the decided metric used for determining the project impacts and mitigations for the proposed project; therefore, a VMT analysis was not performed for this project.

# TABLE 9 SUMMARY OF LEFT-TURN POCKET STORAGE CAPACITY RESIDENTIAL AND INDUSTRIAL DEVELOPMENT PROJECT

Intersection	Peak Hour	Left-Turn	Storage Capacity (ft/In)	Existing		Opening \	Year 2022	Opening Year 2022 Plus Project	
mersection	reakriodi	Movement		50th Percentile	95th Percentile	50th Percentile	95th Percentile	50th Percentile	95th Percentile
	AM	NBL	150	Future		Future		0	42
Riverside Avenue at	PM	INDL	150	Future		Future		10	68
Senior Way	AM	EBL	200	Future		Future		0	7
	PM	EDL	200	Future		Future		36	117
Riverside Avenue at	AM	NBL	230	Future		Future		17	97
Gateway Plaza/Value Center	PM	INDL		Future		Future		57	202
Riverside Avenue at	AM	NBL	150	15	45	16	48	17	48
I-10 Westbound Ramps	PM	INDL	130	36	84	39	86	44	95
Riverside Avenue at	AM	SBL	200	54	120	59	131	68	150
I-10 Eastbound Ramps	PM	JDL	200	123	115	134	132	93	189



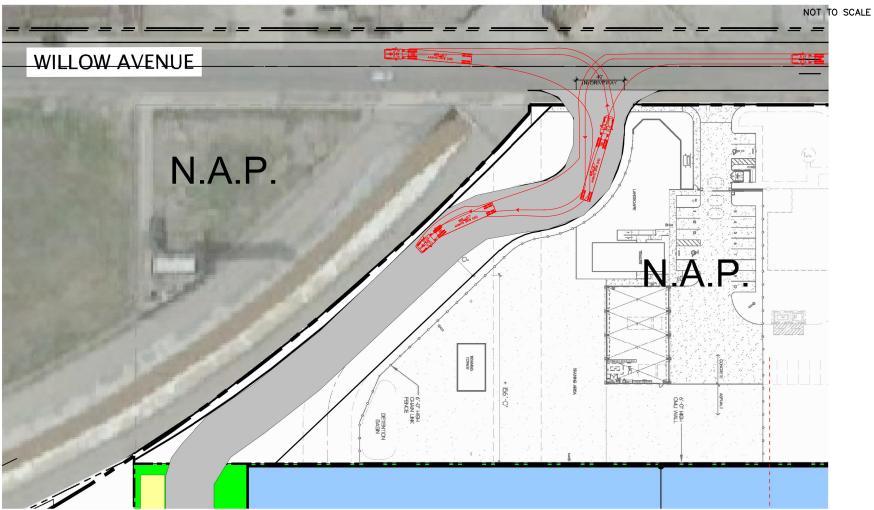


FIGURE 13A

DELIVERY TRUCK DRIVEWAY ACCESS —
WILLOW AVENUE AND PROJECT DRIVEWAY





NOT TO SCALE

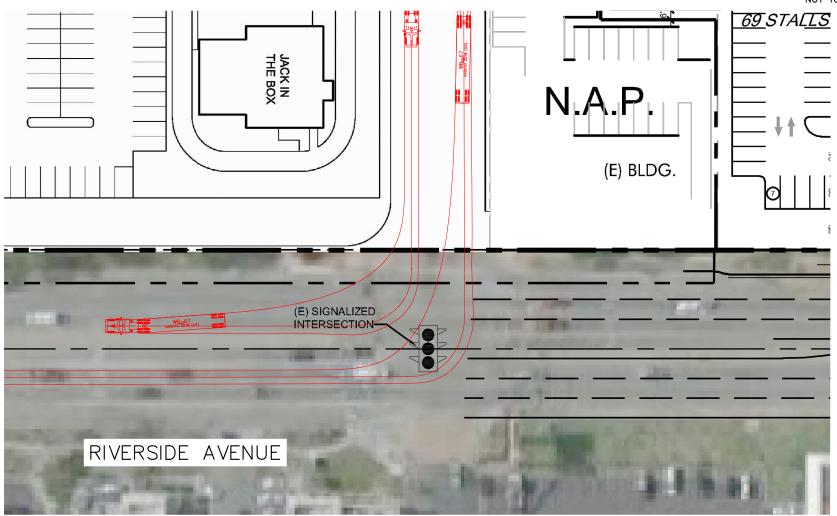
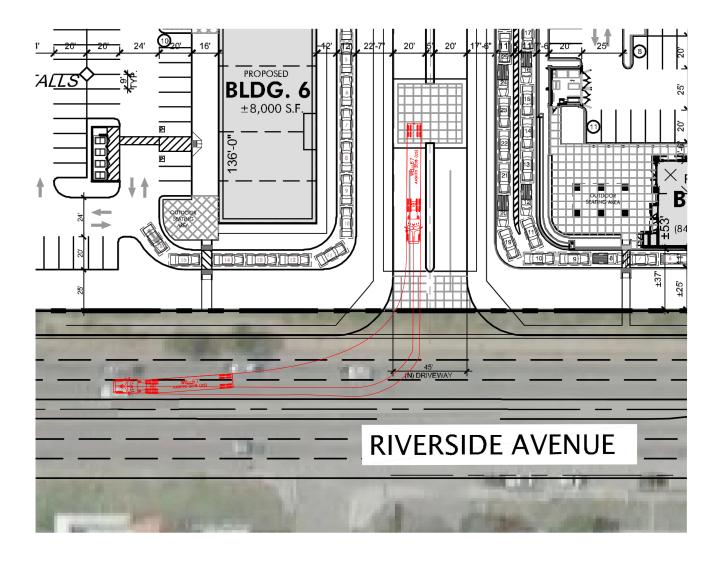


FIGURE 13B
DELIVERY TRUCK DRIVEWAY ACCESS —
RIVERSIDE AVENUE AND GATEWAY PLAZA/VALUE CENTER



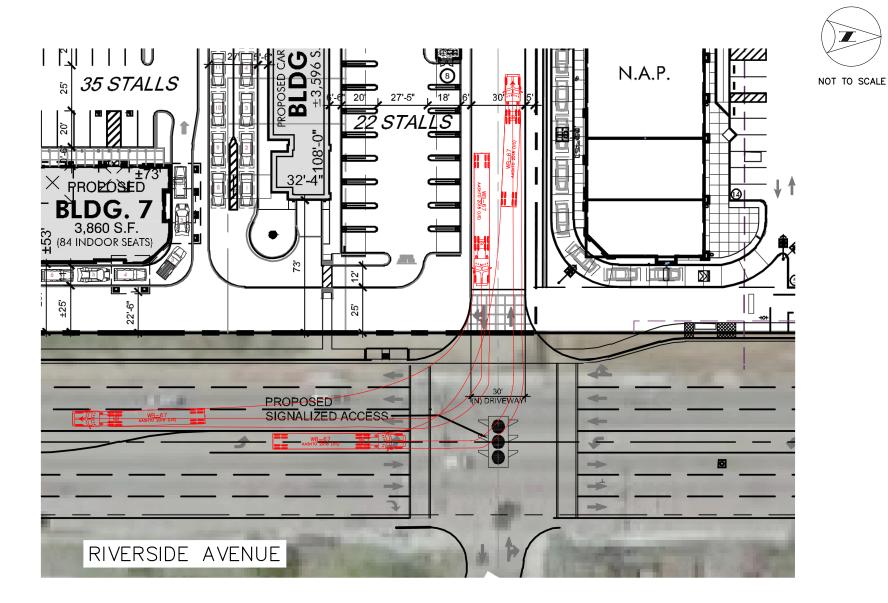




NOT TO SCALE

FIGURE 13C
DELIVERY TRUCK DRIVEWAY ACCESS —
RIVERSIDE AVENUE AND PROJECT DRIVEWAY









### VII. FINDINGS AND CONCLUSIONS

This Traffic Impact Study has been prepared to address the traffic-related effects of the proposed retail and industrial development in the City of Rialto. The project will involve the construction of a shopping center with 79,676 square feet of retail use, 9,660 square feet of fast-food restaurant with drive-through use, 3,596 square feet of automated car wash use, and 83,272 square feet of general light industrial use on the currently vacant site.

Existing morning peak period (7:00 to 9:00 AM) and evening peak period (4:00 to 6:00 PM) turning movement counts, as well as 24-hour roadway segment counts, were collected for the study intersections and study roadway segments.

Under Existing Conditions, all study intersections and study roadway segments currently operate at an acceptable Level of Service.

An ambient growth rate of 2.0% per year to Opening Year 2022 was applied to existing peak hour traffic volumes to develop the base Opening Year 2022 forecasts. In addition to ambient growth, traffic volumes for Cumulative Projects (approved and pending projects) were added to the base Opening Year 2022 traffic volumes. In the Opening Year 2022 Without Project scenario, all study intersections and roadway segments continue to operate at an acceptable Level of Service.

Proposed project trips were added to the Opening Year 2022 Without Project traffic volumes to determine the Opening Year 2022 With Project conditions. In the Opening Year 2022 With Project scenario, all study intersections and roadway segments would continue to operate at an acceptable Level of Service.

Queue lengths at the left-turn pockets were assessed at the project driveways and the I-10 ramps for all study scenarios. All left-turn pocket queues would be within the available storage capacity in all study scenarios.

APPENDIX A

APPROVED SCOPING AGREEMENT



December 6, 2021

Justin Schlaefli TKE Engineering, Inc. 73710 Fred Waring Drive, #104 Palm Desert, CA 92260

RE: Traffic Impact Study Scoping Agreement for the Proposed Retail and Industrial Development at the Southwest Corner of Senior Way and Riverside Avenue

Dear Mr. Schlaefli:

Kimley-Horn and Associates, Inc. is pleased to submit this Scoping Agreement for the proposed Retail and Industrial Development at the Southwest Corner of Senior Way and Riverside Avenue in the City of Rialto. The scope of the traffic impact study is summarized below.

This scope of work is based on the requirements indicated by the City of Rialto Traffic Impact Analysis Report Guidelines and Requirements (December 2014) and in the San Bernardino County Transportation Authority Congestion Management Plan (CMP).

### **Project Description**

The applicant proposes a shopping center development consisting of 79,767 square feet of retail use, 9,660 square feet of fast-food restaurant with drive-through use, 3,596 square feet of automated car wash use, and 83,272 square feet of general light industrial use. The existing site is vacant. The project site plan is shown on Attachment 1.

### Study Scenarios

The following study scenarios will be included for analysis:

- Existing Conditions
- Opening Year 2022 Without Project (Existing Plus Ambient Growth Plus Cumulative Projects)
- Opening Year 2022 With Project (Existing Plus Ambient Growth Plus Cumulative Projects Plus Project)

### Study Methodology

Intersection Level of Service calculations will be based on the Highway Capacity Manual (HCM) Methodology for unsignalized and signalized intersections to be consistent with City, CMP, and Caltrans guidelines.

Roadway segment analysis will be conducted based on volume-to-capacity ratios established by the City of Rialto.



### **Project Trip Generation**

Daily and peak hour trips for the proposed project were calculated using the trip generation rates published in the Institute of Transportation Engineers (ITE) Trip Generation Manual, 11th Edition (2021). Trip rates are based on the following ITE Land Use Categories:

- LU 110 General Light Industrial
- LU 821 Shopping Plaza (40K 150K)

It is recognized that not all inbound and outbound trips to the proposed project will be "new" trips on the roadway system in the vicinity of the project site. Some trips are expected to remain internal to the project site, as patrons move from different land uses within the shopping center. For instance, a patron could utilize the car wash land use and the fast-food land use within the same visit. Furthermore, some trips to the project site will consist of "pass-by" trips -- motorists who are already traveling on the surrounding roadways from one place to another. Common pass-by trips for a shopping plaza would be individuals who stop at the project site on the way to work, home, or school.

Internal capture rates and pass-by rates are provided within the City of Rialto traffic study guidelines. An internal capture rate of 10%, and a pass-by rate of 25%, were applied to the land uses within the project site as applicable.

Passenger vehicle and truck mix assumptions were applied to the general light industrial use component of the project, based on the City of Rialto traffic study guidelines. Passenger car equivalent (PCE) factors were then applied to the truck types, based on the number of axles (1.5 PCE for 2-axle trucks, 2.0 for 3-axle trucks, and 3.0 for 4+-axle trucks) to determine the total PCE trips to be generated by the project.

The resulting trip rates and the project trip generation estimates are shown in Attachment 2. The project is estimated to generate approximately 290 trips in the morning peak hour (199 inbound, 91 outbound) and 628 trips in the evening peak hour (280 inbound, 348 outbound), with 6,396 vehicle trips on a daily basis.

### Project Trip Distribution

Project trip distribution assumptions are shown on Attachment 3.

### **Background Traffic**

The project is anticipated to be open in 2022. Existing traffic volumes will be grown at a rate of 2% per year to account for ambient growth between Existing and Future scenarios. Additionally, traffic from cumulative projects will be included in the opening year scenario.



### **Study Intersections**

The following study intersections are proposed:

- 1. San Bernardino Avenue and Lilac Avenue
- 2. San Bernardino Avenue and Willow Avenue
- 3. San Bernardino Avenue and Riverside Avenue
- 4. Riverside Avenue and Senior Way
- 5. Riverside Avenue and Gateway Plaza/Value Center
- 6. Valley Boulevard and Willow Avenue
- 7. Valley Boulevard and Gateway Plaza/Value Center
- 8. Valley Boulevard and Riverside Avenue
- 9. Riverside Avenue and I-10 WB Ramps
- 10. Riverside Avenue and I-10 EB Ramps
- 11. Riverside Avenue and Center Project Driveway
- 12. Willow Avenue and Project Driveway

### Intersection Traffic Counts

Peak hour traffic counts at intersections will be conducted on a Tuesday, Wednesday, or Thursday during the morning and evening peak periods (7:00AM – 9:00AM, 4:00PM-6:00PM).

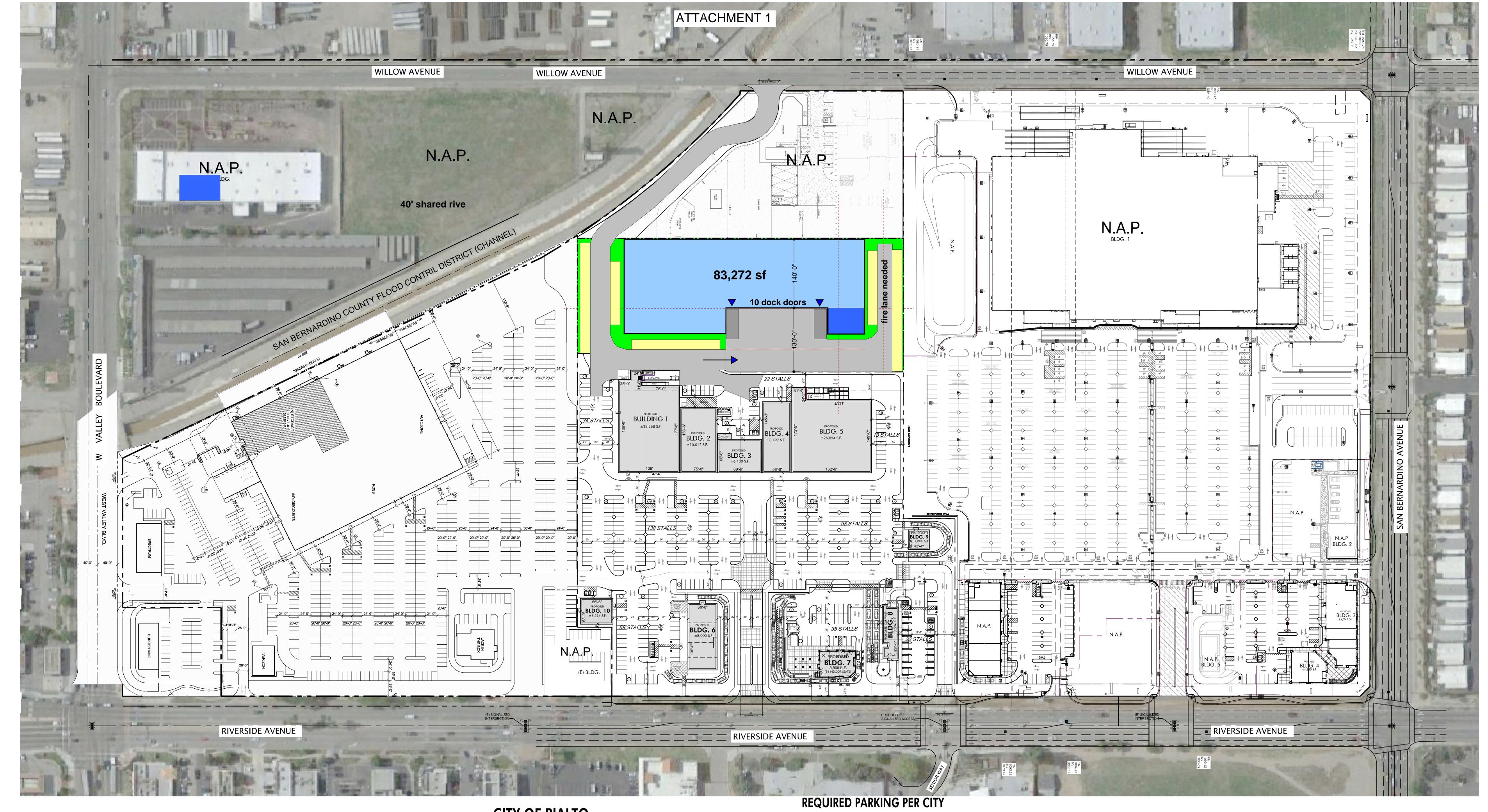
### Study Roadway Segments

The following study roadway segments are proposed:

- 1. Riverside Avenue from Senior Way to Rialto Marketplace
- 2. Riverside Avenue from Gateway Plaza/Value Center to Valley Boulevard
- 3. Willow Avenue from Valley Boulevard to San Bernardino Avenue
- 4. Valley Boulevard from Willow Avenue to Riverside Avenue

### Additional Elements

- Circulation discussion
- Truck turn templates for delivery vehicles at each driveway
- Queueing at Riverside Avenue project driveways and at Riverside Avenue at the I-10 Ramps
- Signal Warrants at unsignalized study intersections
- Fair Share Analysis Direct and Cumulative Impacts
- Identify need for acceleration and deceleration lanes on Riverside Avenue



## **CITY OF RIALTO**

BUILDING AREA:

REQUIRED PARKING SHALL BE PROVIDED PURSUANT TO SECTION 18.58.050B OF THE CITY OF RIALTO MUNICIPAL CODES WHICH READS:

"COMMUNITY SHOPPING CENTER (TWO TO TWENTY NET AC

IN SIZE) ONE SPACE PER EACH TWO HUNDRED FIFTY SQUARE FEET OF GROSS FLOOR AREA ON THE GROUND FLOOR, PLUS ONE SPACE FOR EACH FOUR HUNDRED SQUARE FEET ON ALL FLOORS OTHER THAN THE GROUND FLOOR."

± 93,741 S.F.

SITE AREA: 10.8 ACRES ± 472,210 S.F. F.A.R. (± 472,210 S.F. \± 93,741 S.F.) 5.0 RATIO BUILDING COVERAGE 19 %

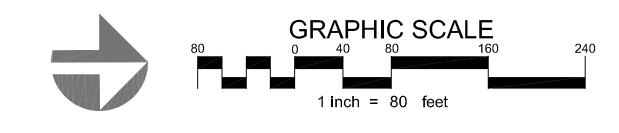
BUILDING 1: 23,268 SF RETAIL @ 1/250 = 93.07 STALLS BUILDING 2: 10,012 SF RETAIL @ 1/250 = 40.04 STALLS BUILDING 3: 6,130 SF SHOPS @ 1/250 = 24.52 STALLS BUILDING 4: 8,497 SF RETAIL @ 1/250 = 33.98 STALLS BUILDING 5: 25,054 SF RETAIL @ 1/250 = 100.21 STALLS BUILDING 6: 8,000 SF 4,000 SF RETAIL @ 1/250 4,000 SF RESTAURANT @ 1/250 = 16.00 STALLS BUILDING 7: 3,860 SF REST. @ 1/250 SF = 15.44 STALLS BUILDING 8: 3,596 SF EMPLOYEE PARKING

5 SPACES PER CAR LENGTH = 0 STALL
BUILDING 9: 1,800 SF RESTAURANT @ 1/250 = 7.20 STALLS
BUILDING 10: 3,524 SF RETAIL @ 1/250 = 14.09 STALLS

TOTAL PARKING REQUIRED = 366.55 STALLS

TOTAL PARKING PROVIDED = 431 STALLS (SURPLUS 64.45 STALLS)

NOTE: TOTAL PARKING PROVIDED DO NOT INCLUDE FUTURE EV CHARGING STATION & CLEAN AIR STALLS.



OVERALL PLAN

SCALE: 1" = 80'-0"

PRELIMINARY SITE PLAN SUBJECT TO CHANGE

# RIALTO - PHASE II

(TEL.) 818.710.6100 (FAX) 818.710.6116

SWC SAN BERNARDINO AVENUE AND RIVERSIDE AVENUE RIALTO, CALIFORNIA

# Newmark Merrill Companies 5850 CANOGA AVENUE, SUITE 650, WOODLAND HILLS, CA 91367





TEL 626.583.8348 FAX 626.583.8387

SITE PLAN

09.13.2021 16177MMA

**OV-26** 

### ATTACHMENT 2 SUMMARY OF PROJECT TRIP GENERATION

				Trip Generation Rates <sup>1</sup>					
	ITE			A	M Peak Ho	ur	PI	M Peak Ho	ur
Land Use	Code	Unit	Daily	In	Out	Total	In	Out	Total
Shopping Plaza (40K - 150K)	821	KSF	94.490	2.189	1.341	3.53	4.334	4.696	9.03
General Light Industrial	110	KSF	4.870	0.651	0.089	0.74	0.091	0.559	0.65

				Trip Generation Estimates						
					А	M Peak Ho	ur	PI	M Peak Ho	ur
Land Use		Quantity	Unit	Daily	In	Out	Total	In	Out	Total
Shopping Plaza (40K - 150K)		93.023	KSF	8,790	204	125	329	403	437	840
		Internal C	apture 10% <sup>2</sup>	-879	-20	-13	-33	-40	-44	-84
		Р	ass-by 25% <sup>2</sup>	-1,978	-46	-28	-74	-91	-98	-189
General Light Industrial		83.272	KSF	406	54	7	61	8	47	55
Passenger Vehicles 92.00%				374	50	6	56	7	43	50
Trucks 8.00%				32	4	1	5	1	4	5

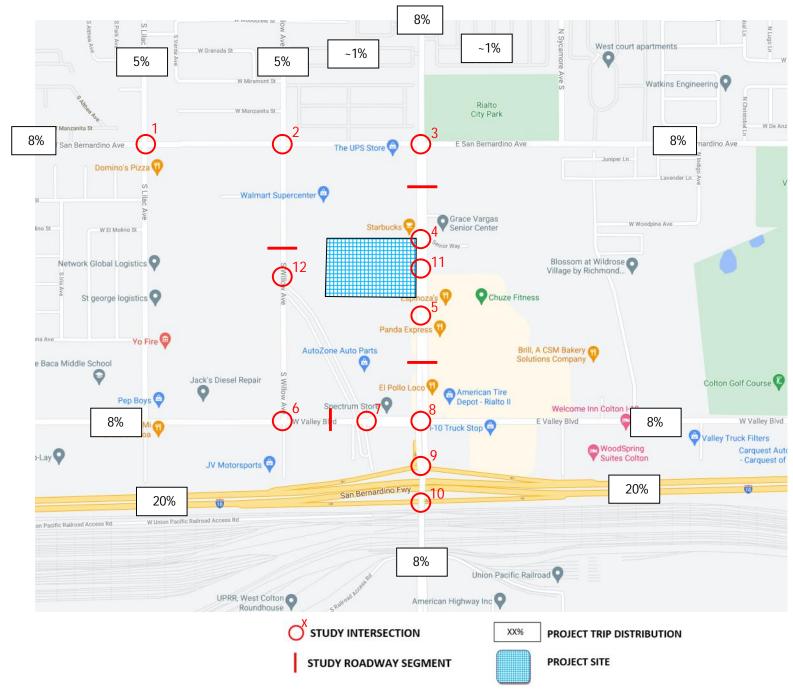
### GENERAL LIGHT INDUSTRIAL PROJECT TRIPS - PASSENGER CAR EQUIVALENTS (PCE)

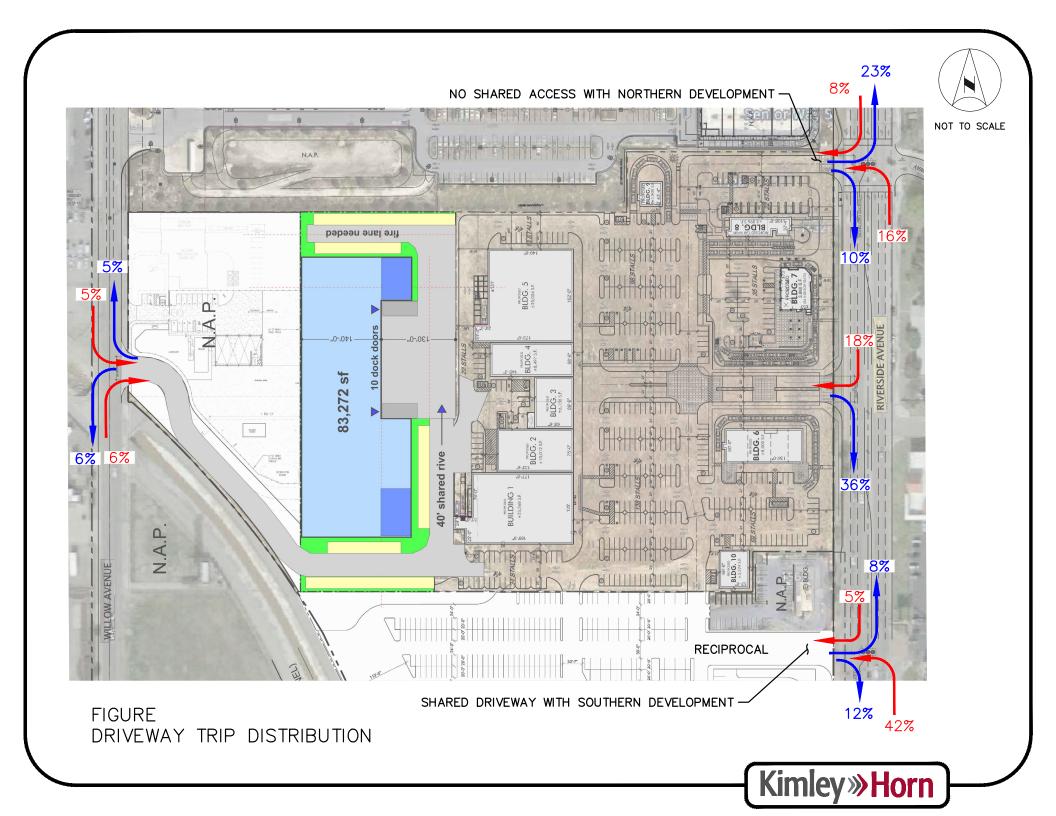
Vehicle Type	Vehicle	Daily	PCE Factor <sup>2</sup>		AM Peak Hour		PM Peak Hour			
venicie Type	Mix <sup>2</sup> Vehicles		PCE Factor	Daily	In	Out	Total	In	Out	Total
Passenger Vehicles	92.00%	374	1.0	374	50	6	56	7	43	50
2-Axle Trucks	0.16%	1	1.5	2	0	0	0	0	0	0
3-Axle Trucks	2.24%	9	2.0	18	2	0	2	0	2	2
4+ Axle Trucks	5.60%	23	3.0	69	9	1	10	1	8	9
Total Truck PCE Trips	Total Truck PCE Trips			89	11	1	12	1	10	11
Total Proposed Project PCE Trips			463	61	7	68	8	53	61	
Total Project Trips			6,396	199	91	290	280	348	628	

Source: Institute of Transportation Engineers (ITE) <u>Trip Generation Manual</u>, 11th Edition

<sup>&</sup>lt;sup>2</sup> Source: City of Rialto Traffic Impact Analysis Report Guidelines and Requirements

ATTACHMENT 3
RIALTO PHASE II – TRIP DISTRIBUTION AND SUGGESTED STUDY AREA







### **Exhibit A**

### SCOPING AGREEMENT FOR TRAFFIC IMPACT ANALYSIS

This following form shall be used to acknowledge preliminary approval of the scope for the traffic impact analysis (TIA) of the following project. The TIA must follow the City of Rialto Traffic Impact Analysis – Report Guidelines and Requirements, adopted by the City Council on	to
City of Rialto	

	Traffic Impact Ana	lysis						
	Scoping Agreem	ent						
Case No								
Related Case	es -							
SP No								
	e; Rialto Phase II - See Attachment 1 - Site Pla							
•	ess: Southwest Corner of San Bernardino Ave							
-	ription: Shopping Center with 79,767 SF of retai							
	<u>Consultant</u>	<u>Developer</u>						
Name:	Kimley-Horn and Associates, Inc.	Newmark Merrill Companies						
Address:	110 W Town and Country Rd, Ste 700 Orange, CA 92868	Woodland Hills, CA 91367						
Telephone:	(714)475-2672	<u>(818)710-6100</u>						
Fax:	N/A N/A							



1.	Trip G	eneration Sou	rce: <u>ITE Trip (</u>	Generation Ma	nual,	11th Edition	on (2021)		
Ex	isting G	P Land Use <u>v</u>	acant		Pro	oposed L	and Use	Shopping Plaz	za (ITE 821), General Light
Сι	ırrent Zo	oning: <u>Gateway</u>	Specific Plan	Pro	pos	ed Zonir	ng: <u>N/A</u>	maasinai (11 E	
To	tal Daily	Project Trips:	6,396 - <b>See Atta</b>	achment 2 - Tr	<u>ip</u> Ge	neration T	able		
		Current Tr	ip Generation	ı			Propos	sed Trip Ger	neration
		<b>I</b> n	Out	Total			In	Out	Total
A۱	∄ Trips	N/A	N/A	N/A	_	199		91	290
P۱	∕l Trips	N/A	N/A	N/A	_	280		348	628
Int	ernal Tr	ip Allowance	Yes	No	(	10	% Tr	ip Discount)	
Pa	ıss-By T	rip Allowance	Yes	No	(	25	% Tr	ip Discount)	
		oriate land uses be indicated or		•	-				%. Discount
2.	Trip G	eographic Dist	tribution:	N 20	<u>%</u>	<u>S 8</u>	<u>%</u> E	36 % W	<u> 36%</u>
	(Detail	ed exhibits of to	rip distribution	n must be at	tach	ed with 1	Γrucks as	a separate e	exhibit)
3.	Backg	round Growth	Traffic						
Pr	oject Co	mpletion Year:	2022	Annual	Bacl	kground	Growth R	late: 2	%
Ot	her Pha	se Years <u>N/A</u>							
Ot	her area	a projects to be	considered:	We will reque	est the	e current Cı	umulative Pr	ojects list from	
'nа		Planning for Lis n included in e)			exh	ibit map			
Mo	odel/For	ecast methodo	logy: Existing	plus Growth pl	lus Cı	um Project	t plus Projed	ct to Opening Y	ear_
	-	Intersections: are determine	,	•					neration and
1.	San Ber	nardino Ave and L	ilac Ave		6.	Valley Bl	vd and Wille	ow Ave	
2.	San Ber	nardino Ave and V	Villow Ave		7.	Valley Bl	vd and Gate	eway Plz	
3.	San Ber	nardino Ave and F	Riverside Ave		8.	Valley Bl	vd and Rive	rside Ave	
4.	Riversid	e Ave and Senior	Wy		9.	Riverside	Ave and I-	10 WB Ramps	
5.	Riversid	e Ave and Gatewa	ay Plz/Value Ctr		10	. Riversion	de Ave and	I-10 EB Ramps	3
11	. Riverside	e Ave and Center P	roject Dwy		12	. Willow Av	e and Proje	ct Dwy	



_	way Segments: (NOTE: Subjection of Subjectio	ct to revision after other projects, trip gom other agencies received.)	jeneration
	Senior Wy to Rialto Marketplace	6	
2. Riverside Ave - 0	Gateway Plz/Value Ctr to Valley Blvd	7	
3. Willow Ave - Va	ılley Blvd to San Bernardino Ave	8	
4. Valley Blvd - W	illow Ave to Riverside Ave	9	
5		10	
6. Other Jurisd	lictional Impacts		
ls this project v jurisdictional bou		ere of Influence or within one-mile o	of another YES NO
7. Site Plan (plan) 8. Specific iss described in the (NOTE: If the trabe warranted," conditions, 8-hochourly turning management of the planes	ne Guideline) (to be filled out be affic study states that "a traffic signor similar statement) at an exicur approach traffic volume informovement counts for that intersect eleration and decelaration lanes on Riversery vehicles at each driveway, Signal Warry vehicles at each driveway.	Study (in addition to the standard by the City of Rialto Public Works De gnal is warranted" (or "a traffic signal a sting un-signalized intersection undenation must be submitted in addition to	partment) appears to er existing the peak
9. Existing Cor Traffic count dat new counts. Date of counts:	a must be new or within one yea	r. Provide traffic count dates if using on a growth rate will be applied, if necessary, to newlessery.	
City will not pro	ocess the Scoping Agreement	with, or prior to submittal of this fo prior to the receipt of the processin	
Fees Paid:	Date	÷	



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Scoping Agreement Submittal date 6/7/2021	
Scoping Agreement Resubmittal date 12/6/2021	
Kimley-Horn and Associates, Inc.	December 6, 2021
Applicant/Engineer	Date
Land Use Concurrence:	
Development Services Department	Date
Approved by:	
Public Works Department	Date

### NOTE:

The Applicant/Engineer acknowledges that the Scoping Agreement is intended to assist in the preparation of any required TIA. It is preliminary in nature and the City does not have sufficient data to determine the ultimate conditions that may be imposed for the project. It does not provide nor limit the requirements imposed on the Project but is intended only to provide initial input into the parameters for review of the traffic generated by the Project and the initial areas to be considered and studied. Subsequent changes to scope of required analysis to be included in the TIA may be required by the Transportation Commission, Planning Commission, and/or the City Council upon Public Works Director/City Engineer review and approval.

APPENDIX B

TRAFFIC COUNT DATA SHEETS

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

 DATE:
 LOCATION:
 Rialto
 PROJECT #:
 \$C3039

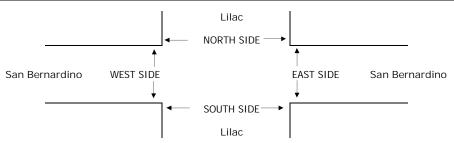
 Thu, Sep 2, 21
 NORTH & SOUTH:
 Lilac
 LOCATION #:
 1

 EAST & WEST:
 San Bernardino
 CONTROL:
 STOP ALL

NOTES:

AM
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OTHER
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S

		NORTHBOUND			SC	OUTHBOU	ND	EASTBOUND			WESTBOUND			
			Lilac			Lilac			San Bernardin	0		San Bernardin	10	
		NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
	LANES:	0	1	0	0	1	0	0	2	0	0	2	0	
	7:00 AM	1	6	1	4	15	3	2	49	5	2	32	10	130
	7:15 AM	10	10	3	16	16	11	6	46	15	8	38	18	197
	7:30 AM	20	9	9	24	10	9	12	60	41	12	60	25	291
	7:45 AM	27	9	11	46	8	33	8	72	64	19	50	26	373
	8:00 AM	25	9	9	19	20	9	2	59	7	6	47	4	216
	8:15 AM	1	6	2	5	14	4	1	58	3	3	46	6	149
	8:30 AM	1	5	3	11	14	6	4	69	1	4	29	5	152
ΑM	8:45 AM	1	8	6	8	7	3	2	53	4	7	44	3	146
₹	VOLUMES	86	62	44	133	104	78	37	466	140	61	346	97	1,654
	APPROACH %	45%	32%	23%	42%	33%	25%	6%	72%	22%	12%	69%	19%	
	APP/DEPART	192	/	196	315	/	304	643	/	644	504	/	510	0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	82	37	32	105	54	62	28	237	127	45	195	73	1,077
	APPROACH %	54%	25%	21%	48%	24%	28%	7%	60%	32%	14%	62%	23%	
	PEAK HR FACTOR		0.803			0.635			0.681			0.807		0.722
	APP/DEPART	151	/	138	221	/	226	392	/	374	313	/	339	0
	4:00 PM	5	13	3	2	12	2	4	84	2	6	65	8	206
	4:15 PM	6	14	4	6	12	1	7	78	6	8	84	3	229
	4:30 PM	7	13	6	8	13	5	3	93	8	7	88	7	258
	4:45 PM	4	14	5	5	12	2	5	84	8	7	70	12	228
	5:00 PM	9	13	6	4	9	2	2	86	4	12	87	9	243
	5:15 PM	6	13	4	2	6	3	5	87	3	8	81	5	223
	5:30 PM	0	11	11	8	13	3	3	89	2	5	83	5	233
₽	5:45 PM	2	15	4	6	13	4	9	92	9	6	87	9	256
Δ	VOLUMES	39	106	43	41	90	22	38	693	42	59	645	58	1,876
	APPROACH %	21%	56%	23%	27%	59%	14%	5%	90%	5%	8%	85%	8%	
	APP/DEPART	188	/	202	153	/	191	773	/	777	762	/	706	0
1	BEGIN PEAK HR		4:15 PM											
1	VOLUMES	26	54	21	23	46	10	17	341	26	34	329	31	958
1	APPROACH %	26%	53%	21%	29%	58%	13%	4%	89%	7%	9%	84%	8%	
1	PEAK HR FACTOR		0.902			0.760			0.923			0.912		0.928
	APP/DEPART	101	/	102	79	/	106	384	/	385	394	/	365	0

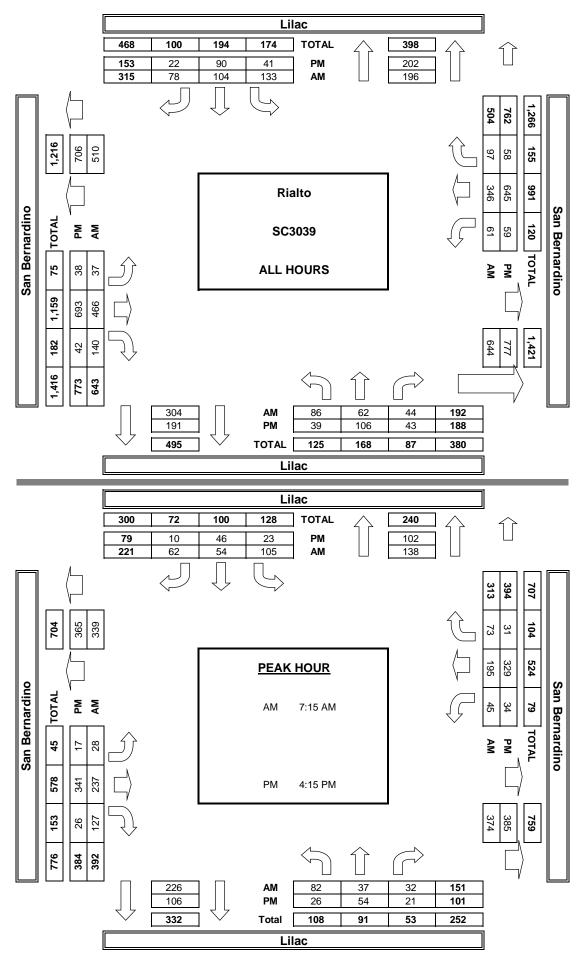


	7:00 AM
	7:15 AM
	7:30 AM
_	7:45 AM
AM	8:00 AM
	8:15 AM
	8:30 AM
	8:45 AM
	TOTAL
	AM BEGIN PEAK HR
	4:00 PM
	4:15 PM
	4:30 PM
_	4:45 PM
PM	5:00 PM
	5:15 PM
	5:30 PM
	5:45 PM
	TOTAL
	PM BEGIN PEAK HR

NICIDE		PEDESTRIAN + BIKE CROSSINGS								
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AIMTD LLC
TURNING MOVEMENT COUNTS



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

 DATE:
 LOCATION:
 Rialto
 PROJECT #:
 \$C3039

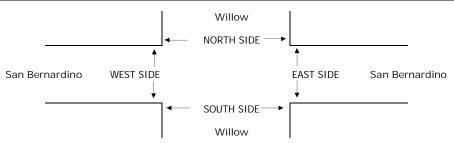
 Thu, Sep 2, 21
 NORTH & SOUTH:
 Willow
 LOCATION #:
 2

 EAST & WEST:
 San Bernardino
 CONTROL:
 STOP ALL

NOTES:

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		NC	ORTHBOU	ND	SC	OUTHBOU	ND	E.	ASTBOUN	ID	WESTBOUND			
			Willow			Willow			San Bernardin	0		San Bernardir	no	
		NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
	LANES:	0	1	0	0	1	0	1	2	0	1	2	0	
	7:00 AM	4	16	1	18	34	2	0	53	3	3	39	11	184
	7:15 AM	6	21	3	13	48	4	1	56	6	1	55	18	232
	7:30 AM	6	9	2	29	52	3	2	79	2	5	88	20	297
	7:45 AM	4	7	5	22	37	10	7	113	17	11	79	20	332
	8:00 AM	3	15	1	19	41	6	4	78	7	2	50	12	238
	8:15 AM	2	13	3	15	32	5	0	58	7	5	48	13	201
	8:30 AM	5	16	2	11	36	6	3	71	9	3	28	11	201
₽	8:45 AM	2	17	3	23	32	3	1	59	10	4	51	15	220
₹	VOLUMES	32	114	20	150	312	39	18	567	61	34	438	120	1,905
	APPROACH %	19%	69%	12%	30%	62%	8%	3%	88%	9%	6%	74%	20%	
	APP/DEPART	166	/	253	501	/	407	646	/	736	592	/	509	0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	19	52	11	83	178	23	14	326	32	19	272	70	1,099
	APPROACH %	23%	63%	13%	29%	63%	8%	4%	88%	9%	5%	75%	19%	
	PEAK HR FACTOR		0.683			0.845			0.679			0.799		0.828
	APP/DEPART	82	/	137	284	/	229	372	/	419	361	/	314	0
	4:00 PM	6	52	4	18	24	1	10	73	3	0	70	20	281
	4:15 PM	7	30	4	10	34	6	4	83	4	2	87	29	300
	4:30 PM	5	40	7	23	49	9	6	96	9	2	83	21	350
	4:45 PM	4	42	5	21	37	4	6	84	4	2	84	21	314
	5:00 PM	9	37	10	16	21	7	2	84	4	1	90	18	299
	5:15 PM	4	31	7	25	39	1	3	86	7	3	86	24	316
	5:30 PM	2	41	3	21	26	4	5	91	7	2	87	26	315
₽	5:45 PM	12	40	3	21	30	7	3	102	5	3	83	20	329
۵	VOLUMES	49	313	43	155	260	39	39	699	43	15	670	179	2,504
	APPROACH %	12%	77%	11%	34%	57%	9%	5%	90%	6%	2%	78%	21%	
	APP/DEPART	405	/	531	454	/	318	781	/	897	864	/	758	0
	BEGIN PEAK HR		4:30 PM											
	VOLUMES	22	150	29	85	146	21	17	350	24	8	343	84	1,279
	APPROACH %	11%	75%	14%	34%	58%	8%	4%	90%	6%	2%	79%	19%	
	PEAK HR FACTOR		0.897			0.778			0.881			0.962		0.914
	APP/DEPART	201	/	251	252	/	178	391	/	464	435	/	386	0

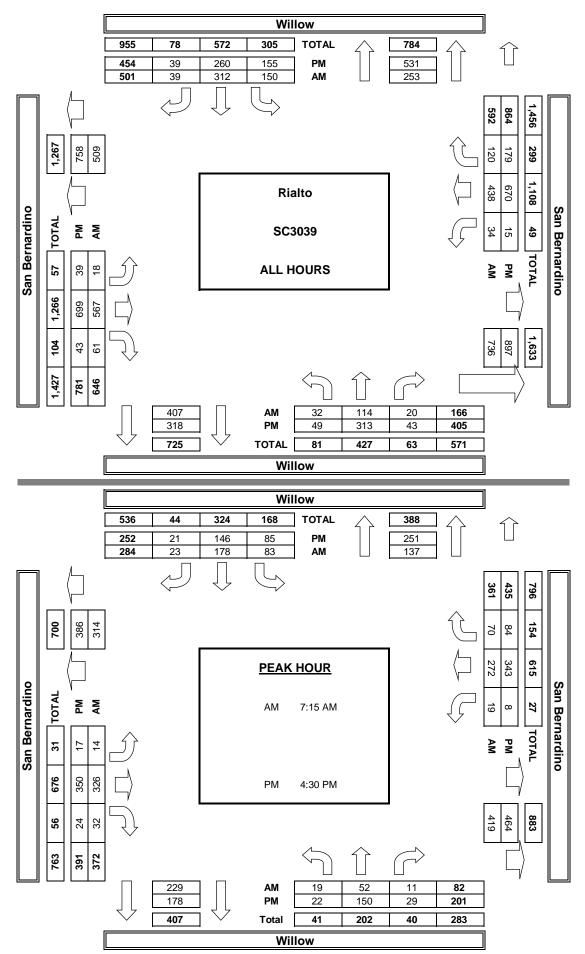


	7:00 AM
	7:15 AM
	7:30 AM
_	7:45 AM
AM	8:00 AM
	8:15 AM
	8:30 AM
	8:45 AM
	TOTAL
	AM BEGIN PEAK HR
	4:00 PM
	4:15 PM
	4:30 PM
_	4:45 PM
ΡM	5:00 PM
	5:15 PM
	5:30 PM
	5:45 PM
	TOTAL
	PM BEGIN PEAK HR

PEDESTRIAN + BIKE CROSSINGS								
N SIDE	S SIDE	E SIDE	W SIDE	TOTAL				
0	0	0	0	0				
0	0	0	0	0				
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0	0	0	0	0
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0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

AIMTD LLC
TURNING MOVEMENT COUNTS



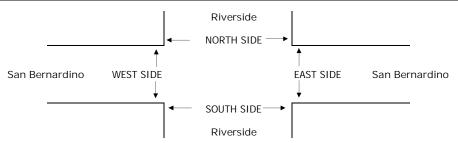
PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: Thu, Sep 2, 21 LOCATION: Rialto PROJECT #: SC3039
NORTH & SOUTH: Riverside LOCATION #: 3
EAST & WEST: San Bernardino CONTROL: SIGNAL

NOTES:

AM
PM
MD
W
OTHER
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OTHER

		N(	ORTHBOU	ND	S	OUTHBOU	ND	E.	ASTBOUN	ID	W	'ESTBOUN	ID.	
			Riverside			Riverside		:	San Bernardin	0		San Bernardir	10	
		NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
	LANES:	1	2	1	1	2	0	1	2	0	1	2	0	
	7:00 AM	19	99	33	7	147	7	8	28	30	61	31	11	481
	7:15 AM	21	92	31	13	173	11	6	24	18	59	34	6	488
	7:30 AM	23	99	25	17	174	31	15	41	33	84	54	10	606
	7:45 AM	14	76	29	34	177	32	25	47	29	74	75	26	638
	8:00 AM	13	114	41	18	152	10	23	57	25	79	48	23	603
	8:15 AM	5	94	40	19	176	11	14	58	20	64	54	14	569
	8:30 AM	10	89	42	10	138	11	13	41	15	60	34	15	478
ΑM	8:45 AM	12	88	33	9	111	9	23	48	36	56	49	4	478
₹	VOLUMES	117	751	274	127	1,248	122	127	344	206	537	379	109	4,341
	APPROACH %	10%	66%	24%	8%	83%	8%	19%	51%	30%	52%	37%	11%	
	APP/DEPART	1,142	/	987	1,497	/	1,991	677	/	745	1,025	/	618	0
	BEGIN PEAK HR		7:30 AM											
	VOLUMES	55	383	135	88	679	84	77	203	107	301	231	73	2,416
	APPROACH %	10%	67%	24%	10%	80%	10%	20%	52%	28%	50%	38%	12%	
	PEAK HR FACTOR		0.853			0.876			0.921			0.864		0.947
	APP/DEPART	573	/	533	851	/	1,087	387	/	426	605	/	370	0
	4:00 PM	26	201	104	12	138	14	25	72	23	66	57	19	757
	4:15 PM	38	195	80	25	165	15	36	71	26	43	36	19	749
	4:30 PM	38	181	104	13	131	12	28	72	34	62	65	19	759
	4:45 PM	33	204	101	19	157	16	32	67	23	57	58	17	784
	5:00 PM	38	175	109	13	122	10	36	93	25	69	70	20	780
	5:15 PM	47	216	97	17	170	9	34	78	25	63	46	12	814
	5:30 PM	31	169	114	13	119	13	35	99	29	64	59	18	763
₽	5:45 PM	49	213	120	28	128	17	26	72	21	66	48	21	809
Д	VOLUMES	300	1,554	829	140	1,130	106	252	624	206	490	439	145	6,215
	APPROACH %	11%	58%	31%	10%	82%	8%	23%	58%	19%	46%	41%	14%	
	APP/DEPART	2,683	/	1,951	1,376	/	1,826	1,082	/	1,593	1,074	/	845	0
	BEGIN PEAK HR		5:00 PM											
	VOLUMES	165	773	440	71	539	49	131	342	100	262	223	71	3,166
	APPROACH %	12%	56%	32%	11%	82%	7%	23%	60%	17%	47%	40%	13%	
1	PEAK HR FACTOR		0.902			0.841			0.879			0.874		0.972
	APP/DEPART	1,378	/	975	659	/	901	573	/	853	556	/	437	0

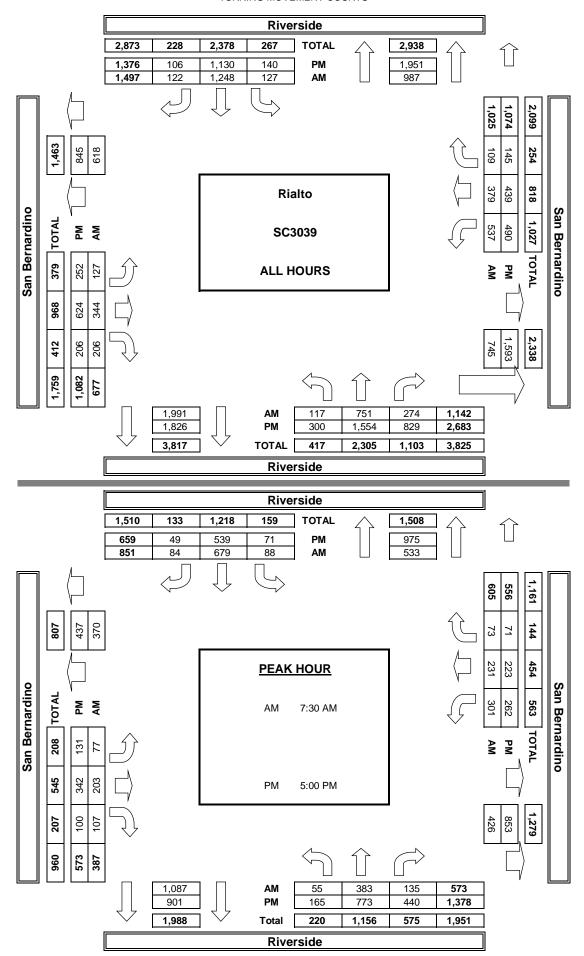


	7:00 AM
	7:15 AM
	7:30 AM
_	7:45 AM
AM	8:00 AM
	8:15 AM
	8:30 AM
	8:45 AM
	TOTAL
	AM BEGIN PEAK HR
	4:00 PM
	4:15 PM
	4:30 PM
1	4:45 PM
PM	5:00 PM
	5:15 PM
	5:30 PM
	5:45 PM
	TOTAL
	PM BEGIN PEAK HR

PED	ESTRIAI	N + BIKE	CROSSI	NGS
N SIDE	S SIDE	E SIDE	W SIDE	TOTAL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
		7:30 AM		
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0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
		5:00 PM		

	PEDEST	RIAN CR	OSSING	SS
N SIDE	S SIDE	E SIDE	W SIDE	TOTAL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
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0	0	0	0	0
0	0	0	0	0
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0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

AIMTD LLC
TURNING MOVEMENT COUNTS



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

 DATE:
 LOCATION:
 Rialto
 PROJECT #:
 SC3039

 Thu, Sep 2, 21
 NORTH & SOUTH:
 Riverside
 LOCATION #:
 4

 EAST & WEST:
 Senior
 CONTROL:
 SIGNAL

NOTES:

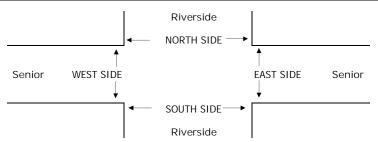
AM
PM
MD

OTHER

S

OTHER

		NO	ORTHBOU	IND	SC	OUTHBOU	IND	E.	ASTBOUN	ID	W	'ESTBOUN	ID	
			Riverside			Riverside			Senior			Senior		
		NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
	LANES:	X	3	0	1	3	X	X	Χ	X	0	X	0	
	7:00 AM	0	156	4	11	250	0	0	0	0	7	0	8	436
	7:15 AM	0	171	2	2	245	0	0	0	0	0	0	2	422
	7:30 AM	0	156	3	5	310	0	0	0	0	1	0	3	478
	7:45 AM	0	124	2	5	263	0	0	0	0	1	0	0	395
	8:00 AM	0	178	1	1	270	0	0	0	0	1	0	1	452
	8:15 AM	0	162	2	4	257	0	0	0	0	0	0	0	425
	8:30 AM	0	148	1	1	234	0	0	0	0	3	0	2	389
ΑM	8:45 AM	0	177	3	1	201	0	0	0	0	0	0	1	383
₹	VOLUMES	0	1,272	18	30	2,030	0	0	0	0	13	0	17	3,384
	APPROACH %	0%	99%	1%	1%	98%	0%	0%	0%	0%	43%	0%	57%	
	APP/DEPART	1,291	/	1,292	2,063	/	2,044	0	/	48	30	/	0	0
	BEGIN PEAK HR		7:30 AM											
	VOLUMES	0	620	8	15	1,100	0	0	0	0	3	0	4	1,754
	APPROACH %	0%	99%	1%	1%	98%	0%	0%	0%	0%	43%	0%	57%	
	PEAK HR FACTOR		0.874			0.887			0.000			0.438		0.917
	APP/DEPART	629	/	627	1,118	/	1,104	0	/	23	7	/	0	0
	4:00 PM	0	375	0	0	227	0	0	0	0	3	0	5	610
	4:15 PM	0	313	0	1	252	0	0	0	0	3	0	3	572
	4:30 PM	0	383	4	2	236	0	0	0	0	5	0	3	633
	4:45 PM	0	343	2	1	244	0	0	0	0	1	0	3	594
	5:00 PM	0	373	0	1	248	0	0	0	0	2	0	4	628
	5:15 PM	0	367	0	1	259	0	0	0	0	1	0	3	631
	5:30 PM	0	399	0	1	256	0	0	0	0	7	0	2	665
₽	5:45 PM	0	375	0	1	211	0	0	0	0	0	0	1	588
Д	VOLUMES	0	2,928	6	8	1,933	0	0	0	0	22	0	24	4,930
	APPROACH %	0%	100%	0%	0%	99%	0%	0%	0%	0%	48%	0%	52%	
	APP/DEPART	2,936	/	2,959	1,948	/	1,957	0	/	14	46	/	0	0
I	BEGIN PEAK HR		4:45 PM							·				
	VOLUMES	0	1,482	2	4	1,007	0	0	0	0	11	0	12	2,523
	APPROACH %	0%	100%	0%	0%	99%	0%	0%	0%	0%	48%	0%	52%	
	PEAK HR FACTOR		0.928			0.972			0.000			0.639		0.946
1	APP/DEPART	1,485	/	1,498	1,015	/	1,019	0	/	6	23	/	0	0

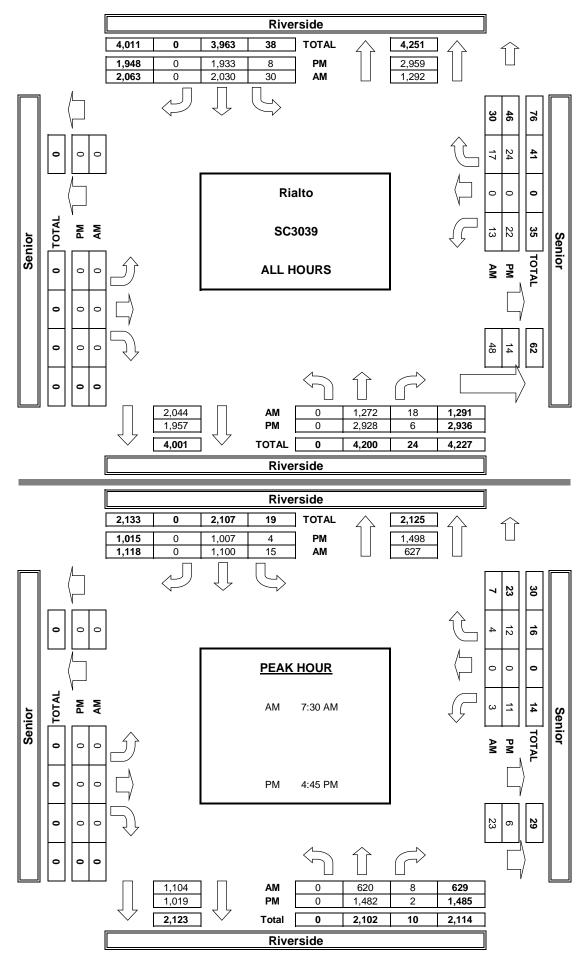


	7:00 AM
	7:15 AM
	7:30 AM
_	7:45 AM
AM	8:00 AM
	8:15 AM
	8:30 AM
	8:45 AM
	TOTAL
	AM BEGIN PEAK HR
	4:00 PM
	4:15 PM
	4:30 PM
_	4:45 PM
PΜ	5:00 PM
	5:15 PM
	5:30 PM
	5:45 PM
	TOTAL
	PM BEGIN PEAK HR

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0											
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0											
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7:30 AM  0 0 0 0 0  0 0 0 0  0 0 0 0  0 0 0 0  0 0 0 0  0 0 0 0	0											
0         0         0         0           0         0         0         0           0         0         0         0           0         0         0         0           0         0         0         0           0         0         0         0	0											
0         0         0         0           0         0         0         0           0         0         0         0           0         0         0         0	7:30 AM											
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0 0 0 0 0 0 0 0	0											
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	0											
	0											
0 0 0 0	0											
0 0 0 0	0											
0 0 0 0												
0 0 0 0	0											
4:45 PM	0 0											

	PEDEST	RIAN CR	ROSSING	SS
N SIDE	S SIDE	E SIDE	W SIDE	TOTAL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
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0	0	0	0	0
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0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

AIMTD LLC
TURNING MOVEMENT COUNTS



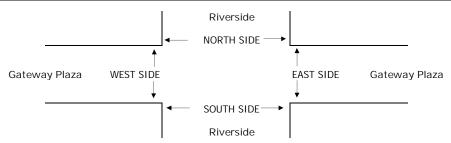
PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:
Thu, Sep 2, 21
NORTH & SOUTH: Rialto PROJECT #: SC3039
NORTH & SOUTH: Riverside LOCATION #: 5
EAST & WEST: Gateway Plaza CONTROL: SIGNAL

NOTES:

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OTHER

	NORTHBOUND		SC	SOUTHBOUND		EASTBOUND			W					
			Riverside			Riverside		Gate	eway Plaza - V	'alue	Ga	teway Plaza - '	Value	
		NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
	LANES:	1	3	0	1	3	0	1	0.5	0.5	1	0.5	0.5	
	7:00 AM	11	161	5	11	229	10	3	0	9	3	1	10	453
	7:15 AM	10	145	8	11	225	14	10	1	15	5	1	4	449
	7:30 AM	9	147	4	24	281	8	2	0	9	6	0	11	501
	7:45 AM	13	127	9	37	193	20	4	1	10	9	1	7	431
	8:00 AM	10	172	8	38	223	31	8	1	11	5	0	9	516
	8:15 AM	13	136	9	33	197	10	12	1	8	8	1	9	437
	8:30 AM	14	127	9	40	175	24	10	3	13	2	0	11	428
ΑM	8:45 AM	19	149	15	34	151	22	14	0	9	3	0	18	434
₹	VOLUMES	99	1,164	67	228	1,674	139	63	7	84	41	4	79	3,649
	APPROACH %	7%	88%	5%	11%	82%	7%	41%	5%	55%	33%	3%	64%	
	APP/DEPART	1,330	/	1,311	2,041	/	1,832	154	/	297	124	/	209	0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	42	591	29	110	922	73	24	3	45	25	2	31	1,897
	APPROACH %	6%	89%	4%	10%	83%	7%	33%	4%	63%	43%	3%	53%	
	PEAK HR FACTOR		0.871			0.883			0.692			0.853		0.919
	APP/DEPART	662	/	650	1,105	/	1,006	72	/	138	58	/	103	0
	4:00 PM	16	291	15	36	175	19	24	2	13	11	2	18	622
	4:15 PM	22	284	8	29	205	18	24	2	16	9	2	21	640
	4:30 PM	15	329	14	45	184	21	19	1	15	13	2	25	683
	4:45 PM	17	323	18	32	194	16	18	4	12	12	3	21	670
	5:00 PM	20	297	11	36	187	19	22	3	9	16	5	29	654
	5:15 PM	24	349	17	27	207	22	25	1	12	7	3	20	714
	5:30 PM	13	319	13	36	205	26	27	0	8	16	0	33	696
₽	5:45 PM	25	339	13	30	157	24	25	2	13	13	5	35	681
Д	VOLUMES	152	2,531	109	271	1,514	165	184	15	98	97	22	202	5,360
	APPROACH %	5%	91%	4%	14%	78%	8%	62%	5%	33%	30%	7%	63%	
	APP/DEPART	2,792	/	2,921	1,950	/	1,755	297	/	391	321	/	293	0
	BEGIN PEAK HR		5:00 PM											
	VOLUMES	82	1,304	54	129	756	91	99	6	42	52	13	117	2,745
	APPROACH %	6%	91%	4%	13%	77%	9%	67%	4%	29%	29%	7%	64%	
1	PEAK HR FACTOR		0.923			0.914			0.919		<u> </u>	0.858		0.961
	APP/DEPART	1,440	/	1,521	976	/	872	147	/	188	182	/	164	0

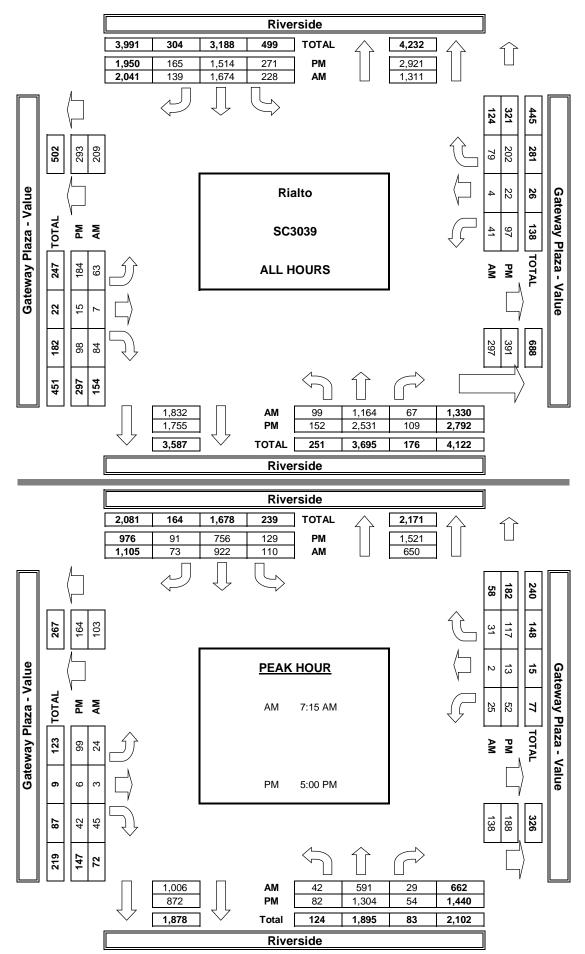


	7:00 AM
	7:15 AM
	7:30 AM
_	7:45 AM
AM	8:00 AM
·	8:15 AM
	8:30 AM
	8:45 AM
	TOTAL
	AM BEGIN PEAK HR
	4:00 PM
	4:15 PM
	4:30 PM
_	4:45 PM
PM	5:00 PM
	5:15 PM
	5:30 PM
	5:45 PM
	TOTAL
	PM BEGIN PEAK HR

N SIDE	PED	ESTRIAI	V + BIKE	CROSSI	NGS							
0         0         0         0         0            0         0         0         0         0         0           0	N SIDE	S SIDE	E SIDE	W SIDE	TOTAL							
0         0         0         0         0            0         0         0         0         0         0           0	0	0	0	0	0							
0         0         0         0         0            0         0         0         0         0         0           0	0	0	0	0	0							
0         0         0         0         0           0         0         0         0         0         0           0	0	0	0	0	0							
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	0	0	0	0							
0         0         0         0         0           0         0         0         0         0         0           0	0	0	0	0	0							
0         0         0         0         0           0         0         0         0         0           7:15 AM         0         0         0         0         0           0         0         0         0         0         0         0           0 </td <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td>	0	0	0	0	0							
0         0         0         0           7:15 AM         0         0         0           0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0         0           0 </td <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td>	0	0	0	0	0							
7:15 AM  0 0 0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0	0	0	0	0	0							
0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0         0           0         0         0         0         0         0         0         0           0         0         0         0         0         0         0         0         0           0         0         0         0         0         0         0         0         0           0         0         0         0         0         0         0         0	0	0		0	0							
0         0         0         0         0           0         0         0         0         0           0         0         0         0         0           0         0         0         0         0           0         0         0         0         0           0         0         0         0         0           0         0         0         0         0           0         0         0         0         0	7:15 AM											
0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0         0           0         0         0         0         0         0         0         0           0         0         0         0         0         0         0         0           0         0         0         0         0         0         0         0	0	0	0	0	0							
0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0         0           0         0         0         0         0         0         0         0           0         0         0         0         0         0         0         0	0	0	0	0	0							
0         0         0         0         0           0         0         0         0         0           0         0         0         0         0           0         0         0         0         0           0         0         0         0         0	0	0	0	0	0							
0         0         0         0         0           0         0         0         0         0           0         0         0         0         0           0         0         0         0         0	0	0	0	0	0							
0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0	0	0	0	0	0							
0         0         0         0         0           0         0         0         0         0	0	0	0	0	0							
0 0 0 0 0	0	0	0	0	0							
	0	0	0	0								
5.00 PM	0	0	0	0	0							
5.55 T W			5:00 PM									

l	PEDEST	<u>RIAN CR</u>	OSSING	S
N SIDE	S SIDE	E SIDE	W SIDE	TOTAL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
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0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

AIMTD LLC
TURNING MOVEMENT COUNTS



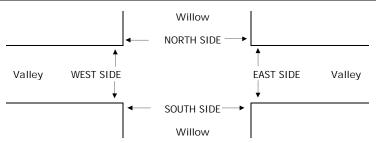
PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:
Thu, Sep 2, 21

NORTH & SOUTH: Willow LOCATION #: 6
EAST & WEST: Valley CONTROL: SIGNAL

NOTES:	AM		<b>A</b>	
	PM		N	
	MD	<b>⋖</b> W		E►
	OTHER		S	
	OTHER		•	

	NORTHBOUND		SC	SOUTHBOUND		EASTBOUND			WESTBOUND					
			Willow			Willow			Valley			Valley		
		NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
	LANES:	1	0.5	0.5	0.3	0.3	0.3	1	1.5	0.5	1	1.5	0.5	
	7:00 AM	1	0	1	30	0	8	7	127	0	0	69	18	261
	7:15 AM	0	0	1	44	0	8	2	118	0	2	103	22	300
	7:30 AM	1	0	0	46	0	12	8	143	0	0	140	11	361
	7:45 AM	0	0	0	45	0	21	5	178	0	2	113	9	373
	8:00 AM	0	0	1	40	0	8	5	141	0	2	97	14	308
	8:15 AM	0	0	0	21	1	12	7	112	0	0	71	12	236
	8:30 AM	0	0	0	38	1	6	3	101	2	1	88	17	257
ΑM	8:45 AM	2	0	0	29	0	8	6	119	0	0	94	16	274
₹	VOLUMES	4	0	3	293	2	83	43	1,039	2	7	775	119	2,370
	APPROACH %	57%	0%	43%	78%	1%	22%	4%	96%	0%	1%	86%	13%	
	APP/DEPART	7	/	162	378	/	11	1,084	/	1,335	901	/	862	0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	1	0	2	175	0	49	20	580	0	6	453	56	1,342
	APPROACH %	33%	0%	67%	78%	0%	22%	3%	97%	0%	1%	88%	11%	
	PEAK HR FACTOR		0.750			0.848			0.820			0.853		0.899
	APP/DEPART	3	/	76	224	/	6	600	/	757	515	/	503	0
	4:00 PM	0	2	1	30	1	2	12	156	2	3	123	41	373
	4:15 PM	3	1	0	25	0	10	5	163	0	3	160	33	403
	4:30 PM	0	0	1	50	1	11	10	200	0	1	128	35	437
	4:45 PM	1	1	5	37	0	7	13	175	4	1	158	35	437
	5:00 PM	1	0	1	33	0	2	16	186	1	2	166	36	444
	5:15 PM	1	0	5	34	0	6	11	168	0	2	159	24	410
	5:30 PM	0	0	3	28	0	4	7	141	1	2	146	31	363
₽	5:45 PM	0	0	1	22	0	9	9	144	0	1	165	36	387
Д	VOLUMES	6	4	17	259	2	51	83	1,333	8	15	1,205	271	3,254
	APPROACH %	22%	15%	63%	83%	1%	16%	6%	94%	1%	1%	81%	18%	
	APP/DEPART	27	/	357	312	/	23	1,424	/	1,611	1,491	/	1,263	0
	BEGIN PEAK HR		4:30 PM											
	VOLUMES	3	1	12	154	1	26	50	729	5	6	611	130	1,728
	APPROACH %	19%	6%	75%	85%	1%	14%	6%	93%	1%	1%	82%	17%	
	PEAK HR FACTOR		0.571			0.730			0.933			0.915		0.973
	APP/DEPART	16	/	180	181	/	11	784	/	896	747	/	641	0

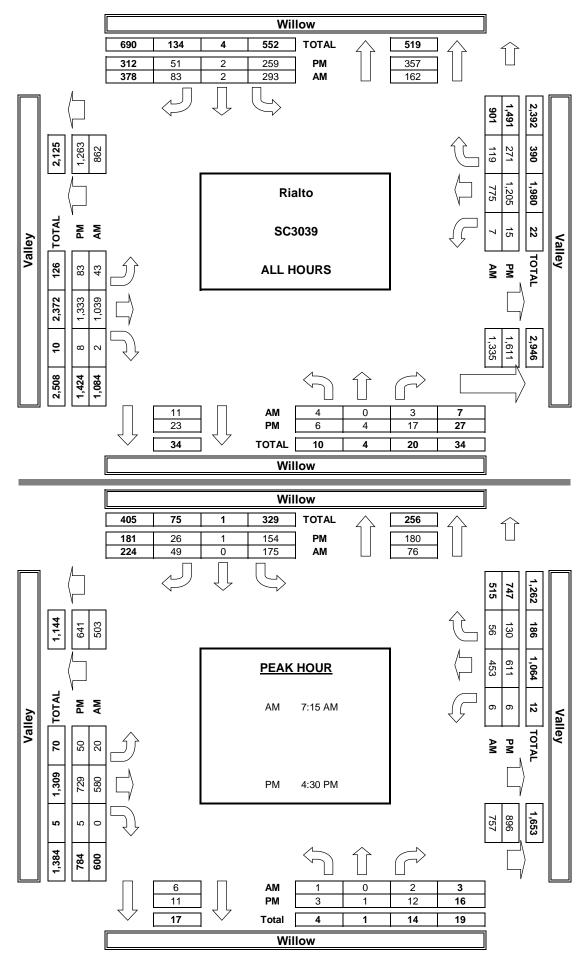


	7:00 AM
	7:15 AM
	7:30 AM
_	7:45 AM
AM	8:00 AM
	8:15 AM
	8:30 AM
	8:45 AM
	TOTAL
	AM BEGIN PEAK HR
	4:00 PM
	4:15 PM
	4:30 PM
-	4:45 PM
ΡM	5:00 PM
	5:15 PM
	5:30 PM
	5:45 PM
	TOTAL
	PM BEGIN PEAK HR

PED	PEDESTRIAN + BIKE CROSSINGS											
N SIDE	S SIDE	E SIDE	W SIDE	TOTAL								
0	0	0	0	0								
0	0	0	0	0								
0	0	0	0	0								
0	0	0	0	0								
0	0	0	0	0								
0	0	0	0	0								
0	0	0	0	0								
0	0	0	0	0								
0	0	0	0	0								
7:15 AM												
0	0	0	0	0								
0	0	0	0	0								
0	0	0	0	0								
0	0	0	0	0								
0	0	0	0	0								
0	0	0	0	0								
0	0	0	0	0								
0	0	0	0	0								
0	0	0	0	0								
		4:30 PM										

l	PEDEST	<u>RIAN CR</u>	OSSING	S
N SIDE	S SIDE	E SIDE	W SIDE	TOTAL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

AIMTD LLC
TURNING MOVEMENT COUNTS



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

DATE:
Thu, Sep 2, 21

NORTH & SOUTH:
EAST & WEST:

Control:

Rialto

Rialto

Gateway Plaza

LOCATION #: 7

CONTROL:

SIGNAL

NOTES:

Queue EB AM/PM

Queue EB AM/PM

AN
N

B

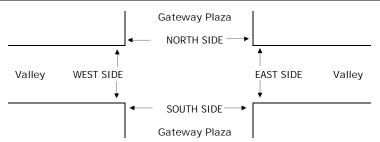
OTHER

S

OTHER

S

		NORTHBOUND			SC	SOUTHBOUND		EASTBOUND			WESTBOUND			
			Gateway Plaza	a	G	Sateway Plaza			Valley			Valley		
		NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
	LANES:	1	0.5	0.5	0	1	0	1	3	0	1	2	0	
	7:00 AM	0	0	0	0	0	2	3	181	0	0	86	0	272
	7:15 AM	0	0	0	2	0	1	1	163	0	1	119	0	287
	7:30 AM	0	0	0	0	0	1	3	174	0	1	152	0	331
	7:45 AM	0	0	0	0	0	4	1	227	0	0	124	0	356
	8:00 AM	0	0	0	1	0	1	5	174	0	0	109	3	293
	8:15 AM	0	0	0	2	0	3	6	156	0	2	81	0	250
	8:30 AM	0	1	0	1	0	0	2	132	2	3	110	1	252
ΑM	8:45 AM	0	0	1	1	0	3	4	138	1	4	101	3	256
₹	VOLUMES	0	1	1	7	0	15	25	1,345	3	11	882	7	2,297
	APPROACH %	0%	50%	50%	32%	0%	68%	2%	98%	0%	1%	98%	1%	
	APP/DEPART	2	/	33	22	/	3	1,373	/	1,364	900	/	897	0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	0	0	0	3	0	7	10	738	0	2	504	3	1,267
	APPROACH %	0%	0%	0%	30%	0%	70%	1%	99%	0%	0%	99%	1%	
	PEAK HR FACTOR		0.000			0.625			0.820			0.832		0.890
	APP/DEPART	0	/	13	10	/	0	748	/	743	509	/	511	0
	4:00 PM	1	0	1	0	0	8	8	162	1	3	165	3	352
	4:15 PM	0	0	2	1	0	5	7	204	1	1	169	2	392
	4:30 PM	1	0	0	0	0	5	14	208	0	3	163	2	396
	4:45 PM	0	0	0	2	0	5	10	217	0	4	193	6	437
	5:00 PM	0	0	0	3	0	6	8	212	0	9	179	0	417
	5:15 PM	0	0	0	2	0	2	10	206	0	6	191	2	419
	5:30 PM	0	0	1	1	0	4	9	164	0	4	193	0	376
₽	5:45 PM	0	0	0	3	0	6	2	177	0	0	176	1	365
Ф	VOLUMES	2	0	4	12	0	41	68	1,550	2	30	1,429	16	3,154
	APPROACH %	33%	0%	67%	23%	0%	77%	4%	96%	0%	2%	97%	1%	
	APP/DEPART	6	/	84	53	/	5	1,620	/	1,593	1,475	/	1,472	0
	BEGIN PEAK HR		4:30 PM											
	VOLUMES	1	0	0	7	0	18	42	843	0	22	726	10	1,669
1	APPROACH %	100%	0%	0%	28%	0%	72%	5%	95%	0%	3%	96%	1%	<b> </b>
1	PEAK HR FACTOR		0.250			0.694			0.975			0.933		0.955
1	APP/DEPART	1	/	52	25	/	2	885	/	870	758	/	745	0

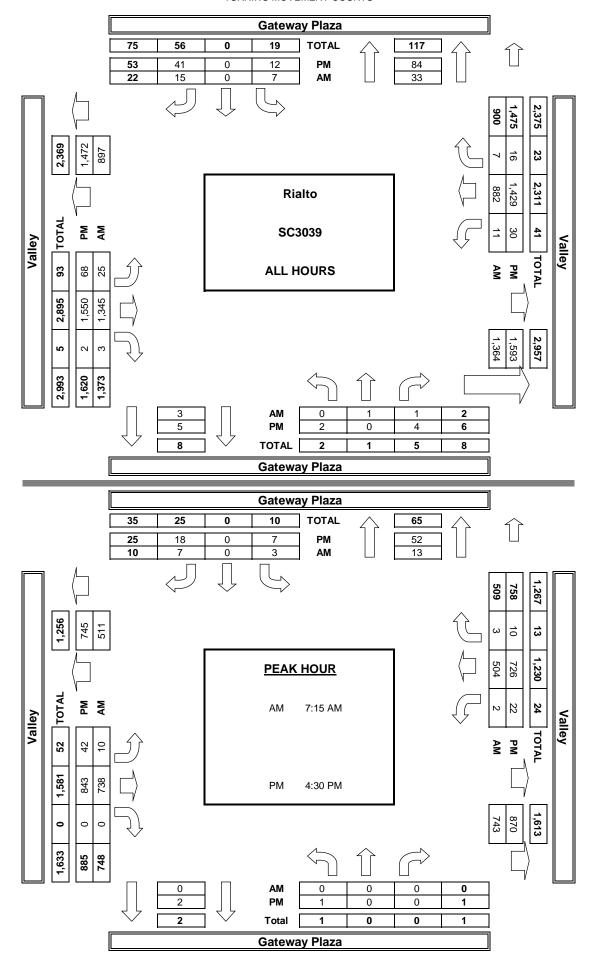


	7:00 AM
	7:15 AM
	7:30 AM
_	7:45 AM
AM	8:00 AM
	8:15 AM
	8:30 AM
	8:45 AM
	TOTAL
	AM BEGIN PEAK HR
	4:00 PM
	4:15 PM
	4:30 PM
_	4:45 PM
PM	5:00 PM
	5:15 PM
	5:30 PM
	5:45 PM
	TOTAL
	PM BEGIN PEAK HR

N SIDE	CCIDE						
IN SIDE	S SIDE	E SIDE	W SIDE	TOTAL			
0	0	0	0	0			
0	0	0	0	0			
0	0	0	0	0			
0	0	0	0	0			
0	0	0	0	0			
0	0	0	0	0			
0	0	0	0	0			
0	0	0	0	0			
0	0	0	0	0			
		7:15 AM					
0	0	0	0	0			
0	0	0	0	0			
0	0	0	0	0			
0	0	0	0	0			
0	0	0	0	0			
0	0	0	0	0			
0	0	0	0	0			
0	0	0	0	0			
0	0	0	0	0			
4:30 PM							

l	PEDEST	<u>RIAN CR</u>	OSSING	S
N SIDE	S SIDE	E SIDE	W SIDE	TOTAL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
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0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

AIMTD LLC
TURNING MOVEMENT COUNTS



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

 DATE:
 LOCATION:
 Rialto
 PROJECT #:
 SC3039

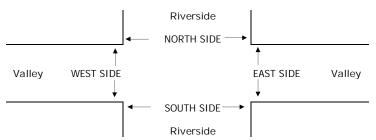
 Thu, Sep 2, 21
 NORTH & SOUTH:
 Riverside
 LOCATION #:
 8

 EAST & WEST:
 Valley
 CONTROL:
 SIGNAL

 NOTES:
 AM PM PM N
 N
 N
 E ►

 Queue SB PM
 OTHER
 S
 S

		NO	ORTHBOU	IND	SC	OUTHBOU	ND	E,	ASTBOUN	ID	W	/ESTBOUN	ID	
			Riverside			Riverside			Valley			Valley		
		NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
	LANES:	2	2.5	0.5	1	2.5	0.5	1	2	1	1	2	1	
	7:00 AM	63	151	32	8	218	4	9	59	124	35	29	11	743
	7:15 AM	93	151	27	11	245	9	8	23	128	30	28	6	759
	7:30 AM	93	142	21	13	265	4	6	33	126	43	49	8	803
	7:45 AM	84	126	28	12	226	8	8	81	134	39	35	9	790
	8:00 AM	65	155	30	10	199	11	17	47	110	39	38	16	737
	8:15 AM	47	128	25	22	209	7	13	50	102	33	32	9	677
	8:30 AM	74	120	26	10	160	11	15	42	83	38	34	14	627
AM	8:45 AM	69	144	28	14	150	10	19	35	88	26	38	15	636
⋖	VOLUMES	588	1,117	217	100	1,672	64	95	370	895	283	283	88	5,772
	APPROACH %	31%	58%	11%	5%	91%	3%	7%	27%	66%	43%	43%	13%	
	APP/DEPART	1,922	/	1,298	1,836	/	2,858	1,360	/	689	654	/	927	0
	BEGIN PEAK HR		7:00 AM											
	VOLUMES	333	570	108	44	954	25	31	196	512	147	141	34	3,095
	APPROACH %	33%	56%	11%	4%	93%	2%	4%	27%	69%	46%	44%	11%	
	PEAK HR FACTOR		0.933			0.907			0.828			0.805		0.964
	APP/DEPART	1,011	/	634	1,023	/	1,615	739	/	349	322	/	497	0
	4:00 PM	90	276	37	15	170	10	12	71	93	28	63	25	890
	4:15 PM	85	251	47	26	182	18	28	82	107	36	84	22	968
	4:30 PM	108	306	48	14	180	15	21	70	122	33	58	32	1,007
	4:45 PM	99	291	44	22	192	12	30	93	81	46	79	31	1,020
	5:00 PM	92	286	45	37	157	16	17	117	113	34	89	30	1,033
	5:15 PM	102	319	41	31	205	16	20	86	106	39	82	27	1,074
	5:30 PM	89	280	28	21	179	11	32	57	92	33	75	35	932
PΜ	5:45 PM	114	314	29	26	170	11	19	62	94	25	73	26	963
۵	VOLUMES	779	2,323	319	192	1,435	109	179	638	808	274	603	228	7,887
	APPROACH %	23%	68%	9%	11%	83%	6%	11%	39%	50%	25%	55%	21%	
	APP/DEPART	3,421	/	2,729	1,736	/	2,514	1,625	/	1,149	1,105	/	1,495	0
	BEGIN PEAK HR		4:30 PM											
	VOLUMES	401	1,202	178	104	734	59	88	366	422	152	308	120	4,134
1	APPROACH %	23%	67%	10%	12%	82%	7%	10%	42%	48%	26%	53%	21%	
1	PEAK HR FACTOR		0.964			0.890			0.887			0.929		0.962
	APP/DEPART	1,781	/	1,408	897	/	1,307	876	/	650	580	/	769	0

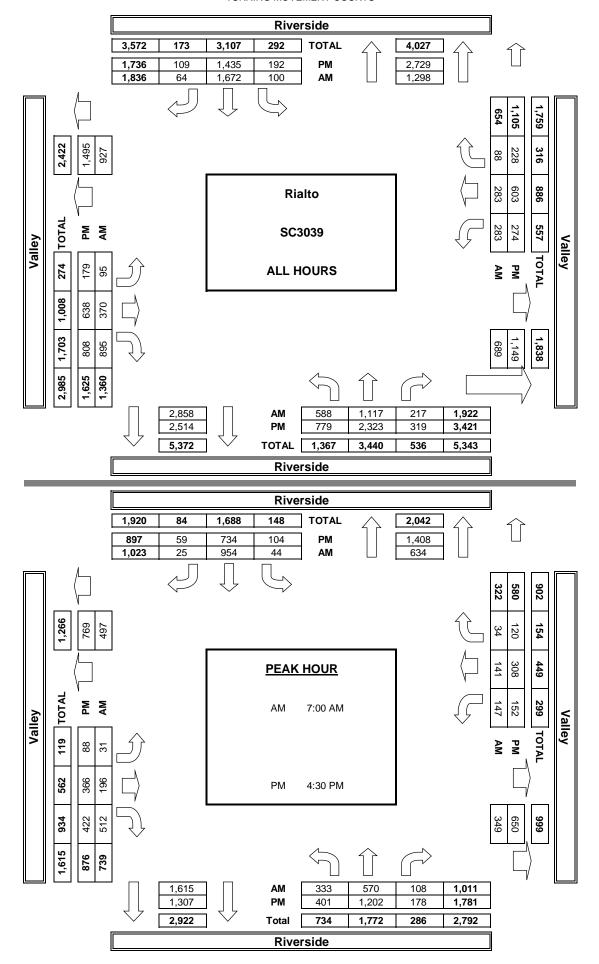


	7:00 AM
	7:15 AM
	7:30 AM
_	7:45 AM
ΑM	8:00 AM
	8:15 AM
	8:30 AM
	8:45 AM
	TOTAL
	AM BEGIN PEAK HR
	4:00 PM
	4:15 PM
	4:30 PM
_	4:45 PM
PΜ	5:00 PM
	5:15 PM
	5:30 PM
	5:45 PM
	TOTAL
	PM BEGIN PEAK HR

PED	ESTRIA	N + BIKE	CROSSI	NGS
N SIDE	S SIDE	E SIDE	W SIDE	TOTAL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
		7:00 AM		
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
	•	4:30 PM	•	•

DESTF SIDE 0 0 0 0 0 0 0 0 0	E SIDE  0 0 0 0 0 0 0 0 0 0 0 0	0	TOTAL 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0
0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0
0 0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0
0 0 0 0	0 0 0 0	0 0 0 0	0 0 0
0 0 0	0 0	0 0 0	0 0 0
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0		^	0
	0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

AIMTD LLC
TURNING MOVEMENT COUNTS



## INTERSECTION TURNING MOVEMENT COUNTS

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

 DATE:
 LOCATION:
 Rialto
 PROJECT #:
 SC3039

 Thu, Sep 2, 21
 NORTH & SOUTH:
 Riverside
 LOCATION #:
 9

 EAST & WEST:
 I-10 WB Ramps
 CONTROL:
 SIGNAL

NOTES:

Queue SB AM/PM; NB PM

Queue SB AM/PM; NB PM

AN
N
MD

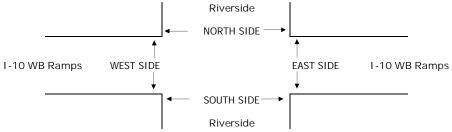
✓ W

E ►

OTHER

OTHER

		NO	ORTHBOU	IND	SC	OUTHBOU	ND	E.	ASTBOUN	ID	W	ESTBOUN	ND .	
			Riverside			Riverside			I-10 WB Ramp	s		I-10 WB Ram	ps	
		NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
	LANES:	2	3	X	X	4	1	Χ	X	X	1.3	0.3	1.3	
П	7:00 AM	35	166	0	0	204	157	0	0	0	100	1	84	747
	7:15 AM	39	172	0	0	280	138	0	0	0	85	1	97	812
	7:30 AM	29	153	0	0	268	144	0	0	0	119	0	101	814
	7:45 AM	36	133	0	0	297	105	0	0	0	125	0	105	801
	8:00 AM	38	164	0	0	249	130	0	0	0	129	0	76	786
	8:15 AM	39	135	0	0	213	120	0	0	0	96	0	55	658
	8:30 AM	36	128	0	0	167	106	0	0	0	109	0	97	643
₽	8:45 AM	46	147	0	0	193	96	0	0	0	78	0	82	642
₹	VOLUMES	298	1,198	0	0	1,871	996	0	0	0	841	2	697	5,904
	APPROACH %	20%	80%	0%	0%	65%	35%	0%	0%	0%	55%	0%	45%	
	APP/DEPART	1,496	/	1,896	2,868	/	2,712	0	/	0	1,540	/	1,296	0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	142	622	0	0	1,094	517	0	0	0	458	1	379	3,214
	APPROACH %	19%	81%	0%	0%	68%	32%	0%	0%	0%	55%	0%	45%	
	PEAK HR FACTOR		0.905			0.964			0.000			0.911		0.987
	APP/DEPART	764	/	1,002	1,612	/	1,552	0	/	0	838	/	660	0
	4:00 PM	66	306	0	0	226	93	0	0	0	74	0	124	889
	4:15 PM	54	266	0	0	224	96	0	0	0	91	0	117	848
	4:30 PM	54	337	0	0	207	92	0	0	0	76	0	105	871
	4:45 PM	68	327	0	0	239	103	0	0	0	98	1	115	951
	5:00 PM	75	325	0	0	182	103	0	0	0	93	1	106	885
	5:15 PM	62	313	0	0	239	88	0	0	0	69	2	102	875
	5:30 PM	78	340	0	0	210	99	0	0	0	79	0	95	901
₽	5:45 PM	60	337	0	0	213	99	0	0	0	66	1	112	888
۵	VOLUMES	517	2,551	0	0	1,740	773	0	0	0	646	5	876	7,108
	APPROACH %	17%	83%	0%	0%	69%	31%	0%	0%	0%	42%	0%	57%	
	APP/DEPART	3,068	/	3,427	2,513	/	2,386	0	/	0	1,527	/	1,295	0
	BEGIN PEAK HR		4:45 PM											
	VOLUMES	283	1,305	0	0	870	393	0	0	0	339	4	418	3,612
1	APPROACH %	18%	82%	0%	0%	69%	31%	0%	0%	0%	45%	1%	55%	
I	PEAK HR FACTOR		0.950			0.923			0.000			0.889		0.950
	APP/DEPART	1,588	/	1,723	1,263	/	1,209	0	/	0	761	/	680	0

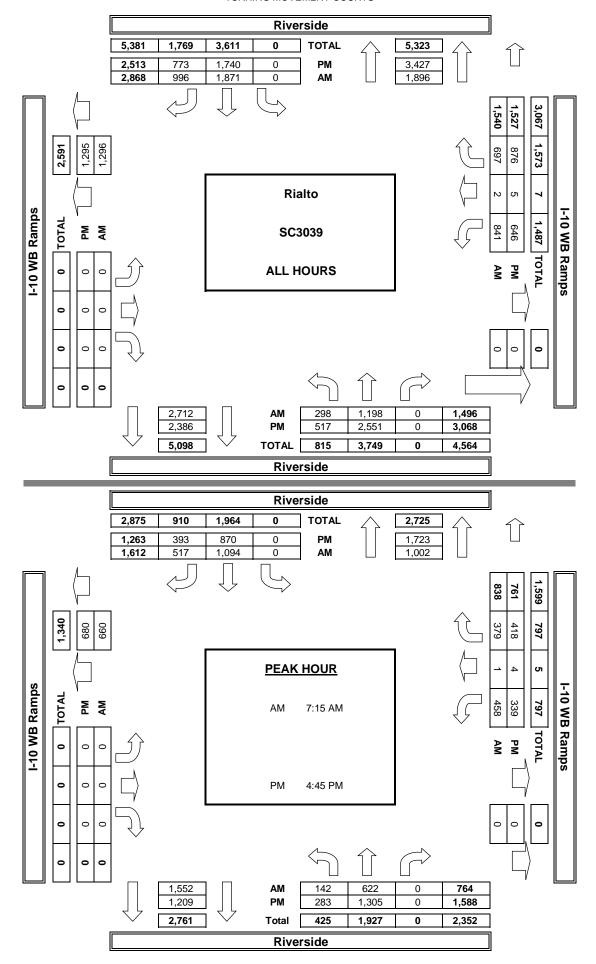


	7:00 AM
	7:15 AM
	7:30 AM
_	7:45 AM
AM	8:00 AM
	8:15 AM
	8:30 AM
	8:45 AM
	TOTAL
	AM BEGIN PEAK HR
	4:00 PM
	4:15 PM
	4:30 PM
_	4:45 PM
PM	5:00 PM
	5:15 PM
	5:30 PM
	5:45 PM
	TOTAL
	PM BEGIN PEAK HR

PED	ESTRIAI	N + BIKE	CROSSI	NGS
N SIDE	S SIDE	E SIDE	W SIDE	TOTAL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
		7:15 AM		
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
		4:45 PM		

	PEDEST	RIAN CR	ROSSING	SS
N SIDE	S SIDE	E SIDE	W SIDE	TOTAL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0				
U	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0 0 0	0 0	0 0 0	0 0	0 0 0
0 0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0
0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0 0	0 0 0 0
0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0
0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0
0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0

AIMTD LLC
TURNING MOVEMENT COUNTS



## INTERSECTION TURNING MOVEMENT COUNTS

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

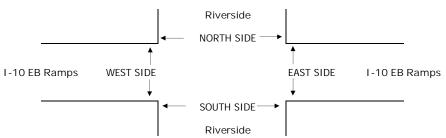
 DATE:
 LOCATION:
 Rialto
 PROJECT #:
 SC3039

 Thu, Sep 2, 21
 NORTH & SOUTH:
 Riverside
 LOCATION #:
 10

 EAST & WEST:
 I-10 EB Ramps
 CONTROL:
 SIGNAL

NOTES:	AM	<b>A</b>	
	PM	N	i
	MD ◀ W	•	E►
	OTHER	S	
	OTHER	▼	ı

		NO	ORTHBOU	IND	S	OUTHBOU	IND	E,	ASTBOUN	ND	W	/ESTBOUN	ID	
			Riverside			Riverside			I-10 EB Ramp	s		I-10 EB Ramp	os.	
		NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
	LANES:	X	2.5	0.5	2	2	X	1.3	0.3	1.3	X	X	Χ	
	7:00 AM	0	127	71	92	212	0	<b>7</b> 5	0	49	0	0	0	626
	7:15 AM	0	155	85	119	246	0	56	0	56	0	0	0	717
	7:30 AM	0	144	80	117	270	0	38	0	42	0	0	0	691
	7:45 AM	0	129	105	109	313	0	40	0	58	0	0	0	754
	8:00 AM	0	120	78	111	267	0	82	0	87	0	0	0	745
	8:15 AM	0	108	75	86	220	0	66	0	57	0	0	0	612
	8:30 AM	0	105	67	82	194	0	59	0	76	0	0	0	583
ΑM	8:45 AM	0	125	94	94	177	0	68	1	67	0	0	0	626
₹	VOLUMES	0	1,013	655	810	1,899	0	484	1	492	0	0	0	5,354
	APPROACH %	0%	61%	39%	30%	70%	0%	50%	0%	50%	0%	0%	0%	
	APP/DEPART	1,668	/	1,497	2,709	/	2,391	977	/	1,466	0	/	0	0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	0	548	348	456	1,096	0	216	0	243	0	0	0	2,907
	APPROACH %	0%	61%	39%	29%	71%	0%	47%	0%	53%	0%	0%	0%	
	PEAK HR FACTOR		0.933			0.919			0.679			0.000		0.964
	APP/DEPART	896	/	764	1,552	/	1,339	459	/	804	0	/	0	0
	4:00 PM	0	245	131	81	219	0	127	0	52	0	0	0	855
	4:15 PM	0	202	105	101	212	0	118	0	70	0	0	0	808
	4:30 PM	0	246	143	96	187	0	145	0	65	0	0	0	882
	4:45 PM	0	274	133	87	250	0	121	0	72	0	0	0	937
	5:00 PM	0	263	117	75	200	0	137	0	64	0	0	0	856
	5:15 PM	0	251	100	77	231	0	124	0	73	0	0	0	856
	5:30 PM	0	285	88	106	183	0	138	0	96	0	0	0	896
₽M	5:45 PM	0	288	99	81	198	0	109	0	70	0	0	0	845
Д	VOLUMES	0	2,054	916	704	1,680	0	1,019	0	562	0	0	0	6,935
	APPROACH %	0%	69%	31%	30%	70%	0%	64%	0%	36%	0%	0%	0%	
	APP/DEPART	2,970	/	3,073	2,384	/	2,242	1,581	/	1,620	0	/	0	0
	BEGIN PEAK HR		4:45 PM											
1	VOLUMES	0	1,073	438	345	864	0	520	0	305	0	0	0	3,545
	APPROACH %	0%	71%	29%	29%	71%	0%	63%	0%	37%	0%	0%	0%	
1	PEAK HR FACTOR		0.928			0.897			0.881		L	0.000		0.946
	APP/DEPART	1,511	/	1,593	1,209	/	1,169	825	/	783	0	/	0	0

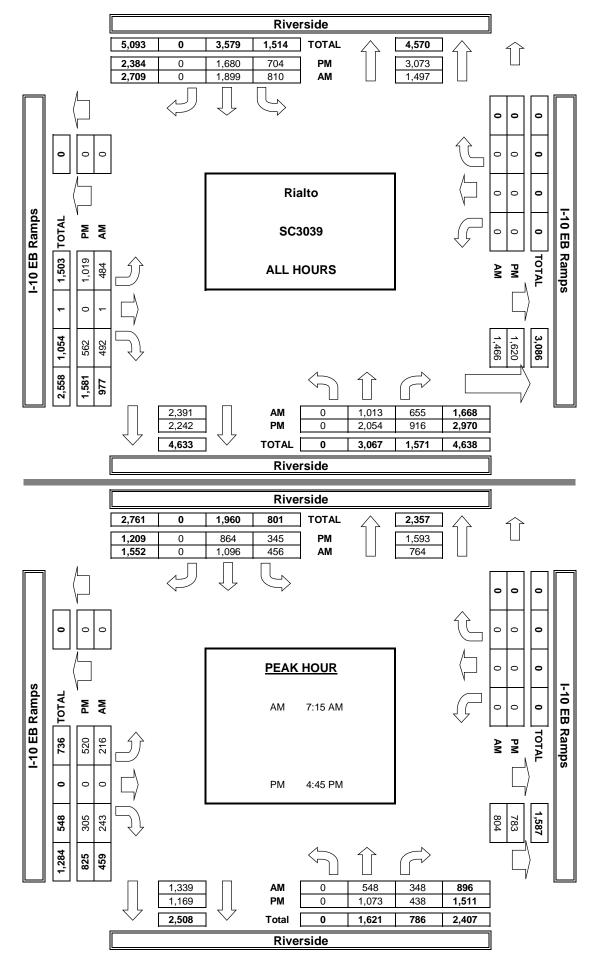


	7:00 AM
	7:15 AM
	7:30 AM
_	7:45 AM
ΑM	8:00 AM
	8:15 AM
	8:30 AM
	8:45 AM
	TOTAL
	AM BEGIN PEAK HR
	4:00 PM
	4:15 PM
	4:30 PM
_	4:45 PM
PΜ	5:00 PM
	5:15 PM
	5:30 PM
	5:45 PM
	TOTAL
	PM BEGIN PEAK HR

PED	ESTRIA	N + BIKE	CROSSI	NGS
N SIDE	S SIDE	E SIDE	W SIDE	TOTAL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
		7:15 AM		
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
		4:45 PM		

	PEDEST	RIAN CR	ROSSING	SS
N SIDE	S SIDE	E SIDE	W SIDE	TOTAL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
	_			
0	0	0	0	0
0	0	0	0	0
0 0 0	0 0	0 0 0	0 0	0 0
0 0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0 0
0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0 0	0 0 0 0
0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0
0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0
0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0

AIMTD LLC
TURNING MOVEMENT COUNTS



Thursday							- KIAILU					ROJECT: 3C3U39	O +-1 714 0F0 70
ADT1 Rive	ersid	e Ave	betw	een Se	nior Way to Rialto	Marketp	lace.				Pre	epared by AimTD LL	C tel. / 14 253 /8
AM Period	NB		SB				PM Period	NB		SB			
0:00	51		42				12:00	248		206			
0:15	52		44				12:15	267		226			
0:30 0:45	61 54	218	33	144		362	12:30 12:45	285	1052	275 242	949		2001
	43	210	28			302		252	1032	236	747		2001
1:00 1:15	33		23				13:00 13:15	225		261			
1:30	44		25				13:30	265		264			
1:45	38	158		109		267	13:45		1075		1001		2076
2:00	26		34				14:00	294		247			
2:15	31		46				14:15	305		277			
2:30	31		44				14:30	345		284			
2:45	25	113		163		276	14:45		1289		1074		2363
3:00	21		51				15:00	360		238			
3:15	23		70				15:15	360		272			
3:30 3:45	27 24	95	103	316		411	15:30 15:45	325 424	1469	297	1049		2518
4:00	39	/3	78			711	16:00	334	1407	230	1047		2310
4:00	33		141				16:15	329		252			
4:30	50		228				16:30	375		250			
4:45	40	162	205	652		814	16:45		1400	242	974		2374
5:00	49		199				17:00	348		242			
5:15	49		247				17:15	395		256			
5:30	48		286				17:30	379		267			
5:45	66	212	211	943		1155	17:45		1521	211	976		2497
6:00	67		167				18:00	339		259			
6:15	89		200				18:15	349		265			
6:30 6:45	111 114	381	251 253	871		1252	18:30 18:45	345 305	1338	206 217	947		2285
7:00	175	301	250	071		1232	19:00	312	1330	232	747		2203
7:00 7:15	159		250				19:00	289		191			
7:30	161		313				19:30	298		223			
7:45	141	636	250	1063		1699	19:45	271	1170	186	832		2002
8:00	189		292				20:00	232		214			
8:15	157		240				20:15	274		207			
8:30	148		239				20:30	230		159			
8:45		675		978		1653	20:45		959	172	752		1711
9:00	191		205				21:00	189		149			
9:15 9:30	167 200		201 210				21:15 21:30	190 167		156 131			
9:45	246	804		824		1628	21:45	171	717	117	553		1270
10:00	235	00.	217			.020	22:00	164		94	000		1270
10:05	249		208				22:15	154		122			
10:30	200		225				22:30	127		76			
10:45	215	899	212	862		1761	22:45	121	566	81	373		939
11:00	208		197				23:00	110		77			
11:15	228		258				23:15	98		69			
11:30	251	007	259	005		40/1	23:30	94	200	61	2/2		
11:45	249	936	211	925		1861	23:45	88	390	55	262		652
Γotal Vol.		5289		7850		13139			12946		9742		22688
											65	Daily Totals	
								-	NB		SB		Combined
					AM				18235		17592	PM	35827
Split %		40.3%		59.7%	AIVI	36.7%			57.1%		42.9%	FIVI	63.3%
Peak Hour		11:45		7:15		11:45			17:00		14:00		15:00
Volume		1049		1105		1967			1521		1074		2518
P.H.F.		0.92		0.88		0.88			0.95		0.95	***************************************	0.95

	Ju	CAVC	DCLW	een Gai	eway i laza-	/alue Center t	o valley bo	uieva	ıu.		110	pared by AimTD LI	_C (el. / 14 203 / 00
AM Period	NB		SB				PM Period	NB		SB			
0:00	49		43				12:00	244		203			
0:15	48		43				12:15	260		211			
0:30	58		34				12:30	263		255			
0:45	56	211	26	146		357	12:45	224	991	227	896		1887
1:00	44		29				13:00	235		216			
1:15	36		25				13:15	230		252			
1:30	38		18			252	13:30	234	4000	214			
1:45	36	154		104		258	13:45		1023	206	888		1911
2:00	33		39				14:00	283		203			
2:15	27		44				14:15	304		233			
2:30 2:45	28 30	118	43	168		286	14:30 14:45	307	1218	241 245	922		2140
	19	110	52	100		200		347	1210	223	722		2140
3:00 3:15	21		65				15:00 15:15	351		237			
3:30	22		101				15:30	315		265			
3:45	25	87		307		394	15:45		1421	215	940		2361
4:00	40		77				16:00	322		202			
4:15	30		139				16:15	314		241			
4:30	54		223				16:30	358		217			
4:45	49	173	202	641		814	16:45	358	1352	223	883		2235
5:00	58		181				17:00	328		219			
5:15	59		240				17:15	390		234			
5:30	65		282				17:30	345		232			
5:45	70	252	202	905		1157	17:45	377	1440	187	872		2312
6:00	69		170				18:00	317		213			
6:15	87		189				18:15	339		229			
6:30	116		233				18:30	332		172			
6:45	119	391	250	842		1233	18:45	295	1283	199	813		2096
7:00	177		245				19:00	298		207			
7:15	163		248				19:15	265		180			
7:30	160		300				19:30	285		212			
7:45	149	649	217	1010		1659	19:45	257	1105	178	777		1882
8:00	190		241				20:00	223		178			
8:15	158		217				20:15	249		183			
8:30	150	/ O1	194	022		1502	20:30	214	007	150	(()		1540
8:45	183	681	170	822		1503	20:45	201	887	151	662		1549
9:00	179		179				21:00	176		150			
9:15 9:30	160 198		177 186				21:15 21:30	172 163		155 122			
9:30	240	777	180	722		1499	21:30	148	659	109	536		1195
10:00	228	,,,	180	122		1477	22:00	152	037	90	330		1175
10:00	240		190				22:00	136		118			
10:15	183		196				22:30	108		78			
10:35	193	844	196	762		1606	22:45	107	503	79	365		868
11:00	204	•	170			***	23:00	91		80			
	231		211				23:15	92		64			
11:30	224		232				23:30	98		64			
11:45	238	897	178	791		1688	23:45	92	373	54	262		635
Total Vol.	_	5234		7220		12454			12255		8816		21071
				*								Daily Totals	
									NB		SB	Daily Totals	Combined
								-	17489		16036		33525
					AM							PM	
Split %		42.0%		58.0%		37.1%			58.2%		41.8%		62.9%
Peak Hour		11:45		6:45		11:45			17:00		14:45		15:00
Volume		1005		1043 0.87		1852 0.89			1440		970		2361

Thursday ADT3 Willo				alley Boulevard to	San Berr	nardino Ave	nue.			Pre	pared by AimTD LL	C tel. 714 253 788
AM Period			SB			PM Period	NB		SB			
0:00	2		4			12:00	29		30			
0:15	4		8			12:15	27		23			
0:30	6		5			12:30	25		37			
0:45	3	15	1 18		33	12:45	26	107	24	114		221
1:00	7		3			13:00	31		24			
1:15	5		4			13:15	30		41			
1:30	6		4			13:30	41		47			
1:45	3	21	5 16		37	13:45	39	141	38	150		291
2:00	0		4			14:00	37		45			
2:15	3		9			14:15	26		32			
2:30	1		6			14:30	29		49			
2:45	2	6	4 23		29	14:45	37	129	37	163		292
3:00	2		5			15:00	43		46			
3:15	3		11			15:15	32		39			
3:30	1		13			15:30	55		43			
3:45	2	8	19 48		56	15:45	48	178	44	172		350
4:00	7		15			16:00	55		33			
4:15	3		35			16:15	39		35			
4:30	9		40			16:30	44		62			
4:45	6	25	39 129		154	16:45	49	187	44	174		361
5:00	6		28			17:00	52		35			
5:15	10		44			17:15	35		40			
5:30	7	0.7	55		005	17:30	38	470	32	400		200
5:45	14	37	41 168		205	17:45	45	170	31	138		308
6:00	10		35			18:00	39		43			
6:15	15		33			18:15	43		30			
6:30	17	EO	49 45 142		220	18:30	39	141	33	140		212
6:45	16	58	45 162		220	18:45	43	164	42	148		312
7:00	25		38			19:00	37		36			
7:15 7:30	24 19		52 58			19:15 19:30	36 24		30 37			
7:30 7:45	14	82	66 214		296	19:45	29	126	18	121		247
8:00	19	02	48		270	20:00	28	120	25	121		217
8:15	19		34			20:00	29		16			
8:30	20		45			20:30	23		23			
8:45	22	80	37 164		244	20:45		104	20	84		188
9:00	19		27			21:00	20		12			
9:15	24		32			21:15	20		17			
9:30	26		45			21:30	20		14			
9:45	30	99	45 149		248	21:45	9	69	10	53		122
10:00	21		36			22:00	18		19		·	
10:15	25		31			22:15	21		16			
10:30	28		29			22:30	6		11			
10:45	20	94	<b>32</b> 128		222	22:45	10	55	11	57		112
11:00	30		41			23:00	9		7			
11:15	23		30			23:15	9		11			
11:30	28		38			23:30	6		5			
11:45	24	105	31 140		245	23:45	13	37	11	34		71
Total Vol.		630	1359		1989			1467		1408		2875
											Daily Totals	
							-	NB		SB		Combined
								2097		2767		4864
				AM							PM	
Split %		31.7%	68.3%		40.9%			51.0%		49.0%		59.1%
Peak Hour		11:30	7:15		7:15			15:30		16:30		16:00
		-										
Volume		108	224		300			197		181		361

Thursday Santamber 02 2021	CITY: Rialto	PROJECT: SC	3039

ADT4 Valley Bouleva	ırd between Wi	llow A	Avenu	ıe to R	iverside	Avenue.	Prepared by AimTD LLC tel. 714 253 7888						
AM Period	EB		WB			PM Period		EB		WB			
0:00	21		18			12:00		127		120			
0:15	34		26			12:15		116		134			
0:30	30		20			12:30		125		121			
0:45	22	107	15	79	186	12:45		132	500	133	508	1008	
1:00	35		23			13:00		146		114			
1:15	29		9			13:15		163		116			
1:30	15		17			13:30		165		139			
1:45	12	91	9	58	149	13:45		177	651	155	524	1175	
2:00	16		6			14:00		182		138			
2:15	24		14			14:15		183		154			
2:30	23	00	21	F.0	440	14:30		233	7/4	176		4.400	
2:45	19	82	17	58	140	14:45		163	761	193	661	1422	
3:00	19		15			15:00		195		175			
3:15	32		17			15:15		185		173			
3:30	37	120	26	77	21/	15:30		241	010	170	700	1500	
3:45	51	139	19	77	216	15:45		198	819	191	709	1528	
4:00	39		19			16:00		187		167			
4:15	80		12			16:15		189		196			
4:30 4:45	104 156	379	36 59	126	505	16:30 16:45		251 217	844	164 194	721	1565	
		3/7		120	303			220	044	204	721	1303	
5:00 5:15	112 134		43 37			17:00 17:15		208		185			
5:30	155		42			17:13		172		179			
5:45	150	551	67	189	740	17:45		167	767	202	770	1537	
6:00	123		42	.07	7 10	18:00		185		159	7.0	1007	
6:15	122		52			18:15		141		142			
6:30	153		61			18:30		141		144			
6:45	186	584	77	232	816	18:45		150	617	123	568	1185	
7:00	158		87			19:00		131		121			
7:15	163		127			19:15		117		111			
7:30	189		151			19:30		115		86			
7:45	223	733	124	489	1222	19:45		101	464	104	422	886	
8:00	182		113			20:00		88		87			
8:15	133		83			20:15		95		74			
8:30	139		106			20:30		82		68			
8:45	148	602	110	412	1014	20:45		67	332	64	293	625	
9:00	135		121			21:00		46		64			
9:15	122		121			21:15		77		85			
9:30	137		100			21:30		65		94			
9:45	134	528	105	447	975	21:45		43	231	63	306	537	
10:00	115		100			22:00		53		104			
10:15	130		93			22:15		51		89			
10:30	132		101			22:30		36		75			
10:45	108	485	95	389	874	22:45		37	177	71	339	516	
11:00	132		120			23:00		37		54			
11:15	121		122			23:15		41		68			
11:30	170	F70	107	470	1010	23:30		30	4.40	66	0.40	400	
11:45	147	570	121	470	1040	23:45		32	140	75	263	403	
Total Vol.		4851		3026	7877				6303		6084	12387	
								Г	Daily To	otals			
									EB		WB	Combined	
									11154		9110	20264	
		AM							PM				
Split %		61.6%	)	38.4%	38.9%				50.9%	)	49.1%	61.1%	
Peak Hour		7:15		7:15	7:15				16:30		17:00	16:30	
Volume		757		515	1272				896		770	1643	
P.H.F.		0.85		0.85	0.92				0.89		0.94	0.97	

APPENDIX C

INTERSECTION ANALYSIS WORKSHEETS

## 1: San Bernardino Ave & Lilac Ave

ntersection	
ntersection Delay, s/veh	12.8
ntersection LOS	В

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4₽	7		4₽	7		ર્ન	7		4	7
Traffic Vol, veh/h	28	237	127	45	195	73	82	37	32	105	54	62
Future Vol, veh/h	28	237	127	45	195	73	82	37	32	105	54	62
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	30	258	138	49	212	79	89	40	35	114	59	67
Number of Lanes	0	2	1	0	2	1	0	1	1	0	1	1
Approach	EB			WB			NB			SB		
Opposing Approach	WB			EB			SB			NB		
Opposing Lanes	3			3			2			2		
Conflicting Approach Left	SB			NB			EB			WB		
Conflicting Lanes Left	2			2			3			3		
Conflicting Approach Right	NB			SB			WB			EB		
Conflicting Lanes Right	2			2			3			3		
HCM Control Delay	12.4			12.3			13.2			13.9		
HCM LOS	В			В			В			В		

Lane	NBLn1	NBLn2	EBLn1	EBLn2	EBLn3	WBLn1	WBLn2	WBLn3	SBLn1	SBLn2	
Vol Left, %	69%	0%	26%	0%	0%	41%	0%	0%	66%	0%	
Vol Thru, %	31%	0%	74%	100%	0%	59%	100%	0%	34%	0%	
Vol Right, %	0%	100%	0%	0%	100%	0%	0%	100%	0%	100%	
Sign Control	Stop										
Traffic Vol by Lane	119	32	107	158	127	110	130	73	159	62	
LT Vol	82	0	28	0	0	45	0	0	105	0	
Through Vol	37	0	79	158	0	65	130	0	54	0	
RT Vol	0	32	0	0	127	0	0	73	0	62	
Lane Flow Rate	129	35	116	172	138	120	141	79	173	67	
Geometry Grp	8	8	8	8	8	8	8	8	8	8	
Degree of Util (X)	0.289	0.068	0.235	0.34	0.246	0.249	0.286	0.145	0.375	0.127	
Departure Headway (Hd)	8.04	6.987	7.262	7.128	6.414	7.506	7.298	6.583	7.807	6.77	
Convergence, Y/N	Yes										
Cap	446	512	494	505	559	478	492	544	461	529	
Service Time	5.792	4.738	5.006	4.873	4.159	5.254	5.045	4.33	5.555	4.518	
HCM Lane V/C Ratio	0.289	0.068	0.235	0.341	0.247	0.251	0.287	0.145	0.375	0.127	
HCM Control Delay	14	10.3	12.2	13.5	11.3	12.7	13	10.5	15.2	10.5	
HCM Lane LOS	В	В	В	В	В	В	В	В	С	В	
HCM 95th-tile Q	1.2	0.2	0.9	1.5	1	1	1.2	0.5	1.7	0.4	

Interception												
Intersection	1465											
Intersection Delay, s/ve												
Intersection LOS	С											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		<b>∱</b> }			ħβ			र्स	7		4	
Traffic Vol, veh/h	14	326	32	19	272	70	19	52	11	83	178	23
Future Vol, veh/h	14	326	32	19	272	70	19	52	11	83	178	23
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	15	354	35	21	296	76	21	57	12	90	193	25
Number of Lanes	1	2	0	1	2	0	0	1	1	0	1	0
Approach	EB			WB			NB			SB		
Opposing Approach	WB			EB			SB			NB		
Opposing Lanes	3			3			3D			2		
Conflicting Approach Le				NB			EB			WB		
Conflicting Lanes Left	1			2			3			3		
Conflicting Approach Ri	•			SB			WB			EB		
Conflicting Lanes Right				1			3			3		
HCM Control Delay	15.3			14.3			12.8			23.1		
HCM LOS	C			В			В			C		
, =												
Lano	N	JDI n1 I	\IDI n2	EDI n1	EDI na	EDIna	M/DI n1\	MDI nau	MDI n2	CDI n1		
Lane Val Laft 9/								VBLn2V				
Vol Left, %		27%	0%	100%	0%		100%	0%	0%	29%		
Vol Thru, %		73% 0%	0% 100%	0% 0%	100%	77% 23%	0%	100%	56% 44%	63% 8%		
Vol Right, %												
Sign Control Traffic Vol by Lane		Stop 71	Stop 11	Stop 14	Stop 217	Stop 141	Stop 19	Stop 181	Stop 161	Stop 284		
LT Vol		19	0	14	0	0	19	0	0	83		
Through Vol		52	0	0	217	109	0	181	91	178		
RT Vol		0	11	0	0	32	0	0	70	23		
Lane Flow Rate		77	12	15	236	153	21	197	175	309		
Geometry Grp		8	8	8	8	8	8	8	8	8		
Degree of Util (X)			0.025		0.486			0.408				
Departure Headway (Ho								7.448				
Convergence, Y/N	ω,	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
Cap		424	470	452	487	495	449	483	503	478		
Service Time						4.998				5.287		
HCM Lane V/C Ratio						0.309						
HCM Control Delay		13.1	10.6	10.9	17	13.2	11.1	15.3	13.6	23.1		
HCM Lane LOS		В	В	В	C	В	В	С	В	C		
LICM OF the tile O		0.7	0.1	0.1	2 /	1 2	0.1	2	1 5	4 5		

0.7

0.1

0.1

2.6

1.3

0.1

2

1.5

4.5

HCM 95th-tile Q

	۶	<b>→</b>	•	•	<b>←</b>	•	4	<b>†</b>	<u> </u>	<b>&gt;</b>	ţ	✓	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	7	ħβ		7	<b>∱</b> ∱		- 4	<b>^</b>	7	7	ħβ		
Traffic Volume (veh/h)	77	203	107	301	231	73	55	383	135	88	679	84	
Future Volume (veh/h)	77	203	107	301	231	73	55	383	135	88	679	84	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No			No			No			No		
,	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	81	214	113	317	243	77	58	403	142	93	715	88	
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2	
Cap, veh/h	123	339	172	376	777	240	108	1269	566	136	1188	146	
Arrive On Green	0.07	0.15	0.15	0.21	0.29	0.29	0.06	0.36	0.36	0.08	0.37	0.37	
Sat Flow, veh/h	1781	2281	1158	1781	2672	826	1781	3554	1585	1781	3185	392	
Grp Volume(v), veh/h	81	165	162	317	160	160	58	403	142	93	399	404	
Grp Sat Flow(s), veh/h/li		1777	1662	1781	1777	1722	1781	1777	1585	1781	1777	1800	
Q Serve(g_s), s	3.9	7.6	8.0	14.9	6.1	6.3	2.8	7.2	5.5	4.4	15.8	15.8	
Cycle Q Clear(g_c), s	3.9	7.6	8.0	14.9	6.1	6.3	2.8	7.2	5.5	4.4	15.8	15.8	
Prop In Lane	1.00	0/4	0.70	1.00	F47	0.48	1.00	10/0	1.00	1.00	//0	0.22	
Lane Grp Cap(c), veh/h		264	247	376	517	501	108	1269	566	136	663	671	
V/C Ratio(X)	0.66	0.62	0.66	0.84	0.31	0.32	0.54	0.32	0.25	0.68	0.60	0.60	
Avail Cap(c_a), veh/h	247	775	725	501	1028	996	143	1269	566	174	663	671	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00 39.2	1.00	1.00 22.1	
Uniform Delay (d), s/veh	5.9	34.8	35.0 3.0	33.0 9.6	24.1	24.2	39.7 4.1	20.3	19.8 1.1	7.3	4.0	4.0	
Incr Delay (d2), s/veh Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.4	0.0	0.7	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),vel		3.4	3.3	7.2	2.5	2.5	1.3	2.9	2.1	2.1	6.8	6.9	
Unsig. Movement Delay			3.3	1.2	2.0	2.0	1.3	Z.7	۷.۱	۷.۱	0.0	0.7	
LnGrp Delay(d),s/veh	45.4	37.2	38.0	42.5	24.4	24.5	43.8	21.0	20.8	46.5	26.1	26.1	
LnGrp LOS	D	D	D	42.5 D	C C	24.5 C	43.0 D	C C	C	40.3 D	C	C C	
Approach Vol, veh/h		408			637			603			896		
Approach Delay, s/veh		39.1			33.5			23.1			28.2		
Approach LOS		39.1			33.5 C			23.1 C			20.2 C		
Approach LOS					C						C		
Timer - Assigned Phs	1	2	3	4	5	6	7	8					
Phs Duration (G+Y+Rc)		35.6	22.9	17.4	9.8	37.0	10.5	29.8					
Change Period (Y+Rc),		4.5	4.5	4.5	4.5	4.5	4.5	4.5					
Max Green Setting (Gm		31.0	24.5	38.0	7.0	32.5	12.1	50.4					
Max Q Clear Time (g_c	,.	10.2	17.9	11.0	5.8	18.8	6.9	9.3					
Green Ext Time (p_c), s	0.0	2.9	0.5	1.9	0.0	4.0	0.1	2.0					
Intersection Summary													
HCM 6th Ctrl Delay			30.1										
HCM 6th LOS			С										

	•		T		*	¥
Movement V	NBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥		<del>ተ</del> ተጉ		ሻ	ተተተ
Traffic Volume (veh/h)	3	4	620	8	15	1100
Future Volume (veh/h)	3	4	620	8	15	1100
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00	
	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No		No			No
	870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	3	4	674	9	16	1196
	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	9	12	3763	50	49	4237
	0.01	0.01	0.72	0.72	0.03	0.83
	633	843	5361	69	1781	5274
Grp Volume(v), veh/h	8	043	442	241	16	1196
Grp Sat Flow(s), veh/h/ln1		0	1702	1858	1781	1702
Q Serve(g_s), s	0.3	0.0	2.4	2.4	0.5	3.0
Cycle Q Clear(g_c), s	0.3	0.0	2.4	2.4	0.5	3.0
	0.37	0.50	04/7	0.04	1.00	1007
Lane Grp Cap(c), veh/h	25	0	2467	1346	49	4237
` '	0.32	0.00	0.18	0.18	0.33	0.28
1 \ - /	962	0	2467	1346	323	4237
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
	1.00	0.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh2	28.2	0.0	2.5	2.5	27.6	1.1
Incr Delay (d2), s/veh	7.4	0.0	0.2	0.3	3.8	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%), veh/		0.0	0.3	0.4	0.3	0.1
Unsig. Movement Delay,						
	35.6	0.0	2.7	2.8	31.4	1.3
LnGrp LOS	D	A	Α	Α	С	A
Approach Vol, veh/h	8		683			1212
Approach Delay, s/veh			2.7			1.7
Approach LOS	0.00 D		2.7 A			Α./
Approach LOS	U		А			А
Timer - Assigned Phs	1	2				6
Phs Duration (G+Y+Rc),	<b>s</b> 6.1	46.4				52.5
Change Period (Y+Rc), s		4.5				4.5
Max Green Setting (Gma		33.0				48.0
Max Q Clear Time (g_c+						6.0
Green Ext Time (p_c), s		4.3				10.4
	0.0	1.0				10.1
Intersection Summary						
HCM 6th Ctrl Delay			2.2			
HCM 6th LOS			Α			
Notes						
140.03						

Intersection						
Int Delay, s/veh	0					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations		7		ተተተ	<del>ተ</del> ተጮ	
Traffic Vol, veh/h	0	0	0	0	0	0
Future Vol, veh/h	0	0	0	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage,	# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	0	0	0	0	0
		_		_		
	inor2		/lajor1		Major2	
Conflicting Flow All	-	1	-	0	-	0
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	7.14	-	-	-	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	3.92	-	-	-	-
Pot Cap-1 Maneuver	0	917	0	-	-	-
Stage 1	0	-	0	-	-	-
Stage 2	0	-	0	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	-	917	-	-	-	-
Mov Cap-2 Maneuver	_	-	_	_	_	_
Stage 1	_	_	_	_	-	_
Stage 2	_	<u>-</u>	_	_	_	_
Stuge 2						
Approach	EB		NB		SB	
HCM Control Delay, s	0		0		0	
HCM LOS	Α					
Minor Lang/Major Mumt		NDT	DI n1	SBT	SBR	
Minor Lane/Major Mvmt		NBT E	DLIII	SDI	SDK	
Capacity (veh/h)		-	-	-	-	
HCM Lane V/C Ratio		-	-	-	-	
HCM Control Delay (s)		-	0	-	-	
HCM Lane LOS		-	Α	-	-	
HCM 95th %tile Q(veh)		-	-	-	-	

	۶	<b>→</b>	•	•	<b>←</b>	•	4	<b>†</b>	~	-	ļ	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	₽		ሻ	₽		ሻ	<b>↑</b> ↑₽		ሻ	<b>↑</b> ↑₽	
Traffic Volume (veh/h)	24	3	45	25	2	31	42	591	29	110	922	73
Future Volume (veh/h)	24	3	45	25	2	31	42	591	29	110	922	73
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	26	3	49	27	2	34	46	642	32	120	1002	79
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	355	13	213	340	13	214	462	3110	154	622	3013	237
Arrive On Green	0.14	0.14	0.14	0.14	0.14	0.14	0.62	0.62	0.62	0.62	0.62	0.62
Sat Flow, veh/h	1372	92	1507	1352	89	1510	522	4983	247	764	4826	380
Grp Volume(v), veh/h	26	0	52	27	0	36	46	438	236	120	706	375
Grp Sat Flow(s), veh/h/ln	1372	0	1599	1352	0	1599	522	1702	1826	764	1702	1802
Q Serve(g_s), s	0.7	0.0	1.1	0.7	0.0	0.8	1.8	2.1	2.1	3.1	3.8	3.8
Cycle Q Clear(g_c), s	1.4	0.0	1.1	1.8	0.0	0.8	5.6	2.1	2.1	5.2	3.8	3.8
Prop In Lane	1.00		0.94	1.00		0.94	1.00		0.14	1.00		0.21
Lane Grp Cap(c), veh/h	355	0	227	340	0	226	462	2125	1140	622	2125	1125
V/C Ratio(X)	0.07	0.00	0.23	0.08	0.00	0.16	0.10	0.21	0.21	0.19	0.33	0.33
Avail Cap(c_a), veh/h	3265	0	3619	3209	0	3617	462	2125	1140	622	2125	1125
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	15.1	0.0	14.6	15.4	0.0	14.5	4.7	3.1	3.1	4.2	3.4	3.4
Incr Delay (d2), s/veh	0.1	0.0	0.5	0.1	0.0	0.3	0.4	0.2	0.4	0.7	0.4	0.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	0.0	0.4	0.2	0.0	0.3	0.1	0.2	0.3	0.3	0.4	0.6
Unsig. Movement Delay, s/vel		0.0	0	0.2	0.0	0.0	0	0.2	0.0	0.0	0	0.0
LnGrp Delay(d),s/veh	15.2	0.0	15.1	15.5	0.0	14.8	5.2	3.3	3.5	4.9	3.8	4.2
LnGrp LOS	В	A	В	В	A	В	A	A	A	Α	A	Α
Approach Vol, veh/h		78			63			720			1201	
Approach Delay, s/veh		15.2			15.1			3.5			4.1	
Approach LOS		В			В			Α			A	
						,					А	
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		28.5		9.9		28.5		9.9				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		24.0		87.0		24.0		87.0				
Max Q Clear Time (g_c+l1), s		8.6		4.4		8.2		4.8				
Green Ext Time (p_c), s		4.1		0.4		6.9		0.3				
Intersection Summary												
HCM 6th Ctrl Delay			4.6									
HCM 6th LOS			Α									
Notes												

User approved pedestrian interval to be less than phase max green.

latana atian						
Intersection						
Int Delay, s/veh	0					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	Y		f)			4
Traffic Vol, veh/h	0	0	0	0	0	0
Future Vol, veh/h	0	0	0	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storag	e,# 0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	0	0	0	0	0
WWW. Tiow	· ·	· ·				· ·
	Minor1		/lajor1		Major2	
Conflicting Flow All	1	0	0	0	0	0
Stage 1	0	-	-	-	-	-
Stage 2	1	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	1022	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	1022	-	_	-	-	
Platoon blocked, %			_	-		-
Mov Cap-1 Maneuver	1022	_	_	_	_	_
Mov Cap-1 Maneuver		_	_	<u>-</u>	_	_
Stage 1	1022					
Stage 2	1022	-	-			
Jiayt 2	1022	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s			0		0	
HCM LOS	Α					
Minor Lane/Major Mvr	nt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		ושוי	ייייייייייייייייייייייייייייייייייייייי	- DEIII	ODL	051
HCM Lane V/C Ratio		-			-	
HCM Control Delay (s	1	-	-	0	0	-
HCM Lane LOS	7	-	-			-
		-	-	A	A	-
HCM 95th %tile Q(veh	٠١					

	۶	<b>→</b>	•	•	-	4	1	<b>†</b>	<b>/</b>	<b>/</b>	<b>+</b>	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ħ	<b>^</b>	7	ሻ	<b>^</b>	7	ሻ	<b>₽</b>			र्स	7
Traffic Volume (veh/h)	20	580	0	6	453	56	1	0	2	175	0	49
Future Volume (veh/h)	20	580	0	6	453	56	1	0	2	175	0	49
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	22	630	0	7	492	61	1	0	2	190	0	53
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	212	906	404	172	906	404	861	0	990	979	0	990
Arrive On Green	0.25	0.25	0.00	0.25	0.25	0.25	0.62	0.00	0.62	0.62	0.00	0.62
Sat Flow, veh/h	855	3554	1585	796	3554	1585	1351	0	1585	1414	0	1585
Grp Volume(v), veh/h	22	630	0	7	492	61	1	0	2	190	0	53
Grp Sat Flow(s), veh/h/ln	855	1777	1585	796	1777	1585	1351	0	1585	1414	0	1585
Q Serve(g_s), s	1.7	12.0	0.0	0.6	8.9	2.2	0.0	0.0	0.0	4.3	0.0	1.0
Cycle Q Clear(g_c), s	10.6	12.0	0.0	12.6	8.9	2.2	4.4	0.0	0.0	4.4	0.0	1.0
Prop In Lane	1.00	007	1.00	1.00	007	1.00	1.00	0	1.00	1.00	0	1.00
Lane Grp Cap(c), veh/h	212	906	404	172	906	404	861	0	990	979	0	990
V/C Ratio(X)	0.10	0.70	0.00	0.04	0.54	0.15	0.00	0.00	0.00	0.19 979	0.00	0.05
Avail Cap(c_a), veh/h	390	1646	734 1.00	338 1.00	1646	734	861	1.00	990	1.00	1.00	990 1.00
HCM Platoon Ratio	1.00	1.00	0.00	1.00	1.00 1.00	1.00	1.00 1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I) Uniform Delay (d), s/veh	28.6	25.1	0.00	30.8	24.0	21.5	7.0	0.00	5.3	6.1	0.00	5.4
Incr Delay (d2), s/veh	0.2	1.0	0.0	0.1	0.5	0.2	0.0	0.0	0.0	0.1	0.0	0.1
Initial Q Delay(d3),s/veh	0.2	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.4	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.3	4.7	0.0	0.0	3.5	0.8	0.0	0.0	0.0	1.0	0.0	0.0
Unsig. Movement Delay, s/veh		4.7	0.0	0.1	3.3	0.0	0.0	0.0	0.0	1.0	0.0	0.5
LnGrp Delay(d),s/veh	28.8	26.1	0.0	30.9	24.5	21.7	7.0	0.0	5.3	6.5	0.0	5.5
LnGrp LOS	20.0 C	C	Α	C	24.5 C	C C	Α.	Α	A	Α	Α	A
Approach Vol, veh/h		652			560			3			243	
Approach Delay, s/veh		26.2			24.3			5.9			6.3	
Approach LOS		C			C C			Α			Α	
						,					,,	
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		51.0		23.5		51.0		23.5				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		46.5		34.5		46.5		34.5				
Max Q Clear Time (g_c+I1), s		7.4		15.0		7.4		15.6				
Green Ext Time (p_c), s		0.0		4.0		1.2		3.1				
Intersection Summary												
HCM 6th Ctrl Delay			22.1									
HCM 6th LOS			С									

<b>)</b>	→ `	•	<b>←</b>	•	4	<b>†</b>	<b>*</b>	<b>&gt;</b>	ţ	✓	
Movement EBL	EBT E	BR W	BL WB1	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
_ane Configurations 🧗 🛉	<b>\^</b>		ካ ተ1	۱ ۴	ሻ	f)			4		
Fraffic Volume (veh/h) 10	738	0	2 504		0	0	0	3	0	7	
uture Volume (veh/h) 10	738	0	2 504	1 3	0	0	0	3	0	7	
nitial Q (Qb), veh 0	0	0	0 (	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT) 1.00	1	1.00 1.	.00	1.00	1.00		1.00	1.00		1.00	
Parking Bus, Adj 1.00	1.00 1	I.00 1.	.00 1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Nork Zone On Approach	No		No	)		No			No		
	1870 1	870 18	70 1870	1870	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h 11	802	0	2 548		0	0	0	3	0	8	
	0.92	).92 0.	92 0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	
Percent Heavy Veh, % 2	2	2	2 2		2	2	2	2	2	2	
	1420		.07 988		109	1094	0	281	36	660	
			28 0.28		0.00	0.00	0.00	0.59	0.00	0.59	
•	5274		78 3554		1407	1870	0	361	62	1129	
Grp Volume(v), veh/h 11	802	0	2 548		0	0	0	11	0	0	
. , ,	1702		78 1777		1407	1870	0	1552	0	0	
2 Serve(g_s), s 0.7			0.2 8.7		0.0	0.0	0.0	0.0	0.0	0.0	
Cycle Q Clear(g_c), s 9.4	8.9	0.0	9.0 8.7	7 0.1	0.0	0.0	0.0	0.2	0.0	0.0	
Prop In Lane 1.00			.00	1.00	1.00		0.00	0.27		0.73	
1 1 7	1420		107 988		109	1094	0	978	0	0	
` ,			01 0.55		0.00	0.00	0.00	0.01	0.00	0.00	
,	3298		56 2296		109	1094	0	978	0	0	
			00 1.00		1.00	1.00	1.00	1.00	1.00	1.00	
Jpstream Filter(I) 1.00			.00 1.00		0.00	0.00	0.00	1.00	0.00	0.00	
Jniform Delay (d), s/veh24.3			4.2 20.3		0.0	0.0	0.0	5.7	0.0	0.0	
ncr Delay (d2), s/veh 0.1			3.0 0.0		0.0	0.0	0.0	0.0	0.0	0.0	
nitial Q Delay(d3),s/veh 0.0			0.0		0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/l <b>0</b> .1	3.2	0.0	0.0 3.3	3 0.0	0.0	0.0	0.0	0.1	0.0	0.0	
Jnsig. Movement Delay, s/veh											
1 3 . 7			4.2 20.8		0.0	0.0	0.0	5.7	0.0	0.0	
_nGrp LOS C	С	A	C (		A	A	A	A	A	A	
Approach Vol, veh/h	813		553			0			11		
Approach Delay, s/veh	20.7		20.8			0.0			5.7		
Approach LOS	С		(	;					Α		
Timer - Assigned Phs	2		4	6		8					
Phs Duration (G+Y+Rc), s	43.0	22	2.8	43.0		22.8					
Change Period (Y+Rc), s	4.5		4.5	4.5		4.5					
· ,	38.5		2.5	38.5		42.5					
Max Q Clear Time (g_c+l1), s	0.0		2.4	3.2		12.0					
Green Ext Time (p_c), s	0.0	Ĺ	5.9	0.0		3.7					
ntersection Summary											
HCM 6th Ctrl Delay	1	20.6									
TOWN OUT OUT DOING		20.0									

•	<b>→</b>	•	•	<b>←</b>	•	•	<b>†</b>	/	<b>&gt;</b>	ļ	✓	
Movement EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations 7	<b>^</b>	7	ሻ	<b>^</b>	7	ሻሻ	<del>ሳ</del> ተሱ		ች	<del>ተ</del> ተኈ		
Traffic Volume (veh/h) 31	196	512	147	141	34	333	570	108	44	954	25	
Future Volume (veh/h) 31	196	512	147	141	34	333	570	108	44	954	25	
Initial Q (Qb), veh 0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT) 1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Parking Bus, Adj 1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln 1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h 32	204	533	153	147	35	347	594	112	46	994	26	
Peak Hour Factor 0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	
Percent Heavy Veh, % 2	2	2	2	2	2	2	2	2	2	2	2	
Cap, veh/h 529	1381	616	347	1381	616	586	2139	397	400	2529	66	
Arrive On Green 0.39	0.39	0.39	0.39	0.39	0.39	0.49	0.49	0.49	0.49	0.49	0.49	
Sat Flow, veh/h 1202	3554	1585	721	3554	1585	1072	4327	803	742	5117	134	
Grp Volume(v), veh/h 32	204	533	153	147	35	347	465	241	46	661	359	
	1777	1585	721	1777	1585	536	1702	1726	742	1702	1846	
Q Serve(q_s), s 1.3	2.9	23.8	13.4	2.0	1.1	23.1	6.2	6.3	3.0	9.4	9.4	
Cycle Q Clear(g_c), s 3.4	2.9	23.8	16.3	2.0	1.1	32.5	6.2	6.3	9.3	9.4	9.4	
Prop In Lane 1.00		1.00	1.00		1.00	1.00		0.47	1.00		0.07	
	1381	616	347	1381	616	586	1682	853	400	1682	913	
V/C Ratio(X) 0.06	0.15	0.87	0.44	0.11	0.06	0.59	0.28	0.28	0.12	0.39	0.39	
. ,	1987	886	470	1987	886	586	1682	853	400	1682	913	
HCM Platoon Ratio 1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I) 1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/veh16.1	15.2	21.6	20.5	15.0	14.7	22.4	11.4	11.4	14.2	12.2	12.2	
Incr Delay (d2), s/veh 0.0	0.0	6.4	0.9	0.0	0.0	4.3	0.4	0.8	0.6	0.7	1.3	
Initial Q Delay(d3),s/veh 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/l <sub>0</sub> .3	1.1	8.9	2.1	0.8	0.4	2.9	2.1	2.3	0.5	3.2	3.6	
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh 16.1	15.3	28.0	21.4	15.0	14.7	26.7	11.8	12.3	14.7	12.9	13.5	
LnGrp LOS B	В	С	С	В	В	С	В	В	В	В	В	
Approach Vol, veh/h	769			335			1053			1066		
Approach Delay, s/veh	24.1			17.9			16.8			13.2		
Approach LOS	С			В			В			В		
	2				,		_					
Timer - Assigned Phs	2		4		6		8					
Phs Duration (G+Y+Rc), s	42.5		34.4		42.5		34.4					
Change Period (Y+Rc), s	4.5		4.5		4.5		4.5					
Max Green Setting (Gmax), s	38.0		43.0		38.0		43.0					
Max Q Clear Time (g_c+I1), s	35.5		26.8		12.4		19.3					
Green Ext Time (p_c), s	1.7		3.1		7.3		2.1					
Interception Cummery												
Intersection Summary												
HCM 6th Ctrl Delay		17.5										

•	<b>→</b>	•	•	•	•	•	<b>†</b>	/	/	ļ	1
Movement EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations			*	4	7	ሻሻ	ተተተ		001	1111	7
Traffic Volume (veh/h) 0	0	0	458	1	379	142	622	0	0	1094	517
Future Volume (veh/h) 0	0	0	458	1	379	142	622	0	0	1094	517
Initial Q (Qb), veh	U	U	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)			1.00	U	1.00	1.00	U	1.00	1.00	U	1.00
Parking Bus, Adj			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach			1.00	No	1.00	1.00	No	1.00	1.00	No	1.00
Adj Sat Flow, veh/h/ln			1870	1870	1870	1870	1870	0	0	1870	1870
Adj Flow Rate, veh/h			588	0	258	145	635	0	0	1116	528
Peak Hour Factor			0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %			2	2	2	2	2	0.70	0.70	2	2
Cap, veh/h			834	0	371	532	3288	0	0	4144	1021
Arrive On Green			0.23	0.00	0.23	0.64	0.64	0.00	0.00	0.64	0.64
			3563			591	5274	0.00	0.00	6696	
Sat Flow, veh/h				0	1585						1585
Grp Volume(v), veh/h			588	0	258	145	635	0	0	1116	528
Grp Sat Flow(s), veh/h/ln			1781	0	1585	295	1702	0	0	1609	1585
Q Serve(g_s), s			11.2	0.0	11.0	10.3	3.7	0.0	0.0	5.5	13.1
Cycle Q Clear(g_c), s			11.2	0.0	11.0	15.8	3.7	0.0	0.0	5.5	13.1
Prop In Lane			1.00	_	1.00	1.00		0.00	0.00		1.00
_ane Grp Cap(c), veh/h			834	0	371	532	3288	0	0	4144	1021
V/C Ratio(X)			0.71	0.00	0.70	0.27	0.19	0.00	0.00	0.27	0.52
Avail Cap(c_a), veh/h			1618	0	720	532	3288	0	0	4144	1021
ICM Platoon Ratio			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Jpstream Filter(I)			1.00	0.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00
Jniform Delay (d), s/veh			25.9	0.0	25.8	9.1	5.3	0.0	0.0	5.7	7.0
Incr Delay (d2), s/veh			1.1	0.0	2.4	1.3	0.1	0.0	0.0	0.2	1.9
nitial Q Delay(d3),s/veh			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln			4.6	0.0	4.2	0.6	1.0	0.0	0.0	1.4	3.7
Unsig. Movement Delay, s/veh	1										
LnGrp Delay(d),s/veh			27.0	0.0	28.2	10.3	5.5	0.0	0.0	5.8	8.9
_nGrp LOS			С	Α	С	В	Α	Α	Α	Α	Α
Approach Vol, veh/h				846			780			1644	
Approach Delay, s/veh				27.4			6.4			6.8	
Approach LOS				С			Α			Α	
'	2				,		0				
Timer - Assigned Phs	2				6		8				
Phs Duration (G+Y+Rc), s	52.0				52.0		21.8				
Change Period (Y+Rc), s	4.5				4.5		4.5				
Max Green Setting (Gmax), s	47.5				47.5		33.5				
Max Q Clear Time (g_c+l1), s					16.1		14.2				
Green Ext Time (p_c), s	8.9				11.9		3.1				
ntersection Summary											
HCM 6th Ctrl Delay		12.0									
HCM 6th LOS		В									
Notes											

٠	<b>→</b>	$\rightarrow$	•	•	•	•	<b>†</b>	/	-	ļ	✓
Movement EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		7					ተተኈ		ሻሻ	<b>^</b>	
Traffic Volume (veh/h) 216		243	0	0	0	0	548	348	456	1096	0
Future Volume (veh/h) 216		243	0	0	0	0	548	348	456	1096	0
Initial Q (Qb), veh		0				0	0	0	0	0	0
Ped-Bike Adj(A_pbT) 1.00		1.00				1.00	J	1.00	1.00	J	1.00
Parking Bus, Adj 1.00		1.00				1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No	1.00				1.00	No	1.00	1.00	No	1.00
Adj Sat Flow, veh/h/ln 1870		1870				0	1870	1870	1870	1870	0
Adj Flow Rate, veh/h 308		164				0	571	362	475	1142	0
Peak Hour Factor 0.96		0.96				0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, % 2		2				0.70	2	2	2	2	0.70
Cap, veh/h 521	0	232				0	2543	1184	953	2655	0
Arrive On Green 0.15		0.15				0.00	0.75	0.75	0.75	0.75	0.00
Sat Flow, veh/h 3563		1585				0.00	3572	1585	1164	3647	0.00
											0
Grp Volume(v), veh/h 308		164				0	571	362	475	1142	
Grp Sat Flow(s), veh/h/ln1781	0	1585				0	1702	1585	582	1777	0
Q Serve(g_s), s 6.8		8.3				0.0	4.3	6.3	19.0	10.1	0.0
Cycle Q Clear(g_c), s 6.8	0.0	8.3				0.0	4.3	6.3	25.3	10.1	0.0
Prop In Lane 1.00		1.00				0.00	25.42	1.00	1.00	2/55	0.00
Lane Grp Cap(c), veh/h 521	0	232				0	2543	1184	953	2655	0
V/C Ratio(X) 0.59		0.71				0.00	0.22	0.31	0.50	0.43	0.00
Avail Cap(c_a), veh/h 766		341				0	2543	1184	953	2655	0
HCM Platoon Ratio 1.00		1.00				1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I) 1.00		1.00				0.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh33.6		34.2				0.0	3.2	3.5	7.6	4.0	0.0
Incr Delay (d2), s/veh 1.1	0.0	4.0				0.0	0.2	0.7	1.9	0.5	0.0
Initial Q Delay(d3),s/veh 0.0		0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%), veh/lß.0		3.4				0.0	1.0	1.4	2.0	2.4	0.0
Unsig. Movement Delay, s/ve											
LnGrp Delay(d),s/veh 34.7	0.0	38.2				0.0	3.4	4.2	9.5	4.5	0.0
LnGrp LOS C		D				A	A	A	A	A	A
Approach Vol, veh/h	472						933			1617	
Approach Delay, s/veh	35.9						3.7			6.0	
Approach LOS	D						Α			Α	
Timer - Assigned Phs	2		4		6						
Phs Duration (G+Y+Rc), s	67.4		16.8		67.4						
Change Period (Y+Rc), s	4.5		4.5		4.5						
Max Green Setting (Gmax),			18.1		62.9						
Max Q Clear Time (q_c+l1),											
			11.3		28.3						
Green Ext Time (p_c), s	7.3		1.0		18.1						
Intersection Summary											
HCM 6th Ctrl Delay		9.9									
HCM 6th LOS		Α									
Notes											

Intersection		

Intersection Delay, s/veh	12.3											,
Intersection LOS	В											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4₽	7		4₽	7		4	7		ર્ન	7
Traffic Vol, veh/h	17	341	26	34	329	31	26	54	21	23	46	10
Future Vol, veh/h	17	341	26	34	329	31	26	54	21	23	46	10
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	18	371	28	37	358	34	28	59	23	25	50	11
Number of Lanes	0	2	1	0	2	1	0	1	1	0	1	1
Approach	EB			WB			NB			SB		
Opposing Approach	WB			EB			SB			NB		
Opposing Lanes	3			3			2			2		
Conflicting Approach Left	SB			NB			EB			WB		
Conflicting Lanes Left	2			2			3			3		
Conflicting Approach Right	NB			SB			WB			EB		
Conflicting Lanes Right	2			2			3			3		
HCM Control Delay	12.6			12.4			11.2			11.2		
HCM LOS	В			В			В			В		

Lane	NBLn1	NBLn2	EBLn1	EBLn2	EBLn3	WBLn1	WBLn2	WBLn3	SBLn1	SBLn2	
Vol Left, %	33%	0%	13%	0%	0%	24%	0%	0%	33%	0%	
Vol Thru, %	68%	0%	87%	100%	0%	76%	100%	0%	67%	0%	
Vol Right, %	0%	100%	0%	0%	100%	0%	0%	100%	0%	100%	
Sign Control	Stop										
Traffic Vol by Lane	80	21	131	227	26	144	219	31	69	10	
LT Vol	26	0	17	0	0	34	0	0	23	0	
Through Vol	54	0	114	227	0	110	219	0	46	0	
RT Vol	0	21	0	0	26	0	0	31	0	10	
Lane Flow Rate	87	23	142	247	28	156	238	34	75	11	
Geometry Grp	8	8	8	8	8	8	8	8	8	8	
Degree of Util (X)	0.177	0.041	0.252	0.433	0.044	0.278	0.417	0.052	0.154	0.02	
Departure Headway (Hd)	7.325	6.46	6.375	6.309	5.603	6.412	6.292	5.585	7.398	6.527	
Convergence, Y/N	Yes										
Cap	488	551	561	568	636	559	570	639	482	545	
Service Time	5.103	4.237	4.135	4.069	3.362	4.17	4.05	3.343	5.179	4.308	
HCM Lane V/C Ratio	0.178	0.042	0.253	0.435	0.044	0.279	0.418	0.053	0.156	0.02	
HCM Control Delay	11.7	9.5	11.3	13.8	8.6	11.6	13.5	8.7	11.5	9.4	
HCM Lane LOS	В	Α	В	В	Α	В	В	А	В	Α	
HCM 95th-tile Q	0.6	0.1	1	2.2	0.1	1.1	2	0.2	0.5	0.1	

Intersection												
Intersection Delay, s/vel	h21.2											
Intersection LOS	С											
Moyomont	EBL	FDT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	CDT	SBR
Movement		EBT	EDK			WBR	INDL			SBL	SBT	SBK
Lane Configurations	<u>ነ</u>	<b>↑</b> }	24	<b>\</b>	<b>↑</b> }	0.4	22	<del>ન</del>	70	٥٢	4	21
Traffic Vol, veh/h	17 17	350 350	24 24	8	343	84	22 22	150 150	29	85 85	146 146	21 21
Future Vol, veh/h	0.92	0.92	0.92	0.92	343 0.92	0.92	0.92	0.92	29 0.92	0.92	0.92	0.92
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, % Mvmt Flow	18	380	26	9	373	91	24	163	32	92	159	23
Number of Lanes	10	2	0	1	2	0	0	103	32	92	159	0
Number of Lanes	ı		U	ı		U	U	ı	ı	U	ı	U
Approach	EB			WB			NB			SB		
Opposing Approach	WB			EB			SB			NB		
Opposing Lanes	3			3			1			2		
Conflicting Approach Le				NB			EB			WB		
Conflicting Lanes Left	1			2			3			3		
Conflicting Approach Ri	_			SB			WB			EB		
Conflicting Lanes Right	2			1			3			3		
HCM Control Delay	20			20.1			18.5			27.3		
HCM LOS	С			С			С			D		
Lane	1	NBLn1 I	NBLn2	EBLn1	EBLn2	EBLn3\	WBLn1\	VBLn2V	VBLn3	SBLn1		
Vol Left, %		13%	0%	100%	0%	0%	100%	0%	0%	34%		
Vol Thru, %		87%	0%	0%	100%	83%	0%	100%	58%	58%		
Vol Right, %		0%	100%	0%	0%	17%	0%	0%	42%	8%		
Sign Control		Stop	Stop	Stop	Stop	Stop	Stop	Stop	Stop	Stop		
Traffic Vol by Lane		172	29	17	233	141	8	229	198	252		
LT Vol		22	0	17	0	0	8	0	0	85		
Through Vol		150	0	0	233	117	0	229	114	146		
RT Vol		0	29	0	0	24	0	0	84	21		
Lane Flow Rate		187	32	18	254	153	9	249	216	274		
Geometry Grp		8	8	8	8	8	8	8	8	8		
Degree of Util (X)		0.471	0.073	0.046	0.597	0.355	0.021	0.578	0.483	0.665		
Departure Headway (Ho	d)	9.079	8.294	8.995	8.476	8.351	8.895	8.376	8.068	8.738		
Convergence, Y/N		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
Cap		396	431	398	426	430	402	430	446	414		
Service Time		6.842	6.056	6.753	6.233	6.109	6.653	6.134	5.826	6.492		
HCM Lane V/C Ratio		0.472	0.074	0.045	0.596	0.356	0.022	0.579	0.484	0.662		
HOW Lake V/C Ratio		0.472	0.074	0.010								
HCM Control Delay HCM Lane LOS		19.7 C	11.7	12.2	23.1 C	15.7 C	11.8	22.1 C	18.2 C	27.3		

HCM 95th-tile Q

2.4

0.2

0.1

3.8

1.6

0.1

3.5

2.6

4.7

	۶	<b>→</b>	•	•	<b>←</b>	•	4	<b>†</b>	<b>/</b>	<b>&gt;</b>	ţ	√	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	¥	ħβ		¥	<b>↑</b> ↑		ķ	<b>^</b>	7	ķ	ħβ		
Traffic Volume (veh/h)	131	342	100	262	223	71	165	773	440	71	539	49	
Future Volume (veh/h)	131	342	100	262	223	71	165	773	440	71	539	49	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No	1070	4070	No	4070	4070	No	4070	4070	No	4070	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	135	353	103	270	230	73	170	797	454	73	556	51	
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	
Percent Heavy Veh, %	2 185	2 498	143	322	694	215	2	2	610	112	2 1069	2 98	
Cap, veh/h Arrive On Green	0.10	0.18	0.18	0.18	0.26	0.26	219 0.12	1368 0.39	0.39	0.06	0.32	0.32	
Sat Flow, veh/h	1781	2723	783	1781	2672	827	1781	3554	1585	1781	3292	301	
Grp Volume(v), veh/h	135	229	227	270	151	152	170	797	454	73	300	307	
Grp Sat Flow(s), veh/h/lr		1777	1729	1781	1777	1722	1781	1777	1585	1781	1777	1816	
Q Serve(g_s), s	7.0	11.5	11.8	14.0	6.6	6.8	8.8	17.0	23.6	3.8	13.1	13.1	
Cycle Q Clear(g_c), s	7.0	11.5	11.8	14.0	6.6	6.8	8.8	17.0	23.6	3.8	13.1	13.1	
Prop In Lane	1.00	11.5	0.45	1.00	0.0	0.48	1.00	17.0	1.00	1.00	13.1	0.17	
Lane Grp Cap(c), veh/h		325	317	322	462	447	219	1368	610	112	577	590	
V/C Ratio(X)	0.73	0.70	0.72	0.84	0.33	0.34	0.78	0.58	0.74	0.65	0.52	0.52	
Avail Cap(c_a), veh/h	323	708	689	383	767	743	233	1368	610	142	577	590	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/vel	n41.5	36.5	36.7	37.8	28.6	28.7	40.6	23.3	25.3	43.7	26.2	26.2	
Incr Delay (d2), s/veh	5.5	2.8	3.1	13.3	0.4	0.4	14.4	1.8	8.0	6.9	3.3	3.3	
Initial Q Delay(d3),s/vel	า 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),vel		5.1	5.1	7.1	2.8	2.8	4.6	7.0	9.7	1.9	5.8	5.9	
Unsig. Movement Delay													
LnGrp Delay(d),s/veh	46.9	39.3	39.7	51.1	29.0	29.1	54.9	25.1	33.3	50.6	29.5	29.4	
LnGrp LOS	D	D	D	D	С	С	D	С	С	D	С	С	
Approach Vol, veh/h		591			573			1421			680		
Approach Delay, s/veh		41.2			39.4			31.3			31.7		
Approach LOS		D			D			С			С		
Timer - Assigned Phs	1	2	3	4	5	6	7	8					
Phs Duration (G+Y+Rc)	, 160.5	41.2	21.7	22.0	16.2	35.5	14.4	29.3					
Change Period (Y+Rc),		4.5	4.5	4.5	4.5	4.5	4.5	4.5					
Max Green Setting (Gm		35.9	20.5	38.0	12.5	31.0	17.3	41.2					
Max Q Clear Time (g_c	,.		17.0	14.8	11.8	16.1	10.0	9.8					
Green Ext Time (p_c), s	0.0	4.6	0.3	2.7	0.0	3.0	0.2	1.8					
Intersection Summary													
HCM 6th Ctrl Delay			34.6										
HCM 6th LOS			С										

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Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	W		<del>ተ</del> ተጉ		ሻ	ተተተ
Traffic Volume (veh/h)	11	12	1482	2	4	1007
Future Volume (veh/h)	11	12	1482	2	4	1007
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approac	h No		No			No
	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	12	13	1560	2	4	1060
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	32	35	3814	5	13	4123
Arrive On Green	0.04	0.04	0.72	0.72	0.01	0.81
Sat Flow, veh/h	776	840	5435	7	1781	5274
Grp Volume(v), veh/h	26	0+0	1008	554	4	1060
		0				
Grp Sat Flow(s), veh/h/li			1702	1869	1781	1702
Q Serve(g_s), s	0.9	0.0	6.9	6.9	0.1	3.0
Cycle Q Clear(g_c), s	0.9	0.0	6.9	6.9	0.1	3.0
Prop In Lane	0.46	0.50	0.475	0.00	1.00	1100
Lane Grp Cap(c), veh/h		0	2465	1354	13	4123
V/C Ratio(X)	0.38	0.00	0.41	0.41	0.30	0.26
Avail Cap(c_a), veh/h	933	0	2465	1354	210	4123
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/vel	h27.8	0.0	3.2	3.2	29.3	1.4
Incr Delay (d2), s/veh	3.4	0.0	0.5	0.9	11.9	0.2
Initial Q Delay(d3),s/veh	າ 0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%), vel		0.0	1.0	1.3	0.1	0.1
Unsig. Movement Delay						
LnGrp Delay(d),s/veh	31.1	0.0	3.7	4.1	41.2	1.5
LnGrp LOS	С	A	A	A	D	A
Approach Vol, veh/h	26		1562			1064
Approach Vol, Venin			3.9			1.7
Approach LOS	31.1 C		3.9 A			Α./
Approach LOS	C		А			А
Timer - Assigned Phs	1	2				6
Phs Duration (G+Y+Rc)	), \$4.9	47.6				52.5
Change Period (Y+Rc),	s 4.5	4.5				4.5
Max Green Setting (Gm	nax <b>1</b> ,0s	36.5				48.0
Max Q Clear Time (g_c						6.0
Green Ext Time (p_c), s		12.1				8.8
		. =				0.0
Intersection Summary						
HCM 6th Ctrl Delay			3.3			
HCM 6th LOS			Α			
Notes						
10103						

Intersection						
Int Delay, s/veh	0					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	LDL	Į.	NDL		<b>**</b>	JUIN
Traffic Vol, veh/h	0	0	0	0	0	0
				-		
Future Vol, veh/h	0	0	0	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage,		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	0	0	0	0	0
N A = 1 = 1/N A1 = =			1-1-4	_	4-1-0	
	inor2		/lajor1		Major2	
Conflicting Flow All	-	1	-	0	-	0
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	7.14	-	-	-	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	_	_	-	-
Follow-up Hdwy	_	3.92		-	-	_
Pot Cap-1 Maneuver	0	917	0	_	_	_
Stage 1	0	717	0	_	_	
	0		0	-	-	-
Stage 2	U	-	U	-	-	-
Platoon blocked, %		047		-	-	-
Mov Cap-1 Maneuver	-	917	-	-	-	-
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
	EB		NB		SB	
Annroach			טוו			
Approach HCM Control Dolay S			Λ		()	
HCM Control Delay, s	0		0		0	
			0		0	
HCM Control Delay, s	0		0		0	
HCM Control Delay, s	0 A	NBT E		SBT	SBR	
HCM Control Delay, s HCM LOS Minor Lane/Major Mvmt	0 A	NBT E		SBT		
HCM Control Delay, s HCM LOS  Minor Lane/Major Mvmt Capacity (veh/h)	0 A	NBT E		SBT -		
HCM Control Delay, s HCM LOS  Minor Lane/Major Mvmt Capacity (veh/h) HCM Lane V/C Ratio	0 A	-	<u>EBLn1</u> - -	-	SBR -	
HCM Control Delay, s HCM LOS  Minor Lane/Major Mvmt Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (s)	0 A	- - -	EBLn1 - - 0	- -	SBR - -	
HCM Control Delay, s HCM LOS  Minor Lane/Major Mvmt Capacity (veh/h) HCM Lane V/C Ratio	0 A	-	<u>EBLn1</u> - -	-	SBR -	

	٠	<b>→</b>	•	•	<b>←</b>	•	4	<b>†</b>	~	-	ţ	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	₽		ሻ	1>		ሻ	<b>↑</b> ↑₽		ሻ	<b>↑</b> ↑₽	
Traffic Volume (veh/h)	99	6	42	52	13	117	82	1304	54	129	756	91
Future Volume (veh/h)	99	6	42	52	13	117	82	1304	54	129	756	91
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	103	6	44	54	14	122	85	1358	56	134	788	95
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	366	44	325	445	38	330	464	2821	116	320	2592	311
Arrive On Green	0.23	0.23	0.23	0.23	0.23	0.23	0.56	0.56	0.56	0.56	0.56	0.56
Sat Flow, veh/h	1253	194	1421	1355	166	1445	629	5030	207	380	4621	554
Grp Volume(v), veh/h	103	0	50	54	0	136	85	919	495	134	579	304
Grp Sat Flow(s), veh/h/ln	1253	0	1615	1355	0	1610	629	1702	1833	380	1702	1771
Q Serve(g_s), s	3.2	0.0	1.1	1.4	0.0	3.0	3.5	6.9	6.9	14.0	3.9	3.9
Cycle Q Clear(g_c), s	6.3	0.0	1.1	2.5	0.0	3.0	7.4	6.9	6.9	21.0	3.9	3.9
Prop In Lane	1.00		0.88	1.00		0.90	1.00		0.11	1.00		0.31
Lane Grp Cap(c), veh/h	366	0	369	445	0	368	464	1910	1028	320	1910	993
V/C Ratio(X)	0.28	0.00	0.14	0.12	0.00	0.37	0.18	0.48	0.48	0.42	0.30	0.31
Avail Cap(c_a), veh/h	2628	0	3283	2890	0	3275	464	1910	1028	320	1910	993
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	16.5	0.0	13.1	14.1	0.0	13.9	6.9	5.6	5.6	12.0	5.0	5.0
Incr Delay (d2), s/veh	0.4	0.0	0.2	0.1	0.0	0.6	0.9	0.9	1.6	4.0	0.4	0.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.8	0.0	0.3	0.4	0.0	1.0	0.4	1.4	1.7	1.1	8.0	0.9
Unsig. Movement Delay, s/ve												
LnGrp Delay(d),s/veh	17.0	0.0	13.3	14.2	0.0	14.5	7.8	6.5	7.3	16.0	5.4	5.8
LnGrp LOS	В	Α	В	В	A	В	A	Α	A	В	A	A
Approach Vol, veh/h		153			190			1499			1017	
Approach Delay, s/veh		15.8			14.4			6.8			6.9	
Approach LOS		В			В			Α			Α	
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		28.5		14.3		28.5		14.3				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		24.0		87.0		24.0		87.0				
Max Q Clear Time (g_c+l1), s	5	10.4		9.3		24.0		6.0				
Green Ext Time (p_c), s		8.0		0.7		0.0		1.1				
Intersection Summary												
HCM 6th Ctrl Delay			7.8									
HCM 6th LOS			A									
Notes												

User approved pedestrian interval to be less than phase max green.

Intersection						
Int Delay, s/veh	0					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥		<b>₽</b>			4
Traffic Vol, veh/h	0	0	0	0	0	0
Future Vol, veh/h	0	0	0	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storag	e,# 0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	0	0	0	0	0
WWW.				- 0		- 0
	Minor1		/lajor1		Najor2	
Conflicting Flow All	1	0	0	0	0	0
Stage 1	0	-	-	-	-	-
Stage 2	1	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	_	_	2.218	_
Pot Cap-1 Maneuver	1022	-	_	_	-	_
Stage 1	1022	_	_	_	_	_
Stage 2	1022			-		-
Platoon blocked, %	1022	_	-	-	_	-
Mov Cap-1 Maneuver	1022	_	-	-	_	-
Mov Cap-2 Maneuver	1022	-	-	-	-	-
Stage 1	1000	-	-	-	-	-
Stage 2	1022	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s			0		0	
HCM LOS	A		- 0		- 0	
TIOWI LOO						
Minor Lane/Major Mvr	nt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		-	-	-	-	-
HCM Lane V/C Ratio		-	-	-	-	-
HCM Control Delay (s	)	-	-	0	0	-
HCM Lane LOS		-	-	A	A	-
HCM 95th %tile Q(veh	1)	-	_	-	_	_
	'/					

	۶	<b>→</b>	•	•	<b>←</b>	•	4	<b>†</b>	~	<b>&gt;</b>	ļ	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		<b>^</b>	7		<b>^</b>	7	ሻ	î,			र्स	7
Traffic Volume (veh/h)	50	729	5	6	611	130	3	1	12	154	1	26
Future Volume (veh/h)	50	729	5	6	611	130	3	1	12	154	1	26
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	1070	No	1070	1070	No	1070	1070	No	1070	1070	No	1070
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	52	752	5	6	630	134	3	1	12	159	1	27
Peak Hour Factor	0.97	0.97 2	0.97 2	0.97 2	0.97 2	0.97 2	0.97	0.97	0.97	0.97 2	0.97	0.97
Percent Heavy Veh, % Cap, veh/h	214	1130	504	189	1130	504	2 792	2 70	2 837	876	2 5	896
Arrive On Green	0.32	0.32	0.32	0.32	0.32	0.32	0.57	0.57	0.57	0.57	0.57	0.57
Sat Flow, veh/h	703	3554	1585	708	3554	1585	1382	123	1480	1386	9	1585
Grp Volume(v), veh/h	52	752	5	6	630	134	3	0	13	160	0	27
Grp Sat Flow(s), veh/h/ln	703	1777	1585	708	1777	1585	1382	0	1604	1395	0	1585
Q Serve(g_s), s	5.1	14.1	0.2	0.6	11.3	4.8	0.1	0.0	0.3	4.3	0.0	0.6
Cycle Q Clear(g_c), s	16.4	14.1	0.2	14.7	11.3	4.8	4.7	0.0	0.3	4.6	0.0	0.6
Prop In Lane	1.00		1.00	1.00	11.0	1.00	1.00	0.0	0.92	0.99	0.0	1.00
Lane Grp Cap(c), veh/h	214	1130	504	189	1130	504	792	0	906	882	0	896
V/C Ratio(X)	0.24	0.67	0.01	0.03	0.56	0.27	0.00	0.00	0.01	0.18	0.00	0.03
Avail Cap(c_a), veh/h	333	1731	772	309	1731	772	792	0	906	882	0	896
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	28.6	22.7	18.0	29.1	21.8	19.6	9.4	0.0	7.3	8.3	0.0	7.4
Incr Delay (d2), s/veh	0.6	0.7	0.0	0.1	0.4	0.3	0.0	0.0	0.0	0.5	0.0	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	8.0	5.5	0.1	0.1	4.4	1.7	0.0	0.0	0.1	1.2	0.0	0.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	29.1	23.4	18.0	29.1	22.2	19.8	9.4	0.0	7.4	8.8	0.0	7.5
LnGrp LOS	С	С	В	С	С	В	A	A	A	A	A	<u>A</u>
Approach Vol, veh/h		809			770			16			187	
Approach Delay, s/veh		23.7			21.8			7.8			8.6	
Approach LOS		С			С			А			Α	
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		48.0		29.0		48.0		29.0				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		43.5		37.5		43.5		37.5				
Max Q Clear Time (g_c+l1), s		7.7		19.4		7.6		17.7				
Green Ext Time (p_c), s		0.0		5.1		0.9		4.4				
Intersection Summary												
HCM 6th Ctrl Delay			21.2									
HCM 6th LOS			С									

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ሻ	ተተ <sub>ጉ</sub>		ሻ	<b>^</b>	7	ሻ	ĥ			4		
Traffic Volume (veh/h)	42	843	0	22	726	10	1	0	0	7	0	18	
Future Volume (veh/h)	42	843	0	22	726	10	1	0	0	7	0	18	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac	h	No			No			No			No		
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	44	878	0	23	756	10	1	0	0	7	0	19	
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2	
Cap, veh/h	225	1818	0	238	1266	564	828	976	0	247	33	592	
Arrive On Green	0.36	0.36	0.00	0.36	0.36	0.36	0.52	0.00	0.00	0.52	0.00	0.52	
Sat Flow, veh/h	702	5274	0	632	3554	1585	1393	1870	0	355	63	1135	
Grp Volume(v), veh/h	44	878	0	23	756	10	1	0	0	26	0	0	
Grp Sat Flow(s),veh/h/lr	า 702	1702	0	632	1777	1585	1393	1870	0	1553	0	0	
2 Serve(g_s), s	4.0	9.9	0.0	2.2	12.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	
Cycle Q Clear(g_c), s	16.9	9.9	0.0	12.0	12.8	0.3	0.0	0.0	0.0	0.6	0.0	0.0	
Prop In Lane	1.00		0.00	1.00		1.00	1.00		0.00	0.27		0.73	
ane Grp Cap(c), veh/h	225	1818	0	238	1266	564	828	976	0	872	0	0	
//C Ratio(X)	0.20	0.48	0.00	0.10	0.60	0.02	0.00	0.00	0.00	0.03	0.00	0.00	
Avail Cap(c_a), veh/h	380	2942	0	377	2047	913	828	976	0	872	0	0	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Jpstream Filter(I)	1.00	1.00	0.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00	
Jniform Delay (d), s/veh	126.3	18.5	0.0	23.1	19.4	15.4	8.4	0.0	0.0	8.6	0.0	0.0	
Incr Delay (d2), s/veh	0.4	0.2	0.0	0.2	0.5	0.0	0.0	0.0	0.0	0.1	0.0	0.0	
nitial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh	n/In0.7	3.5	0.0	0.3	4.8	0.1	0.0	0.0	0.0	0.2	0.0	0.0	
Jnsig. Movement Delay	, s/vel	h											
LnGrp Delay(d),s/veh	26.7	18.7	0.0	23.3	19.9	15.4	8.4	0.0	0.0	8.6	0.0	0.0	
_nGrp LOS	С	В	Α	С	В	В	Α	Α	Α	Α	Α	Α	
Approach Vol, veh/h		922			789			1			26		
Approach Delay, s/veh		19.1			19.9			8.4			8.6		
Approach LOS		В			В			Α			Α		
imer - Assigned Phs		2		4		6		8					
Phs Duration (G+Y+Rc)	S	43.0		30.8		43.0		30.8					
Change Period (Y+Rc),		4.5		4.5		4.5		4.5					
Max Green Setting (Gm		38.5		42.5		38.5		42.5					
Max Q Clear Time (g_c-				19.9		3.6		15.8					
Green Ext Time (p_c), s		0.0		6.4		0.1		5.6					
ntersection Summary													
HCM 6th Ctrl Delay			19.3										
HCM 6th LOS			19.3 B										
ICIVI OIII LUS			D										

Movement   EBL   EBL   EBL   WBL   WBL	و	٠	<b>→</b>	•	•	<b>←</b>	•	•	<b>†</b>	/	<b>/</b>	<b>↓</b>	4	
Traffic Volume (veh/h)	Movement EE	BL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Traffic Volume (veh/h)			<b>^</b>	1	*	<b>^</b>	1		<del>ተ</del> ቀጐ		ች	<del>ተ</del> ተኈ		
Future Volume (vehyh)										178	104		59	
Ped-Bike Adj(A, pbT)	Future Volume (veh/h) 8	88	366	422	152	308	120	401	1202	178	104	734	59	
Parking Bus, Adj	Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Work Zone On Approach   No	Ped-Bike Adj(A_pbT) 1.0	00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Adj Sal Flow, veh/hh 1870 1870 1870 1870 1870 1870 1870 1870	Parking Bus, Adj 1.0	00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Adj Flow Rate, veh/h 92 381 440 158 321 125 418 1252 185 108 765 61 Peak Hour Factor 0,96 0,96 0,96 0,96 0,96 0,96 0,96 0,96	Work Zone On Approach		No			No			No			No		
Peak Hour Factor	Adj Sat Flow, veh/h/ln 187	70	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	
Percent Heavy Veh, %	Adj Flow Rate, veh/h	92		440	158	321	125	418	1252	185	108	765	61	
Cap, veh/h 393 1342 598 297 1342 598 717 2260 334 211 2427 193 Arrive On Green 0.38 0.38 0.38 0.38 0.38 0.50 0.50 0.50 0.50 0.50 0.50 0.50 Sat Flow, veh/h 944 3554 1585 666 3554 1585 1287 4491 664 372 4823 383 Grp Volume(v), veh/h 92 381 440 158 321 125 418 949 488 108 539 287 Grp Sat Flow(s), veh/h/n 944 1777 1585 666 1777 1585 643 1702 1751 372 1702 1801 O Serve(g_s), s 5.6 5.6 5.6 18.1 16.4 4.7 4.0 21.5 14.5 14.5 21.3 7.1 7.1 Cycle O Clear(g_c), s 10.2 5.6 18.1 22.0 4.7 4.0 28.6 14.5 14.5 21.3 7.1 7.1 Prop In Lane 1.00 1.00 1.00 1.00 1.00 0.38 1.00 0.21 Lane Grp Cap(c), veh/h 393 1342 598 297 1342 598 717 1713 881 211 1713 907 V/C Ratio(X) 0.23 0.28 0.74 0.53 0.24 0.21 0.55 0.55 0.55 0.51 0.31 0.32 Avail Cap(c_a), veh/h 575 2024 903 425 2024 903 1717 1713 881 211 1713 907 HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Peak Hour Factor 0.9	96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	
Arrive On Green         0.38         0.38         0.38         0.38         0.38         0.38         0.50         1.50         1.00			2	2	2	2	2		2	2				
Sat Flow, veh/h         944         3554         1585         666         3554         1585         1287         4491         664         372         4823         383           Gry Volume(v), veh/h         92         381         440         158         321         125         418         849         488         108         539         287           Gry Sat Flow(s), veh/h/ln         944         1777         1855         663         1777         1585         643         1702         1751         372         1702         1801           O Serve(g_S), s         5.6         5.6         18.1         16.4         4.7         4.0         21.5         14.5         14.5         13.7         7.1           Cycle Q Clear(g_C), s         10.2         5.6         18.1         22.0         4.7         4.0         28.6         14.5         14.5         35.8         7.1         7.1           Prop In Lane         1.00 </td <td>Cap, veh/h</td> <td>93</td> <td>1342</td> <td>598</td> <td>297</td> <td>1342</td> <td>598</td> <td>717</td> <td>2260</td> <td>334</td> <td>211</td> <td>2427</td> <td>193</td> <td></td>	Cap, veh/h	93	1342	598	297	1342	598	717	2260	334	211	2427	193	
Grp Volume(v), veh/h 92 381 440 158 321 125 418 949 488 108 539 287  Grp Sat Flow(s), veh/h/ln 944 1777 1585 666 1777 1585 643 1702 1751 372 1702 1801  O Serve(g_s), s 5.6 5.6 18.1 16.4 4.7 4.0 21.5 14.5 14.5 21.3 7.1 7.1  Cycle O Clear(g_c), s 10.2 5.6 18.1 22.0 4.7 4.0 28.6 14.5 14.5 35.8 7.1 7.1  Prop In Lane 1.00 1.00 1.00 1.00 1.00 0.33 1.00 0.21  Lane Grp Cap(c), veh/h 393 1342 598 297 1342 598 717 1713 881 211 1713 907  V/C Ratio(X) 0.23 0.28 0.74 0.53 0.24 0.21 0.58 0.55 0.55 0.51 0.31 0.32  Avail Cap(c_a), veh/h 575 2024 903 425 2024 903 717 1713 881 211 1713 907  HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0														
Grp Sat Flow(s), veh/h/ln 944 1777 1585 666 1777 1585 643 1702 1751 372 1702 1801  O Serve(g_s), s 5.6 5.6 18.1 16.4 4.7 4.0 21.5 14.5 14.5 21.3 7.1 7.1  Cycle O Clear(g_c), s 10.2 5.6 18.1 22.0 4.7 4.0 28.6 14.5 35.8 7.1 7.1  Prop In Lane 1.00 1.00 1.00 1.00 1.00 1.00 0.33 1.00 0.21  Lane Grp Cap(c), veh/h 393 1342 598 297 1342 598 717 1713 881 211 1713 907  V/C Ratio(X) 0.23 0.28 0.74 0.53 0.24 0.21 0.58 0.55 0.55 0.51 0.31 0.32  Avail Cap(c_a), veh/h 575 2024 903 425 2024 903 717 1713 881 211 1713 907  HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Sat Flow, veh/h 94	44	3554	1585	666		1585	1287		664				
O Serve(g_s), s         5.6         5.6         18.1         16.4         4.7         4.0         21.5         14.5         14.5         21.3         7.1         7.1           Cycle O Clear(g_c), s         10.2         5.6         18.1         22.0         4.7         4.0         28.6         14.5         14.5         35.8         7.1         7.1           Prop In Lane         1.00         1.00         1.00         1.00         0.38         1.00         0.21           Lane Grp Cap(c), veh/h         393         1342         598         297         1342         598         717         1713         881         211         1713         907           V/C Ratio(X)         0.23         0.28         0.74         0.53         0.24         0.21         0.58         0.55         0.55         0.51         0.31         0.32           Avail Cap(c_a), veh/h         575         2024         903         425         2024         903         717         1713         881         211         1713         907           HCM Platoon Ratio         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00			381	440	158	321	125	418					287	
Cycle Q Clear(g_c), s         10.2         5.6         18.1         22.0         4.7         4.0         28.6         14.5         14.5         35.8         7.1         7.1           Prop In Lane         1.00         1.00         1.00         1.00         0.33         1.00         0.21           Lane Grp Cap(c), veh/h         393         1342         598         297         1342         598         717         1713         881         211         1713         907           V/C Ratio(X)         0.23         0.28         0.74         0.53         0.24         0.21         0.58         0.55         0.55         0.51         0.31         0.32           Avail Cap(c_a), veh/h         575         2024         903         425         2024         903         717         1713         881         211         1713         907           HCM Platoon Ratio         1.00 <t< td=""><td>Grp Sat Flow(s), veh/h/ln 94</td><td>44</td><td>1777</td><td>1585</td><td>666</td><td>1777</td><td>1585</td><td>643</td><td>1702</td><td>1751</td><td>372</td><td>1702</td><td>1801</td><td></td></t<>	Grp Sat Flow(s), veh/h/ln 94	44	1777	1585	666	1777	1585	643	1702	1751	372	1702	1801	
Prop In Lane	Q Serve(g_s), s 5	5.6	5.6	18.1	16.4	4.7	4.0	21.5	14.5	14.5	21.3	7.1	7.1	
Lane Grp Cap(c), veh/h 393 1342 598 297 1342 598 717 1713 881 211 1713 907  V/C Ratio(X) 0.23 0.28 0.74 0.53 0.24 0.21 0.58 0.55 0.55 0.51 0.31 0.32  Avail Cap(c_a), veh/h 575 2024 903 425 2024 903 717 1713 881 211 1713 907  HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Cycle Q Clear(g_c), s 10	0.2	5.6	18.1	22.0	4.7	4.0	28.6	14.5	14.5	35.8	7.1	7.1	
V/C Ratio(X)         0.23         0.28         0.74         0.53         0.24         0.21         0.58         0.55         0.55         0.51         0.31         0.32           Avail Cap(c_a), veh/h         575         2024         903         425         2024         903         717         1713         881         211         1713         907           HCM Platoon Ratio         1.00         0.0         0.0         0.0	Prop In Lane 1.0	00		1.00	1.00		1.00	1.00		0.38	1.00		0.21	
Avail Cap(c_a), veh/h 575 2024 903 425 2024 903 717 1713 881 211 1713 907  HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Lane Grp Cap(c), veh/h 39	93	1342	598	297	1342	598	717	1713	881	211	1713	907	
HCM Platoon Ratio	V/C Ratio(X) 0.2	23	0.28	0.74	0.53	0.24	0.21	0.58	0.55	0.55	0.51	0.31	0.32	
Upstream Filter(I) 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Avail Cap(c_a), veh/h 57	75	2024	903	425	2024	903	717	1713	881	211	1713	907	
Uniform Delay (d), s/veh19.6 16.4 20.2 24.1 16.1 15.9 19.5 12.9 12.9 25.2 11.1 11.1 Incr Delay (d2), s/veh 0.3 0.1 1.8 1.5 0.1 0.2 3.4 1.3 2.5 8.6 0.5 0.9 Initial Q Delay(d3), s/veh 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	HCM Platoon Ratio 1.0	00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Incr Delay (d2), s/veh	Upstream Filter(I) 1.0	00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Initial Q Delay(d3),s/veh 0.0	Uniform Delay (d), s/veh19	9.6	16.4	20.2	24.1	16.1	15.9	19.5	12.9	12.9	25.2	11.1	11.1	
%ile BackOfO(50%),veh/lrf1.2       2.1       6.2       2.5       1.7       1.3       3.1       5.0       5.4       2.2       2.4       2.6         Unsig. Movement Delay, s/veh       19.9       16.5       22.0       25.5       16.2       16.1       23.0       14.2       15.4       33.8       11.5       12.0         LnGrp LOS       B       B       C       C       B       B       C       B       B         Approach Vol, veh/h       913       604       1855       934         Approach Delay, s/veh       19.5       18.6       16.5       14.3         Approach LOS       B       B       B       B       B         B       B       B       B       B       B         Phs Duration (G+Y+Rc), s       42.5       33.0       42.5       33.0       42.5       33.0         Change Period (Y+Rc), s       4.5       4.5       4.5       4.5       4.5         Max Green Setting (Gmax), s       38.0       43.0       38.0       43.0         Max Q Clear Time (g_c+l1), s       31.6       21.1       38.8       25.0         Green Ext Time (p_c), s       5.3       4.5       0.0       3.5	Incr Delay (d2), s/veh 0	0.3	0.1	1.8	1.5	0.1	0.2	3.4	1.3	2.5	8.6	0.5	0.9	
Unsig. Movement Delay, s/veh LnGrp Delay(d),s/veh 19.9 16.5 22.0 25.5 16.2 16.1 23.0 14.2 15.4 33.8 11.5 12.0 LnGrp LOS B B C C B B C B B C B B Approach Vol, veh/h 913 604 1855 934 Approach Delay, s/veh 19.5 18.6 16.5 14.3 Approach LOS B B B B B B B B B B B Timer - Assigned Phs 2 4 6 8 Phs Duration (G+Y+Rc), s 42.5 33.0 42.5 33.0 Change Period (Y+Rc), s 4.5 4.5 4.5 Max Green Setting (Gmax), s 38.0 43.0 38.0 43.0 Max Q Clear Time (g_c+l1), s 31.6 21.1 38.8 25.0 Green Ext Time (p_c), s 5.3 4.5 0.0 3.5 Intersection Summary HCM 6th Ctrl Delay 16.9	Initial Q Delay(d3),s/veh 0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0			0.0	
LnGrp Delay(d),s/veh       19.9       16.5       22.0       25.5       16.2       16.1       23.0       14.2       15.4       33.8       11.5       12.0         LnGrp LOS       B       B       C       C       B       B       C       B       A       A       A       A       A       A       A       A       A       A       A       A       A	%ile BackOfQ(50%), veh/lf1	1.2	2.1	6.2	2.5	1.7	1.3	3.1	5.0	5.4	2.2	2.4	2.6	
LnGrp LOS         B         B         C         C         B         B         C         B         B           Approach Vol, veh/h         913         604         1855         934           Approach Delay, s/veh         19.5         18.6         16.5         14.3           Approach LOS         B         B         B         B         B           Timer - Assigned Phs         2         4         6         8           Phs Duration (G+Y+Rc), s         42.5         33.0         42.5         33.0           Change Period (Y+Rc), s         4.5         4.5         4.5         4.5           Max Green Setting (Gmax), s         38.0         43.0         38.0         43.0           Max Q Clear Time (g_c+I1), s         31.6         21.1         38.8         25.0           Green Ext Time (p_c), s         5.3         4.5         0.0         3.5           Intersection Summary           HCM 6th Ctrl Delay         16.9		/veh	l											
Approach Vol, veh/h       913       604       1855       934         Approach Delay, s/veh       19.5       18.6       16.5       14.3         Approach LOS       B       B       B       B         Timer - Assigned Phs       2       4       6       8         Phs Duration (G+Y+Rc), s       42.5       33.0       42.5       33.0         Change Period (Y+Rc), s       4.5       4.5       4.5         Max Green Setting (Gmax), s       38.0       43.0       38.0       43.0         Max Q Clear Time (g_c+l1), s       31.6       21.1       38.8       25.0         Green Ext Time (p_c), s       5.3       4.5       0.0       3.5         Intersection Summary         HCM 6th Ctrl Delay       16.9	LnGrp Delay(d),s/veh 19	9.9		22.0	25.5	16.2	16.1	23.0	14.2	15.4			12.0	
Approach Delay, s/veh 19.5 18.6 16.5 14.3  Approach LOS B B B B B  Timer - Assigned Phs 2 4 6 8  Phs Duration (G+Y+Rc), s 42.5 33.0 42.5 33.0  Change Period (Y+Rc), s 4.5 4.5 4.5  Max Green Setting (Gmax), s 38.0 43.0 38.0 43.0  Max Q Clear Time (g_c+I1), s 31.6 21.1 38.8 25.0  Green Ext Time (p_c), s 5.3 4.5 0.0 3.5  Intersection Summary  HCM 6th Ctrl Delay 16.9	LnGrp LOS	В	В	С	С	В	В	С	В	В	С	В	В	
Approach LOS B B B B B  Timer - Assigned Phs 2 4 6 8  Phs Duration (G+Y+Rc), s 42.5 33.0 42.5 33.0  Change Period (Y+Rc), s 4.5 4.5 4.5  Max Green Setting (Gmax), s 38.0 43.0 38.0 43.0  Max Q Clear Time (g_c+I1), s 31.6 21.1 38.8 25.0  Green Ext Time (p_c), s 5.3 4.5 0.0 3.5  Intersection Summary  HCM 6th Ctrl Delay 16.9	Approach Vol, veh/h		913			604			1855			934		
Timer - Assigned Phs       2       4       6       8         Phs Duration (G+Y+Rc), s       42.5       33.0       42.5       33.0         Change Period (Y+Rc), s       4.5       4.5       4.5         Max Green Setting (Gmax), s       38.0       43.0       38.0       43.0         Max Q Clear Time (g_c+l1), s       31.6       21.1       38.8       25.0         Green Ext Time (p_c), s       5.3       4.5       0.0       3.5         Intersection Summary         HCM 6th Ctrl Delay       16.9	Approach Delay, s/veh		19.5			18.6			16.5			14.3		
Phs Duration (G+Y+Rc), s 42.5 33.0 42.5 33.0 Change Period (Y+Rc), s 4.5 4.5 4.5 4.5 Max Green Setting (Gmax), s 38.0 43.0 38.0 43.0 Max Q Clear Time (g_c+l1), s 31.6 21.1 38.8 25.0 Green Ext Time (p_c), s 5.3 4.5 0.0 3.5 Intersection Summary  HCM 6th Ctrl Delay 16.9	Approach LOS		В			В			В			В		
Phs Duration (G+Y+Rc), s 42.5 33.0 42.5 33.0 Change Period (Y+Rc), s 4.5 4.5 4.5 4.5 Max Green Setting (Gmax), s 38.0 43.0 38.0 43.0 Max Q Clear Time (g_c+l1), s 31.6 21.1 38.8 25.0 Green Ext Time (p_c), s 5.3 4.5 0.0 3.5 Intersection Summary  HCM 6th Ctrl Delay 16.9	Timer - Assigned Phs		2		4		6		8					
Change Period (Y+Rc), s 4.5 4.5 4.5  Max Green Setting (Gmax), s 38.0 43.0 38.0 43.0  Max Q Clear Time (g_c+l1), s 31.6 21.1 38.8 25.0  Green Ext Time (p_c), s 5.3 4.5 0.0 3.5  Intersection Summary  HCM 6th Ctrl Delay 16.9														
Max Green Setting (Gmax), s       38.0       43.0       38.0       43.0         Max Q Clear Time (g_c+l1), s       31.6       21.1       38.8       25.0         Green Ext Time (p_c), s       5.3       4.5       0.0       3.5         Intersection Summary         HCM 6th Ctrl Delay       16.9	,													
Max Q Clear Time (g_c+I1), s       31.6       21.1       38.8       25.0         Green Ext Time (p_c), s       5.3       4.5       0.0       3.5         Intersection Summary         HCM 6th Ctrl Delay       16.9		). S												
Green Ext Time (p_c), s 5.3 4.5 0.0 3.5  Intersection Summary HCM 6th Ctrl Delay 16.9	3 \													
HCM 6th Ctrl Delay 16.9		<i>,</i> ,												
HCM 6th Ctrl Delay 16.9	Intersection Summary													
,				16.9										
	HCM 6th LOS			В										

و	<b>,</b> →	•	•	•	•	<b>~</b>	<b>†</b>	/	/	ţ	4	
Movement EE	BL EB	T EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations			*	4	7	ሻሻ	<b>^</b>			1111	7	
Traffic Volume (veh/h)	0 (	0 (	339	4	418	283	1305	0	0	870	393	
Future Volume (veh/h)		) 0	339	4	418	283	1305	0	0	870	393	
Initial Q (Qb), veh			0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)			1.00		1.00	1.00		1.00	1.00		1.00	
Parking Bus, Adj			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach				No			No			No		
Adj Sat Flow, veh/h/ln			1870	1870	1870	1870	1870	0	0	1870	1870	
Adj Flow Rate, veh/h			508	0	281	298	1374	0	0	916	414	
Peak Hour Factor			0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	
Percent Heavy Veh, %			2	2	2	2	2	0	0	2	2	
Cap, veh/h			831	0	370	657	3342	0	0	4211	1037	
Arrive On Green			0.23	0.00	0.23	0.65	0.65	0.00	0.00	0.65	0.65	
Sat Flow, veh/h			3563	0	1585	799	5274	0	0	6696	1585	
Grp Volume(v), veh/h			508	0	281	298	1374	0	0	916	414	
Grp Sat Flow(s), veh/h/ln			1781	0	1585	400	1702	0	0	1609	1585	
2 Serve(g_s), s			10.2	0.0	13.3	19.2	10.2	0.0	0.0	4.6	9.8	
Cycle Q Clear(g_c), s			10.2	0.0	13.3	23.8	10.2	0.0	0.0	4.6	9.8	
Prop In Lane			1.00		1.00	1.00		0.00	0.00		1.00	
Lane Grp Cap(c), veh/h			831	0	370	657	3342	0.00	0.00	4211	1037	
V/C Ratio(X)			0.61	0.00	0.76	0.45	0.41	0.00	0.00	0.22	0.40	
Avail Cap(c_a), veh/h			1266	0	563	657	3342	0.00	0.00	4211	1037	
HCM Platoon Ratio			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)			1.00	0.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00	
Uniform Delay (d), s/veh			27.5	0.0	28.7	10.4	6.6	0.0	0.0	5.6	6.5	
Incr Delay (d2), s/veh			0.7	0.0	3.2	2.3	0.4	0.0	0.0	0.1	1.1	
Initial Q Delay(d3),s/veh			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln			4.3	0.0	5.2	1.5	2.9	0.0	0.0	1.2	2.8	
Unsig. Movement Delay, s/												
LnGrp Delay(d),s/veh			28.2	0.0	31.9	12.6	6.9	0.0	0.0	5.7	7.6	
LnGrp LOS			С	Α	С	В	Α	Α	Α	Α	Α	
Approach Vol, veh/h				789			1672			1330		
Approach Delay, s/veh				29.5			7.9			6.3		
Approach LOS				С			Α			А		
Timer - Assigned Phs		2			6		8					
Phs Duration (G+Y+Rc), s	57.0				57.0		23.2					
Change Period (Y+Rc), s	4.!				4.5		4.5					
Max Green Setting (Gmax)					52.5		28.5					
Max Q Clear Time (g_c+l1)					12.8		16.3					
Green Ext Time (p_c), s	7, 3 20.0 16.!				9.4		2.5					
4 – 7	10.3				7.4		۷.0					
Intersection Summary		11.0										
HCM 6th Ctrl Delay		11.9										
HCM 6th LOS		В										
Notes												

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ች	4	7					<del>ተ</del> ተጉ		ሻሻ	<b>^</b>		
Traffic Volume (veh/h)	520	0	305	0	0	0	0	1073	438	345	864	0	
Future Volume (veh/h)	520	0	305	0	0	0	0	1073	438	345	864	0	
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		1.00	1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No						No			No		
	1870	1870	1870				0	1870	1870	1870	1870	0	
Adj Flow Rate, veh/h	647	0	214				0	1129	461	363	909	0	
Peak Hour Factor	0.95	0.95	0.95				0.95	0.95	0.95	0.95	0.95	0.95	
Percent Heavy Veh, %	2	2	2				0	2	2	2	2	0	
Cap, veh/h	713	0	317				0	2492	1017	509	2488	0	
Arrive On Green	0.20	0.00	0.20				0.00	0.70	0.70	0.70	0.70	0.00	
Sat Flow, veh/h	3563	0	1585				0	3729	1452	622	3647	0	
Grp Volume(v), veh/h	647	0	214				0	1079	511	363	909	0	
Grp Sat Flow(s), veh/h/lr		0	1585				0	1702	1609	311	1777	0	
Q Serve(g_s), s	16.0	0.0	11.2				0.0	12.5	12.6	50.4	9.3	0.0	
Cycle Q Clear(g_c), s	16.0	0.0	11.2				0.0	12.5	12.6	63.0	9.3	0.0	
Prop In Lane	1.00		1.00				0.00		0.90	1.00		0.00	
Lane Grp Cap(c), veh/h		0	317				0	2383	1126	509	2488	0	
V/C Ratio(X)	0.91	0.00	0.68				0.00	0.45	0.45	0.71	0.37	0.00	
Avail Cap(c_a), veh/h	713	0	317				0	2383	1126	509	2488	0	
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	0.00	1.00				0.00	1.00	1.00	1.00	1.00	0.00	
Uniform Delay (d), s/veh		0.0	33.3				0.0	5.9	5.9	20.8	5.4	0.0	
Incr Delay (d2), s/veh	15.5	0.0	5.6				0.0	0.6	1.3	8.3	0.4	0.0	
Initial Q Delay(d3),s/veh		0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%), vel		0.0	4.7				0.0	3.5	3.5	3.9	2.7	0.0	
Unsig. Movement Delay													
LnGrp Delay(d),s/veh	50.7	0.0	38.9				0.0	6.6	7.3	29.0	5.9	0.0	
LnGrp LOS	D	А	D				Α	А	Α	С	Α	А	
Approach Vol, veh/h		861						1590			1272		
Approach Delay, s/veh		47.8						6.8			12.5		
Approach LOS		D						Α			В		
Timer - Assigned Phs		2		4		6							
Phs Duration (G+Y+Rc)		67.5		22.5		67.5							
Change Period (Y+Rc),		4.5		4.5		4.5							
Max Green Setting (Gm		63.0		18.0		63.0							
Max Q Clear Time (g_c-		15.6		19.0		66.0							
Green Ext Time (p_c), s	5	16.0		0.0		0.0							
Intersection Summary													
HCM 6th Ctrl Delay			18.2										
HCM 6th LOS			В										
Notes													

## 1: San Bernardino Ave & Lilac Ave

Intersection			
Intersection Delay, s/veh	13.1		
Intersection LOS	В		

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4₽	7		4₽	7		ર્ન	7		ર્ન	7
Traffic Vol, veh/h	29	246	130	46	201	74	84	38	33	107	55	63
Future Vol, veh/h	29	246	130	46	201	74	84	38	33	107	55	63
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	32	267	141	50	218	80	91	41	36	116	60	68
Number of Lanes	0	2	1	0	2	1	0	1	1	0	1	1
Approach	EB			WB			NB			SB		
Opposing Approach	WB			EB			SB			NB		
Opposing Lanes	3			3			2			2		
Conflicting Approach Left	SB			NB			EB			WB		
Conflicting Lanes Left	2			2			3			3		
Conflicting Approach Right	NB			SB			WB			EB		
Conflicting Lanes Right	2			2			3			3		
HCM Control Delay	12.7			12.6			13.5			14.2		
HCM LOS	В			В			В			В		

Lane	NBLn1	NBLn2	EBLn1	EBLn2	EBLn3	WBLn1	WBLn2	WBLn3	SBLn1	SBLn2	
Vol Left, %	69%	0%	26%	0%	0%	41%	0%	0%	66%	0%	
Vol Thru, %	31%	0%	74%	100%	0%	59%	100%	0%	34%	0%	
Vol Right, %	0%	100%	0%	0%	100%	0%	0%	100%	0%	100%	
Sign Control	Stop										
Traffic Vol by Lane	122	33	111	164	130	113	134	74	162	63	
LT Vol	84	0	29	0	0	46	0	0	107	0	
Through Vol	38	0	82	164	0	67	134	0	55	0	
RT Vol	0	33	0	0	130	0	0	74	0	63	
Lane Flow Rate	133	36	121	178	141	123	146	80	176	68	
Geometry Grp	8	8	8	8	8	8	8	8	8	8	
Degree of Util (X)	0.3	0.071	0.246	0.357	0.255	0.259	0.299	0.149	0.387	0.131	
Departure Headway (Hd)	8.152	7.098	7.35	7.217	6.502	7.605	7.397	6.682	7.917	6.879	
Convergence, Y/N	Yes										
Cap	440	504	489	499	553	472	485	536	454	521	
Service Time	5.905	4.85	5.096	4.963	4.248	5.354	5.146	4.431	5.665	4.626	
HCM Lane V/C Ratio	0.302	0.071	0.247	0.357	0.255	0.261	0.301	0.149	0.388	0.131	
HCM Control Delay	14.4	10.4	12.5	13.9	11.5	13	13.3	10.6	15.6	10.7	
HCM Lane LOS	В	В	В	В	В	В	В	В	С	В	
HCM 95th-tile Q	1.2	0.2	1	1.6	1	1	1.2	0.5	1.8	0.4	

Intersection													
Intersection Delay, s/vel													
Intersection LOS	С												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ች	ħβ		ች	ħβ			4	7		4		
Traffic Vol, veh/h	14	337	33	19	279	71	19	53	11	85	182	23	
Future Vol, veh/h	14	337	33	19	279	71	19	53	11	85	182	23	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2	
Mvmt Flow	15	366	36	21	303	77	21	58	12	92	198	25	
Number of Lanes	1	2	0	1	2	0	0	1	1	0	1	0	
		_	J		_	<u> </u>		•					
Approach	EB			WB			NB			SB			
Opposing Approach	WB			EB			SB			NB			
Opposing Lanes	3			3			1			2			
Conflicting Approach Le	eft SB			NB			EB			WB			
Conflicting Lanes Left	1			2			3			3			
Conflicting Approach Rig	ghNB			SB			WB			EB			
Conflicting Lanes Right	2			1			3			3			
HCM Control Delay	16			14.8			13			24.5			
HCM LOS	С			В			В			С			
Lane	N	JRI n1 i	VRI n2	FRI n1	FRI n2	EBLn3\	VBI n1\	VRI n2V	VRI n3	SBI n1			
Vol Left, %	•	26%		100%	0%		100%	0%	0%	29%			
Vol Thru, %		74%	0%	0%	100%	77%	0%	100%	57%	63%			
Vol Right, %		0%	100%	0%	0%	23%	0%	0%	43%	8%			
Sign Control		Stop	Stop	Stop	Stop	Stop	Stop	Stop	Stop	Stop			
Traffic Vol by Lane		72	11	14	225	145	19	186	164	290			
LT Vol		19	0	14	0	0	19	0	0	85			
Through Vol		53	0	0	225	112	0	186	93	182			
RT Vol		0	11	0	0	33	0	0	71	23			
Lane Flow Rate		78	12	15	244	158	21	202	178	315			
Geometry Grp		8	8	8	8	8	8	8	8	8			
Degree of Util (X)			0.026		0.508	0.322							
Departure Headway (Ho		8.566				7.333							
Convergence, Y/N	,	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
Can		/10	140	114	101	400	112	175	104	172			

496

5.31 4.998 5.385

0.425 0.359 0.666

14

В

1.6

473

24.5

C

4.8

418

13.3

В

0.7

0.187 0.026

462

10.7

В

0.1

446

11.1

В

0.1

6.346 5.495 5.771 5.257 5.093 5.825

0.034 0.507

481

17.8

C

2.8

490

13.6

В

1.4

0.322 0.047

443

11.2

В

0.1

475

15.8

C

2.1

Cap

Service Time

HCM Lane V/C Ratio

**HCM Control Delay** 

HCM Lane LOS

HCM 95th-tile Q

	۶	<b>→</b>	•	•	<b>←</b>	•	4	<b>†</b>	<i>&gt;</i>	<b>&gt;</b>	ţ	√	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	7	ħβ			<b>∱</b> }			<b>^</b>	7		<b>∱</b> ∱		
Traffic Volume (veh/h)	79	211	109	307	238	74	56	393	138	90	699	86	
Future Volume (veh/h)	79	211	109	307	238	74	56	393	138	90	699	86	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No	1070	1070	No	1070	1070	No	1070	1070	No	1070	
,	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	83	222	115	323	251	78	59	414	145	95	736	91	
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	
Percent Heavy Veh, % Cap, veh/h	124	347	173	381	794	241	108	1252	558	139	1176	145	
Arrive On Green	0.07	0.15	0.15	0.21	0.30	0.30	0.06	0.35	0.35	0.08	0.37	0.37	
	1781	2295	1146	1781	2685	815	1781	3554	1585	1781	3183	393	
Grp Volume(v), veh/h	83	170	167	323	164	165	59	414	145	95	411	416	
Grp Sat Flow(s), veh/h/lr		1777	1664	1781	1777	1724	1781	1777	1585	1781	1777	1800	
Q Serve( $g_s$ ), s	4.0	7.9	8.3	15.3	6.3	6.6	2.8	7.5	5.7	4.6	16.7	16.7	
Cycle Q Clear(g_c), s	4.0	7.9	8.3	15.3	6.3	6.6	2.8	7.5	5.7	4.6	16.7	16.7	
Prop In Lane	1.00	7.7	0.69	1.00	0.0	0.47	1.00	7.0	1.00	1.00	10.7	0.22	
Lane Grp Cap(c), veh/h		269	252	381	525	510	108	1252	558	139	656	665	
V/C Ratio(X)	0.67	0.63	0.66	0.85	0.31	0.32	0.55	0.33	0.26	0.69	0.63	0.63	
Avail Cap(c_a), veh/h	247	767	719	496	1016	985	142	1252	558	172	656	665	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/vel	า39.9	35.0	35.2	33.2	24.1	24.1	40.1	20.9	20.3	39.5	22.8	22.8	
Incr Delay (d2), s/veh	6.1	2.5	3.0	10.3	0.3	0.4	4.2	0.7	1.1	8.0	4.5	4.4	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),vel		3.5	3.5	7.4	2.6	2.6	1.3	3.0	2.2	2.2	7.3	7.3	
Unsig. Movement Delay													
LnGrp Delay(d),s/veh	46.0	37.5	38.2	43.5	24.4	24.5	44.4	21.6	21.4	47.5	27.2	27.2	
LnGrp LOS	D	D	D	D	С	С	D	С	С	D	С	С	
Approach Vol, veh/h		420			652			618			922		
Approach Delay, s/veh		39.5			33.9			23.7			29.3		
Approach LOS		D			С			С			С		
Timer - Assigned Phs	1	2	3	4	5	6	7	8					
Phs Duration (G+Y+Rc)	,131.3	35.5	23.3	17.8	9.8	37.0	10.6	30.5					
Change Period (Y+Rc),		4.5	4.5	4.5	4.5	4.5	4.5	4.5					
Max Green Setting (Gm		31.0	24.5	38.0	7.0	32.5	12.2	50.3					
Max Q Clear Time (g_c-		10.5	18.3	11.3	5.8	19.7	7.0	9.6					
Green Ext Time (p_c), s	0.0	2.9	0.5	2.0	0.0	4.0	0.1	2.0					
Intersection Summary													
HCM 6th Ctrl Delay			30.8										
HCM 6th LOS			С										

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Movement	WBL	WBR	NBT	NBR	SBL	SBT		
Lane Configurations	¥		<del>ተ</del> ተኈ		ሻ	<b>^</b>		
Traffic Volume (veh/h)	3	4	634	8	15	1128		
Future Volume (veh/h)	3	4	634	8	15	1128		
Initial Q (Qb), veh	0	0	0	0	0	0		
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		
Work Zone On Approac	ch No		No			No		
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870		
Adj Flow Rate, veh/h	3	4	689	9	16	1226		
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92		
Percent Heavy Veh, %	2	2	2	2	2	2		
Cap, veh/h	9	12	3764	49	49	4237		
Arrive On Green	0.01	0.01	0.72	0.72	0.03	0.83		
Sat Flow, veh/h	633	843	5363	68	1781	5274		
Grp Volume(v), veh/h	8	0	451	247	16	1226		
Grp Sat Flow(s), veh/h/l		0	1702	1858	1781	1702		
Q Serve(q_s), s	0.3	0.0	2.4	2.4	0.5	3.1		
Cycle Q Clear(q_c), s	0.3	0.0	2.4	2.4	0.5	3.1		
Prop In Lane	0.37	0.50		0.04	1.00			
Lane Grp Cap(c), veh/h		0	2467	1346	49	4237		
V/C Ratio(X)	0.32	0.00	0.18	0.18	0.33	0.29		
Avail Cap(c_a), veh/h	962	0	2467	1346	293	4237		
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00		
Uniform Delay (d), s/ve		0.0	2.5	2.5	27.6	1.1		
Incr Delay (d2), s/veh	7.4	0.0	0.2	0.3	3.8	0.2		
Initial Q Delay(d3),s/vel		0.0	0.0	0.0	0.0	0.0		
%ile BackOfQ(50%), ve		0.0	0.3	0.4	0.3	0.1		
Unsig. Movement Dela			0.0	0	0.0	0		
LnGrp Delay(d),s/veh	35.6	0.0	2.7	2.8	31.4	1.3		
LnGrp LOS	D	A	A	A	С	A		
Approach Vol, veh/h	8		698			1242		
Approach Delay, s/veh	-		2.7			1.7		
Approach LOS	D		Α.			Α		
••			,,			/ \		
Timer - Assigned Phs	1	2				6	8	
Phs Duration (G+Y+Rc	, .	46.4				52.5	5.3	
Change Period (Y+Rc),		4.5				4.5	4.5	
Max Green Setting (Gn		34.0				48.0	33.0	
Max Q Clear Time (g_c		5.4				6.1	3.3	
Green Ext Time (p_c),	s 0.0	4.5				10.8	0.0	
Intersection Summary								
HCM 6th Ctrl Delay			2.2					
HCM 6th LOS			A					
			, ,					
Notes								

Intersection						
Int Delay, s/veh	0					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations		7			<b>∱</b> ∱∱	
Traffic Vol, veh/h	0	0	0	2	6	0
Future Vol, veh/h	0	0	0	2	6	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage,	# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	0	0	0	2	7	0
WWIIIC I IOW	U	U	U		,	U
Major/Minor M	inor2	١	/lajor1		Major2	
Conflicting Flow All	-	4	-	0	-	0
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	7.14	-	_	-	-
Critical Hdwy Stg 1	_	-	_	_	_	_
Critical Hdwy Stg 2	_	_	-	_	_	_
Follow-up Hdwy	_	3.92	_	_	_	_
Pot Cap-1 Maneuver	0	913	0		-	_
•	0	713	0			
Stage 1				-	-	-
Stage 2	0	-	0	-	-	-
Platoon blocked, %		0.10		-	-	-
Mov Cap-1 Maneuver	-	913	-	-	-	-
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Approach	EB		NB		SB	
HCM Control Delay, s	0		0		0	
			U		U	
HCM LOS	Α					
Minor Lane/Major Mvmt		NBT E	EBLn1	SBT	SBR	
Capacity (veh/h)						
HCM Lane V/C Ratio		_		_	_	
HCM Control Delay (s)		_	0			
HCM Lane LOS		-				
LICIVI LAHE LUS		-	Α	-	-	
HCM 95th %tile Q(veh)						

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	f)		7	f)		7	<b>↑</b> ↑₽		7	<b>↑</b> ↑₽	
Traffic Volume (veh/h)	24	3	46	26	2	32	43	605	30	112	946	74
Future Volume (veh/h)	24	3	46	26	2	32	43	605	30	112	946	74
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	26	3	50	28	2	35	47	658	33	122	1028	80
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	335	12	207	321	12	208	454	3208	160	619	3111	242
Arrive On Green	0.14	0.14	0.14	0.14	0.14	0.14	0.64	0.64	0.64	0.64	0.64	0.64
Sat Flow, veh/h	1371	91	1508	1351	86	1512	509	4981	249	752	4831	375
Grp Volume(v), veh/h	26	0	53	28	0	37	47	449	242	122	724	384
Grp Sat Flow(s), veh/h/ln	1371	0	1599	1351	0	1598	509	1702	1826	752	1702	1803
Q Serve(g_s), s	0.7	0.0	1.2	0.8	0.0	0.8	1.9	2.2	2.2	3.3	4.0	4.0
Cycle Q Clear(g_c), s	1.5	0.0	1.2	2.0	0.0	0.8	5.9	2.2	2.2	5.5	4.0	4.0
Prop In Lane	1.00		0.94	1.00		0.95	1.00		0.14	1.00		0.21
Lane Grp Cap(c), veh/h	335	0	220	321	0	219	454	2192	1176	619	2192	1161
V/C Ratio(X)	0.08	0.00	0.24	0.09	0.00	0.17	0.10	0.20	0.21	0.20	0.33	0.33
Avail Cap(c_a), veh/h	3295	0	3672	3238	0	3670	454	2192	1176	619	2192	1161
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	16.4	0.0	15.8	16.7	0.0	15.7	4.6	3.0	3.0	4.1	3.3	3.3
Incr Delay (d2), s/veh	0.1	0.0	0.6	0.1	0.0	0.4	0.5	0.2	0.4	0.7	0.4	0.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	0.0	0.4	0.2	0.0	0.3	0.2	0.3	0.3	0.3	0.5	0.6
Unsig. Movement Delay, s/vel	h											
LnGrp Delay(d),s/veh	16.5	0.0	16.4	16.8	0.0	16.0	5.1	3.2	3.4	4.9	3.7	4.1
LnGrp LOS	В	Α	В	В	Α	В	Α	Α	Α	Α	Α	Α
Approach Vol, veh/h		79			65			738			1230	
Approach Delay, s/veh		16.4			16.4			3.4			3.9	
Approach LOS		В			В			Α			А	
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		31.0		10.2		31.0		10.2				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		26.5		94.5		26.5		94.5				
Max Q Clear Time (q_c+l1), s		8.9		4.5		8.5		5.0				
Green Ext Time (p_c), s		4.4		0.4		7.6		0.3				
Intersection Summary												
HCM 6th Ctrl Delay			4.6									
HCM 6th LOS			А									
Notes												

User approved pedestrian interval to be less than phase max green.

Intersection						
Int Delay, s/veh	0					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	W		₽			4
Traffic Vol, veh/h	0	0	0	0	0	0
Future Vol, veh/h	0	0	0	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storag		-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	0	0	0	0	0	0
IVIVIIIL I IOVV	U	U	U	U	U	U
Major/Minor	Minor1	<u> </u>	/lajor1	<u> </u>	Najor2	
Conflicting Flow All	1	0	0	0	0	0
Stage 1	0	-	_	-	-	-
Stage 2	1	_	_	_	_	_
Critical Hdwy	6.42	6.22	_	-	4.12	_
Critical Hdwy Stg 1	5.42	-	_	_	-	_
Critical Hdwy Stg 2	5.42	_			_	_
Follow-up Hdwy	3.518		-	_	2.218	-
Pot Cap-1 Maneuver	1022			-	2.210	-
•		-	-	-		
Stage 1	1022	-	-	-	-	-
Stage 2	1022	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver		-	-	-	-	-
Mov Cap-2 Maneuver	1022	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	1022	-	-	-	-	-
Annroach	WB		NB		SB	
Approach						
HCM Control Delay, s			0		0	
HCM LOS	Α					
Minor Lane/Major Mvi	mt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		1101	110111	· DLIII	UDL	051
HCM Lane V/C Ratio		-	-	-	-	-
HCM Control Delay (s	٠)	-		0	0	-
	9)		-			
HCM Lane LOS	<b>b</b> )	-	-	Α	Α	-
HCM 95th %tile Q(ve	[1]	-	-	-	-	-

	ၨ	<b>→</b>	•	•	<b>←</b>	•	4	<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>	7	ሻ	<b>^</b>	7	ሻ	<b>₽</b>			र्स	7
Traffic Volume (veh/h)	20	592	0	6	463	57	1	0	2	179	0	50
Future Volume (veh/h)	20	592	0	6	463	57	1	0	2	179	0	50
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	1070	No	4070	4070	No	4070	4070	No	4070	4070	No	1070
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	22	643	0	7	503	62	1	0	2	195	0	54
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	211	919	410	171	919	410	852	0	985	974	0	985
Arrive On Green	0.26	0.26	0.00	0.26	0.26	0.26	0.62	0.00	0.62	0.62	0.00	0.62
Sat Flow, veh/h	846	3554	1585	787	3554	1585	1350	0	1585	1414	0	1585
Grp Volume(v), veh/h	22	643	0	7	503	62	1250	0	2	195	0	54
Grp Sat Flow(s), veh/h/ln	846	1777	1585	787	1777	1585	1350	0	1585	1414	0	1585
Q Serve(g_s), s	1.7	12.3	0.0	0.6	9.2	2.3	0.0	0.0	0.0	4.5	0.0	1.0
Cycle Q Clear(g_c), s	10.9	12.3	0.0	12.9	9.2	2.3	4.6	0.0	0.0	4.6	0.0	1.0
Prop In Lane	1.00	010	1.00	1.00	010	1.00	1.00	^	1.00	1.00	0	1.00 985
Lane Grp Cap(c), veh/h V/C Ratio(X)	211 0.10	919 0.70	410 0.00	171 0.04	919 0.55	410 0.15	852 0.00	0.00	985 0.00	974 0.20	0.00	0.05
	383	1638	731	330	1638	731	852	0.00	985	974	0.00	985
Avail Cap(c_a), veh/h HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	28.7	25.1	0.00	30.9	24.0	21.4	7.2	0.00	5.4	6.2	0.00	5.6
Incr Delay (d2), s/veh	0.2	1.0	0.0	0.1	0.5	0.2	0.0	0.0	0.0	0.5	0.0	0.1
Initial Q Delay(d3),s/veh	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.3	4.9	0.0	0.0	3.6	0.8	0.0	0.0	0.0	1.1	0.0	0.3
Unsig. Movement Delay, s/veh		7.7	0.0	0.1	3.0	0.0	0.0	0.0	0.0		0.0	0.5
LnGrp Delay(d),s/veh	28.9	26.1	0.0	31.0	24.5	21.6	7.3	0.0	5.4	6.7	0.0	5.7
LnGrp LOS	C	C	A	C	C	C	A	A	A	A	A	A
Approach Vol, veh/h		665			572			3			249	7.
Approach Delay, s/veh		26.2			24.2			6.0			6.5	
Approach LOS		C			C			A			A	
		2		4		6		8			, ,	
Timer - Assigned Phs				•								
Phs Duration (G+Y+Rc), s		51.0		23.9		51.0		23.9				
Change Period (Y+Rc), s		4.5		4.5		4.5 46.5		4.5				
Max Green Setting (Gmax), s		46.5		34.5				34.5 15.9				
Max Q Clear Time (g_c+l1), s Green Ext Time (p_c), s		7.6		15.3 4.1		7.6 1.2		3.2				
4 - /		0.0		4.1		1.2		3.2				
Intersection Summary												
HCM 6th Ctrl Delay			22.1									
HCM 6th LOS			С									

Movement   EBL   EBT   EBR   WBL   WBT   WBR   NBL   NBT   NBR   SBL   SBT   SBR		ၨ	<b>→</b>	•	•	<b>←</b>	•	4	<b>†</b>	<i>&gt;</i>	<b>&gt;</b>	ţ	✓	
Traffic Volume (vehrh)   10   753   0   2   515   3   0   0   0   3   0   7	Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Traffic Volume (vehrh) 10 753 0 2 515 3 0 0 0 0 3 0 7 Future Volume (vehrh) 10 753 0 2 515 3 0 0 0 0 3 0 7 Future Volume (vehrh) 10 753 0 2 515 3 0 0 0 0 3 0 7 Future Volume (vehrh) 10 753 0 2 515 3 0 0 0 0 3 0 7 Future Volume (vehrh) 10 753 0 2 515 3 0 0 0 0 3 0 7 Future Volume (vehrh) 10 753 0 0 2 515 3 0 0 0 0 0 0 0 0 0 Ped-Bike Adj(A_pbT) 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Lane Configurations	ሻ	<del>ተ</del> ቀኈ		ች	<b>^</b>	7		ĵ.			4		
Future Volume (vehh) 10				0						0	3		7	
Ped-Bike Adji(A, pbT)   1.00		10	753	0	2	515	3	0	0	0	3	0	7	
Parking Bus   Adj   1.00	Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Work Zone On Approach	Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Adj Sat Flow, veh/hln         1870         202         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.03         0.00         0.00         0.03         0.03         0.00         0.03<	Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Adj Flow Rate, veh/h         11         818         0         2         560         3         0         0         0         3         0         8           Peak Hour Factor         0.92         0.0	Work Zone On Approac	:h	No			No			No			No		
Peáak Hour Factor   0.92   0	Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	
Percent Heavy Veh, % 2	Adj Flow Rate, veh/h	11	818	0		560	3	0	0	0				
Cap, veh/h 234 1440 0 206 1002 447 109 1088 0 279 36 657 Arrive On Green 0.28 0.28 0.00 0.28 0.28 0.00 0.00 0.00	Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	
Arrive On Green	Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2		
Sat Flow, veh/h         847         5274         0         668         3554         1585         1407         1870         0         361         62         1129           Gry Volume(v), veh/h         11         818         0         2         560         3         0         0         0         11         0         0           Gry Sat Flow(s), veh/h/ln 847         1702         0         668         1777         1585         1407         1870         0         1552         0         0           O Serve(g_s), s         0.7         9.1         0.0         0.2         8.9         0.1         0.0 <td>•</td> <td></td>	•													
Grp Volume(v), veh/h 11 818 0 2 560 3 0 0 0 111 0 0 0 Grp Sat Flow(s), veh/h/ln 847 1702 0 668 1777 1585 1407 1870 0 1552 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Arrive On Green			0.00						0.00				
Grp Sat Flow(s), veh/h/ln 847 1702	Sat Flow, veh/h	847	5274	0	668	3554	1585	1407	1870	0	361	62	1129	
O Serve(g_s), s         0.7         9.1         0.0         0.2         8.9         0.1         0.0	Grp Volume(v), veh/h	11	818	0	2	560	3	0	0	0	11	0	0	
Cycle Q Clear(g_c), s         9.6         9.1         0.0         9.2         8.9         0.1         0.0	Grp Sat Flow(s), veh/h/li	n 847	1702	0	668	1777	1585	1407	1870	0	1552	0	0	
Prop In Lane	Q Serve(g_s), s	0.7	9.1	0.0	0.2	8.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
Lane Grp Cap(c), veh/h 234 1440 0 206 1002 447 109 1088 0 972 0 0  V/C Ratio(X) 0.05 0.57 0.00 0.01 0.56 0.01 0.00 0.00 0.00 0.01 0.00 0.00  Avail Cap(c_a), veh/h 539 3280 0 447 2283 1018 109 1088 0 972 0 0  HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Cycle Q Clear(g_c), s	9.6	9.1	0.0	9.2	8.9	0.1	0.0	0.0	0.0	0.2	0.0	0.0	
V/C Ratio(X)         0.05         0.57         0.00         0.01         0.56         0.01         0.00	Prop In Lane	1.00		0.00	1.00		1.00	1.00		0.00			0.73	
Avail Cap(c_a), veh/h 539 3280 0 447 2283 1018 109 1088 0 972 0 0  HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Lane Grp Cap(c), veh/h	234	1440	0	206	1002	447	109	1088	0	972	0	0	
HCM Platoon Ratio		0.05	0.57	0.00	0.01	0.56	0.01	0.00	0.00	0.00		0.00	0.00	
Upstream Filter(I) 1.00 1.00 0.00 1.00 1.00 1.00 0.00 0.0	Avail Cap(c_a), veh/h	539	3280	0	447	2283	1018	109	1088	0	972	0	0	
Uniform Delay (d), s/veh24.3	HCM Platoon Ratio					1.00		1.00		1.00				
Incr Delay (d2), s/veh							1.00	0.00	0.00	0.00				
Initial Q Delay(d3),s/veh 0.0							17.1	0.0	0.0					
%ile BackOfQ(50%),veh/l0.1       3.2       0.0       0.0       3.3       0.0       0.0       0.0       0.1       0.0       0.0         Unsig. Movement Delay, s/veh       LnGrp Delay(d),s/veh       24.4       20.7       0.0       24.3       20.7       17.1       0.0       0.0       0.0       5.8       0.0       0.0         LnGrp LOS       C       C       A       C       C       B       A       A       A       A       A         Approach Vol, veh/h       829       565       0       11         Approach Delay, s/veh       20.7       20.7       0.0       5.8         Approach LOS       C       C       C       A     Timer - Assigned Phs  2  4  6  8  Phs Duration (G+Y+Rc), s  43.0  23.2  Change Period (Y+Rc), s  4.5  4.5  4.5  4.5  4.5  Max Green Setting (Gmax), s  38.5  42.5  Max Q Clear Time (g_c+I1), s  0.0  12.6  3.2  12.2  Green Ext Time (p_c), s  0.0  6.0  0.0  3.8  Intersection Summary  HCM 6th Ctrl Delay  20.6  Physical Research Setting (South Setting Contact Se														
Unsig. Movement Delay, s/veh LnGrp Delay(d),s/veh 24.4 20.7 0.0 24.3 20.7 17.1 0.0 0.0 0.0 5.8 0.0 0.0 LnGrp LOS														
LnGrp Delay(d),s/veh       24.4       20.7       0.0       24.3       20.7       17.1       0.0       0.0       0.0       5.8       0.0       0.0         LnGrp LOS       C       C       A       C       C       B       A       A       A       A       A       A         Approach Vol, veh/h       829       565       0       11         Approach Delay, s/veh       20.7       20.7       0.0       5.8         Approach LOS       C       C       A         Timer - Assigned Phs       2       4       6       8         Phs Duration (G+Y+Rc), s       43.0       23.2       43.0       23.2         Change Period (Y+Rc), s       4.5       4.5       4.5         Max Green Setting (Gmax), s       38.5       42.5       38.5       42.5         Max Q Clear Time (g_c+l1), s       0.0       12.6       3.2       12.2         Green Ext Time (p_c), s       0.0       6.0       0.0       3.8         Intersection Summary         HCM 6th Ctrl Delay       20.6				0.0	0.0	3.3	0.0	0.0	0.0	0.0	0.1	0.0	0.0	
LnGrp LOS         C         C         A         C         C         B         A         A         A         A         A         A           Approach Vol, veh/h         829         565         0         11           Approach Delay, s/veh         20.7         20.7         0.0         5.8           Approach LOS         C         C         A           Timer - Assigned Phs         2         4         6         8           Phs Duration (G+Y+Rc), s         43.0         23.2         43.0         23.2           Change Period (Y+Rc), s         4.5         4.5         4.5         4.5           Max Green Setting (Gmax), s         38.5         42.5         38.5         42.5           Max Q Clear Time (g_c+l1), s         0.0         12.6         3.2         12.2           Green Ext Time (p_c), s         0.0         6.0         0.0         3.8           Intersection Summary           HCM 6th Ctrl Delay         20.6														
Approach Vol, veh/h       829       565       0       11         Approach Delay, s/veh       20.7       20.7       0.0       5.8         Approach LOS       C       C       A         Timer - Assigned Phs       2       4       6       8         Phs Duration (G+Y+Rc), s       43.0       23.2       43.0       23.2         Change Period (Y+Rc), s       4.5       4.5       4.5         Max Green Setting (Gmax), s       38.5       42.5       38.5       42.5         Max Q Clear Time (g_c+l1), s       0.0       12.6       3.2       12.2         Green Ext Time (p_c), s       0.0       6.0       0.0       3.8         Intersection Summary         HCM 6th Ctrl Delay       20.6	• • •													
Approach Delay, s/veh 20.7 20.7 0.0 5.8  Approach LOS C C C A  Timer - Assigned Phs 2 4 6 8  Phs Duration (G+Y+Rc), s 43.0 23.2 43.0 23.2  Change Period (Y+Rc), s 4.5 4.5 4.5  Max Green Setting (Gmax), s 38.5 42.5 38.5 42.5  Max Q Clear Time (g_c+I1), s 0.0 12.6 3.2 12.2  Green Ext Time (p_c), s 0.0 6.0 0.0 3.8  Intersection Summary  HCM 6th Ctrl Delay 20.6		С		<u>A</u>	<u>C</u>		В	A		A	A		A	
Approach LOS C C A  Timer - Assigned Phs 2 4 6 8  Phs Duration (G+Y+Rc), s 43.0 23.2 43.0 23.2  Change Period (Y+Rc), s 4.5 4.5 4.5  Max Green Setting (Gmax), s 38.5 42.5 38.5 42.5  Max Q Clear Time (g_c+I1), s 0.0 12.6 3.2 12.2  Green Ext Time (p_c), s 0.0 6.0 0.0 3.8  Intersection Summary  HCM 6th Ctrl Delay 20.6														
Timer - Assigned Phs 2 4 6 8  Phs Duration (G+Y+Rc), s 43.0 23.2 43.0 23.2  Change Period (Y+Rc), s 4.5 4.5 4.5  Max Green Setting (Gmax), s 38.5 42.5 38.5 42.5  Max Q Clear Time (g_c+I1), s 0.0 12.6 3.2 12.2  Green Ext Time (p_c), s 0.0 6.0 0.0 3.8  Intersection Summary  HCM 6th Ctrl Delay 20.6									0.0					
Phs Duration (G+Y+Rc), s 43.0 23.2 43.0 23.2 Change Period (Y+Rc), s 4.5 4.5 4.5 Max Green Setting (Gmax), s 38.5 42.5 38.5 42.5 Max Q Clear Time (g_c+I1), s 0.0 12.6 3.2 12.2 Green Ext Time (p_c), s 0.0 6.0 0.0 3.8 Intersection Summary HCM 6th Ctrl Delay 20.6	Approach LOS		С			С						Α		
Change Period (Y+Rc), s 4.5 4.5 4.5 4.5  Max Green Setting (Gmax), s 38.5 42.5 38.5 42.5  Max Q Clear Time (g_c+l1), s 0.0 12.6 3.2 12.2  Green Ext Time (p_c), s 0.0 6.0 0.0 3.8  Intersection Summary  HCM 6th Ctrl Delay 20.6	Timer - Assigned Phs		2		4		6		8					
Change Period (Y+Rc), s 4.5 4.5 4.5 4.5  Max Green Setting (Gmax), s 38.5 42.5 38.5 42.5  Max Q Clear Time (g_c+l1), s 0.0 12.6 3.2 12.2  Green Ext Time (p_c), s 0.0 6.0 0.0 3.8  Intersection Summary  HCM 6th Ctrl Delay 20.6	Phs Duration (G+Y+Rc)	), S	43.0		23.2		43.0		23.2					
Max Green Setting (Gmax), s       38.5       42.5         Max Q Clear Time (g_c+l1), s       0.0       12.6       3.2       12.2         Green Ext Time (p_c), s       0.0       6.0       0.0       3.8         Intersection Summary         HCM 6th Ctrl Delay       20.6														
Max Q Clear Time (g_c+l1), s       0.0       12.6       3.2       12.2         Green Ext Time (p_c), s       0.0       6.0       0.0       3.8         Intersection Summary         HCM 6th Ctrl Delay       20.6	. ,													
Green Ext Time (p_c), s 0.0 6.0 0.0 3.8  Intersection Summary  HCM 6th Ctrl Delay 20.6														
HCM 6th Ctrl Delay 20.6	.0_													
HCM 6th Ctrl Delay 20.6	Intersection Summary													
•				20.6										
	HCM 6th LOS			C										

J		<b>→</b>	•	•	<b>←</b>	•	1	<b>†</b>	<b>/</b>	/	ļ	✓	
Movement EB	L	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ኘ	<b>^</b>	7	ሻ	<b>^</b>	7	16	ተ <b>ተ</b> ኈ		ሻ	<del>ተ</del> ተጉ		
Traffic Volume (veh/h) 3	2	200	522	150	145	35	340	583	110	45	979	26	
Future Volume (veh/h) 3	2	200	522	150	145	35	340	583	110	45	979	26	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT) 1.0			1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Parking Bus, Adj 1.0	0	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach		No			No			No			No		
Adj Sat Flow, veh/h/ln 187		1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	
	3	208	544	156	151	36	354	607	115	47	1020	27	
Peak Hour Factor 0.9		0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2	
Cap, veh/h 53		1403	626	347	1403	626	564	2115	395	388	2503	66	
Arrive On Green 0.3		0.39	0.39	0.39	0.39	0.39	0.49	0.49	0.49	0.49	0.49	0.49	
Sat Flow, veh/h 119		3554	1585	711	3554	1585	1045	4323	806	731	5115	135	
	3	208	544	156	151	36	354	476	246	47	679	368	
Grp Sat Flow(s), veh/h/ln119		1777	1585	711	1777	1585	523	1702	1725	731	1702	1846	
Q Serve(g_s), s 1.		2.9	24.6	14.0	2.1	1.1	25.4	6.4	6.6	3.2	9.9	9.9	
Cycle Q Clear(g_c), s 3.		2.9	24.6	17.0	2.1	1.1	35.3	6.4	6.6	9.8	9.9	9.9	
Prop In Lane 1.0		1.100	1.00	1.00	4.400	1.00	1.00	4///	0.47	1.00	4///	0.07	
Lane Grp Cap(c), veh/h 53		1403	626	347	1403	626	564	1666	844	388	1666	903	
V/C Ratio(X) 0.0		0.15	0.87	0.45	0.11	0.06	0.63	0.29	0.29	0.12	0.41	0.41	
Avail Cap(c_a), veh/h 72		1968	878	460	1968	878	564	1666	844	388	1666	903	
HCM Platoon Ratio 1.0		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I) 1.0		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/veh 16.		15.1	21.7	20.6	14.9	14.6	23.9	11.8	11.8	14.7	12.6	12.7	
Incr Delay (d2), s/veh 0.		0.0	6.9 0.0	0.9	0.0	0.0	5.2	0.4	0.9	0.6	0.7	1.4	
Initial Q Delay(d3),s/veh 0. %ile BackOfQ(50%),veh/l0.		1.1	9.3	0.0	0.0	0.0	3.2	0.0	2.4	0.5	0.0 3.4	3.9	
Unsig. Movement Delay, s/		1.1	7.3	2.2	0.0	0.4	J.Z	۷.۷	2.4	0.5	J. <del>4</del>	3.7	
LnGrp Delay(d),s/veh 16.		15.2	28.6	21.5	14.9	14.6	29.1	12.2	12.7	15.4	13.4	14.0	
. , , ,	В	13.2 B	20.0 C	21.5 C	14.7 B	14.0 B	C C	12.2 B	12.7 B	13.4 B	13.4 B	14.0 B	
Approach Vol, veh/h	<u> </u>	785			343	D D		1076	<u> </u>	<u> </u>	1094	D	
Approach Delay, s/veh		24.5			17.9			17.9			13.7		
Approach LOS		24.5 C			17.9 B			17.7 R			13.7 B		
		C			D			D			D		
Timer - Assigned Phs		2		4		6		8					
Phs Duration (G+Y+Rc), s		42.5		35.2		42.5		35.2					
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5					
Max Green Setting (Gmax),		38.0		43.0		38.0		43.0					
Max Q Clear Time (g_c+I1)	, S	38.3		27.6		12.9		20.0					
Green Ext Time (p_c), s		0.0		3.1		7.6		2.2					
Intersection Summary													
HCM 6th Ctrl Delay			18.1										
HCM 6th LOS			В										

و	<b>→</b>	$\rightarrow$	•	•	•	•	<b>†</b>	/	<b>&gt;</b>	<b>↓</b>	✓	
Movement EB	L EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations			- 1	4	7	ሻሻ	ተተተ			1111	7	
	0 0	0	469	1	388	145	635	0	0	1119	530	
• • • • • • • • • • • • • • • • • • • •	0 0	0	469	1	388	145	635	0	0	1119	530	
Initial Q (Qb), veh			0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)			1.00		1.00	1.00	Ū	1.00	1.00	J	1.00	
Parking Bus, Adj			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Nork Zone On Approach			1.00	No	1.00	1.00	No	1.00	1.00	No	1.00	
Adj Sat Flow, veh/h/ln			1870	1870	1870	1870	1870	0	0	1870	1870	
Adj Flow Rate, veh/h			603	0	264	148	648	0	0	1142	541	
Peak Hour Factor			0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	
Percent Heavy Veh, %			2	2	2	2	2	0.70	0.70	2	2	
Cap, veh/h			849	0	378	514	3270	0	0	4120	1015	
Arrive On Green			0.24	0.00	0.24	0.64	0.64	0.00	0.00	0.64	0.64	
Sat Flow, veh/h			3563		1585	569	5274	0.00	0.00	6696	1585	
				0								
Grp Volume(v), veh/h			603	0	264	148	648	0	0	1142	541	
Grp Sat Flow(s), veh/h/ln			1781	0	1585	284	1702	0	0	1609	1585	
Q Serve(g_s), s			11.5	0.0	11.3	11.4	3.9	0.0	0.0	5.8	13.8	
Cycle Q Clear(g_c), s			11.5	0.0	11.3	17.2	3.9	0.0	0.0	5.8	13.8	
Prop In Lane			1.00		1.00	1.00		0.00	0.00		1.00	
_ane Grp Cap(c), veh/h			849	0	378	514	3270	0	0	4120	1015	
V/C Ratio(X)			0.71	0.00	0.70	0.29	0.20	0.00	0.00	0.28	0.53	
Avail Cap(c_a), veh/h			1609	0	716	514	3270	0	0	4120	1015	
HCM Platoon Ratio			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Jpstream Filter(I)			1.00	0.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00	
Jniform Delay (d), s/veh			25.9	0.0	25.8	9.6	5.5	0.0	0.0	5.8	7.3	
ncr Delay (d2), s/veh			1.1	0.0	2.3	1.4	0.1	0.0	0.0	0.2	2.0	
nitial Q Delay(d3),s/veh			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln			4.8	0.0	4.3	0.7	1.0	0.0	0.0	1.5	3.9	
Jnsig. Movement Delay, s/v	veh											
LnGrp Delay(d),s/veh			27.0	0.0	28.2	11.0	5.6	0.0	0.0	6.0	9.3	
_nGrp LOS			С	Α	С	В	Α	Α	Α	Α	Α	
Approach Vol, veh/h				867			796			1683		
Approach Delay, s/veh				27.4			6.6			7.1		
Approach LOS				C			A			A		
Timer - Assigned Phs	2				6		8					
Phs Duration (G+Y+Rc), s	52.0				52.0		22.2					
Change Period (Y+Rc), s	4.5				4.5		4.5					
Max Green Setting (Gmax),					47.5		33.5					
Max Q Clear Time (g_c+l1)	, s 20.2				16.8		14.5					
Green Ext Time (p_c), s	9.2				12.2		3.2					
ntersection Summary												
HCM 6th Ctrl Delay		12.2										
HCM 6th LOS		В										
Notes												

	۶	<b>→</b>	•	•	<b>←</b>	•	•	<b>†</b>	<i>&gt;</i>	<b>&gt;</b>	<b>↓</b>	✓	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	*	4	7					<del>ተ</del> ተጉ		ሻሻ	<b>^</b>		
Traffic Volume (veh/h)	221	0	250	0	0	0	0	559	355	468	1120	0	
Future Volume (veh/h)	221	0	250	0	0	0	0	559	355	468	1120	0	
Initial Q (Qb), veh	0	0	0		Ū	Ü	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	J	1.00				1.00	· ·	1.00	1.00	U	1.00	
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No	1.00				1.00	No	1.00	1.00	No	1.00	
Adj Sat Flow, veh/h/ln	1870	1870	1870				0	1870	1870	1870	1870	0	
Adj Flow Rate, veh/h	316	0	168				0	582	370	488	1167	0	
Peak Hour Factor	0.96	0.96	0.96				0.96	0.96	0.96	0.96	0.96	0.96	
Percent Heavy Veh, %	2	2	2				0.70	2	2	2	2	0.70	
Cap, veh/h	529	0	235				0	2536	1181	933	2647	0	
Arrive On Green	0.15	0.00	0.15				0.00	0.74	0.74	0.74	0.74	0.00	
Sat Flow, veh/h	3563	0.00	1585				0.00	3572	1585	1143	3647	0.00	
Grp Volume(v), veh/h	316	0	168				0	582	370	488	1167	0	
Grp Sat Flow(s), veh/h/h		0	1585				0	1702	1585	572	1777	0	
Q Serve(g_s), s	7.0	0.0	8.5				0.0	4.4	6.6	20.9	10.5	0.0	
Cycle Q Clear(g_c), s	7.0	0.0	8.5				0.0	4.4	6.6	27.5	10.5	0.0	
Prop In Lane	1.00		1.00				0.00	.=	1.00	1.00		0.00	
Lane Grp Cap(c), veh/h		0	235				0	2536	1181	933	2647	0	
V/C Ratio(X)	0.60	0.00	0.71				0.00	0.23	0.31	0.52	0.44	0.00	
Avail Cap(c_a), veh/h	764	0	340				0	2536	1181	933	2647	0	
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	0.00	1.00				0.00	1.00	1.00	1.00	1.00	0.00	
Uniform Delay (d), s/vel		0.0	34.2				0.0	3.3	3.6	8.2	4.1	0.0	
Incr Delay (d2), s/veh	1.1	0.0	4.0				0.0	0.2	0.7	2.1	0.5	0.0	
Initial Q Delay(d3),s/vel		0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%), vel	h/lß.0	0.0	3.5				0.0	1.0	1.5	2.2	2.5	0.0	
Unsig. Movement Delay	y, s/ve <mark>r</mark>	1											
LnGrp Delay(d),s/veh	34.7	0.0	38.2				0.0	3.5	4.3	10.2	4.6	0.0	
LnGrp LOS	С	Α	D				Α	Α	Α	В	Α	Α	
Approach Vol, veh/h		484						952			1655		
Approach Delay, s/veh		35.9						3.8			6.3		
Approach LOS		D						Α			Α		
Timer - Assigned Phs		2		4		6							
Phs Duration (G+Y+Rc)	) ς	67.4		17.0		67.4							
Change Period (Y+Rc),		4.5		4.5		4.5							
Max Green Setting (Gm		62.9		18.1		62.9							
Max Q Clear Time (g_c		9.6		11.5		30.5							
Green Ext Time (p_c),		7.5		1.0		18.1							
	3	7.5		1.0		10.1							
Intersection Summary			10.0										
HCM 6th Ctrl Delay			10.2										
HCM 6th LOS			В										
Notes													

Intersection	
Intersection Delay, s/veh	12.6
Intersection LOS	В

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		₽₽₽	7		41	7		र्स	7		र्स	7
Traffic Vol, veh/h	17	351	27	35	341	32	27	55	21	23	47	10
Future Vol, veh/h	17	351	27	35	341	32	27	55	21	23	47	10
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	18	382	29	38	371	35	29	60	23	25	51	11
Number of Lanes	0	2	1	0	2	1	0	1	1	0	1	1
Approach	EB			WB			NB			SB		
Opposing Approach	WB			EB			SB			NB		
Opposing Lanes	3			3			2			2		
Conflicting Approach Left	SB			NB			EB			WB		
Conflicting Lanes Left	2			2			3			3		
Conflicting Approach Right	NB			SB			WB			EB		
Conflicting Lanes Right	2			2			3			3		
HCM Control Delay	13			12.8			11.4			11.4		
HCM LOS	В			В			В			В		

Lane	NBLn1	NBLn2	EBLn1	EBLn2	EBLn3	WBLn1	WBLn2	WBLn3	SBLn1	SBLn2	
Vol Left, %	33%	0%	13%	0%	0%	24%	0%	0%	33%	0%	
Vol Thru, %	67%	0%	87%	100%	0%	76%	100%	0%	67%	0%	
Vol Right, %	0%	100%	0%	0%	100%	0%	0%	100%	0%	100%	
Sign Control	Stop										
Traffic Vol by Lane	82	21	134	234	27	149	227	32	70	10	
LT Vol	27	0	17	0	0	35	0	0	23	0	
Through Vol	55	0	117	234	0	114	227	0	47	0	
RT Vol	0	21	0	0	27	0	0	32	0	10	
Lane Flow Rate	89	23	146	254	29	162	247	35	76	11	
Geometry Grp	8	8	8	8	8	8	8	8	8	8	
Degree of Util (X)	0.184	0.041	0.26	0.45	0.046	0.29	0.436	0.054	0.158	0.02	
Departure Headway (Hd)	7.413	6.544	6.434	6.369	5.662	6.464	6.345	5.638	7.487	6.619	
Convergence, Y/N	Yes										
Cap	481	544	556	565	629	554	566	632	476	537	
Service Time	5.194	4.325	4.196	4.132	3.425	4.226	4.107	3.399	5.271	4.402	
HCM Lane V/C Ratio	0.185	0.042	0.263	0.45	0.046	0.292	0.436	0.055	0.16	0.02	
HCM Control Delay	11.9	9.6	11.5	14.3	8.7	11.9	14	8.7	11.7	9.5	
HCM Lane LOS	В	Α	В	В	А	В	В	А	В	Α	
HCM 95th-tile Q	0.7	0.1	1	2.3	0.1	1.2	2.2	0.2	0.6	0.1	

Intersection												ĺ
	22.4											
Intersection Delay, s/veh Intersection LOS	122.0 C											
Intersection LOS	C											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	<b>∱</b> ∱		- 1	ΦÞ			र्स	7		4	
Traffic Vol, veh/h	17	360	24	8	355	86	22	153	30	87	149	21
Future Vol, veh/h	17	360	24	8	355	86	22	153	30	87	149	21
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	18	391	26	9	386	93	24	166	33	95	162	23
Number of Lanes	1	2	0	1	2	0	0	1	1	0	1	0
Approach	EB			WB			NB			SB		
Opposing Approach	WB			EB			SB			NB		
Opposing Lanes	3			3			1			2		
Conflicting Approach Let				NB			EB			WB		
Conflicting Lanes Left	1			2			3			3		
Conflicting Approach Rig	ahNB			SB			WB			EB		
Conflicting Lanes Right	2			1			3			3		
	21.2			21.5			19.3			29.4		
HCM LOS	С			С			С			D		
Lane	N	JBLn11	VBLn2	EBLn1	EBLn2	EBLn3\	VBLn1\	VBLn2V	VBLn3	SBLn1		
Vol Left, %		13%	0%	100%	0%		100%	0%	0%	34%		
Vol Thru, %		87%	0%	0%	100%	83%	0%	100%	58%	58%		
Vol Right, %		0%	100%	0%	0%	17%	0%	0%	42%	8%		
Sign Control		Stop	Stop	Stop	Stop	Stop	Stop	Stop	Stop	Stop		
Traffic Vol by Lane		175	30	17	240	144	8	237	204	257		
LT Vol		22	0	17	0	0	8	0	0	87		
Through Vol		153	0	0	240	120	0	237	118	149		
RT Vol		0	30	0	0	24	0	0	86	21		
Lane Flow Rate		190	33	18	261	157	9	257	222	279		
Geometry Grp		8	8	8	8	8	8	8	8	8		
Degree of Util (X)		0.489	0.077	0.047	0.626	0.37	0.022	0.609	0.507	0.691		
Departure Headway (Hd	)	9.263	8.478	9.156	8.636	8.514	9.046	8.526	8.219	8.9		
Convergence, Y/N		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
Cap		388	422	391	417	423	395	422	438	405		
Service Time		7.034	6.248	6.922	6.401	6.279	6.811	6.29	5.984	6.662		
HCM Lane V/C Ratio		0.49	0.078	0.046	0.626	0.371	0.023	0.609	0.507	0.689		
HCM Control Delay		20.6	12	12.4	24.9	16.2	12	23.8	19.2	29.4		
HCM Lane LOS		С	В	В	С	С	В	С	С	D		
LIONA OF IL III O		2 /	0.0	0.4		17	0.4		0.0	4		

HCM 95th-tile Q

2.6

0.2

0.1

4.1

1.7

0.1

3.9

2.8

5.1

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	7	ħβ		7	<b>∱</b> ∱		7	<b>^</b>	7	7	ħβ		
Traffic Volume (veh/h)	134	352	102	267	232	72	168	795	449	72	554	50	
Future Volume (veh/h)	134	352	102	267	232	72	168	795	449	72	554	50	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach		No			No			No			No		
•	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	138	363	105	275	239	74	173	820	463	74	571	52	
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2	
Cap, veh/h	186	503	144	322	701	212	188	1395	622	110	1148	104	
Arrive On Green	0.10	0.18	0.18	0.18	0.26	0.26	0.11	0.39	0.39	0.06	0.35	0.35	
	1781	2728	779	1781	2688	813	1781	3554	1585	1781	3294	299	
Grp Volume(v), veh/h	138	235	233	275	156	157	173	820	463	74	307	316	
Grp Sat Flow(s), veh/h/ln		1777	1730	1781	1777	1724	1781	1777	1585	1781	1777	1816	
Q Serve(g_s), s	7.5	12.4	12.6	14.9	7.1	7.4	9.6	18.1	25.0	4.0	13.6	13.6	
Cycle Q Clear(g_c), s	7.5	12.4	12.6	14.9	7.1	7.4	9.6	18.1	25.0	4.0	13.6	13.6	
Prop In Lane	1.00		0.45	1.00		0.47	1.00		1.00	1.00		0.16	
Lane Grp Cap(c), veh/h		328	319	322	463	449	188	1395	622	110	619	633	
V/C Ratio(X)	0.74	0.72	0.73	0.86	0.34	0.35	0.92	0.59	0.74	0.67	0.50	0.50	
Avail Cap(c_a), veh/h	283	678	661	336	732	710	188	1395	622	134	619	633	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/veh		38.1	38.3	39.5	29.8	29.9	44.1	23.9	26.0	45.7	25.5	25.6	
Incr Delay (d2), s/veh	5.7	2.9	3.2	18.4	0.4	0.5	43.7	1.8	7.9	9.4	2.8	2.8	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%), veh		5.5	5.5	8.0	3.0	3.0	6.4	7.5	10.3	2.0	5.9	6.1	
Unsig. Movement Delay			/1 Г	F7.0	20.2	20.4	07.0	25.7	22.0	FF 1	20.4	<b>20.2</b>	
J	49.0 D	41.1	41.5	57.9	30.3 C	30.4	87.8	25.7	33.8 C	55.1	28.4 C	28.3	
LnGrp LOS	U	D (0)	D	E		С	F	<u>C</u>	<u> </u>	<u>E</u>		С	
Approach Vol, veh/h		606			588			1456			697		
Approach LOS		43.0			43.2			35.7			31.2		
Approach LOS		D			D			D			С		
Timer - Assigned Phs	1	2	3	4	5	6	7	8					
Phs Duration (G+Y+Rc)		43.6	22.5	22.9	15.0	39.2	14.9	30.4					
Change Period (Y+Rc),		4.5	4.5	4.5	4.5	4.5	4.5	4.5					
Max Green Setting (Gm.		37.7	18.8	38.0	10.5	34.7	15.8	41.0					
Max Q Clear Time (g_c+		28.0	17.9	15.6	12.6	16.6	10.5	10.4					
Green Ext Time (p_c), s	0.0	4.9	0.1	2.7	0.0	3.3	0.1	1.8					
Intersection Summary													
HCM 6th Ctrl Delay			37.4										
HCM 6th LOS			D										

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Movement WBL	WBR	NBT	NBR	SBL	SBT	
Lane Configurations 🌃		<del>የ</del>		¥	<b>^</b>	
Fraffic Volume (veh/h) 11	12	1519	2	4	1031	
Future Volume (veh/h) 11	12	1519	2	4	1031	
nitial Q (Qb), veh 0	0	0	0	0	0	
Ped-Bike Adj(A_pbT) 1.00	1.00		1.00	1.00		
Parking Bus, Adj 1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach No		No			No	
Adj Sat Flow, veh/h/ln 1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h 12	13	1599	2	4	1085	
Peak Hour Factor 0.95	0.95	0.95	0.95	0.95	0.95	
Percent Heavy Veh, % 2	2	2	2	2	2	
Cap, veh/h 32	35	3814	5	13	4123	
Arrive On Green 0.04	0.04	0.72	0.72	0.01	0.81	
Sat Flow, veh/h 776	840	5435	7	1781	5274	
Grp Volume(v), veh/h 26	0	1033	568	4	1085	
Grp Sat Flow(s), veh/h/ln1680	0	1702	1869	1781	1702	
2 Serve(g_s), s 0.9	0.0	7.1	7.1	0.1	3.1	
Cycle Q Clear(q_c), s 0.9	0.0	7.1	7.1	0.1	3.1	
Prop In Lane 0.46	0.50		0.00	1.00		
ane Grp Cap(c), veh/h 69	0	2465	1354	13	4123	
//C Ratio(X) 0.38	0.00	0.42	0.42	0.30	0.26	
Avail Cap(c_a), veh/h 933	0	2465	1354	210	4123	
ICM Platoon Ratio 1.00	1.00	1.00	1.00	1.00	1.00	
Jpstream Filter(I) 1.00	0.00	1.00	1.00	1.00	1.00	
Jniform Delay (d), s/veh27.8	0.0	3.2	3.2	29.3	1.4	
ncr Delay (d2), s/veh 3.4	0.0	0.5	1.0	11.9	0.2	
nitial Q Delay(d3),s/veh 0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%), veh/ln0.4	0.0	1.1	1.3	0.1	0.1	
Insig. Movement Delay, s/vel						
nGrp Delay(d),s/veh 31.1	0.0	3.8	4.2	41.2	1.6	
nGrp LOS C	Α	Α	Α	D	Α	
approach Vol, veh/h 26		1601			1089	
pproach Delay, s/veh 31.1		3.9			1.7	
pproach LOS C		Α			Α	
imer - Assigned Phs 1	2				6	8
Phs Duration (G+Y+Rc), s4.9	47.6				52.5	6.9
Change Period (Y+Rc), s 4.5	4.5				4.5	4.5
Max Green Setting (Gmax), 0s	36.5				48.0	33.0
Max Q Clear Time (g_c+113),1s					6.1	3.9
Green Ext Time (p_c), s 0.0	12.4				9.1	0.0
ntersection Summary						
ICM 6th Ctrl Delay		3.3				
HCM 6th LOS		A				
Votes						

Intersection						
Intersection						
Int Delay, s/veh	0					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations		7		<b>^</b>	<b>↑</b> ↑	
Traffic Vol, veh/h	0	0	0	7	4	0
Future Vol, veh/h	0	0	0	7	4	0
Conflicting Peds, #/hr	0	0	0	0	0	0
	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage,	# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	0	0	8	4	0
WWW. LOW	U	U	U	U	7	U
	linor2		/lajor1		Major2	
Conflicting Flow All	-	2	-	0	-	0
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	7.14	-	-	-	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	_	-	-	-	-	-
Follow-up Hdwy		3.92		_	_	_
Pot Cap-1 Maneuver	0	916	0	_	_	_
Stage 1	0	-	0	_	_	_
Stage 2	0	_	0	_	_	_
Platoon blocked, %	U		U	_	_	
Mov Cap-1 Maneuver		916	_	-	-	-
	-					
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Approach	EB		NB		SB	
HCM Control Delay, s	0		0		0	
HCM LOS	A				- 0	
110M E00	, ·					
Minor Lane/Major Mvmt		NBT E	BLn1	SBT	SBR	
Capacity (veh/h)		-	-	-	-	
HCM Lane V/C Ratio		-	-	-	-	
HCM Control Delay (s)		-	0	-	-	
HCM Lane LOS						
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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	₽		ሻ	1>		ሻ	<del>ተ</del> ቀጭ		ሻ	<b>↑</b> ↑₽	
Traffic Volume (veh/h)	101	6	43	53	13	119	84	1337	55	132	775	93
Future Volume (veh/h)	101	6	43	53	13	119	84	1337	55	132	775	93
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	105	6	45	55	14	124	88	1393	57	138	807	97
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	367	44	330	447	38	335	454	2812	115	311	2584	309
Arrive On Green	0.23	0.23	0.23	0.23	0.23	0.23	0.56	0.56	0.56	0.56	0.56	0.56
Sat Flow, veh/h	1251	190	1424	1354	163	1447	617	5031	206	367	4623	552
Grp Volume(v), veh/h	105	0	51	55	0	138	88	942	508	138	593	311
Grp Sat Flow(s), veh/h/ln	1251	0	1614	1354	0	1610	617	1702	1833	367	1702	1771
Q Serve(g_s), s	3.3	0.0	1.1	1.4	0.0	3.1	3.8	7.3	7.3	15.8	4.0	4.0
Cycle Q Clear(g_c), s	6.4	0.0	1.1	2.5	0.0	3.1	7.9	7.3	7.3	23.0	4.0	4.0
Prop In Lane	1.00		0.88	1.00		0.90	1.00		0.11	1.00		0.31
Lane Grp Cap(c), veh/h	367	0	374	447	0	373	454	1903	1025	311	1903	990
V/C Ratio(X)	0.29	0.00	0.14	0.12	0.00	0.37	0.19	0.50	0.50	0.44	0.31	0.31
Avail Cap(c_a), veh/h	2612	0	3270	2876	0	3262	454	1903	1025	311	1903	990
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	16.6	0.0	13.1	14.1	0.0	13.9	7.2	5.8	5.8	12.8	5.1	5.1
Incr Delay (d2), s/veh	0.4	0.0	0.2	0.1	0.0	0.6	0.9	0.9	1.7	4.5	0.4	0.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.9	0.0	0.3	0.4	0.0	1.0	0.4	1.5	1.8	1.3	8.0	0.9
Unsig. Movement Delay, s/ve												
LnGrp Delay(d),s/veh	17.0	0.0	13.3	14.2	0.0	14.5	8.1	6.7	7.5	17.3	5.5	5.9
LnGrp LOS	В	Α	В	В	A	В	A	Α	A	В	A	A
Approach Vol, veh/h		156			193			1538			1042	
Approach Delay, s/veh		15.8			14.4			7.0			7.2	
Approach LOS		В			В			Α			Α	
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		28.5		14.4		28.5		14.4				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		24.0		87.0		24.0		87.0				
Max Q Clear Time (g_c+l1), s		10.9		9.4		26.0		6.1				
Green Ext Time (p_c), s		8.0		0.7		0.0		1.1				
Intersection Summary												
HCM 6th Ctrl Delay			8.0									
HCM 6th LOS			Α									
Notes												

User approved pedestrian interval to be less than phase max green.

Intersection						
Int Delay, s/veh	0					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	W		₽			4
Traffic Vol, veh/h	0	0	0	0	0	0
Future Vol, veh/h	0	0	0	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage	e,# 0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	0	0	0	0	0
WWW. LOW						- 0
	Minor1		/lajor1		/lajor2	
Conflicting Flow All	1	0	0	0	0	0
Stage 1	0	-	-	-	-	-
Stage 2	1	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	_	-	-	-
Critical Hdwy Stg 2	5.42		-	_	-	-
Follow-up Hdwy	3.518	3.318	_	_	2.218	_
Pot Cap-1 Maneuver	1022	-	-	_		_
Stage 1	1022	_	_	_	_	_
Stage 2	1022		_	-		
Platoon blocked, %	1022	•	-	-	-	-
	1000		-	-		
Mov Cap-1 Maneuver	1022	-	-	-	-	-
Mov Cap-2 Maneuver	1022	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	1022	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s	0		0		0	
HCM LOS	A		U		U	
TIOWI LOS	٨					
Minor Lane/Major Mvn	nt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		-	-		-	
HCM Lane V/C Ratio		-	_	-	-	-
HCM Control Delay (s)	)	-	_	0	0	_
HCM Lane LOS		_	_	A	A	_
HCM 95th %tile Q(veh	1)	_	_	-	-	_
1101VI 73111 701116 Q(VEI	1)				_	-

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	<b>^</b>	7	ሻ	<b>^</b>	7	7	<b>₽</b>			र्स	7
Traffic Volume (veh/h)	51	745	5	6	624	133	3	1	12	157	1	27
Future Volume (veh/h)	51	745	5	6	624	133	3	1	12	157	1	27
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	1070	No	4070	4070	No	4070	4070	No	4070	4070	No	4070
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	53	768	5	6	643	137	3	1	12	162	1	28
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	2	1150	2	2	2	2 516	2	2	2	2	2	2
Cap, veh/h Arrive On Green	217	1158	516 0.33	192	1158		777	69	824	865	5	882
	0.33	0.33		0.33	0.33	0.33	0.56	0.56	0.56	0.56	0.56 9	0.56
Sat Flow, veh/h	693	3554	1585	697	3554	1585	1381	123	1480	1385		1585
Grp Volume(v), veh/h	53	768	5 1505	6	643	137	3	0	13	163	0	28
Grp Sat Flow(s), veh/h/ln	693	1777	1585	697	1777	1585	1381	0	1604	1395	0	1585
Q Serve(g_s), s	5.2 16.6	14.2 14.2	0.2	0.6	11.4 11.4	4.9 4.9	0.1 4.8	0.0	0.3	4.5 4.7	0.0	0.6
Cycle Q Clear(g_c), s Prop In Lane	1.00	14.2	1.00	14.8 1.00	11.4	1.00	1.00	0.0	0.92	0.99	0.0	1.00
Lane Grp Cap(c), veh/h	217	1158	516	1.00	1158	516	777	0	892	870	0	882
V/C Ratio(X)	0.24	0.66	0.01	0.03	0.56	0.27	0.00	0.00	0.01	0.19	0.00	0.03
Avail Cap(c_a), veh/h	340	1791	799	316	1791	799	777	0.00	892	870	0.00	882
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	28.0	22.1	17.4	28.5	21.2	19.0	9.8	0.0	7.6	8.6	0.0	7.6
Incr Delay (d2), s/veh	0.6	0.7	0.0	0.1	0.4	0.3	0.0	0.0	0.0	0.5	0.0	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.8	5.5	0.1	0.1	4.4	1.7	0.0	0.0	0.1	1.2	0.0	0.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	28.6	22.8	17.4	28.6	21.6	19.3	9.8	0.0	7.6	9.1	0.0	7.7
LnGrp LOS	С	С	В	С	С	В	Α	Α	Α	Α	Α	Α
Approach Vol, veh/h		826			786			16			191	
Approach Delay, s/veh		23.1			21.3			8.0			8.9	
Approach LOS		С			С			Α			Α	
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		47.0		29.4		47.0		29.4				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		42.5		38.5		42.5		38.5				
Max Q Clear Time (q_c+l1), s		7.8		19.6		7.7		17.8				
Green Ext Time (p_c), s		0.0		5.3		0.9		4.6				
Intersection Summary												
HCM 6th Ctrl Delay			20.7									
HCM 6th LOS			С									

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	Ť	<del>ተ</del> ተጉ		ሻ	<b>^</b>	7	ሻ	î,			4		
Traffic Volume (veh/h)	43	861	0	22	742	10	1	0	0	7	0	18	
Future Volume (veh/h)	43	861	0	22	742	10	1	0	0	7	0	18	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No			No			No			No		
,	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	45	897	0	23	773	10	1	0	0	7	0	19	
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2	
Cap, veh/h	224	1848	0	237	1286	574	820	967	0	245	32	587	
Arrive On Green	0.36	0.36	0.00	0.36	0.36	0.36	0.52	0.00	0.00	0.52	0.00	0.52	
Sat Flow, veh/h	691	5274	0	621	3554	1585	1393	1870	0	355	63	1135	
Grp Volume(v), veh/h	45	897	0	23	773	10	1	0	0	26	0	0	
Grp Sat Flow(s), veh/h/lr		1702	0	621	1777	1585	1393	1870	0	1553	0	0	
Q Serve(g_s), s	4.2	10.1	0.0	2.2	13.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	
Cycle Q Clear(g_c), s	17.4	10.1	0.0	12.3	13.2	0.3	0.0	0.0	0.0	0.6	0.0	0.0	
Prop In Lane	1.00		0.00	1.00		1.00	1.00		0.00	0.27		0.73	
Lane Grp Cap(c), veh/h		1848	0	237	1286	574	820	967	0	864	0	0	
V/C Ratio(X)	0.20	0.49	0.00	0.10	0.60	0.02	0.00	0.00	0.00	0.03	0.00	0.00	
Avail Cap(c_a), veh/h	368	2915	0	367	2029	905	820	967	0	864	0	0	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00	
Uniform Delay (d), s/veh		18.4	0.0	23.2	19.4	15.3	8.7	0.0	0.0	8.8	0.0	0.0	
Incr Delay (d2), s/veh	0.4	0.2	0.0	0.2	0.5	0.0	0.0	0.0	0.0	0.1	0.0	0.0	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%), veh		3.6	0.0	0.3	4.9	0.1	0.0	0.0	0.0	0.2	0.0	0.0	
Unsig. Movement Delay			0.0	23.3	19.8	15.3	8.7	0.0	0.0	8.9	0.0	0.0	
LnGrp Delay(d),s/veh	26.9 C	18.6 B	0.0 A	23.3 C	19.8 B	15.3 B				6.9 A			
LnGrp LOS		942	A			D	A	<u>A</u> 1	A	A	A	A	
Approach Polav s/voh		19.0			806 19.9			8.7			26 8.9		
Approach Delay, s/veh Approach LOS		19.0 B			19.9 R			δ. /			6.9 A		
Approach LOS		D			D			А			А		
Timer - Assigned Phs		2		4		6		8					
Phs Duration (G+Y+Rc)		43.0		31.4		43.0		31.4					
Change Period (Y+Rc),		4.5		4.5		4.5		4.5					
Max Green Setting (Gm	, .	38.5		42.5		38.5		42.5					
Max Q Clear Time (g_c-				20.4		3.6		16.2					
Green Ext Time (p_c), s		0.0		6.5		0.1		5.7					
Intersection Summary													
HCM 6th Ctrl Delay			19.2										
HCM 6th LOS			В										

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Movement EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
_ane Configurations	<b>^</b>	7	7	<b>^</b>	7	ሻሻ	<del>ተ</del> ተጉ		ሻ	<del>ተ</del> ተኈ		
Fraffic Volume (veh/h) 90	374	430	155	315	122	409	1233	182	106	753	60	
-uture Volume (veh/h) 90	374	430	155	315	122	409	1233	182	106	753	60	
nitial Q (Qb), veh 0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT) 1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Parking Bus, Adj 1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Nork Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln 1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h 94	390	448	161	328	127	426	1284	190	110	784	62	
Peak Hour Factor 0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	
Percent Heavy Veh, % 2	2	2	2	2	2	2	2	2	2	2	2	
Cap, veh/h 397	1370	611	297	1370	611	692	2230	330	200	2397	189	
Arrive On Green 0.39	0.39	0.39	0.39	0.39	0.39	0.50	0.50	0.50	0.50	0.50	0.50	
Sat Flow, veh/h 936	3554	1585	656	3554	1585	1263	4490	664	359	4826	380	
Grp Volume(v), veh/h 94	390	448	161	328	127	426	973	501	110	552	294	
Grp Sat Flow(s), veh/h/ln 936	1777	1585	656	1777	1585	632	1702	1751	359	1702	1802	
2 Serve(g_s), s 5.8	5.8	18.5	17.2	4.8	4.1	23.4	15.4	15.4	22.6	7.5	7.5	
Cycle Q Clear(g_c), s 10.6	5.8	18.5	23.0	4.8	4.1	30.9	15.4	15.4	38.0	7.5	7.5	
Prop In Lane 1.00		1.00	1.00		1.00	1.00		0.38	1.00		0.21	
ane Grp Cap(c), veh/h 397	1370	611	297	1370	611	692	1691	870	200	1691	895	
V/C Ratio(X) 0.24	0.28	0.73	0.54	0.24	0.21	0.62	0.58	0.58	0.55	0.33	0.33	
Avail Cap(c_a), veh/h 562	1997	891	413	1997	891	692	1691	870	200	1691	895	
HCM Platoon Ratio 1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Jpstream Filter(I) 1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Jniform Delay (d), s/veh19.5	16.2	20.1	24.1	15.9	15.7	20.9	13.6	13.6	27.4	11.6	11.6	
ncr Delay (d2), s/veh 0.3	0.1	1.8	1.5	0.1	0.2	4.1	1.4	2.8	10.5	0.5	1.0	
nitial Q Delay(d3),s/veh 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%), veh/lf1.2	2.2	6.4	2.5	1.8	1.4	3.4	5.4	5.8	2.4	2.5	2.8	
Jnsig. Movement Delay, s/ve												
_nGrp Delay(d),s/veh 19.8	16.3	21.9	25.7	16.0	15.9	25.0	15.0	16.3	37.8	12.1	12.6	
_nGrp LOS B	В	С	С	В	В	С	В	В	D	В	В	
Approach Vol, veh/h	932			616			1900		_	956	_	
Approach Delay, s/veh	19.3			18.5			17.6			15.2		
Approach LOS	В			В			В			В		
Timer - Assigned Phs	2		4		6		8					
Phs Duration (G+Y+Rc), s	42.5		34.0		42.5		34.0					
Change Period (Y+Rc), s	4.5		4.5		4.5		4.5					
Max Green Setting (Gmax), s	38.0		43.0		38.0		43.0					
Max Q Clear Time (g_c+l1), s			21.5		41.0		26.0					
Green Ext Time (p_c), s	3.5		4.6		0.0		3.5					
ntersection Summary												
HCM 6th Ctrl Delay		17.6										
HCM 6th LOS		В										

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Movement E	BL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations				ኝ	4	7	ሻሻ	ተተተ			1111	7	
Traffic Volume (veh/h)	0	0	0	347	4	430	291	1335	0	0	889	403	
Future Volume (veh/h)	0	0	0	347	4	430	291	1335	0	0	889	403	
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)				1.00	-	1.00	1.00	_	1.00	1.00	_	1.00	
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach					No			No			No		
Adj Sat Flow, veh/h/ln				1870	1870	1870	1870	1870	0	0	1870	1870	
Adj Flow Rate, veh/h				521	0	289	306	1405	0	0	936	424	
Peak Hour Factor				0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	
Percent Heavy Veh, %				2	2	2	2	2	0	0	2	2	
Cap, veh/h				841	0	374	638	3339	0	0	4207	1036	
Arrive On Green				0.24	0.00	0.24	0.65	0.65	0.00	0.00	0.65	0.65	
Sat Flow, veh/h				3563	0	1585	776	5274	0	0	6696	1585	
Grp Volume(v), veh/h				521	0	289	306	1405	0	0	936	424	
Grp Sat Flow(s), veh/h/ln				1781	0	1585	388	1702	0	0	1609	1585	
Q Serve(g_s), s				10.7	0.0	13.9	21.6	10.7	0.0	0.0	4.8	10.3	
Cycle Q Clear(g_c), s				10.7	0.0	13.9	26.4	10.7	0.0	0.0	4.8	10.3	
Prop In Lane				1.00		1.00	1.00		0.00	0.00		1.00	
Lane Grp Cap(c), veh/h				841	0	374	638	3339	0	0	4207	1036	
V/C Ratio(X)				0.62	0.00	0.77	0.48	0.42	0.00	0.00	0.22	0.41	
Avail Cap(c_a), veh/h				1197	0	533	638	3339	0	0	4207	1036	
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)				1.00	0.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00	
Uniform Delay (d), s/veh				28.0	0.0	29.2	11.1	6.8	0.0	0.0	5.7	6.7	
Incr Delay (d2), s/veh				0.7	0.0	4.4	2.6	0.4	0.0	0.0	0.1	1.2	
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%), veh/lr	n			4.5	0.0	5.6	1.7	3.0	0.0	0.0	1.3	3.0	
Unsig. Movement Delay, s													
LnGrp Delay(d),s/veh				28.7	0.0	33.6	13.6	7.2	0.0	0.0	5.9	7.9	
LnGrp LOS				С	Α	С	В	Α	Α	Α	Α	Α	
Approach Vol, veh/h					810			1711			1360		
Approach Delay, s/veh					30.5			8.3			6.5		
Approach LOS					С			Α			Α		
Timer - Assigned Phs		2				6		8					
Phs Duration (G+Y+Rc), s	:	58.0				58.0		23.8					
Change Period (Y+Rc), s	,	4.5				4.5		4.5					
Max Green Setting (Gmax	() s	53.5				53.5		27.5					
Max Q Clear Time (g_c+l1		29.4				13.3		16.9					
Green Ext Time (p_c), s	.,, 3	16.3				9.7		2.4					
<b>4</b> – 7:		10.0				7.1		۷.٦					
Intersection Summary			12.2										
HCM 6th Ctrl Delay			12.3										
HCM 6th LOS			В										
Notes													

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	4	7					<del>ተ</del> ተጉ		ሻሻ	<b>^</b>	
	534	0	312	0	0	0	0	1096	449	354	882	0
, ,	534	0	312	0	0	0	0	1096	449	354	882	0
Initial Q (Qb), veh	0	0	0		<u> </u>		0	0	0	0	0	0
	1.00	U	1.00				1.00	J	1.00	1.00	U	1.00
	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	1.00				1.00	No	1.00	1.00	No	1.00
	1870	1870	1870				0	1870	1870	1870	1870	0
	664	0	219				0	1154	473	373	928	0
	0.95	0.95	0.95				0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2				0.70	2	2	2	2	0.70
	713	0	317				0	2490	1019	494	2488	0
	0.20	0.00	0.20				0.00	0.70	0.70	0.70	0.70	0.00
	3563	0.00	1585				0.00	3725	1455	601	3647	0.00
	664	0	219				0	1104	523	373	928	0
Grp Sat Flow(s), veh/h/ln1		0	1585				0	1702	1608	300	1777	0
	16.5	0.0	11.5				0.0	13.0	13.0	50.0	9.5	0.0
	16.5	0.0	11.5				0.0	13.0	13.0	63.0	9.5	0.0
, , ,	1.00	0.0	1.00				0.00	13.0	0.90	1.00	9.0	0.00
Prop In Lane Lane Grp Cap(c), veh/h		0	317				0.00	2383	1126	494	2488	0.00
			0.69				0.00	0.46	0.46	0.76	0.37	0.00
` '	0.93	0.00								494		
	713	0	317				1.00	2383	1126		2488	0
	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
1 1/	1.00	0.00	1.00				0.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh		0.0	33.4				0.0	6.0	6.0	22.6	5.5	0.0
<b>3</b> \ /·	19.0	0.0	6.3				0.0	0.7	1.4	10.3	0.4	0.0
Initial Q Delay(d3),s/veh		0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%), veh/		0.0	4.9				0.0	3.6	3.6	4.5	2.8	0.0
Unsig. Movement Delay,			20.7				0.0	/ /	7 /	22.0	ГО	0.0
	54.4	0.0	39.7				0.0	6.6	7.4	32.9	5.9	0.0
LnGrp LOS	D	A	D				A	A 1/27	<u>A</u>	С	A 1201	<u>A</u>
Approach Vol, veh/h		883						1627			1301	
Approach Delay, s/veh		50.8						6.9			13.7	
Approach LOS		D						Α			В	
Timer - Assigned Phs		2		4		6						
Phs Duration (G+Y+Rc),	S	67.5		22.5		67.5						
Change Period (Y+Rc), s		4.5		4.5		4.5						
Max Green Setting (Gma		63.0		18.0		63.0						
Max Q Clear Time (q_c+		16.0		19.5		66.0						
Green Ext Time (p_c), s	,, 5	16.6		0.0		0.0						
Intersection Summary		13.0		3.0		J.0						
HCM 6th Ctrl Delay			19.4									
HCM 6th LOS												
			В									
Notes												

Intersection	
Intersection Delay, s/veh	13.6
Intersection LOS	В

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4₽	7		4₽	7		र्स	7		र्स	7
Traffic Vol, veh/h	29	263	130	46	208	79	84	38	33	117	55	63
Future Vol, veh/h	29	263	130	46	208	79	84	38	33	117	55	63
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	32	286	141	50	226	86	91	41	36	127	60	68
Number of Lanes	0	2	1	0	2	1	0	1	1	0	1	1
Approach	EB			WB			NB			SB		
Opposing Approach	WB			EB			SB			NB		
Opposing Lanes	3			3			2			2		
Conflicting Approach Left	SB			NB			EB			WB		
Conflicting Lanes Left	2			2			3			3		
Conflicting Approach Right	NB			SB			WB			EB		
Conflicting Lanes Right	2			2			3			3		
HCM Control Delay	13.3			12.9			13.9			15		
HCM LOS	В			В			В			В		

Lane	NBLn1	NBLn2	EBLn1	EBLn2	EBLn3	WBLn1	WBLn2	WBLn3	SBLn1	SBLn2	
Vol Left, %	69%	0%	25%	0%	0%	40%	0%	0%	68%	0%	
Vol Thru, %	31%	0%	75%	100%	0%	60%	100%	0%	32%	0%	
Vol Right, %	0%	100%	0%	0%	100%	0%	0%	100%	0%	100%	
Sign Control	Stop										
Traffic Vol by Lane	122	33	117	175	130	115	139	79	172	63	
LT Vol	84	0	29	0	0	46	0	0	117	0	
Through Vol	38	0	88	175	0	69	139	0	55	0	
RT Vol	0	33	0	0	130	0	0	79	0	63	
Lane Flow Rate	133	36	127	191	141	125	151	86	187	68	
Geometry Grp	8	8	8	8	8	8	8	8	8	8	
Degree of Util (X)	0.307	0.072	0.263	0.388	0.26	0.269	0.315	0.163	0.418	0.133	
Departure Headway (Hd)	8.323	7.268	7.463	7.336	6.621	7.735	7.531	6.815	8.055	7.007	
Convergence, Y/N	Yes										
Cap	431	492	481	490	541	464	476	526	447	511	
Service Time	6.085	5.029	5.217	5.09	4.375	5.492	5.288	4.572	5.813	4.764	
HCM Lane V/C Ratio	0.309	0.073	0.264	0.39	0.261	0.269	0.317	0.163	0.418	0.133	
HCM Control Delay	14.8	10.6	12.9	14.7	11.7	13.3	13.7	10.9	16.5	10.8	
HCM Lane LOS	В	В	В	В	В	В	В	В	С	В	
HCM 95th-tile Q	1.3	0.2	1	1.8	1	1.1	1.3	0.6	2	0.5	

Intersection														
Intersection Delay, s/veh	h19.2													
Intersection LOS	С													
	EDI	ГОТ	EDD	WDI	MOT	MDD	NDI	NDT	NDD	CDI	CDT	CDD		
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR		
Lane Configurations		<b>∱</b> }			ተሱ			4	- 7		4			
Traffic Vol, veh/h	14	364	33	19	291	71	19	58	11	85	192	23		
Future Vol, veh/h	14	364	33	19	291	71	19	58	11	85	192	23		
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92		
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2		
Mvmt Flow	15	396	36	21	316	77	21	63	12	92	209	25		
Number of Lanes	1	2	0	1	2	0	0	1	1	0	1	0		
Approach	EB			WB			NB			SB				
Opposing Approach	WB			EB			SB			NB				
Opposing Lanes	3			3			1			2				
Conflicting Approach Le	ft SB			NB			EB			WB				
Conflicting Lanes Left	1			2			3			3				
Conflicting Approach Rig	ghNB			SB			WB			EB				
Conflicting Lanes Right	2			1			3			3				
HCM Control Delay	17.5			15.7			13.5			27.6				
HCM LOS	С			С			В			D				
HCM LOS	С			С			В			D				
HCM LOS		BLn1 ľ	NBLn2		EBLn2	EBLn3V		VBLn2V	VBLn3					
Lane				EBLn1 l			VBLn1V	<u>VBLn2V</u> 0%		SBLn1				
Lane Vol Left, %		25%	0%	EBLn1   100%	0%	0%	VBLn1V 100%	0%	0%	SBLn1 28%				
Lane Vol Left, % Vol Thru, %		25% 75%	0% 0%	EBLn1   100% 0%	0% 100%	0% <b>79</b> %	VBLn1V 100% 0%	0% 100%	0% 58%	SBLn1 28% 64%				
Lane Vol Left, % Vol Thru, % Vol Right, %		25% 75% 0%	0% 0% 100%	EBLn1   100% 0% 0%	0% 100% 0%	0% 79% 21%	VBLn1V 100% 0% 0%	0% 100% 0%	0% 58% 42%	SBLn1 28% 64% 8%				
Lane Vol Left, % Vol Thru, % Vol Right, % Sign Control		25% 75%	0% 0%	EBLn1   100% 0%	0% 100%	0% <b>79</b> %	VBLn1V 100% 0%	0% 100%	0% 58%	SBLn1 28% 64%				
Lane Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane		25% 75% 0% Stop 77	0% 0% 100% Stop 11	EBLn1   100% 0% 0% Stop 14	0% 100% 0% Stop 243	0% 79% 21% Stop 154	VBLn1V 100% 0% 0% Stop 19	0% 100% 0% Stop 194	0% 58% 42% Stop 168	SBLn1 28% 64% 8% Stop 300				
Lane Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol		25% 75% 0% Stop 77 19	0% 0% 100% Stop	EBLn1   100% 0% 0% Stop	0% 100% 0% Stop 243 0	0% 79% 21% Stop 154 0	VBLn1V 100% 0% 0% Stop	0% 100% 0% Stop 194 0	0% 58% 42% Stop	SBLn1 28% 64% 8% Stop 300 85				
Lane Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol		25% 75% 0% Stop 77	0% 0% 100% Stop 11 0	EBLn1   100% 0% 0% Stop 14 14	0% 100% 0% Stop 243 0 243	0% 79% 21% Stop 154 0 121	VBLn1V 100% 0% 0% Stop 19 19	0% 100% 0% Stop 194 0	0% 58% 42% Stop 168 0	SBLn1 28% 64% 8% Stop 300 85 192				
Lane Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol		25% 75% 0% Stop 77 19 58	0% 0% 100% Stop 11 0 0	EBLn1   100% 0% 0% Stop 14 14 0	0% 100% 0% Stop 243 0 243	0% 79% 21% Stop 154 0 121	VBLn1V 100% 0% 0% Stop 19 19 0	0% 100% 0% Stop 194 0 194	0% 58% 42% Stop 168 0 97	SBLn1 28% 64% 8% Stop 300 85 192 23				
Lane Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate		25% 75% 0% Stop 77 19 58 0	0% 0% 100% Stop 11 0 0	EBLn1   100%	0% 100% 0% Stop 243 0 243 0	0% 79% 21% Stop 154 0 121 33 168	VBLn1V 100% 0% 0% Stop 19 0 0	0% 100% 0% Stop 194 0 194 0	0% 58% 42% Stop 168 0 97 71 183	28% 64% 8% Stop 300 85 192 23				
Lane Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp	N	25% 75% 0% Stop 77 19 58 0 84	0% 0% 100% Stop 11 0 0 11 12	EBLn1   100%	0% 100% 0% Stop 243 0 243 0 264	0% 79% 21% Stop 154 0 121 33 168	VBLn1V 100% 0% Stop 19 0 0 21	0% 100% 0% Stop 194 0 194 0 211	0% 58% 42% Stop 168 0 97 71 183 8	28% 64% 8% Stop 300 85 192 23 326				
Lane Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X)	N	25% 75% 0% Stop 77 19 58 0 84 8	0% 0% 100% Stop 11 0 0 11 12 8 0.027	EBLn1   100%	0% 100% 0% Stop 243 0 243 0 264 8 0.562	0% 79% 21% Stop 154 0 121 33 168 8 0.351	VBLn1V 100% 0% Stop 19 0 0 21 8 0.048	0% 100% 0% Stop 194 0 194 0 211 8 0.455	0% 58% 42% Stop 168 0 97 71 183 8 0.379	28% 64% 8% Stop 300 85 192 23 326 8 0.709				
Lane Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd	N	25% 75% 0% Stop 77 19 58 0 84 8 0.205 8.825	0% 0% 100% Stop 11 0 0 11 12 8 0.027 7.981	EBLn1   100%	0% 100% 0% Stop 243 0 243 0 264 8 0.562 7.676	0% 79% 21% Stop 154 0 121 33 168 8 0.351 7.522	VBLn1V 100% 0% 0% Stop 19 0 0 21 8 0.048 8.283	0% 100% 0% Stop 194 0 194 0 211 8 0.455 7.768	0% 58% 42% Stop 168 0 97 71 183 8 0.379 7.463	SBLn1 28% 64% 8% Stop 300 85 192 23 326 8 0.709 7.826				
Lane  Vol Left, %  Vol Thru, %  Vol Right, %  Sign Control  Traffic Vol by Lane  LT Vol  Through Vol  RT Vol  Lane Flow Rate  Geometry Grp  Degree of Util (X)  Departure Headway (Hd  Convergence, Y/N	N	25% 75% 0% Stop 77 19 58 0 84 8 0.205 8.825 Yes	0% 0% 100% Stop 11 0 0 11 12 8 0.027 7.981 Yes	EBLn1   100%	0% 100% 0% Stop 243 0 243 0 264 8 0.562 7.676 Yes	0% 79% 21% Stop 154 0 121 33 168 8 0.351 7.522 Yes	VBLn1V 100% 0% 0% Stop 19 0 21 8 0.048 8.283 Yes	0% 100% 0% Stop 194 0 211 8 0.455 7.768 Yes	0% 58% 42% Stop 168 0 97 71 183 8 0.379 7.463 Yes	SBLn1  28% 64% 8% Stop 300 85 192 23 326 8 0.709 7.826 Yes				
Lane Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd Convergence, Y/N Cap	N (1)	25% 75% 0% Stop 77 19 58 0 84 8 0.205 8.825 Yes 405	0% 0% 100% Stop 11 0 0 11 12 8 0.027 7.981 Yes 446	EBLn1   100%	0% 100% 0% Stop 243 0 243 0 264 8 0.562 7.676 Yes 470	0% 79% 21% Stop 154 0 121 33 168 8 0.351 7.522 Yes 476	VBLn1V 100% 0% Stop 19 0 21 8 0.048 8.283 Yes 431	0% 100% 0% Stop 194 0 194 0 211 8 0.455 7.768 Yes 462	0% 58% 42% Stop 168 0 97 71 183 8 0.379 7.463 Yes 480	SBLn1  28% 64% 8% Stop 300 85 192 23 326 8 0.709 7.826 Yes 460				
Lane Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd Convergence, Y/N Cap Service Time	N (i)	25% 75% 0% Stop 77 19 58 0 84 8 0.205 8.825 Yes 405 6.623	0% 0% 100% Stop 11 0 0 11 12 8 0.027 7.981 Yes 446 5.779	EBLn1   100%	0% 100% 0% Stop 243 0 243 0 264 8 0.562 7.676 Yes 470 5.453	0% 79% 21% Stop 154 0 121 33 168 8 0.351 7.522 Yes 476 5.299	VBLn1V 100% 0% Stop 19 0 0 21 8 0.048 8.283 Yes 431 6.061	0% 100% 0% Stop 194 0 194 0 211 8 0.455 7.768 Yes 462 5.545	0% 58% 42% Stop 168 0 97 71 183 8 0.379 7.463 Yes 480 5.24	28% 64% 8% Stop 300 85 192 23 326 8 0.709 7.826 Yes 460 5.598				
Lane Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd Convergence, Y/N Cap Service Time HCM Lane V/C Ratio	N (i)	25% 75% 0% Stop 77 19 58 0 84 8 0.205 8.825 Yes 405 6.623 0.207	0% 0% 100% Stop 11 0 0 11 12 8 0.027 7.981 Yes 446 5.779 0.027	100% 0% 0% Stop 14 14 0 0 15 8 0.035 8.191 Yes 436 5.969 0.034	0% 100% 0% Stop 243 0 243 0 264 8 0.562 7.676 Yes 470 5.453 0.562	0% 79% 21% Stop 154 0 121 33 168 8 0.351 7.522 Yes 476 5.299 0.353	VBLn1V 100% 0% Stop 19 0 0 21 8 0.048 8.283 Yes 431 6.061 0.049	0% 100% 0% Stop 194 0 194 0 211 8 0.455 7.768 Yes 462 5.545 0.457	0% 58% 42% Stop 168 0 97 71 183 8 0.379 7.463 Yes 480 5.24 0.381	28% 64% 8% Stop 300 85 192 23 326 8 0.709 7.826 Yes 460 5.598 0.709				
Lane Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd Convergence, Y/N Cap Service Time	N (i)	25% 75% 0% Stop 77 19 58 0 84 8 0.205 8.825 Yes 405 6.623	0% 0% 100% Stop 11 0 0 11 12 8 0.027 7.981 Yes 446 5.779	EBLn1   100%	0% 100% 0% Stop 243 0 243 0 264 8 0.562 7.676 Yes 470 5.453	0% 79% 21% Stop 154 0 121 33 168 8 0.351 7.522 Yes 476 5.299	VBLn1V 100% 0% Stop 19 0 0 21 8 0.048 8.283 Yes 431 6.061	0% 100% 0% Stop 194 0 194 0 211 8 0.455 7.768 Yes 462 5.545	0% 58% 42% Stop 168 0 97 71 183 8 0.379 7.463 Yes 480 5.24	28% 64% 8% Stop 300 85 192 23 326 8 0.709 7.826 Yes 460 5.598				

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HCM 95th-tile Q

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		ħβ		7	<b>∱</b> ∱			<b>^</b>	7	7	<b>∱</b> ∱		
Traffic Volume (veh/h)	79	211	136	324	238	74	68	402	145	90	719	86	
Future Volume (veh/h)	79	211	136	324	238	74	68	402	145	90	719	86	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach		No			No			No			No		
•	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	83	222	143	341	251	78	72	423	153	95	757	91	
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2	
Cap, veh/h	124	338	209	396	840	255	115	1219	544	138	1138	137	
Arrive On Green	0.07	0.16	0.16	0.22	0.31	0.31	0.06	0.34	0.34	0.08	0.36	0.36	
	1781	2110	1303	1781	2685	815	1781	3554	1585	1781	3194	384	
Grp Volume(v), veh/h	83	185	180	341	164	165	72	423	153	95	421	427	
Grp Sat Flow(s), veh/h/ln		1777	1636	1781	1777	1724	1781	1777	1585	1781	1777	1801	
Q Serve(g_s), s	4.2	8.9	9.4	16.8	6.4	6.6	3.6	8.1	6.4	4.7	18.2	18.3	
Cycle Q Clear(g_c), s	4.2	8.9	9.4	16.8	6.4	6.6	3.6	8.1	6.4	4.7	18.2	18.3	
Prop In Lane	1.00		0.80	1.00		0.47	1.00		1.00	1.00		0.21	
Lane Grp Cap(c), veh/h		284	262	396	556	539	115	1219	544	138	633	642	
	0.67	0.65	0.69	0.86	0.30	0.31	0.63	0.35	0.28	0.69	0.67	0.67	
Avail Cap(c_a), veh/h	238	740	681	478	979	950	137	1219	544	166	633	642	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/veh		35.9	36.2	34.1	23.7	23.8	41.6	22.3	21.8	41.0	24.8	24.8	
Incr Delay (d2), s/veh	6.2	2.5	3.2	12.9	0.3	0.3	6.6	8.0	1.3	9.0	5.5	5.4	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%), veh		4.0	3.9	8.4	2.6	2.7	1.7	3.3	2.5	2.4	8.1	8.2	
Unsig. Movement Delay			20.2	17 1	240	2/1	40 C	22.1	22.1	ΓΛ Λ	20.2	20.2	
1 3.7	47.6 D	38.5	39.3	47.1	24.0	24.1	48.2	23.1 C	23.1	50.0	30.2 C	30.2	
LnGrp LOS	U	D 140	D	D	C (70	С	D		С	D		С	
Approach Vol, veh/h		448			670			648			943		
Approach LOS		40.5			35.8			25.9			32.2		
Approach LOS		D			D			С			С		
Timer - Assigned Phs	1	2	3	4	5	6	7	8					
Phs Duration (G+Y+Rc)		35.8	24.8	19.1	10.4	37.0	10.8	33.0					
Change Period (Y+Rc),		4.5	4.5	4.5	4.5	4.5	4.5	4.5					
Max Green Setting (Gm		31.0	24.5	38.0	7.0	32.5	12.2	50.3					
Max Q Clear Time (g_c-		11.1	19.8	12.4	6.6	21.3	7.2	9.6					
Green Ext Time (p_c), s	0.0	3.0	0.5	2.2	0.0	3.8	0.1	2.0					
Intersection Summary													
HCM 6th Ctrl Delay			33.0										
HCM 6th LOS			С										

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Movement	WBL	WBR	NBT	NBR	SBL	SBT	
Lane Configurations	¥		<del>ተ</del> ተጉ		ሻ	ተተተ	
Traffic Volume (veh/h)	3	4	629	8	15	1165	
Future Volume (veh/h)	3	4	629	8	15	1165	
Initial Q (Qb), veh	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00		
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac	h No		No			No	
	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	3	4	684	9	16	1266	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	
Percent Heavy Veh, %	2	2	2	2	2	2	
Cap, veh/h	9	12	3763	49	49	4237	
Arrive On Green	0.01	0.01	0.72	0.72	0.03	0.83	
Sat Flow, veh/h	633	843	5362	68	1781	5274	
Grp Volume(v), veh/h	8	0	448	245	16	1266	
Grp Sat Flow(s), veh/h/lr		0	1702	1858	1781	1702	
Q Serve(g_s), s	0.3	0.0	2.4	2.4	0.5	3.2	
Cycle Q Clear(g_c), s	0.3	0.0	2.4	2.4	0.5	3.2	
Prop In Lane	0.37	0.50	04/7	0.04	1.00	1007	
Lane Grp Cap(c), veh/h		0	2467	1346	49	4237	
V/C Ratio(X)	0.32	0.00	0.18	0.18	0.33	0.30	
Avail Cap(c_a), veh/h	962	0	2467	1346	293	4237	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/vel	h28.2	0.0	2.5	2.5	27.6	1.1	
Incr Delay (d2), s/veh	7.4	0.0	0.2	0.3	3.8	0.2	
Initial Q Delay(d3),s/veh	า 0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%), vel		0.0	0.3	0.4	0.3	0.1	
Unsig. Movement Delay		า					
LnGrp Delay(d),s/veh	35.6	0.0	2.7	2.8	31.4	1.3	
LnGrp LOS	D	А	Α	A	С	Α	
Approach Vol, veh/h	8		693	- 1		1282	
Approach Delay, s/veh			2.7			1.7	
Approach LOS	55.0 D		2.7 A			Α	
Apploachicos	U		А			A	
Timer - Assigned Phs	1	2				6	
Phs Duration (G+Y+Rc)	), s6.1	46.4				52.5	
Change Period (Y+Rc),	s 4.5	4.5				4.5	
Max Green Setting (Gm	nax <b>9</b> ,5s	34.0				48.0	
Max Q Clear Time (g_c		5.4				6.2	
Green Ext Time (p_c), s		4.4				11.3	
Intersection Summary							
HCM 6th Ctrl Delay			2.2				
11011/11/00			Α				
HCM 6th LOS			/ \				

Intersection						
Intersection	2.1					
Int Delay, s/veh	2.1					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations		7		ተተተ	<del>ተ</del> ተጉ	
Traffic Vol, veh/h	0	31	0	44	26	36
Future Vol, veh/h	0	31	0	44	26	36
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	_	-	-	-
Veh in Median Storage	. # 0	_	_	0	0	_
Grade, %	0	_	_	0	0	_
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	0	34	0	48	28	39
IVIVIIIL I IOW	U	34	U	40	20	37
Major/Minor N	Minor2	N	/lajor1		Major2	
Conflicting Flow All	-	34	-	0	-	0
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	_	7.14	_	_	_	_
Critical Hdwy Stg 1	_	-	_	_	_	_
Critical Hdwy Stg 2	_	_	_	_	_	_
Follow-up Hdwy	_	3.92	_		_	_
Pot Cap-1 Maneuver	0	874	0	_	_	_
Stage 1	0	- 074	0		_	
Stage 2	0	-	0		-	
	U	-	U			
Platoon blocked, %		074		-	-	-
Mov Cap-1 Maneuver	-	874	-	-	-	-
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Approach	EB		NB		SB	
HCM Control Delay, s	9.3		0		0	
HCM LOS	9.3 A		U		U	
TICIVI LUS	А					
Minor Lane/Major Mvm	ıt	NBT E	BL <sub>n1</sub>	SBT	SBR	
Capacity (veh/h)		-		-	_	
HCM Lane V/C Ratio			0.039	_		
HCM Control Delay (s)		-	9.3	-	-	
HCM Lane LOS		_	Α	_	_	
HCM 95th %tile Q(veh)	)	_	0.1	_	_	
HOW 75th 70the Q(Veh)	,	_	0.1			

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	1>		ሻ	₽		ሻ	<del>ተ</del> ቀጭ		ሻ	<b>↑</b> ↑₽	
Traffic Volume (veh/h)	42	3	62	26	2	32	139	621	30	112	980	92
Future Volume (veh/h)	42	3	62	26	2	32	139	621	30	112	980	92
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	46	3	67	28	2	35	151	675	33	122	1065	100
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	347	10	225	317	13	223	429	3175	155	602	3022	283
Arrive On Green	0.15	0.15	0.15	0.15	0.15	0.15	0.64	0.64	0.64	0.64	0.64	0.64
Sat Flow, veh/h	1371	68	1527	1331	86	1512	482	4988	243	741	4749	445
Grp Volume(v), veh/h	46	0	70	28	0	37	151	460	248	122	763	402
Grp Sat Flow(s), veh/h/ln	1371	0	1595	1331	0	1598	482	1702	1827	741	1702	1790
Q Serve(g_s), s	1.3	0.0	1.6	0.8	0.0	0.8	8.9	2.4	2.4	3.5	4.4	4.4
Cycle Q Clear(g_c), s	2.1	0.0	1.6	2.4	0.0	0.8	13.3	2.4	2.4	5.8	4.4	4.4
Prop In Lane	1.00		0.96	1.00		0.95	1.00		0.13	1.00		0.25
Lane Grp Cap(c), veh/h	347	0	235	317	0	236	429	2167	1163	602	2167	1139
V/C Ratio(X)	0.13	0.00	0.30	0.09	0.00	0.16	0.35	0.21	0.21	0.20	0.35	0.35
Avail Cap(c_a), veh/h	3257	0	3621	3141	0	3627	429	2167	1163	602	2167	1139
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	16.4	0.0	15.8	16.9	0.0	15.5	6.7	3.2	3.2	4.4	3.5	3.5
Incr Delay (d2), s/veh	0.2	0.0	0.7	0.1	0.0	0.3	2.3	0.2	0.4	0.8	0.5	0.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.4	0.0	0.6	0.2	0.0	0.3	0.7	0.3	0.4	0.4	0.6	0.7
Unsig. Movement Delay, s/vel	h											
LnGrp Delay(d),s/veh	16.6	0.0	16.5	17.0	0.0	15.8	8.9	3.4	3.6	5.2	4.0	4.4
LnGrp LOS	В	Α	В	В	Α	В	Α	Α	Α	Α	Α	Α
Approach Vol, veh/h		116			65			859			1287	
Approach Delay, s/veh		16.5			16.3			4.4			4.2	
Approach LOS		В			В			Α			A	
		2		4		6		8			,,	
Timer - Assigned Phs												
Phs Duration (G+Y+Rc), s		31.0		10.6		31.0		10.6				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		26.5		94.5		26.5		94.5				
Max Q Clear Time (g_c+l1), s		16.3		5.1		8.8		5.4				
Green Ext Time (p_c), s		4.3		0.6		7.9		0.3				
Intersection Summary			F 0									
HCM 6th Ctrl Delay			5.3									
HCM 6th LOS			Α									
Notes												

User approved pedestrian interval to be less than phase max green.

Intersection						
	4.9					
Int Delay, s/veh						
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	***		₽			4
Traffic Vol, veh/h	6	5	0	13	10	0
Future Vol, veh/h	6	5	0	13	10	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storag		-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	7	5	0	14	11	0
WWITH TOW	,	3	U	IТ		U
Major/Minor	Minor1	N	/lajor1		Major2	
Conflicting Flow All	29	7	0	0	14	0
Stage 1	7	-	-	-	-	-
Stage 2	22	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	_
Critical Hdwy Stg 1	5.42	-	_	_	-	_
Critical Hdwy Stg 2	5.42	_	_	_	_	_
Follow-up Hdwy	3.518	3 318	_	_	2.218	_
Pot Cap-1 Maneuver	986	1075	_	_	1604	_
Stage 1	1016	-	_	_	1004	_
Stage 1	1001		-	-	-	
Platoon blocked, %	1001	-		-	-	-
	070	1075		-	1/0/	
Mov Cap-1 Maneuver		1075	-	-	1604	-
Mov Cap-2 Maneuver		-	-	-	-	-
Stage 1	1016	-	-	-	-	-
Stage 2	994	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s			0		7.3	
HCM LOS	6.0 A		U		1.3	
HOW LUS	A					
Minor Lane/Major Mvr	nt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		_		1020	1604	-
HCM Lane V/C Ratio		_		0.012		_
HCM Control Delay (s	;)	_	-		7.3	0
HCM Lane LOS	7	_	_	Α	Α.	A
HCM 95th %tile Q(vel	n)		_	0	0	-
110W 73W 70WE Q(VE	1)	_		U	U	_

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	<b>^</b>	7	ሻ	<b>^</b>	7	ሻ	<b>₽</b>			र्स	7
Traffic Volume (veh/h)	33	596	0	6	465	57	1	0	2	179	0	56
Future Volume (veh/h)	33	596	0	6	465	57	1	0	2	179	0	56
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	1070	No	4070	4070	No	1070	4070	No	1070	4070	No	1070
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	36	648	0	7	505	62	1	0	2	195	0	61
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	213	927	414	171	927	414	844	0	982	971	0	982
Arrive On Green	0.26	0.26	0.00	0.26	0.26	0.26	0.62	0.00	0.62	0.62	0.00	0.62
Sat Flow, veh/h	844	3554	1585	783	3554	1585	1341	0	1585	1414	0	1585
Grp Volume(v), veh/h	36	648	0	7	505	62	1	0	2	195	0	61
Grp Sat Flow(s), veh/h/ln	844	1777	1585	783	1777	1585	1341	0	1585	1414	0	1585
Q Serve(g_s), s	2.9	12.4	0.0	0.6	9.2	2.3	0.0	0.0	0.0	4.6	0.0	1.1
Cycle Q Clear(g_c), s	12.1	12.4	0.0	13.0	9.2	2.3	4.6	0.0	0.0	4.6	0.0	1.1
Prop In Lane	1.00	027	1.00	1.00	027	1.00	1.00	^	1.00	1.00	0	1.00 982
Lane Grp Cap(c), veh/h V/C Ratio(X)	213 0.17	927 0.70	414 0.00	171 0.04	927 0.54	414 0.15	844 0.00	0.00	982 0.00	971 0.20	0.00	0.06
	380	1633	728	327	1633	728	844	0.00	982	971	0.00	982
Avail Cap(c_a), veh/h HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	29.1	25.1	0.00	31.0	23.9	21.3	7.3	0.00	5.5	6.3	0.00	5.7
Incr Delay (d2), s/veh	0.4	1.0	0.0	0.1	0.5	0.2	0.0	0.0	0.0	0.5	0.0	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.6	4.9	0.0	0.0	3.6	0.8	0.0	0.0	0.0	1.1	0.0	0.3
Unsig. Movement Delay, s/veh		7.7	0.0	0.1	3.0	0.0	0.0	0.0	0.0		0.0	0.5
LnGrp Delay(d),s/veh	29.5	26.1	0.0	31.1	24.4	21.5	7.3	0.0	5.5	6.8	0.0	5.8
LnGrp LOS	C	C	A	С	C	C	A	A	A	A	A	A
Approach Vol, veh/h		684			574			3			256	,,
Approach Delay, s/veh		26.2			24.2			6.1			6.6	
Approach LOS		C			C			A			A	
				4		,					,,	
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		51.0		24.1		51.0		24.1				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		46.5		34.5		46.5		34.5				
Max Q Clear Time (g_c+l1), s		7.6		15.4		7.6		16.0				
Green Ext Time (p_c), s		0.0		4.2		1.2		3.2				
Intersection Summary												
HCM 6th Ctrl Delay			22.1									
HCM 6th LOS			С									

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ሻ	<del>ተ</del> ተጉ		ሻ	<b>^</b>	7	ሻ	î,			4		
Traffic Volume (veh/h)	10	757	0	2	517	3	0	0	0	3	0	7	
Future Volume (veh/h)	10	757	0	2	517	3	0	0	0	3	0	7	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No			No			No			No		
•	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	11	823	0	2	562	3	0	0	0	3	0	8	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2	
Cap, veh/h	234	1445	0	205	1005	448	109	1087	0	279	36	656	
Arrive On Green	0.28	0.28	0.00	0.28	0.28	0.28	0.00	0.00	0.00	0.58	0.00	0.58	
Sat Flow, veh/h	846	5274	0	665	3554	1585	1407	1870	0	361	62	1129	
Grp Volume(v), veh/h	11	823	0	2	562	3	0	0	0	11	0	0	
Grp Sat Flow(s), veh/h/lr		1702	0	665	1777	1585	1407	1870	0	1552	0	0	
Q Serve(g_s), s	0.7	9.1	0.0	0.2	8.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
Cycle Q Clear(g_c), s	9.7	9.1	0.0	9.3	8.9	0.1	0.0	0.0	0.0	0.2	0.0	0.0	
Prop In Lane	1.00		0.00	1.00		1.00	1.00		0.00	0.27		0.73	
Lane Grp Cap(c), veh/h		1445	0	205	1005	448	109	1087	0	971	0	0	
V/C Ratio(X)	0.05	0.57	0.00	0.01	0.56	0.01	0.00	0.00	0.00	0.01	0.00	0.00	
Avail Cap(c_a), veh/h	537	3276	0	444	2280	1017	109	1087	0	971	0	0	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	
Uniform Delay (d), s/veh		20.3	0.0	24.3	20.2	17.1	0.0	0.0	0.0	5.8	0.0	0.0	
Incr Delay (d2), s/veh	0.1	0.4	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%), veh			0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.1	0.0	0.0	
Unsig. Movement Delay		20.7	0.0	24.3	20.7	17.1	0.0	0.0	0.0	5.9	0.0	0.0	
LnGrp Delay(d),s/veh LnGrp LOS	24.4 C	20.7 C	Ο.0	24.3 C	20.7 C	17.1 B	0.0 A		0.0 A	3.9 A	Ο.0		
		834	<u> </u>		567	D	<u> </u>	A 0	A	A		A	
Approach Vol, veh/h Approach Delay, s/veh		20.7			20.7			0.0			11 5.9		
		20.7 C			20.7			0.0			5.9 A		
Approach LOS		C			C						А		
Timer - Assigned Phs		2		4		6		8					
Phs Duration (G+Y+Rc)	, S	43.0		23.2		43.0		23.2					
Change Period (Y+Rc),		4.5		4.5		4.5		4.5					
Max Green Setting (Gm		38.5		42.5		38.5		42.5					
Max Q Clear Time (g_c-		0.0		12.7		3.2		12.3					
Green Ext Time (p_c), s	5	0.0		6.1		0.0		3.8					
Intersection Summary													
HCM 6th Ctrl Delay			20.6										
HCM 6th LOS			С										

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Movement E	BL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ሻ	<b>^</b>	7	ሻ	<b>^</b>	7	16	<del>ተ</del> ተኈ		ሻ	<del>ተ</del> ተጉ		
Traffic Volume (veh/h)	36	200	522	150	145	52	340	674	110	52	1022	28	
Future Volume (veh/h)	36	200	522	150	145	52	340	674	110	52	1022	28	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
	00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Ů,	00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach		No			No			No			No		
Adj Sat Flow, veh/h/ln 18		1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	
	38	208	544	156	151	54	354	702	115	54	1065	29	
Peak Hour Factor 0.9		0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2	
•	26	1404	626	347	1404	626	540	2166	351	355	2500	68	
Arrive On Green 0.3		0.39	0.39	0.39	0.39	0.39	0.49	0.49	0.49	0.49	0.49	0.49	
Sat Flow, veh/h 11		3554	1585	711	3554	1585	1000	4427	718	669	5110	139	
	38	208	544 1585	156	151	54	354	538	279 1741	54	709 1702	385	
Grp Sat Flow(s), veh/h/ln11	77 1.6	1777 2.9	24.6	711 14.0	1777 2.1	1585 1.7	500 27.5	1702 7.4	7.6	669 4.1	1702	1845 10.5	
10- /-	3.7	2.9	24.6	17.0	2.1	1.7	37.9	7.4	7.6	11.7	10.4	10.5	
3 10- 7	00	2.7	1.00	1.00	Z. I	1.00	1.00	7.4	0.41	1.00	10.4	0.08	
	26	1404	626	347	1404	626	540	1665	852	355	1665	903	
V/C Ratio(X) 0.0		0.15	0.87	0.45	0.11	0.09	0.66	0.32	0.33	0.15	0.43	0.43	
. ,	13	1967	877	459	1967	877	540	1665	852	355	1665	903	
— .	00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
	00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/veh16		15.1	21.6	20.6	14.8	14.7	25.0	12.0	12.1	15.6	12.8	12.8	
	).1	0.0	6.9	0.9	0.0	0.1	6.1	0.5	1.0	0.9	0.8	1.5	
Initial Q Delay(d3),s/veh 0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%), veh/lo	0.4	1.1	9.3	2.2	0.8	0.6	3.4	2.6	2.8	0.7	3.6	4.1	
Unsig. Movement Delay, s/	/veh	)											
LnGrp Delay(d),s/veh 16	5.1	15.2	28.5	21.5	14.9	14.8	31.1	12.6	13.1	16.5	13.6	14.3	
LnGrp LOS	В	В	С	С	В	В	С	В	В	В	В	В	
Approach Vol, veh/h		790			361			1171			1148		
Approach Delay, s/veh		24.4			17.7			18.3			14.0		
Approach LOS		С			В			В			В		
Timer - Assigned Phs		2		4		6		8					
Phs Duration (G+Y+Rc), s		42.5		35.2		42.5		35.2					
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5					
Max Green Setting (Gmax)	), s	38.0		43.0		38.0		43.0					
Max Q Clear Time (g_c+l1)		40.9		27.6		14.7		20.0					
Green Ext Time (p_c), s		0.0		3.1		7.9		2.3					
Intersection Summary													
HCM 6th Ctrl Delay			18.2										
HCM 6th LOS			В										

و	<b>,</b> →	$\searrow$	•	•	•	•	<b>†</b>	/	/	ļ	4	
Movement EB	BL EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations			*	4	7	ሻሻ	ተተተ			1111	7	
_	0 0	0	469	1	425	145	689	0	0	1144	548	
	0 0	0	469	1	425	145	689	0	0	1144	548	
Initial Q (Qb), veh	0 0	Ü	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)			1.00	U	1.00	1.00	U	1.00	1.00	U	1.00	
Parking Bus, Adj			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach			1.00	No	1.00	1.00	No	1.00	1.00	No	1.00	
Adj Sat Flow, veh/h/ln			1870	1870	1870	1870	1870	0	0	1870	1870	
Adj Flow Rate, veh/h			614	0	290	148	703	0	0	1167	559	
Peak Hour Factor			0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	
Percent Heavy Veh, %			2	2	2	2	2	0.70	0.70	2	2	
Cap, veh/h			894	0	398	490	3216	0	0	4052	998	
Arrive On Green			0.25	0.00	0.25	0.63	0.63	0.00	0.00	0.63	0.63	
Sat Flow, veh/h			3563	0	1585	546	5274	0	0	6696	1585	
Grp Volume(v), veh/h			614	0	290	148	703	0	0	1167	559	
Grp Sat Flow(s), veh/h/ln			1781	0	1585	273	1702	0	0	1609	1585	
Q Serve(g_s), s			11.8	0.0	12.7	12.7	4.5	0.0	0.0	6.2	15.2	
Cycle Q Clear(g_c), s			11.8	0.0	12.7	18.9	4.5	0.0	0.0	6.2	15.2	
Prop In Lane			1.00		1.00	1.00		0.00	0.00		1.00	
Lane Grp Cap(c), veh/h			894	0	398	490	3216	0	0	4052	998	
V/C Ratio(X)			0.69	0.00	0.73	0.30	0.22	0.00	0.00	0.29	0.56	
Avail Cap(c_a), veh/h			1582	0	704	490	3216	0	0	4052	998	
HCM Platoon Ratio			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)			1.00	0.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00	
Uniform Delay (d), s/veh			25.6	0.0	25.9	10.6	6.0	0.0	0.0	6.3	8.0	
Incr Delay (d2), s/veh			0.9	0.0	2.6	1.6	0.2	0.0	0.0	0.2	2.3	
Initial Q Delay(d3),s/veh			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln			4.9	0.0	4.8	0.7	1.2	0.0	0.0	1.6	4.4	
Unsig. Movement Delay, s/v	veh											
LnGrp Delay(d),s/veh			26.5	0.0	28.5	12.2	6.2	0.0	0.0	6.5	10.3	
LnGrp LOS			С	A	С	В	A	A	A	A	В	
Approach Vol, veh/h				904			851			1726		
Approach Delay, s/veh				27.1			7.2			7.7		
Approach LOS				С			Α			Α		
Timer - Assigned Phs	2				6		8					
Phs Duration (G+Y+Rc), s	52.0				52.0		23.4					
Change Period (Y+Rc), s	4.5						4.5					
					4.5							
Max Green Setting (Gmax),					47.5		33.5					
Max Q Clear Time (g_c+l1)					18.2		15.7					
Green Ext Time (p_c), s	9.6				12.4		3.3					
Intersection Summary												
HCM 6th Ctrl Delay		12.6										
HCM 6th LOS		В										
Notes												

•	<b>→</b>	$\searrow$	•	•	•	1	<b>†</b>	/	/	ţ	4	
Movement EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
_ane Configurations	4	7					ተ <b>ተ</b> ኈ		77	<b>^</b>		
Fraffic Volume (veh/h) 258	0	250	0	0	0	0	576	355	486	1127	0	
Future Volume (veh/h) 258	0	250	0	0	0	0	576	355	486	1127	0	
nitial Q (Qb), veh 0	0	0				0	0	0	0	0	0	
Ped-Bike Adj(A_pbT) 1.00		1.00				1.00		1.00	1.00		1.00	
Parking Bus, Adj 1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00	
Nork Zone On Approach	No						No			No		
Adj Sat Flow, veh/h/ln 1870	1870	1870				0	1870	1870	1870	1870	0	
Adj Flow Rate, veh/h 350	0	173				0	600	370	506	1174	0	
Peak Hour Factor 0.96	0.96	0.96				0.96	0.96	0.96	0.96	0.96	0.96	
Percent Heavy Veh, % 2	2	2				0	2	2	2	2	0	
Cap, veh/h 542	0	241				0	2525	1176	915	2636	0	
Arrive On Green 0.15	0.00	0.15				0.00	0.74	0.74	0.74	0.74	0.00	
Sat Flow, veh/h 3563	0	1585				0	3572	1585	1124	3647	0	
Grp Volume(v), veh/h 350	0	173				0	600	370	506	1174	0	
Grp Sat Flow(s), veh/h/ln1781	0	1585				0	1702	1585	562	1777	0	
2 Serve(g_s), s 7.8	0.0	8.8				0.0	4.7	6.7	23.4	10.8	0.0	
Cycle Q Clear(g_c), s 7.8	0.0	8.8				0.0	4.7	6.7	30.0	10.8	0.0	
Prop In Lane 1.00		1.00				0.00		1.00	1.00		0.00	
ane Grp Cap(c), veh/h 542	0	241				0	2525	1176	915	2636	0	
V/C Ratio(X) 0.65	0.00	0.72				0.00	0.24	0.31	0.55	0.45	0.00	
Avail Cap(c_a), veh/h 760	0	338				0	2525	1176	915	2636	0	
HCM Platoon Ratio 1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00	
Jpstream Filter(I) 1.00	0.00	1.00				0.00	1.00	1.00	1.00	1.00	0.00	
Jniform Delay (d), s/veh33.8	0.0	34.2				0.0	3.4	3.7	8.7	4.2	0.0	
ncr Delay (d2), s/veh 1.3	0.0	4.3				0.0	0.2	0.7	2.4	0.5	0.0	
nitial Q Delay(d3),s/veh 0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/lß.4	0.0	3.6				0.0	1.1	1.6	2.4	2.6	0.0	
Jnsig. Movement Delay, s/vel		00.5				0.0	0.7		44.4	4.0	0.0	
_nGrp Delay(d),s/veh 35.1	0.0	38.5				0.0	3.7	4.4	11.1	4.8	0.0	
_nGrp LOS D	A	D				<u>A</u>	A	A	В	A	A	
Approach Vol, veh/h	523						970			1680		
Approach Delay, s/veh	36.2						3.9			6.7		
Approach LOS	D						Α			Α		
Timer - Assigned Phs	2		4		6							
Phs Duration (G+Y+Rc), s	67.4		17.4		67.4							
Change Period (Y+Rc), s	4.5		4.5		4.5							
Max Green Setting (Gmax), s	62.9		18.1		62.9							
Max Q Clear Time (g_c+l1), s			11.8		33.0							
Green Ext Time (p_c), s	7.7		1.1		17.8							
ntersection Summary												
HCM 6th Ctrl Delay		10.7										
HCM 6th LOS		В										
Votes												

Intersection	
Intersection Delay, s/veh	13.5
Intersection LOS	В

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4₽	7		41₽	7		4	7		ર્ન	7
Traffic Vol, veh/h	17	374	27	35	370	49	27	55	21	37	47	10
Future Vol, veh/h	17	374	27	35	370	49	27	55	21	37	47	10
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	18	407	29	38	402	53	29	60	23	40	51	11
Number of Lanes	0	2	1	0	2	1	0	1	1	0	1	1
Approach	EB			WB			NB			SB		
Opposing Approach	WB			EB			SB			NB		
Opposing Lanes	3			3			2			2		
Conflicting Approach Left	SB			NB			EB			WB		
Conflicting Lanes Left	2			2			3			3		
Conflicting Approach Right	NB			SB			WB			EB		
Conflicting Lanes Right	2			2			3			3		
HCM Control Delay	14			13.7			11.9			12.2		
HCM LOS	В			В			В			В		

Lane	NBLn1	NBLn2	EBLn1	EBLn2	EBLn3	WBLn1	WBLn2	WBLn3	SBLn1	SBLn2	
Vol Left, %	33%	0%	12%	0%	0%	22%	0%	0%	44%	0%	
Vol Thru, %	67%	0%	88%	100%	0%	78%	100%	0%	56%	0%	
Vol Right, %	0%	100%	0%	0%	100%	0%	0%	100%	0%	100%	
Sign Control	Stop										
Traffic Vol by Lane	82	21	142	249	27	158	247	49	84	10	
LT Vol	27	0	17	0	0	35	0	0	37	0	
Through Vol	55	0	125	249	0	123	247	0	47	0	
RT Vol	0	21	0	0	27	0	0	49	0	10	
Lane Flow Rate	89	23	154	271	29	172	268	53	91	11	
Geometry Grp	8	8	8	8	8	8	8	8	8	8	
Degree of Util (X)	0.193	0.044	0.284	0.495	0.048	0.317	0.485	0.086	0.2	0.021	
Departure Headway (Hd)	7.798	6.928	6.641	6.58	5.872	6.63	6.518	5.81	7.879	6.952	
Convergence, Y/N	Yes										
Cap	463	520	537	545	604	539	550	611	458	518	
Service Time	5.504	4.633	4.432	4.372	3.663	4.42	4.308	3.6	5.584	4.657	
HCM Lane V/C Ratio	0.192	0.044	0.287	0.497	0.048	0.319	0.487	0.087	0.199	0.021	
HCM Control Delay	12.4	10	12.1	15.7	9	12.5	15.4	9.2	12.5	9.8	
HCM Lane LOS	В	Α	В	С	Α	В	С	Α	В	Α	
HCM 95th-tile Q	0.7	0.1	1.2	2.7	0.2	1.4	2.6	0.3	0.7	0.1	

Intersection Delay, s/veh30.2   Intersection LOS	Intersection											
Movement   EBL   EBT   EBR   WBL   WBT   WBR   NBL   NBT   NBR   Configurations   Tarffic Vol, veh/h   17   397   24   8   401   86   22   170   30   30   30   30   30   30   30		h30.2										
Movement         EBL         EBT         EBR         WBL         WBT         WBR         NBL         NBT         NBR           Lane Configurations         ↑ </td <td></td>												
Traffic Vol, veh/h												
Lane Configurations	Movement	FRI	FRT	FRD	W/RI	\M/RT	WRD	MRI	NRT	MRD		SBL
Traffic Vol, veh/h         17         397         24         8         401         86         22         170         30         8           Future Vol, veh/h         17         397         24         8         401         86         22         170         30         8           Peak Hour Factor         0.92				LDIN			WDIN	NDL			JL	ᆫ
Future Vol, veh/h         17         397         24         8         401         86         22         170         30         8           Peak Hour Factor         0.92				24			0/	22			0	7
Peak Hour Factor											87	
Heavy Vehicles, %   2   2   2   2   2   2   2   2   2												
Mvmf Flow         18         432         26         9         436         93         24         185         33         95           Number of Lanes         1         2         0         1         2         0         0         1         1         0           Approach         EB         WB         RB         SB         NB         SB           Opposing Approach Left SB         NB         EB         SB         WB         2           Conflicting Lanes Left         1         2         3         3         3         3           Conflicting Lanes Right         2         1         3         WB         EB         WB         EB           Conflicting Lanes Right         2         1         3         24         39.9         HCM Control Delay         28.4         29.3         24         39.9         HCM Control Delay         28.4         29.3         24         39.9         HCM LOS         D         D         C         E         E           Lane         NBLn1 NBLn2 EBLn1 EBLn2 EBLn3 WBLn1WBLn2 WBLn3 SBLn1         WB Ln1 WBLn2 W												
Number of Lanes	-											
Approach         EB         WB         SB         NB           Opposing Approach         WB         EB         SB         NB           Opposing Lanes         3         3         1         2           Conflicting Approach Left SB         NB         EB         WB           Conflicting Lanes Left         1         2         3         3           Conflicting Approach RighNB         SB         WB         EB           Conflicting Lanes Right         2         1         3         3           HCM Control Delay         28.4         29.3         24         39.9           HCM LOS         D         D         C         E           Eane         NBLn1 NBLn2 EBLn1 EBLn2 EBLn3WBLn1WBLn2WBLn3 SBLn1         Vol Left,         39.9           HCM LOS         D         D         C         E           Eane         NBLn1 NBLn2 EBLn1 EBLn2 EBLn3WBLn1WBLn2WBLn3 SBLn1         Vol Christon         39.9         9.0         60												
Opposing Approach         WB         EB         SB         NB           Opposing Lanes         3         3         1         2           Conflicting Approach Left SB         NB         EB         WB           Conflicting Lanes Left         1         2         3         3           Conflicting Approach RighNB         SB         WB         EB           Conflicting Lanes Right         2         1         3         3           HCM Control Delay         28.4         29.3         24         39.9           HCM LOS         D         D         C         E           Lane         NBLn1 NBLn2 EBLn1 EBLn2 EBLn3WBLn1WBLn2WBLn3 SBLn1         VOI Left, %         11%         0%         100%         0%         0%         0%         0%         32.9           Vol Left, %         11%         0%         100%         0%         0%         0%         0%         0%         32.9           Vol Right, %         0%         100%         0%         0%         100%         85%         0%         100%         61%         60%           Vol Right, %         0%         100%         0%         0%         15%         0%         0%         39%	Number of Lanes	1	2	0	1	2	0	0	1	1	0	
Opposing Lanes         3         3         1         2           Conflicting Approach Left SB         NB         EB         WB           Conflicting Lanes Left         1         2         3         3           Conflicting Approach RighNB         SB         WB         EB           Conflicting Lanes Right         2         1         3         3           HCM Control Delay         28.4         29.3         24         39.9           HCM LOS         D         D         C         E           Lane         NBLn1 NBLn2 EBLn1 EBLn2 EBLn3WBLn1WBLn2WBLn3 SBLn1         VOI Left, WBln2         11%         0%         100%         0%         100%         0%         0%         39.9           Vol Left, WBln3         11%         0%         100%         0%         0%         100%         0%         0%         32%           Vol Thru, WBln3         89%         0%         100%         0%         0%         100%         0%         0%         39%         8%           Sign Control         Stop	Approach											
Conflicting Approach Left SB	Opposing Approach	WB			EB			SB			NB	
Conflicting Lanes Left   1	Opposing Lanes	3			3			1			2	
Conflicting Approach RighNB	Conflicting Approach Le	ft SB			NB			EB			WB	
Conflicting Approach RighNB					2			3			3	
Conflicting Lanes Right         2         1         3         3           HCM Control Delay         28.4         29.3         24         39.9           HCM LOS         D         D         D         C         E           Lane         NBLn1 NBLn2 EBLn1 EBLn2 EBLn3 WBLn1 WBLn2 WBLn3 SBLn1         Vol Left, %         11%         0%         100%         0%         0%         100%         0%         0%         32%           Vol Left, %         11%         0%         100%         0%         100%         0%	Conflicting Approach Ri	ghNB			SB			WB			EB	
HCM Control Delay   28.4   29.3   24   39.9   HCM LOS   D   D   C   E   E   E   E   E   E   E   E   E					1			3			3	
Lane         NBLn1 NBLn2 EBLn1 EBLn2 EBLn3 WBLn1 WBLn2 WBLn3 SBLn1           Vol Left, %         11%         0%         100%         0%         0%         100%         0%         0%         32%           Vol Thru, %         89%         0%         0%         100%         85%         0%         100%         60%           Vol Right, %         0%         100%         0%         15%         0%         10%         39%         8%           Sign Control         Stop         Stop <td></td> <td></td> <td></td> <td></td> <td>29.3</td> <td></td> <td></td> <td>24</td> <td></td> <td></td> <td>39.9</td> <td></td>					29.3			24			39.9	
Vol Left, %         11%         0%         100%         0%         100%         0%         0%         32%           Vol Thru, %         89%         0%         0%         100%         85%         0%         100%         61%         60%           Vol Right, %         0%         100%         0%         0%         15%         0%         0%         39%         8%           Sign Control         Stop		D			D			С			Е	
Vol Left, %         11%         0%         100%         0%         100%         0%         0%         32%           Vol Thru, %         89%         0%         0%         100%         85%         0%         100%         61%         60%           Vol Right, %         0%         100%         0%         0%         15%         0%         0%         39%         8%           Sign Control         Stop												
Vol Left, %         11%         0%         100%         0%         100%         0%         0%         32%           Vol Thru, %         89%         0%         0%         100%         85%         0%         100%         61%         60%           Vol Right, %         0%         100%         0%         0%         15%         0%         0%         39%         8%           Sign Control         Stop	Lane	N	IBI n1 ľ	NBI n2	FBI n1 l	FBI n2	FBI n3\	VBI n1V	VBI n2V	VBI n3 :	SBI n1	
Vol Thru, %         89%         0%         0%         100%         85%         0%         100%         61%         60%           Vol Right, %         0%         100%         0%         15%         0%         0%         39%         8%           Sign Control         Stop         20         20         20         20         20         20												
Vol Right, %         0%         100%         0%         15%         0%         39%         8%           Sign Control         Stop         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20								1111170	0%	0%	32%	
Sign Control         Stop			0770		11%	100%						
Traffic Vol by Lane         192         30         17         265         156         8         267         220         271           LT Vol         22         0         17         0         0         8         0         0         87           Through Vol         170         0         0         265         132         0         267         134         163           RT Vol         0         30         0         0         24         0         0         86         21           Lane Flow Rate         209         33         18         288         170         9         291         239         295           Geometry Grp         8			0%				85%	0%	100%	61%	60%	
LT Vol         22         0         17         0         0         8         0         0         87           Through Vol         170         0         0         265         132         0         267         134         163           RT Vol         0         30         0         0         24         0         0         86         21           Lane Flow Rate         209         33         18         288         170         9         291         239         295           Geometry Grp         8         9         0.024         0.74	0			100%	0%	0%	85% 15%	0% 0%	100%	61% 39%	60% 8%	
Through Vol         170         0         0         265         132         0         267         134         163           RT Vol         0         30         0         0         24         0         0         86         21           Lane Flow Rate         209         33         18         288         170         9         291         239         295           Geometry Grp         8         9         9.226         9.724         9.2	Traffic vol nv Lane		Stop	100% Stop	0% Stop	0% Stop	85% 15% Stop	0% 0% Stop	100% 0% Stop	61% 39% Stop	60% 8% Stop	
RT Vol         0         30         0         0         24         0         0         86         21           Lane Flow Rate         209         33         18         288         170         9         291         239         295           Geometry Grp         8         9         226         9.724         9.2         8.913         9.609         9         7.20         7.20         7.20         7.20         7.20         7.20         7.20         7			Stop 192	100% Stop 30	0% Stop 17	0% Stop 265	85% 15% Stop 156	0% 0% Stop 8	100% 0% Stop 267	61% 39% Stop 220	60% 8% Stop 271	
Lane Flow Rate         209         33         18         288         170         9         291         239         295           Geometry Grp         8         9         20         0.743         0.591         0.786         0.086         0.089         9.338         9.226         9.724         9.2         8.913         9.609         9.060         0.090         0.085         1009         38         391         369         395         406         377         9.060         377         0.085         1009         7.075 <td< td=""><td>LT Vol</td><td></td><td>Stop 192 22</td><td>100% Stop 30 0</td><td>0% Stop 17 17</td><td>0% Stop 265 0</td><td>85% 15% Stop 156 0</td><td>0% 0% Stop 8</td><td>100% 0% Stop 267 0</td><td>61% 39% Stop 220 0</td><td>60% 8% Stop 271 87</td><td></td></td<>	LT Vol		Stop 192 22	100% Stop 30 0	0% Stop 17 17	0% Stop 265 0	85% 15% Stop 156 0	0% 0% Stop 8	100% 0% Stop 267 0	61% 39% Stop 220 0	60% 8% Stop 271 87	
Geometry Grp         8         9         20         0.023         0.743         0.591         0.786         0.786         0.742         0.742         9.22         9.724         9.2         8.913         9.609         9           Convergence, Y/N         Yes	LT Vol Through Vol		Stop 192 22 170	100% Stop 30 0	0% Stop 17 17	0% Stop 265 0 265	85% 15% Stop 156 0 132	0% 0% Stop 8 8	100% 0% Stop 267 0 267	61% 39% Stop 220 0 134	60% 8% Stop 271 87 163	
Degree of Util (X)       0.581       0.084       0.051       0.746       0.435       0.023       0.743       0.591       0.786         Departure Headway (Hd)       10.022       9.236       9.863       9.338       9.226       9.724       9.2       8.913       9.609         Convergence, Y/N       Yes	LT Vol Through Vol RT Vol		Stop 192 22 170 0	100% Stop 30 0 0	0% Stop 17 17 0	0% Stop 265 0 265	85% 15% Stop 156 0 132 24	0% 0% Stop 8 8 0	100% 0% Stop 267 0 267 0	61% 39% Stop 220 0 134 86	60% 8% Stop 271 87 163 21	
Departure Headway (Hd)         10.022         9.236         9.863         9.338         9.226         9.724         9.2         8.913         9.609           Convergence, Y/N         Yes         Ye	LT Vol Through Vol RT Vol Lane Flow Rate		Stop 192 22 170 0 209	100% Stop 30 0 0 30 30	0% Stop 17 17 0 0	0% Stop 265 0 265 0 288	85% 15% Stop 156 0 132 24 170	0% 0% Stop 8 8 0	100% 0% Stop 267 0 267 0 291	61% 39% Stop 220 0 134 86 239	60% 8% Stop 271 87 163 21 295	
Convergence, Y/N         Yes	LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp		Stop 192 22 170 0 209 8	100% Stop 30 0 0 30 33 8	0% Stop 17 17 0 0 18	0% Stop 265 0 265 0 288	85% 15% Stop 156 0 132 24 170	0% 0% Stop 8 8 0 0	100% 0% Stop 267 0 267 0 291	61% 39% Stop 220 0 134 86 239	60% 8% Stop 271 87 163 21 295	
Cap         361         388         364         388         391         369         395         406         377           Service Time         7.779         6.993         7.6         7.075         6.962         7.461         6.936         6.649         7.347           HCM Lane V/C Ratio         0.579         0.085         0.049         0.742         0.435         0.024         0.737         0.589         0.782           HCM Control Delay         25.8         12.8         13.1         35         18.9         12.7         34.3         23.8         39.9           HCM Lane LOS         D         B         B         D         C         B         D         C         E	LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X)		Stop 192 22 170 0 209 8 0.581	100% Stop 30 0 0 30 33 8 0.084	0% Stop 17 17 0 0 18 8 0.051	0% Stop 265 0 265 0 288 8 0.746	85% 15% Stop 156 0 132 24 170 8 0.435	0% 0% Stop 8 8 0 0 9 8	100% 0% Stop 267 0 267 0 291 8 0.743	61% 39% Stop 220 0 134 86 239 8 0.591	60% 8% Stop 271 87 163 21 295 8	
Service Time         7.779         6.993         7.6         7.075         6.962         7.461         6.936         6.649         7.347           HCM Lane V/C Ratio         0.579         0.085         0.049         0.742         0.435         0.024         0.737         0.589         0.782           HCM Control Delay         25.8         12.8         13.1         35         18.9         12.7         34.3         23.8         39.9           HCM Lane LOS         D         B         B         D         C         B         D         C         E	LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Ho		Stop 192 22 170 0 209 8 0.581 0.022	100% Stop 30 0 0 30 33 8 0.084 9.236	0% Stop 17 17 0 0 18 8 0.051 9.863	0% Stop 265 0 265 0 288 8 0.746 9.338	85% 15% Stop 156 0 132 24 170 8 0.435 9.226	0% 0% Stop 8 8 0 0 9 8 0.023 9.724	100% 0% Stop 267 0 267 0 291 8 0.743	61% 39% Stop 220 0 134 86 239 8 0.591 8.913	60% 8% Stop 271 87 163 21 295 8 0.786 9.609	
HCM Lane V/C Ratio       0.579       0.085       0.049       0.742       0.435       0.024       0.737       0.589       0.782         HCM Control Delay       25.8       12.8       13.1       35       18.9       12.7       34.3       23.8       39.9         HCM Lane LOS       D       B       B       D       C       B       D       C       E	LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Ho Convergence, Y/N		Stop 192 22 170 0 209 8 0.581 0.022 Yes	100% Stop 30 0 0 30 33 8 0.084 9.236 Yes	0% Stop 17 17 0 0 18 8 0.051 9.863 Yes	0% Stop 265 0 265 0 288 8 0.746 9.338 Yes	85% 15% Stop 156 0 132 24 170 8 0.435 9.226 Yes	0% 0% Stop 8 8 0 0 9 8 0.023 9.724 Yes	100% 0% Stop 267 0 267 0 291 8 0.743 9.2 Yes	61% 39% Stop 220 0 134 86 239 8 0.591 8.913 Yes	60% 8% Stop 271 87 163 21 295 8 0.786 9.609 Yes	
HCM Control Delay         25.8         12.8         13.1         35         18.9         12.7         34.3         23.8         39.9           HCM Lane LOS         D         B         B         D         C         B         D         C         E	LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Ho Convergence, Y/N Cap	d) 10	Stop 192 22 170 0 209 8 0.581 0.022 Yes 361	100% Stop 30 0 0 30 33 8 0.084 9.236 Yes 388	0% Stop 17 17 0 0 18 8 0.051 9.863 Yes 364	0% Stop 265 0 265 0 288 8 0.746 9.338 Yes 388	85% 15% Stop 156 0 132 24 170 8 0.435 9.226 Yes 391	0% 0% Stop 8 8 0 0 9 8 0.023 9.724 Yes 369	100% 0% Stop 267 0 267 0 291 8 0.743 9.2 Yes 395	61% 39% Stop 220 0 134 86 239 8 0.591 8.913 Yes 406	60% 8% Stop 271 87 163 21 295 8 0.786 9.609 Yes 377	
HCM Lane LOS D B B D C B D C E	LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Ho Convergence, Y/N Cap Service Time	d) 10	Stop 192 22 170 0 209 8 0.581 0.022 Yes 361 7.779	100% Stop 30 0 0 30 33 8 0.084 9.236 Yes 388 6.993	0% Stop 17 17 0 0 18 8 0.051 9.863 Yes 364 7.6	0% Stop 265 0 265 0 288 8 0.746 9.338 Yes 388 7.075	85% 15% Stop 156 0 132 24 170 8 0.435 9.226 Yes 391 6.962	0% 0% Stop 8 8 0 0 9 8 0.023 9.724 Yes 369 7.461	100% 0% Stop 267 0 267 0 291 8 0.743 9.2 Yes 395 6.936	61% 39% Stop 220 0 134 86 239 8 0.591 8.913 Yes 406 6.649	60% 8% Stop 271 87 163 21 295 8 0.786 9.609 Yes 377 7.347	
	LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Ho Convergence, Y/N Cap Service Time HCM Lane V/C Ratio	d) 10	Stop 192 22 170 0 209 8 0.581 0.022 Yes 361 7.779 0.579	100% Stop 30 0 0 30 33 8 0.084 9.236 Yes 388 6.993 0.085	0% Stop 17 17 0 0 18 8 0.051 9.863 Yes 364 7.6 0.049	0% Stop 265 0 265 0 288 8 0.746 9.338 Yes 388 7.075 0.742	85% 15% Stop 156 0 132 24 170 8 0.435 9.226 Yes 391 6.962 0.435	0% 0% Stop 8 8 0 0 9 8 0.023 9.724 Yes 369 7.461 0.024	100% 0% Stop 267 0 291 8 0.743 9.2 Yes 395 6.936 0.737	61% 39% Stop 220 0 134 86 239 8 0.591 8.913 Yes 406 6.649 0.589	60% 8% Stop 271 87 163 21 295 8 0.786 9.609 Yes 377 7.347 0.782	
HOMOFILE 0 25 02 02 50 21 01 50 27 //	LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Ho Convergence, Y/N Cap Service Time HCM Lane V/C Ratio HCM Control Delay	d) 10	Stop 192 22 170 0 209 8 0.581 0.022 Yes 361 7.779 0.579 25.8	100% Stop 30 0 0 30 33 8 0.084 9.236 Yes 388 6.993 0.085 12.8	0% Stop 17 17 0 0 18 8 0.051 9.863 Yes 364 7.6 0.049 13.1	0% Stop 265 0 265 0 288 8 0.746 9.338 Yes 388 7.075 0.742 35	85% 15% Stop 156 0 132 24 170 8 0.435 9.226 Yes 391 6.962 0.435 18.9	0% 0% Stop 8 8 0 0 9 8 0.023 9.724 Yes 369 7.461 0.024 12.7	100% 0% Stop 267 0 291 8 0.743 9.2 Yes 395 6.936 0.737 34.3	61% 39% Stop 220 0 134 86 239 8 0.591 8.913 Yes 406 6.649 0.589 23.8	60% 8% Stop 271 87 163 21 295 8 0.786 9.609 Yes 377 7.347 0.782 39.9	

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HCM 95th-tile Q

Movement   EBL   EBT   EBR   WBL   WBT   WBR   NBL   NBT   NBR   SBL   SBT   SBR		۶	<b>→</b>	•	•	<b>←</b>	•	•	<b>†</b>	<b>/</b>	<b>/</b>	ţ	✓	
Traffic Volume (veh/h)   134   352   139   290   232   72   214   830   478   72   582   50	Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Traffic Volume (veh/h) 134 352 139 290 232 72 214 830 478 72 582 50    Future Volume (veh/h) 134 352 139 290 232 72 214 830 478 72 582 50    Future Volume (veh/h) 134 352 139 290 232 72 214 830 478 72 582 50    Future Volume (veh/h) 134 352 139 290 232 72 214 830 478 72 582 50    Future Volume (veh/h) 134 352 139 290 232 72 214 830 478 72 582 50    Future Volume (veh/h) 134 352 139 290 232 72 214 830 478 72 582 50    Future Volume (veh/h) 134 352 139 290 232 72 214 830 478 72 582 50    Future Volume (veh/h) 136 352 139 290 232 72 210 1.00 1.00 1.00 1.00 1.00 1.00 1.00	Lane Configurations	ሻ	ħβ		ሻ	ħβ		ሻ	<b>^</b>	7	ሻ	<b>↑</b> ↑		
Initial O (Clb), weh		134		139	290		72	214		478	72		50	
Ped-Bike Adj(A, pbT)	Future Volume (veh/h)	134	352	139	290	232	72	214	830	478	72	582	50	
Parking Bus, Adj	Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Work Zone On Ápproach   No	Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00			1.00		1.00	
Adj Sat Flow, veh'h/ln 1870 1870 1870 1870 1870 1870 1870 1870	Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00		1.00	
Adj Flow Rate, veh/h 138 363 143 299 239 74 221 856 493 74 600 52 Peak Hour Factor 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97														
Peak Hour Factor         0.97         0.98         Max Occasion         0.08         Amax Occasion         0.08         48         0.08         818         1.08         0.08         81         0.08         0.08         0.08         0.08         0.09         0.03         0.30         0.30         0.30         0.30         0.30         0.30         0.30         0.30         0.30         0.30         0.30														
Percent Heavy Veh, % 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2														
Cap, veh/h														
Arrive On Green 0.10 0.20 0.20 0.18 0.28 0.28 0.14 0.38 0.38 0.06 0.30 0.30 0.30 Sat Flow, weh/h 1781 2502 971 1781 2688 813 1781 3554 1585 1781 3309 286 Grg Volume(v), veh/h 138 256 250 299 156 157 221 856 493 74 322 330 Grg Sat Flow(s), weh/h 1781 1777 1696 1781 1777 177 1724 1781 1777 1885 1781 1777 1819 0. Serve(g_s), s 7.7 13.8 14.2 16.8 7.1 7.4 12.4 20.1 28.5 4.2 15.8 15.8 Cycle O Clear(g_c), s 7.7 13.8 14.2 16.8 7.1 7.4 12.4 20.1 28.5 4.2 15.8 15.8 Prop In Lane 1.00 0.57 1.00 0.47 1.00 0.016 Lane Grp Cap(c), veh/h 186 350 334 328 492 477 253 1354 604 110 534 547 V/C Ratio(X) 0.74 0.73 0.75 0.91 0.32 0.33 0.87 0.63 0.82 0.68 0.60 0.60 Avail Cap(c_a), veh/h 311 661 631 328 679 153 154 604 110 534 547 HCM Platon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0														
Sat Flow, veh/h         1781         2502         971         1781         2688         813         1781         3554         1585         1781         3309         286           Grp Volume(v), veh/h         138         256         250         299         156         157         221         856         493         74         322         330           Grp Sat Flow(s), veh/h/In1781         1777         1686         1781         1777         1724         1781         1777         1585         1781         1777         1819           O Serve(g_s), s         7.7         13.8         14.2         16.8         7.1         7.4         12.4         20.1         28.5         4.2         15.8         15.8           Cycle Q Clear(g_c), s         7.7         13.8         14.2         16.8         7.1         7.4         12.4         20.1         28.5         4.2         15.8         15.8           Prop In Lane         1.00         0.57         1.00         0.47         1.00         0.47         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00	•													
Grp Volume(v), veh/h 138 256 250 299 156 157 221 856 493 74 322 330 Grp Sat Flow(s), veh/h/lnf181 1777 1696 1781 1777 1724 1781 1777 1585 1781 1777 1819 Q Serve(g_s), s 7.7 13.8 14.2 16.8 7.1 7.4 12.4 20.1 28.5 4.2 15.8 15.8 Cycle O Clear(g_c), s 7.7 13.8 14.2 16.8 7.1 7.4 12.4 20.1 28.5 4.2 15.8 15.8 Prop In Lane 1.00 0.57 1.00 0.47 1.00 1.00 1.00 1.00 0.16 Lane Grp Cap(c), veh/h 186 350 334 328 492 477 253 1354 604 110 534 547 VC Ratio(X) 0.74 0.73 0.75 0.91 0.32 0.33 0.87 0.63 0.82 0.68 0.60 0.60 Avail Cap(c_a), veh/h 311 661 631 328 679 659 253 1354 604 134 534 547 HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0														
Grp Sat Flow(s), veh/h/lnf/781														
O Serve(g_s), s 7.7 13.8 14.2 16.8 7.1 7.4 12.4 20.1 28.5 4.2 15.8 15.8   Cycle Q Clear(g_c), s 7.7 13.8 14.2 16.8 7.1 7.4 12.4 20.1 28.5 4.2 15.8 15.8   Prop In Lane 1.00 0.57 1.00 0.47 1.00 1.00 1.00 0.16   Lane Grp Cap(c), veh/h 186 350 334 328 492 477 253 1354 664 110 534 547   V/C Ratio(X) 0.74 0.73 0.75 0.91 0.32 0.33 0.87 0.63 0.82 0.68 0.60 0.60   Avail Cap(c_a), veh/h 311 661 631 328 679 659 253 1354 664 134 534 547   HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0														
Cycle Q Clear(g_c), s 7.7 13.8 14.2 16.8 7.1 7.4 12.4 20.1 28.5 4.2 15.8 15.8   Prop In Lane 1.00 0.57 1.00 0.47 1.00 1.00 1.00 0.16   Lane Grp Cap(c), veh/h 186 350 334 328 492 477 253 1354 604 110 534 547   V/C Ratio(X) 0.74 0.73 0.75 0.91 0.32 0.33 0.87 0.63 0.82 0.68 0.60 0.60   Avail Cap(c_a), veh/h 311 661 631 328 679 659 253 1354 604 134 534 547   HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	•													
Prop In Lane														
Lane Grp Cap(c), veh/h 186 350 334 328 492 477 253 1354 604 110 534 547  V/C Ratio(X) 0.74 0.73 0.75 0.91 0.32 0.33 0.87 0.63 0.82 0.68 0.60 0.60  Avail Cap(c_a), veh/h 311 661 631 328 679 659 253 1354 604 134 534 547  HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	J 10- 7		13.8			7.1			20.1			15.8		
V/C Ratio(X)														
Avail Cap(c_a), veh/h 311 661 631 328 679 659 253 1354 604 134 534 547  HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0														
HCM Platoon Ratio	` '													
Upstream Filter(I) 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Avail Cap(c_a), veh/h	311			328	679	659	253						
Uniform Delay (d), s/veh 44.4 38.5 38.6 40.8 29.3 29.4 42.9 25.8 28.4 46.9 30.5 30.5 Incr Delay (d2), s/veh 5.8 3.0 3.4 28.4 0.4 0.4 26.8 2.3 11.6 9.5 5.0 4.9 Initial Q Delay(d3), s/veh 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	HCM Platoon Ratio				1.00									
Incr Delay (d2), s/veh	Upstream Filter(I)	1.00	1.00		1.00	1.00	1.00	1.00						
Initial Q Delay(d3),s/veh   0.0														
%ile BackOfQ(50%), veh/liß.6       6.2       6.1       9.8       3.0       3.1       7.2       8.4       12.3       2.1       7.2       7.4         Unsig. Movement Delay, s/veh       LnGrp Delay(d), s/veh       50.2       41.4       42.0       69.3       29.6       29.8       69.7       28.0       40.0       56.4       35.5       35.4         LnGrp LOS       D       D       D       E       C       C       E       C       D       E       D       D         Approach Vol, veh/h       644       612       1570       726         Approach LOS       D       A       3       3       3       4	3 \ ,													
Unsig. Movement Delay, s/veh LnGrp Delay(d),s/veh 50.2 41.4 42.0 69.3 29.6 29.8 69.7 28.0 40.0 56.4 35.5 35.4 LnGrp LOS D D D E C C E C D E D D  Approach Vol, veh/h 644 612 1570 726  Approach Delay, s/veh 43.5 49.0 37.6 37.6  Approach LOS D D D D D D D  Timer - Assigned Phs 1 2 3 4 5 6 7 8  Phs Duration (G+Y+Rc), 10.8 43.4 23.3 24.6 19.0 35.2 15.1 32.8  Change Period (Y+Rc), s 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5														
LnGrp Delay(d),s/veh       50.2       41.4       42.0       69.3       29.6       29.8       69.7       28.0       40.0       56.4       35.5       35.4         LnGrp LOS       D       D       D       E       C       C       E       C       D       E       D       D         Approach Vol, veh/h       644       612       1570       726         Approach Delay, s/veh       43.5       49.0       37.6       37.6         Approach LOS       D       D       D       D       D         Timer - Assigned Phs       1       2       3       4       5       6       7       8         Phs Duration (G+Y+Rc), 10.8       43.4       23.3       24.6       19.0       35.2       15.1       32.8         Change Period (Y+Rc), s 4.5       4.5       4.5       4.5       4.5       4.5       4.5         Max Green Setting (Gmax), %       37.5       18.8       38.0       14.5       30.7       17.8       39.0         Max Q Clear Time (g_c+IT), 2s       31.5       19.8       17.2       15.4       18.8       10.7       10.4         Green Ext Time (p_c), s 0.0       3.6				6.1	9.8	3.0	3.1	7.2	8.4	12.3	2.1	7.2	7.4	
LnGrp LOS         D         D         D         E         C         C         E         C         D         E         D         D           Approach Vol, veh/h         644         612         1570         726           Approach Delay, s/veh         43.5         49.0         37.6         37.6           Approach LOS         D         D         D         D           Timer - Assigned Phs         1         2         3         4         5         6         7         8           Phs Duration (G+Y+Rc), 10.8         43.4         23.3         24.6         19.0         35.2         15.1         32.8           Change Period (Y+Rc), s 4.5         4.5         4.5         4.5         4.5         4.5         4.5           Max Green Setting (Gmax), x 37.5         18.8         38.0         14.5         30.7         17.8         39.0           Max Q Clear Time (g_c+IT),2s 31.5         19.8         17.2         15.4         18.8         10.7         10.4           Green Ext Time (p_c), s 0.0         3.6         0.0         2.9         0.0         2.9         0.2         1.8           Intersection Summary         HCM 6th Ctrl Delay         40.7         40.7		•												
Approach Vol, veh/h 644 612 1570 726 Approach Delay, s/veh 43.5 49.0 37.6 37.6 Approach LOS D D D D  Timer - Assigned Phs 1 2 3 4 5 6 7 8  Phs Duration (G+Y+Rc), 10.8 43.4 23.3 24.6 19.0 35.2 15.1 32.8 Change Period (Y+Rc), s 4.5 4.5 4.5 4.5 4.5 4.5 4.5 Max Green Setting (Gmax), \$\frac{1}{2}\$ 37.5 18.8 38.0 14.5 30.7 17.8 39.0  Max Q Clear Time (g_c+17), 2s 31.5 19.8 17.2 15.4 18.8 10.7 10.4 Green Ext Time (p_c), s 0.0 3.6 0.0 2.9 0.0 2.9 0.2 1.8  Intersection Summary  HCM 6th Ctrl Delay 40.7	. , , ,	50.2		42.0								35.5	35.4	
Approach Delay, s/veh 43.5 49.0 37.6 37.6 Approach LOS D D D D  Timer - Assigned Phs 1 2 3 4 5 6 7 8  Phs Duration (G+Y+Rc), 10.8 43.4 23.3 24.6 19.0 35.2 15.1 32.8  Change Period (Y+Rc), s 4.5 4.5 4.5 4.5 4.5 4.5 4.5  Max Green Setting (Gmax), 3 37.5 18.8 38.0 14.5 30.7 17.8 39.0  Max Q Clear Time (g_c+I), 2s 31.5 19.8 17.2 15.4 18.8 10.7 10.4  Green Ext Time (p_c), s 0.0 3.6 0.0 2.9 0.0 2.9 0.2 1.8  Intersection Summary  HCM 6th Ctrl Delay 40.7		D		D	E		С	<u>E</u>		D	E		D	
Approach LOS D D D D  Timer - Assigned Phs 1 2 3 4 5 6 7 8  Phs Duration (G+Y+Rc), 10.8 43.4 23.3 24.6 19.0 35.2 15.1 32.8  Change Period (Y+Rc), s 4.5 4.5 4.5 4.5 4.5 4.5 4.5  Max Green Setting (Gmax), 3 37.5 18.8 38.0 14.5 30.7 17.8 39.0  Max Q Clear Time (g_c+IV), 2 31.5 19.8 17.2 15.4 18.8 10.7 10.4  Green Ext Time (p_c), s 0.0 3.6 0.0 2.9 0.0 2.9 0.2 1.8  Intersection Summary  HCM 6th Ctrl Delay 40.7	Approach Vol, veh/h													
Timer - Assigned Phs 1 2 3 4 5 6 7 8  Phs Duration (G+Y+Rc), 10.8 43.4 23.3 24.6 19.0 35.2 15.1 32.8  Change Period (Y+Rc), s 4.5 4.5 4.5 4.5 4.5 4.5 4.5  Max Green Setting (Gmax), 7 37.5 18.8 38.0 14.5 30.7 17.8 39.0  Max Q Clear Time (g_c+I), 2 31.5 19.8 17.2 15.4 18.8 10.7 10.4  Green Ext Time (p_c), s 0.0 3.6 0.0 2.9 0.0 2.9 0.2 1.8  Intersection Summary  HCM 6th Ctrl Delay 40.7			43.5			49.0			37.6			37.6		
Phs Duration (G+Y+Rc), 10.8	Approach LOS		D			D			D			D		
Phs Duration (G+Y+Rc), 10.8	Timer - Assigned Phs	1	2	3	4	5	6	7	8					
Change Period (Y+Rc), s 4.5		•						-						
Max Green Setting (Gmax), \$\( \), \$\( 37.5 \) 18.8       38.0       14.5       30.7       17.8       39.0         Max Q Clear Time (g_c+IT),2s       31.5       19.8       17.2       15.4       18.8       10.7       10.4         Green Ext Time (p_c), s 0.0       3.6       0.0       2.9       0.0       2.9       0.2       1.8         Intersection Summary         HCM 6th Ctrl Delay       40.7														
Max Q Clear Time (g_c+11),2s 31.5 19.8 17.2 15.4 18.8 10.7 10.4  Green Ext Time (p_c), s 0.0 3.6 0.0 2.9 0.0 2.9 0.2 1.8  Intersection Summary  HCM 6th Ctrl Delay 40.7														
Green Ext Time (p_c), s 0.0 3.6 0.0 2.9 0.0 2.9 1.8         Intersection Summary         HCM 6th Ctrl Delay       40.7														
HCM 6th Ctrl Delay 40.7														
HCM 6th Ctrl Delay 40.7	Intersection Summary													
J				40.7										
	<b>,</b>													

Movement   EBL   EBT   EBR   WBL   WBT   WBR   NBL   NBT   NBR   SBL   SBT   SBR		۶	<b>→</b>	•	•	<b>←</b>	•	•	<b>†</b>	<b>/</b>	<b>&gt;</b>	ļ	✓	
Traffic Volume (veh/h)   102	Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Traffic Volume (veh/h)   102	Lane Configurations		4			44			<del>ተ</del> ቀሴ		7	<del>ተ</del> ተኈ		
Future Volume (veh/h) 102 0 61 11 0 12 68 1525 2 2 4 1076 43 initial O (Ob), veh 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ŭ .	102		61	11		12			2	4		43	
Ped-Bike Adj(A, pbT)		102	0	61	11	0	12	68	1525	2	4	1076	43	
Parking Bus, Adj	Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Work Zone On Approach   No	Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Adj Sat Flow, veh/hln 1870 1870 1870 1870 1870 1870 1870 1870		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Adj Flow Rate, veh/h 111 0 6 66 12 0 13 74 1605 2 4 1133 47 Peak Hour Factor 0,92 0,92 0,95 0,95 0,95 0,95 0,95 0,95 0,95 0,95	Work Zone On Approac	:h	No			No			No			No		
Peak Hour Factor         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.95         0.95         0.95         0.95         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.95         0.95         0.95         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.95         0.95         0.95         0.92         0.92         0.92         0.92         0.92         0.93         0.93         0.93         2.93         2.93         2.94         4         167         0.67         0.67         0.67         0.67         0.67         0.61         0.61         0.61         0.61         0.61         0.61         0.61         0.61         0.61         0.61         0.61         0.61         0.67         4.78         2.67         7         1781         5028         208         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00	Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	
Percent Heavy Veh, % 2 2 2 2 2 2 2 2 2 2 2 2 2 2 14 140  Cap, veh/h 138 0 82 30 0 32 354 3206 4 13 3372 140  Arrive On Green 0.13 0.00 0.13 0.04 0.00 0.04 0.61 0.61 0.61 0.61 0.01 0.67 0.67  Sat Flow, veh/h 1068 0 635 803 0 870 475 5267 7 1781 5028 208  Grp Volume(v), veh/h 1777 0 0 0 25 0 0 74 1037 570 4 767 413  Grp Sat Flow(s), veh/h/In1703 0 0 1674 0 0 475 1702 1869 1781 1702 1833  O Serve(g.s), s 8.4 0.0 0.0 1.2 0.0 0.0 6.7 142 142 0.2 7.9 7.9  Cycle O Clear(g.c), s 8.4 0.0 0.0 1.2 0.0 0.0 6.7 142 142 0.2 7.9 7.9  Cycle O Clear(g.c), s 8.4 0.0 0.0 1.2 0.0 0.0 10.5 14.2 14.2 0.2 7.9 7.9  Cycle O Clear(g.c), veh/h 20 0 62 0 0 354 2072 1138 13 12283 1229  V/C Ratio(X) 0.80 0.00 0.00 0.40 0.00 0.21 0.50 0.50 0.50 0.30 0.34 0.34  Avail Cap(c.a), veh/h 370 0 0 667 0 0 354 2072 1138 151 2283 1229  HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Adj Flow Rate, veh/h	111	0	66	12	0	13	74	1605	2	4	1133	47	
Cap, veh/h	Peak Hour Factor	0.92	0.92	0.92	0.95	0.92	0.95	0.92	0.95	0.95	0.95	0.95	0.92	
Arrive On Green	Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2	
Sat Flow, veh/h         1068         0         635         803         0         870         475         5267         7         1781         5028         208           Grp Volume(v), veh/h         177         0         0         25         0         0         475         1702         1869         1781         1702         1833           Os Serve(g_s), s         8.4         0.0         0.0         1.2         0.0         0.0         6.7         14.2         14.2         10.2         7.9         7.9           Cycle Q Clear(g_c), s         8.4         0.0         0.0         1.2         0.0         0.0         6.7         14.2         14.2         0.2         7.9         7.9           Cycle Q Clear(g_c), s         8.4         0.0         0.0         1.2         0.0         0.0         1.0         10.0         0.0         0.1           Lane Grp Cap(c), veh/h         20         0         6.2         0         0         354         2072         1138         13         2283         1229           HCM Platoon Ratio         1.00         0.00         0.0         0.00         0.00         1.00         1.00         1.00         1.00         1.00	Cap, veh/h	138	0	82	30	0	32	354	3206	4	13	3372	140	
Grp Volume(v), veh/h 1777 0 0 25 0 0 74 1037 570 4 767 413 Grp Sat Flow(s), veh/h/in1703 0 0 1674 0 0 475 1702 1869 1781 1702 1833 O Serve(g_s), s 8.4 0.0 0.0 1.2 0.0 0.0 6.7 14.2 14.2 0.2 7.9 7.9 Cycle Q Clear(g_c), s 8.4 0.0 0.0 1.2 0.0 0.0 10.5 14.2 14.2 0.2 7.9 7.9 Prop In Lane 0.63 0.37 0.48 0.52 1.00 0.00 1.00 0.10 0.11 Lane Grp Cap(c), veh/h 220 0 0 62 0 0 354 2072 1138 13 2283 1229 V/C Ratio(X) 0.80 0.00 0.00 0.40 0.00 0.00 0.21 0.50 0.50 0.30 0.34 0.34 Avail Cap(c_a), veh/h 370 0 0 667 0 0 354 2072 1138 15 2283 1229 HCM Platon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Arrive On Green	0.13	0.00	0.13	0.04	0.00	0.04	0.61	0.61	0.61	0.01	0.67	0.67	
Grp Sat Flow(s), veh/h/ln1703	Sat Flow, veh/h	1068	0	635	803	0	870	475	5267	7	1781	5028	208	
O Serve(g_s), s 8.4 0.0 0.0 1.2 0.0 0.0 6.7 14.2 14.2 0.2 7.9 7.9  Cycle O Clear(g_c), s 8.4 0.0 0.0 1.2 0.0 0.0 10.5 14.2 14.2 0.2 7.9 7.9  Prop In Lane 0.63 0.37 0.48 0.52 1.00 0.00 1.00 1.00 0.11  Lane Grp Cap(c), veh/h 220 0 0 62 0 0 354 2072 1138 13 2283 1229  V/C Ratio(X) 0.80 0.00 0.00 0.40 0.00 0.00 0.21 0.50 0.50 0.30 0.34 0.34  Avail Cap(c_a), veh/h 370 0 0 667 0 0 354 2072 1138 151 2283 1229  HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Grp Volume(v), veh/h	177	0	0	25	0	0	74	1037	570	4	767	413	
Cycle Q Clear(g_c), s         8.4         0.0         0.0         1.2         0.0         0.0         10.5         14.2         14.2         0.2         7.9         7.9           Prop In Lane         0.63         0.37         0.48         0.52         1.00         0.00         1.00         0.11           Lane GFD Cap(c), veh/h         220         0         0         62         0         0         354         2072         1138         13         2283         1229           V/C Ratio(X)         0.80         0.00         0.00         0.00         0.00         0.00         0.50         0.30         0.34         0.34           Avail Cap(c_a), veh/h         370         0         0         667         0         0         354         2072         1138         151         2283         1229           HCM Platoon Ratio         1.00 <t< td=""><td>Grp Sat Flow(s), veh/h/l</td><td>n1703</td><td>0</td><td>0</td><td>1674</td><td>0</td><td>0</td><td>475</td><td>1702</td><td>1869</td><td>1781</td><td>1702</td><td>1833</td><td></td></t<>	Grp Sat Flow(s), veh/h/l	n1703	0	0	1674	0	0	475	1702	1869	1781	1702	1833	
Prop In Lane	Q Serve(g_s), s	8.4	0.0	0.0	1.2	0.0	0.0	6.7	14.2	14.2	0.2	7.9	7.9	
Lane Grp Cap(c), veh/h 220 0 0 62 0 0 354 2072 1138 13 2283 1229  V/C Ratio(X) 0.80 0.00 0.00 0.40 0.00 0.00 0.21 0.50 0.50 0.30 0.34 0.34  Avail Cap(c_a), veh/h 370 0 0 667 0 0 354 2072 1138 151 2283 1229  HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Cycle Q Clear(g_c), s	8.4	0.0	0.0	1.2	0.0	0.0	10.5	14.2	14.2	0.2	7.9	7.9	
V/C Ratio(X)         0.80         0.00         0.00         0.40         0.00         0.00         0.21         0.50         0.50         0.30         0.34         0.34           Avail Cap(c_a), veh/h         370         0         0         667         0         0         354         2072         1138         151         2283         1229           HCM Platoon Ratio         1.00<	Prop In Lane	0.63		0.37	0.48		0.52	1.00		0.00	1.00		0.11	
Avail Cap(c_a), veh/h 370 0 0 667 0 0 354 2072 1138 151 2283 1229  HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Lane Grp Cap(c), veh/h	220	0	0	62	0	0	354	2072	1138	13	2283	1229	
HCM Platoon Ratio	V/C Ratio(X)	0.80	0.00	0.00	0.40	0.00	0.00	0.21	0.50	0.50	0.30	0.34	0.34	
Upstream Filter(I) 1.00 0.00 0.00 1.00 0.00 0.00 1.00 1.0	Avail Cap(c_a), veh/h	370	0	0	667	0	0	354	2072	1138	151	2283	1229	
Uniform Delay (d), s/veh35.0 0.0 0.0 39.0 0.0 0.0 9.4 9.1 9.1 40.9 5.8 5.8 Incr Delay (d2), s/veh 6.7 0.0 0.0 4.2 0.0 0.0 1.3 0.9 1.6 12.2 0.4 0.7 Initial Q Delay(d3),s/veh 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Incr Delay (d2), s/veh	Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	
Initial Q Delay(d3),s/veh   0.0	Uniform Delay (d), s/ve	h35.0	0.0	0.0	39.0	0.0	0.0	9.4	9.1	9.1	40.9	5.8	5.8	
%ile BackOfQ(50%),veh/liß.8       0.0       0.0       0.6       0.0       0.7       4.5       5.1       0.1       2.2       2.5         Unsig. Movement Delay, s/veh       LnGrp Delay(d),s/veh       41.7       0.0       0.0       43.2       0.0       10.7       10.0       10.7       53.1       6.2       6.5         LnGrp LOS       D       A       A       D       A       A       B       A       B       D       A       A         Approach Vol, veh/h       177       25       1681       1184         Approach Delay, s/veh       41.7       43.2       10.2       6.5         Approach LOS       D       D       B       A         Timer - Assigned Phs       1       2       4       6       8         Phs Duration (G+Y+Rc), s5.1       54.9       15.2       60.0       7.6         Change Period (Y+Rc), s 4.5       4.5       4.5       4.5         Max Green Setting (Gmaxi), s       44.0       18.0       55.5       33.0         Max Q Clear Time (g_c+13), z       17.2       10.4       10.9       4.2         Green Ext Time (p_c), s       0.0       13.8       0.5       9.5       0.1	Incr Delay (d2), s/veh	6.7	0.0	0.0	4.2	0.0	0.0	1.3	0.9	1.6	12.2	0.4	0.7	
Unsig. Movement Delay, s/veh LnGrp Delay(d),s/veh 41.7 0.0 0.0 43.2 0.0 0.0 10.7 10.0 10.7 53.1 6.2 6.5 LnGrp LOS D A A D A B A B D A A Approach Vol, veh/h 177 25 1681 1184 Approach Delay, s/veh 41.7 43.2 10.2 6.5 Approach LOS D D B A A Timer - Assigned Phs 1 2 4 6 8 Phs Duration (G+Y+Rc), s5.1 54.9 15.2 60.0 7.6 Change Period (Y+Rc), s 4.5 4.5 4.5 4.5 Max Green Setting (Gmax), s 44.0 18.0 55.5 33.0 Max Q Clear Time (g_c+1), 2s 17.2 10.4 10.9 4.2 Green Ext Time (p_c), s 0.0 13.8 0.5 9.5 0.1 Intersection Summary HCM 6th Ctrl Delay 10.9	Initial Q Delay(d3),s/vel	n 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	
LnGrp Delay(d),s/veh       41.7       0.0       0.0       43.2       0.0       0.0       10.7       10.0       10.7       53.1       6.2       6.5         LnGrp LOS       D       A       A       D       A       A       B       A       B       D       A       A         Approach Vol, veh/h       177       25       1681       1184         Approach Delay, s/veh       41.7       43.2       10.2       6.5         Approach LOS       D       D       B       A         Timer - Assigned Phs       1       2       4       6       8         Phs Duration (G+Y+Rc), s5.1       54.9       15.2       60.0       7.6         Change Period (Y+Rc), s 4.5       4.5       4.5       4.5         Max Green Setting (Gmax), (s. 44.0       18.0       55.5       33.0         Max Q Clear Time (g_c+13), 2s       17.2       10.4       10.9       4.2         Green Ext Time (p_c), s 0.0       13.8       0.5       9.5       0.1         Intersection Summary         HCM 6th Ctrl Delay				0.0	0.6	0.0	0.0	0.7	4.5	5.1	0.1	2.2	2.5	
LnGrp LOS         D         A         A         D         A         B         A         B         D         A           Approach Vol, veh/h         177         25         1681         1184           Approach Delay, s/veh         41.7         43.2         10.2         6.5           Approach LOS         D         D         B         A           Timer - Assigned Phs         1         2         4         6         8           Phs Duration (G+Y+Rc), s5.1         54.9         15.2         60.0         7.6           Change Period (Y+Rc), s 4.5         4.5         4.5         4.5           Max Green Setting (Gmax/), 6         44.0         18.0         55.5         33.0           Max Q Clear Time (g_c+13,2s         17.2         10.4         10.9         4.2           Green Ext Time (p_c), s 0.0         13.8         0.5         9.5         0.1           Intersection Summary           HCM 6th Ctrl Delay         10.9		y, s/veł	1											
Approach Vol, veh/h 177 25 1681 1184 Approach Delay, s/veh 41.7 43.2 10.2 6.5 Approach LOS D D B A  Timer - Assigned Phs 1 2 4 6 8  Phs Duration (G+Y+Rc), s5.1 54.9 15.2 60.0 7.6 Change Period (Y+Rc), s 4.5 4.5 4.5 4.5 Max Green Setting (Gmax), s 44.0 18.0 55.5 33.0 Max Q Clear Time (g_c+1), 2s 17.2 10.4 10.9 4.2 Green Ext Time (p_c), s 0.0 13.8 0.5 9.5 0.1  Intersection Summary HCM 6th Ctrl Delay 10.9	. , , ,	41.7			43.2		0.0	10.7	10.0				6.5	
Approach Delay, s/veh 41.7 43.2 10.2 6.5 Approach LOS D D B A  Timer - Assigned Phs 1 2 4 6 8  Phs Duration (G+Y+Rc), s5.1 54.9 15.2 60.0 7.6 Change Period (Y+Rc), s 4.5 4.5 4.5 4.5 Max Green Setting (Gmax), s 44.0 18.0 55.5 33.0 Max Q Clear Time (g_c+I3), 2 17.2 10.4 10.9 4.2 Green Ext Time (p_c), s 0.0 13.8 0.5 9.5 0.1  Intersection Summary HCM 6th Ctrl Delay 10.9		D		A	D		A	В		В	D		A	
Approach LOS D D B A  Timer - Assigned Phs 1 2 4 6 8  Phs Duration (G+Y+Rc), s5.1 54.9 15.2 60.0 7.6  Change Period (Y+Rc), s 4.5 4.5 4.5 4.5  Max Green Setting (Gmax), s 44.0 18.0 55.5 33.0  Max Q Clear Time (g_c+I3), 2 17.2 10.4 10.9 4.2  Green Ext Time (p_c), s 0.0 13.8 0.5 9.5 0.1  Intersection Summary  HCM 6th Ctrl Delay 10.9	Approach Vol, veh/h		177						1681					
Timer - Assigned Phs 1 2 4 6 8  Phs Duration (G+Y+Rc), s5.1 54.9 15.2 60.0 7.6  Change Period (Y+Rc), s 4.5 4.5 4.5 4.5  Max Green Setting (Gmax), s 44.0 18.0 55.5 33.0  Max Q Clear Time (g_c+I3), s 17.2 10.4 10.9 4.2  Green Ext Time (p_c), s 0.0 13.8 0.5 9.5 0.1  Intersection Summary  HCM 6th Ctrl Delay 10.9						43.2								
Phs Duration (G+Y+Rc), s5.1 54.9 15.2 60.0 7.6 Change Period (Y+Rc), s 4.5 4.5 4.5 4.5 Max Green Setting (Gmax), s 44.0 18.0 55.5 33.0 Max Q Clear Time (g_c+13), s 17.2 10.4 10.9 4.2 Green Ext Time (p_c), s 0.0 13.8 0.5 9.5 0.1  Intersection Summary HCM 6th Ctrl Delay 10.9	Approach LOS		D			D			В			Α		
Phs Duration (G+Y+Rc), s5.1 54.9 15.2 60.0 7.6 Change Period (Y+Rc), s 4.5 4.5 4.5 4.5 Max Green Setting (Gmax), s 44.0 18.0 55.5 33.0 Max Q Clear Time (g_c+13), s 17.2 10.4 10.9 4.2 Green Ext Time (p_c), s 0.0 13.8 0.5 9.5 0.1  Intersection Summary HCM 6th Ctrl Delay 10.9	Timer - Assigned Phs	1	2		4		6		8					
Change Period (Y+Rc), s 4.5 4.5 4.5 4.5 4.5 Max Green Setting (Gmax), s 44.0 18.0 55.5 33.0 Max Q Clear Time (g_c+l1), 2s 17.2 10.4 10.9 4.2 Green Ext Time (p_c), s 0.0 13.8 0.5 9.5 0.1 Intersection Summary  HCM 6th Ctrl Delay 10.9		), s5.1	54.9		15.2		60.0		7.6					
Max Green Setting (Gmax), 0s       44.0       18.0       55.5       33.0         Max Q Clear Time (g_c+l1), 2s       17.2       10.4       10.9       4.2         Green Ext Time (p_c), s       0.0       13.8       0.5       9.5       0.1         Intersection Summary         HCM 6th Ctrl Delay       10.9	,													
Max Q Clear Time (g_c+13),2s       17.2       10.4       10.9       4.2         Green Ext Time (p_c), s       0.0       13.8       0.5       9.5       0.1         Intersection Summary         HCM 6th Ctrl Delay       10.9														
Green Ext Time (p_c), s 0.0 13.8         0.5         9.5         0.1           Intersection Summary         HCM 6th Ctrl Delay         10.9														
HCM 6th Ctrl Delay 10.9														
HCM 6th Ctrl Delay 10.9	Intersection Summary													
,				10.9										
	HCM 6th LOS			В										

Intersection						
	3.8					
Int Delay, s/veh						
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations		7		<b>^</b>	<b>↑</b> ↑	
Traffic Vol, veh/h	0	114	0	81	54	50
Future Vol, veh/h	0	114	0	81	54	50
Conflicting Peds, #/hr	0	0	0	0	0	0
•	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage,	# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	124	0	88	59	54
WWW. Tiow	Ū			00	07	01
	nor2		/lajor1		Major2	
Conflicting Flow All	-	57	-	0	-	0
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	7.14	-	-	-	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	3.92	-	-	-	-
Pot Cap-1 Maneuver	0	846	0	_	-	-
Stage 1	0	-	0	-	_	_
Stage 2	0	_	0	_	_	_
Platoon blocked, %				_	_	_
Mov Cap-1 Maneuver	_	846	_	_	_	_
Mov Cap-1 Maneuver	_	- 040	_		_	
Stage 1	_	_	_	_	-	
	-	_	_	-	_	-
Stage 2	-	-	-	-	-	-
Approach	EB		NB		SB	
HCM Control Delay, s	10		0		0	
HCM LOS	В					
		NET	-DL 4	057	000	
Minor Lane/Major Mvmt		NBT E		SBT	SBR	
Capacity (veh/h)		-	846	-	-	
HCM Lane V/C Ratio		-	0.146	-	-	
HCM Control Delay (s)		-	10	-	-	

	۶	<b>→</b>	•	•	<b>←</b>	•	•	<b>†</b>	~	-	ļ	1
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	f)		¥	f)		ň	ተተ <sub>ጉ</sub>		ř	ተተ <sub>ጉ</sub>	
Traffic Volume (veh/h)	168	6	106	53	13	119	236	1347	55	132	912	120
Future Volume (veh/h)	168	6	106	53	13	119	236	1347	55	132	912	120
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	175	6	110	55	14	124	246	1403	57	138	950	125
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	436	24	438	455	47	418	360	2587	105	276	2348	308
Arrive On Green	0.29	0.29	0.29	0.29	0.29	0.29	0.51	0.51	0.51	0.51	0.51	0.51
Sat Flow, veh/h	1251	83	1515	1276	163	1447	525	5033	204	364	4567	599
Grp Volume(v), veh/h	175	0	116	55	0	138	246	949	511	138	707	368
Grp Sat Flow(s), veh/h/ln	1251	0	1598	1276	0	1610	525	1702	1834	364	1702	1763
Q Serve(g_s), s	5.8	0.0	2.5	1.6	0.0	3.0	17.6	8.6	8.6	14.9	5.8	5.9
Cycle Q Clear(g_c), s	8.8	0.0	2.5	4.1	0.0	3.0	23.5	8.6	8.6	23.5	5.8	5.9
Prop In Lane	1.00		0.95	1.00		0.90	1.00		0.11	1.00		0.34
Lane Grp Cap(c), veh/h	436	0	462	455	0	465	360	1750	943	276	1750	906
V/C Ratio(X)	0.40	0.00	0.25	0.12	0.00	0.30	0.68	0.54	0.54	0.50	0.40	0.41
Avail Cap(c_a), veh/h	2469	0	3058	2529	0	3082	360	1750	943	276	1750	906
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	16.1	0.0	12.5	14.0	0.0	12.6	15.6	7.5	7.5	16.4	6.8	6.8
Incr Delay (d2), s/veh	0.6	0.0	0.3	0.1	0.0	0.4	10.1	1.2	2.2	6.3	0.7	1.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.5	0.0	0.8	0.4	0.0	1.0	3.1	2.2	2.6	1.6	1.4	1.7
Unsig. Movement Delay, s/vel	h											
LnGrp Delay(d),s/veh	16.7	0.0	12.7	14.2	0.0	13.0	25.7	8.7	9.7	22.8	7.5	8.2
LnGrp LOS	В	Α	В	В	Α	В	С	Α	Α	С	Α	Α
Approach Vol, veh/h		291			193			1706			1213	
Approach Delay, s/veh		15.1			13.3			11.4			9.4	
Approach LOS		В			В			В			А	
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		28.0		17.7		28.0		17.7				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		23.5		87.5		23.5		87.5				
Max Q Clear Time (q_c+l1), s		26.5		11.8		26.5		7.1				
Green Ext Time (p_c), s		0.0		1.4		0.0		1.1				
Intersection Summary												
HCM 6th Ctrl Delay			11.2									
HCM 6th LOS			11.2 B									
Notes			<i>D</i>									

User approved pedestrian interval to be less than phase max green.

Intersection						
Int Delay, s/veh	6.3					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	, A4		₽.			र्स
Traffic Vol, veh/h	22	17	0	17	14	0
Future Vol, veh/h	22	17	0	17	14	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storag		-	0	-	-	0
Grade, %	0	-	0	_	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	24	18	0	18	15	0
WWITH TOW	27	10	U	10	10	U
Major/Minor	Minor1	N	/lajor1	1	Major2	
Conflicting Flow All	39	9	0	0	18	0
Stage 1	9	-	-	-	-	-
Stage 2	30	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	_
Critical Hdwy Stg 1	5.42	-	_	_	-	_
Critical Hdwy Stg 2	5.42	_	_	_	_	_
Follow-up Hdwy	3.518	3 318	_	_	2.218	_
Pot Cap-1 Maneuver	973	1073	_	_	1599	_
Stage 1	1014	-	_	_	-	_
Stage 1	993		-	-		-
Platoon blocked, %	773	-		-	-	-
	0/4	1072		-	1500	
Mov Cap-1 Maneuver		1073	-	-	1599	-
Mov Cap-2 Maneuver		-	-	-	-	-
Stage 1	1014	-	-	-	-	-
Stage 2	984	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s			0		7.3	
HCM LOS	6.7 A		U		1.3	
HOW LUS	A					
Minor Lane/Major Mvr	nt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		-		1009	1599	-
HCM Lane V/C Ratio		_		0.042	0.01	_
HCM Control Delay (s	;)	_	-		7.3	0
HCM Lane LOS	7	_	_	Α	Α.	A
HCM 95th %tile Q(vel	n)		_	0.1	0	-
HOW 75th 70the Q(Ver	1)	_		U. I	U	_

	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	ħ	<b>^</b>	7	ሻ	<b>^</b>	7	7	<b>₽</b>			र्स	7
Traffic Volume (veh/h)	68	751	5	6	631	133	3	1	12	157	1	49
Future Volume (veh/h)	68	751	5	6	631	133	3	1	12	157	1	49
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	1070	No	4070	4070	No	4070	4070	No	4070	4070	No	4070
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	70	774	5	6	651	137	3	1	12	162	1	51
Peak Hour Factor	0.97	0.97	0.97 2	0.97	0.97 2	0.97	0.97	0.97	0.97	0.97 2	0.97	0.97
Percent Heavy Veh, %	223	2 1209	539	199	1209	2 539	2 744	2 67	2 809	847	2 5	867
Cap, veh/h Arrive On Green	0.34	0.34	0.34	0.34	0.34	0.34	0.55	0.55	0.55	0.55	0.55	0.55
Sat Flow, veh/h	687	3554	1585	693	3554	1585	1352	123	1480	1385	9	1585
Grp Volume(v), veh/h	70	774	5	6	651	137	3	0	13	163	0	51
Grp Sat Flow(s), veh/h/ln	687	1777	1585	693	1777	1585	1352	0	1604	1394	0	1585
Q Serve(g_s), s	7.3	14.6	0.2	0.6	11.8	5.0	0.1	0.0	0.3	4.8	0.0	1.2
Cycle Q Clear(g_c), s	19.1	14.6	0.2	15.2	11.8	5.0	5.1	0.0	0.3	5.1	0.0	1.2
Prop In Lane	1.00	17.0	1.00	1.00	11.0	1.00	1.00	0.0	0.92	0.99	0.0	1.00
Lane Grp Cap(c), veh/h	223	1209	539	199	1209	539	744	0	877	852	0	867
V/C Ratio(X)	0.31	0.64	0.01	0.03	0.54	0.25	0.00	0.00	0.01	0.19	0.00	0.06
Avail Cap(c_a), veh/h	313	1675	747	290	1675	747	744	0	877	852	0	867
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	28.9	22.1	17.4	28.6	21.2	19.0	10.7	0.0	8.2	9.4	0.0	8.4
Incr Delay (d2), s/veh	0.8	0.6	0.0	0.1	0.4	0.2	0.0	0.0	0.0	0.5	0.0	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/In	1.2	5.7	0.1	0.1	4.5	1.7	0.0	0.0	0.1	1.3	0.0	0.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	29.7	22.7	17.4	28.6	21.6	19.2	10.7	0.0	8.3	9.9	0.0	8.6
LnGrp LOS	С	С	В	С	С	В	В	A	A	А	A	<u>A</u>
Approach Vol, veh/h		849			794			16			214	
Approach Delay, s/veh		23.3			21.2			8.7			9.6	
Approach LOS		С			С			А			Α	
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		48.0		31.6		48.0		31.6				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		43.5		37.5		43.5		37.5				
Max Q Clear Time (g_c+l1), s		8.1		22.1		8.1		18.2				
Green Ext Time (p_c), s		0.0		5.0		1.0		4.5				
Intersection Summary												
HCM 6th Ctrl Delay			20.7									
HCM 6th LOS			С									

Movement
Traffic Volume (veh/h)
Future Volume (veh/h)
Initial Q (Qb), veh
Ped-Bike Adj(A_pbT)         1.00 </td
Parking Bus, Adj         1.00
Work Zone On Approach         No         No         No         No         No         No         No         Adj Sat Flow, veh/h/In         1870         0         0         96         0.96
Adj Sat Flow, veh/h/In         1870         0
Adj Flow Rate, veh/h         45         903         0         23         780         10         1         0         0         7         0         19           Peak Hour Factor         0.96         0.
Peak Hour Factor         0.96
Percent Heavy Veh, % 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Cap, veh/h         223         1858         0         237         1293         577         818         964         0         244         32         585           Arrive On Green         0.36         0.36         0.36         0.36         0.36         0.52         0.00         0.00         0.52         0.00         0.52           Sat Flow, veh/h         686         5274         0         617         3554         1585         1393         1870         0         355         63         1135           Grp Volume(v), veh/h         45         903         0         23         780         10         1         0         0         26         0         0           Grp Sat Flow(s),veh/h/ln 686         1702         0         617         1777         1585         1393         1870         0         1553         0         0           Q Serve(g_s), s         4.3         10.2         0.0         2.2         13.4         0.3         0.0         0.0         0.0         0.0         0.0           Cycle Q Clear(g_c), s         17.6         10.2         0.0         12.4         13.4         0.3         0.0         0.0         0.6         0.0         0.0
Arrive On Green 0.36 0.36 0.00 0.36 0.36 0.36 0.52 0.00 0.00 0.52 0.00 0.52 Sat Flow, veh/h 686 5274 0 617 3554 1585 1393 1870 0 355 63 1135  Grp Volume(v), veh/h 45 903 0 23 780 10 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Sat Flow, veh/h         686         5274         0         617         3554         1585         1393         1870         0         355         63         1135           Grp Volume(v), veh/h         45         903         0         23         780         10         1         0         0         26         0         0           Grp Sat Flow(s), veh/h/ln         686         1702         0         617         1777         1585         1393         1870         0         1553         0         0           Q Serve(g_s), s         4.3         10.2         0.0         2.2         13.4         0.3         0.0
Grp Volume(v), veh/h         45         903         0         23         780         10         1         0         0         26         0         0           Grp Sat Flow(s),veh/h/ln 686         1702         0         617         1777         1585         1393         1870         0         1553         0         0           Q Serve(g_s), s         4.3         10.2         0.0         2.2         13.4         0.3         0.0         0.0         0.0         0.0         0.0           Cycle Q Clear(g_c), s         17.6         10.2         0.0         12.4         13.4         0.3         0.0         0.0         0.6         0.0         0.0           Prop In Lane         1.00         0.00         1.00         1.00         1.00         0.0         0.27         0.73           Lane Grp Cap(c), veh/h         223         1858         0         237         1293         577         818         964         0         862         0         0           V/C Ratio(X)         0.20         0.49         0.00         0.10         0.60         0.02         0.00         0.00         0.00         0.00         0.00           Avail Cap(c_a), veh/h <td< td=""></td<>
Grp Sat Flow(s), veh/h/ln 686       1702       0       617       1777       1585       1393       1870       0       1553       0       0         Q Serve(g_s), s       4.3       10.2       0.0       2.2       13.4       0.3       0.0       0.0       0.0       0.0       0.0       0.0         Cycle Q Clear(g_c), s       17.6       10.2       0.0       12.4       13.4       0.3       0.0       0.0       0.6       0.0       0.0         Prop In Lane       1.00       0.00       1.00       1.00       1.00       0.0       0.27       0.73         Lane Grp Cap(c), veh/h       223       1858       0       237       1293       577       818       964       0       862       0       0         V/C Ratio(X)       0.20       0.49       0.00       0.10       0.60       0.02       0.00       0.00       0.00       0.00       0.00       0.00         Avail Cap(c_a), veh/h       364       2906       0       363       2023       902       818       964       0       862       0       0         HCM Platoon Ratio       1.00       1.00       1.00       1.00       1.00       1.00
Q Serve(g_s), s       4.3       10.2       0.0       2.2       13.4       0.3       0.0
Cycle Q Clear(g_c), s       17.6       10.2       0.0       12.4       13.4       0.3       0.0 <t< td=""></t<>
Prop In Lane       1.00       0.00       1.00       1.00       1.00       0.00       0.27       0.73         Lane Grp Cap(c), veh/h       223       1858       0       237       1293       577       818       964       0       862       0       0         V/C Ratio(X)       0.20       0.49       0.00       0.10       0.60       0.02       0.00       0.00       0.03       0.00       0.00         Avail Cap(c_a), veh/h       364       2906       0       363       2023       902       818       964       0       862       0       0         HCM Platoon Ratio       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00
Lane Grp Cap(c), veh/h       223       1858       0       237       1293       577       818       964       0       862       0       0         V/C Ratio(X)       0.20       0.49       0.00       0.10       0.60       0.02       0.00       0.00       0.00       0.03       0.00       0.00         Avail Cap(c_a), veh/h       364       2906       0       363       2023       902       818       964       0       862       0       0         HCM Platoon Ratio       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00
V/C Ratio(X)       0.20       0.49       0.00       0.10       0.60       0.02       0.00       0.00       0.03       0.00       0.00         Avail Cap(c_a), veh/h       364       2906       0       363       2023       902       818       964       0       862       0       0         HCM Platoon Ratio       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00
Avail Cap(c_a), veh/h 364 2906 0 363 2023 902 818 964 0 862 0 0 HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0
HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0
Unstream Filter(I) 100 100 100 100 100 100 100 000 100 000 100 000
Uniform Delay (d), s/veh26.5 18.4 0.0 23.2 19.4 15.2 8.8 0.0 0.0 8.9 0.0 0.0
Incr Delay (d2), s/veh 0.4 0.2 0.0 0.2 0.5 0.0 0.0 0.0 0.0 0.1 0.0 0.0
Initial Q Delay(d3),s/veh 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.
%ile BackOfQ(50%),veh/lø.7 3.6 0.0 0.3 5.0 0.1 0.0 0.0 0.0 0.0 0.2 0.0 0.0
Unsig. Movement Delay, s/veh
LnGrp Delay(d),s/veh 27.0 18.6 0.0 23.3 19.8 15.2 8.8 0.0 0.0 9.0 0.0 0.0
LnGrp LOS C B A C B B A A A A A
Approach Vol, veh/h 948 813 1 26
Approach Delay, s/veh 19.0 19.9 8.8 9.0
Approach LOS B B A A
Timer - Assigned Phs 2 4 6 8
Phs Duration (G+Y+Rc), s 43.0 31.7 43.0 31.7
Change Period (Y+Rc), s 4.5 4.5 4.5
Max Green Setting (Gmax), s 38.5 42.5 38.5 42.5
Max Q Clear Time (g_c+l1), s 3.0 20.6 3.6 16.4
Green Ext Time (p_c), s 0.0 6.5 0.1 5.8
Intersection Summary
HCM 6th Ctrl Delay 19.2
HCM 6th LOS B

و		<b>→</b>	•	•	<b>←</b>	•	•	<b>†</b>	/	<b>/</b>	<b>↓</b>	✓	
Movement EB	3L	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ሻ	<b>^</b>	7	ሻ	<b>^</b>	7	1/1	<del>ተ</del> ተጉ		ሻ	<del>ተ</del> ተጉ		
	96	374	430	155	315	145	409	1367	182	135	916	67	
Future Volume (veh/h) 9	96	374	430	155	315	145	409	1367	182	135	916	67	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT) 1.0	00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Parking Bus, Adj 1.0	00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach		No			No			No			No		
Adj Sat Flow, veh/h/ln 187	0	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h 10	00	390	448	161	328	151	426	1424	190	141	954	70	
Peak Hour Factor 0.9	96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2	
Cap, veh/h 39	)1	1373	612	298	1373	612	586	2261	302	178	2409	176	
Arrive On Green 0.3	39	0.39	0.39	0.39	0.39	0.39	0.50	0.50	0.50	0.50	0.50	0.50	
Sat Flow, veh/h 91	6	3554	1585	656	3554	1585	1068	4557	608	313	4855	355	
Grp Volume(v), veh/h 10	00	390	448	161	328	151	426	1063	551	141	668	356	
Grp Sat Flow(s),veh/h/ln 91	6	1777	1585	656	1777	1585	534	1702	1761	313	1702	1806	
Q Serve(g_s), s 6.		5.8	18.5	17.2	4.8	4.9	28.5	17.5	17.5	20.5	9.4	9.5	
Cycle Q Clear(g_c), s 11.	.1	5.8	18.5	23.0	4.8	4.9	38.0	17.5	17.5	38.0	9.4	9.5	
Prop In Lane 1.0			1.00	1.00		1.00	1.00		0.35	1.00		0.20	
Lane Grp Cap(c), veh/h 39		1373	612	298	1373	612	586	1689	874	178	1689	896	
V/C Ratio(X) 0.2		0.28	0.73	0.54	0.24	0.25	0.73	0.63	0.63	0.79	0.40	0.40	
Avail Cap(c_a), veh/h 55		1995	890	413	1995	890	586	1689	874	178	1689	896	
HCM Platoon Ratio 1.0		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I) 1.0		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/veh19.		16.2	20.1	24.1	15.9	15.9	25.0	14.1	14.1	32.2	12.1	12.1	
Incr Delay (d2), s/veh 0.		0.1	1.7	1.5	0.1	0.2	7.7	1.8	3.4	29.5	0.7	1.3	
nitial Q Delay(d3),s/veh 0.		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln1		2.1	6.4	2.5	1.8	1.7	4.2	6.1	6.7	4.0	3.2	3.6	
Unsig. Movement Delay, s/													
LnGrp Delay(d),s/veh 20.		16.3	21.9	25.6	16.0	16.1	32.6	15.9	17.6	61.7	12.8	13.4	
. , , ,	В	В	С	С	В	В	С	В	В	Е	В	В	
Approach Vol, veh/h		938			640			2040			1165		
Approach Delay, s/veh		19.4			18.4			19.9			18.9		
Approach LOS		В			В			В			В		
		_				,		_					
Timer - Assigned Phs		2		4		6		8					
Phs Duration (G+Y+Rc), s		42.5		34.1		42.5		34.1					
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5					
Max Green Setting (Gmax)		38.0		43.0		38.0		43.0					
Max Q Clear Time (g_c+I1)	, S	41.0		21.5		41.0		26.0					
Green Ext Time (p_c), s		0.0		4.6		0.0		3.6					
Intersection Summary													
HCM 6th Ctrl Delay			19.3										
HCM 6th LOS			В										

•	<b>→</b>	$\rightarrow$	•	•	•	•	<b>†</b>	/	/	ļ	4	
Movement EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations			- 1	4	7	ሻሻ	ተተተ			1111	7	
Traffic Volume (veh/h) 0	0	0	347	4	486	291	1413	0	0	985	470	
Future Volume (veh/h) 0		0	347	4	486	291	1413	0	0	985	470	
Initial Q (Qb), veh	· ·	U	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)			1.00	U	1.00	1.00	U	1.00	1.00	U	1.00	
Parking Bus, Adj			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach			1.00	No	1.00	1.00	No	1.00	1.00	No	1.00	
Adj Sat Flow, veh/h/ln			1870	1870	1870	1870	1870	0	0	1870	1870	
Adj Flow Rate, veh/h			549	0	318	306	1487	0	0	1037	495	
Peak Hour Factor			0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	
Percent Heavy Veh, %			2	2	2	2	2	0.73	0.73	2	2	
Cap, veh/h			892	0	397	549	3282	0	0	4136	1019	
Arrive On Green			0.25	0.00	0.25	0.64	0.64	0.00	0.00	0.64	0.64	
Sat Flow, veh/h			3563	0.00	1585	658	5274	0.00	0.00	6696	1585	
Grp Volume(v), veh/h			549	0	318	306	1487	0	0	1037	495	
Grp Sat Flow(s), veh/h/ln			1781	0	1585	329	1702	0	0	1609	1585	
Q Serve(g_s), s			11.5	0.0	15.8	31.1	12.4	0.0	0.0	5.8	13.7	
Cycle Q Clear(g_c), s			11.5	0.0	15.8	36.9	12.4	0.0	0.0	5.8	13.7	
Prop In Lane			1.00	•	1.00	1.00	0000	0.00	0.00	1407	1.00	
Lane Grp Cap(c), veh/h			892	0	397	549	3282	0	0	4136	1019	
V/C Ratio(X)			0.62	0.00	0.80	0.56	0.45	0.00	0.00	0.25	0.49	
Avail Cap(c_a), veh/h			1139	0	507	549	3282	0	0	4136	1019	
HCM Platoon Ratio			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)			1.00	0.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00	
Uniform Delay (d), s/veh			28.0	0.0	29.6	14.3	7.6	0.0	0.0	6.4	7.8	
Incr Delay (d2), s/veh			0.7	0.0	7.1	4.0	0.5	0.0	0.0	0.1	1.7	
Initial Q Delay(d3),s/veh			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln			4.8	0.0	6.6	2.2	3.6	0.0	0.0	1.6	4.1	
Unsig. Movement Delay, s/ve	eh											
LnGrp Delay(d),s/veh			28.7	0.0	36.7	18.3	8.0	0.0	0.0	6.5	9.5	
LnGrp LOS			С	Α	D	В	Α	Α	Α	Α	Α	
Approach Vol, veh/h				867			1793			1532		
Approach Delay, s/veh				31.6			9.8			7.5		
Approach LOS				С			Α			Α		
Timer - Assigned Phs	2				6		8					
Phs Duration (G+Y+Rc), s	58.6				58.6		25.6					
Change Period (Y+Rc), s	4.5				4.5		4.5					
Max Green Setting (Gmax), s					54.1		26.9					
Max Q Clear Time (q_c+l1),					16.7		18.8					
Green Ext Time (p_c), s	11.5				11.3		2.2					
, — <i>,</i>	11.3				11.3		2.2					
Intersection Summary		10.5										
HCM 6th Ctrl Delay		13.5										
HCM 6th LOS		В										
Notes												

User approved volume balancing among the lanes for turning movement.

	ᄼ	-	$\searrow$	•	•	•	^	<b>†</b>	/	-	<b>↓</b>	4	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	*	4	7					<del>ተ</del> ተጉ		ሻሻ	<b>^</b>		
Traffic Volume (veh/h)	590	0	312	0	0	0	0	1119	449	421	911	0	
Future Volume (veh/h)	590	0	312	0	0	0	0	1119	449	421	911	0	
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		1.00	1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No						No			No		
	1870	1870	1870				0	1870	1870	1870	1870	0	
Adj Flow Rate, veh/h	723	0	219				0	1178	473	443	959	0	
Peak Hour Factor	0.95	0.95	0.95				0.95	0.95	0.95	0.95	0.95	0.95	
Percent Heavy Veh, %	2	2	2				0	2	2	2	2	0	
Cap, veh/h	713	0	317				0	2507	1004	484	2488	0	
Arrive On Green	0.20	0.00	0.20				0.00	0.70	0.70	0.70	0.70	0.00	
Sat Flow, veh/h	3563	0	1585				0	3750	1435	587	3647	0	
Grp Volume(v), veh/h	723	0	219				0	1120	531	443	959	0	
Grp Sat Flow(s), veh/h/li		0	1585				0	1702	1612	293	1777	0	
Q Serve(g_s), s	18.0	0.0	11.5				0.0	13.2	13.3	49.7	10.0	0.0	
Cycle Q Clear(g_c), s	18.0	0.0	11.5				0.0	13.2	13.3	63.0	10.0	0.0	
Prop In Lane	1.00	0.0	1.00				0.00	10.2	0.89	1.00	10.0	0.00	
Lane Grp Cap(c), veh/h		0	317				0	2383	1128	484	2488	0.00	
V/C Ratio(X)	1.01	0.00	0.69				0.00	0.47	0.47	0.91	0.39	0.00	
Avail Cap(c_a), veh/h	713	0.00	317				0	2383	1128	484	2488	0.00	
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	0.00	1.00				0.00	1.00	1.00	1.00	1.00	0.00	
Uniform Delay (d), s/vel		0.0	33.4				0.0	6.0	6.0	26.8	5.5	0.0	
Incr Delay (d2), s/veh	37.4	0.0	6.3				0.0	0.7	1.4	24.4	0.5	0.0	
Initial Q Delay(d3),s/veh		0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),vel		0.0	4.9				0.0	3.7	3.7	6.4	2.9	0.0	
Unsig. Movement Delay													
LnGrp Delay(d),s/veh	73.4	0.0	39.7				0.0	6.7	7.5	51.2	6.0	0.0	
LnGrp LOS	F	Α	D				Α	Α	Α	D	А	А	
Approach Vol, veh/h		942						1651			1402		
Approach Delay, s/veh		65.6						6.9			20.3		
Approach LOS		E						A			C		
Timer - Assigned Phs		2		4		6							
Phs Duration (G+Y+Rc)	), S	67.5		22.5		67.5							
Change Period (Y+Rc),		4.5		4.5		4.5							
Max Green Setting (Gm		63.0		18.0		63.0							
Max Q Clear Time (g_c		16.3		21.0		66.0							
Green Ext Time (p_c), s	5	16.9		0.0		0.0							
ntersection Summary													
HCM 6th Ctrl Delay			25.5										
HCM 6th LOS			С										
Votes													

User approved volume balancing among the lanes for turning movement.

	•	<b>←</b>	•	1	<b>†</b>	ļ	4
Lane Group	WBL	WBT	WBR	NBL	NBT	SBT	SBR
Lane Group Flow (vph)	299	289	267	145	635	1116	528
v/c Ratio	0.65	0.64	0.46	0.30	0.20	0.29	0.45
Control Delay	31.6	27.0	7.5	11.6	8.1	8.4	2.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.3
Total Delay	31.6	27.0	7.5	11.6	8.1	8.4	2.6
Queue Length 50th (ft)	134	113	14	15	44	66	0
Queue Length 95th (ft)	213	194	69	45	89	122	46
Internal Link Dist (ft)		685			265	350	
Turn Bay Length (ft)				150			
Base Capacity (vph)	723	690	776	478	3104	3912	1172
Starvation Cap Reductn	0	0	0	0	0	0	193
Spillback Cap Reductn	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0
Reduced v/c Ratio	0.41	0.42	0.34	0.30	0.20	0.29	0.54
Intersection Summary							

	•	<b>→</b>	•	<b>†</b>	<b>\</b>	ļ
Lane Group	EBL	EBT	EBR	NBT	SBL	SBT
Lane Group Flow (vph)	166	160	152	934	475	1142
v/c Ratio	0.62	0.51	0.44	0.26	0.62	0.44
Control Delay	43.8	22.0	13.1	2.6	10.7	5.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	1.1
Total Delay	43.8	22.0	13.1	2.6	10.7	6.5
Queue Length 50th (ft)	88	39	12	28	54	108
Queue Length 95th (ft)	154	103	66	48	120	167
Internal Link Dist (ft)		657		520		265
Turn Bay Length (ft)						
Base Capacity (vph)	355	386	417	3615	770	2600
Starvation Cap Reductn	0	0	0	0	0	1121
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.47	0.41	0.36	0.26	0.62	0.77
Intersection Summary						

	•	<b>←</b>	•	4	<b>†</b>	ļ	4
Lane Group	WBL	WBT	WBR	NBL	NBT	SBT	SBR
Lane Group Flow (vph)	278	268	255	298	1374	916	414
v/c Ratio	0.67	0.66	0.63	0.46	0.42	0.22	0.36
Control Delay	35.8	30.8	29.1	11.8	8.5	7.0	1.8
Queue Delay	0.0	0.0	0.0	0.0	0.6	0.0	0.3
Total Delay	35.8	30.8	29.1	11.8	9.0	7.0	2.1
Queue Length 50th (ft)	134	112	100	36	115	52	0
Queue Length 95th (ft)	216	197	177	84	184	85	36
Internal Link Dist (ft)		685			265	350	
Turn Bay Length (ft)				150			
Base Capacity (vph)	586	551	554	650	3265	4115	1164
Starvation Cap Reductn	0	0	0	0	1332	0	272
Spillback Cap Reductn	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0
Reduced v/c Ratio	0.47	0.49	0.46	0.46	0.71	0.22	0.46
Intersection Summary							

	•	<b>→</b>	•	<b>†</b>	-	<b>↓</b>
Lane Group	EBL	EBT	EBR	NBT	SBL	SBT
Lane Group Flow (vph)	301	297	270	1590	363	909
v/c Ratio	0.91	0.91	0.59	0.45	1.12	0.37
Control Delay	68.5	66.8	15.7	5.1	103.5	5.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.9
Total Delay	68.5	66.8	15.7	5.1	103.5	6.8
Queue Length 50th (ft)	176	171	35	98	~123	94
Queue Length 95th (ft)	#334	#337	117	123	#115	122
Internal Link Dist (ft)		657		520		265
Turn Bay Length (ft)						
Base Capacity (vph)	337	332	461	3502	325	2488
Starvation Cap Reductn	0	0	0	0	0	1209
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.89	0.89	0.59	0.45	1.12	0.71

#### Intersection Summary

Volume exceeds capacity, queue is theoretically infinite.
 Queue shown is maximum after two cycles.
 # 95th percentile volume exceeds capacity, queue may be longer.
 Queue shown is maximum after two cycles.

	•	<b>←</b>	•	4	<b>†</b>	ļ	4
Lane Group	WBL	WBT	WBR	NBL	NBT	SBT	SBR
Lane Group Flow (vph)	307	296	273	148	648	1142	541
v/c Ratio	0.66	0.64	0.48	0.32	0.21	0.29	0.46
Control Delay	31.9	27.3	8.3	12.1	8.2	8.6	2.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.3
Total Delay	31.9	27.3	8.3	12.1	8.2	8.6	2.7
Queue Length 50th (ft)	138	117	21	16	46	69	0
Queue Length 95th (ft)	220	201	78	48	91	125	46
Internal Link Dist (ft)		685			265	350	
Turn Bay Length (ft)				150			
Base Capacity (vph)	721	688	770	459	3092	3897	1174
Starvation Cap Reductn	0	0	0	0	0	0	189
Spillback Cap Reductn	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0
Reduced v/c Ratio	0.43	0.43	0.35	0.32	0.21	0.29	0.55
Intersection Summary							

	•	<b>→</b>	•	<b>†</b>	<b>\</b>	ļ
Lane Group	EBL	EBT	EBR	NBT	SBL	SBT
Lane Group Flow (vph)	170	164	156	952	488	1167
v/c Ratio	0.63	0.52	0.45	0.26	0.65	0.45
Control Delay	44.2	22.3	14.5	2.6	11.8	5.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	1.1
Total Delay	44.2	22.3	14.5	2.6	11.8	6.7
Queue Length 50th (ft)	90	40	17	30	59	113
Queue Length 95th (ft)	157	105	73	49	131	173
Internal Link Dist (ft)		657		520		265
Turn Bay Length (ft)						
Base Capacity (vph)	354	386	412	3612	752	2596
Starvation Cap Reductn	0	0	0	0	0	1107
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.48	0.42	0.38	0.26	0.65	0.78
Intersection Summary						

	•	<b>←</b>	•	4	<b>†</b>	ļ	4
Lane Group	WBL	WBT	WBR	NBL	NBT	SBT	SBR
Lane Group Flow (vph)	285	274	263	306	1405	936	424
v/c Ratio	0.69	0.68	0.65	0.48	0.43	0.23	0.36
Control Delay	37.2	32.0	30.5	12.2	8.5	7.0	1.8
Queue Delay	0.0	0.0	0.0	0.0	0.6	0.0	0.3
Total Delay	37.2	32.0	30.5	12.2	9.1	7.0	2.1
Queue Length 50th (ft)	142	117	106	39	121	54	0
Queue Length 95th (ft)	227	206	188	86	183	84	35
Internal Link Dist (ft)		685			265	350	
Turn Bay Length (ft)				150			
Base Capacity (vph)	557	527	529	636	3277	4129	1170
Starvation Cap Reductn	0	0	0	0	1345	0	279
Spillback Cap Reductn	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0
Reduced v/c Ratio	0.51	0.52	0.50	0.48	0.73	0.23	0.48
Intersection Summary							

	•	<b>→</b>	•	<b>†</b>	-	<b>↓</b>
Lane Group	EBL	EBT	EBR	NBT	SBL	SBT
Lane Group Flow (vph)	309	305	276	1627	373	928
v/c Ratio	0.92	0.92	0.61	0.47	1.21	0.37
Control Delay	69.7	68.3	17.2	5.3	140.4	6.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	1.0
Total Delay	69.7	68.3	17.2	5.3	140.4	7.0
Queue Length 50th (ft)	183	178	43	102	~134	96
Queue Length 95th (ft)	#346	#350	128	128	#132	125
Internal Link Dist (ft)		657		520		265
Turn Bay Length (ft)						
Base Capacity (vph)	336	331	454	3485	308	2477
Starvation Cap Reductn	0	0	0	0	0	1200
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.92	0.92	0.61	0.47	1.21	0.73

#### Intersection Summary

Volume exceeds capacity, queue is theoretically infinite.
 Queue shown is maximum after two cycles.
 # 95th percentile volume exceeds capacity, queue may be longer.
 Queue shown is maximum after two cycles.

# 4: Senior Wy & Riverside Ave

	-	<b>←</b>	4	<b>†</b>	<b>&gt;</b>	<b>↓</b>
Lane Group	EBT	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	46	7	50	693	16	1295
v/c Ratio	0.15	0.02	0.16	0.16	0.07	0.30
Control Delay	2.6	0.2	9.0	4.4	25.0	2.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	2.6	0.2	9.0	4.4	25.0	2.9
Queue Length 50th (ft)	0	0	0	0	4	0
Queue Length 95th (ft)	7	0	42	92	23	122
Internal Link Dist (ft)	132	78		256		804
Turn Bay Length (ft)			150		115	
Base Capacity (vph)	1067	1016	310	4205	560	4373
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.04	0.01	0.16	0.16	0.03	0.30
Intersection Summary						

	۶	<b>→</b>	•	<b>←</b>	•	<b>†</b>	<b>/</b>	ļ
Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	46	70	28	37	151	708	122	1165
v/c Ratio	0.21	0.27	0.13	0.14	0.50	0.20	0.25	0.32
Control Delay	18.7	19.5	17.3	16.0	14.1	3.4	5.6	3.8
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	18.7	19.5	17.3	16.0	14.1	3.4	5.6	3.8
Queue Length 50th (ft)	10	16	6	7	17	21	11	39
Queue Length 95th (ft)	31	42	22	25	#97	36	33	64
Internal Link Dist (ft)		126		111		824		463
Turn Bay Length (ft)					230		115	
Base Capacity (vph)	1365	1595	1324	1598	305	3614	494	3593
Starvation Cap Reductn	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.03	0.04	0.02	0.02	0.50	0.20	0.25	0.32
Intersection Summary								

<sup># 95</sup>th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

	•	<b>←</b>	•	4	<b>†</b>	ļ	4
Lane Group	WBL	WBT	WBR	NBL	NBT	SBT	SBR
Lane Group Flow (vph)	316	307	291	148	703	1167	559
v/c Ratio	0.66	0.64	0.52	0.34	0.23	0.30	0.48
Control Delay	31.7	26.3	11.4	12.7	8.5	8.9	2.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.3
Total Delay	31.7	26.3	11.4	12.7	8.5	8.9	2.8
Queue Length 50th (ft)	143	117	40	17	54	75	0
Queue Length 95th (ft)	227	204	106	48	99	128	47
Internal Link Dist (ft)		685			265	350	
Turn Bay Length (ft)				150			
Base Capacity (vph)	713	683	748	439	3059	3856	1175
Starvation Cap Reductn	0	0	0	0	0	0	183
Spillback Cap Reductn	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0
Reduced v/c Ratio	0.44	0.45	0.39	0.34	0.23	0.30	0.56
Intersection Summary							

	•	<b>→</b>	•	<b>†</b>	<b>\</b>	ļ
Lane Group	EBL	EBT	EBR	NBT	SBL	SBT
Lane Group Flow (vph)	183	177	169	970	506	1174
v/c Ratio	0.65	0.59	0.49	0.27	0.69	0.46
Control Delay	45.1	31.5	16.4	2.7	13.7	5.8
Queue Delay	0.0	0.0	0.0	0.0	0.0	1.2
Total Delay	45.1	31.5	16.4	2.7	13.7	7.0
Queue Length 50th (ft)	98	68	25	32	68	118
Queue Length 95th (ft)	170	139	85	51	150	173
Internal Link Dist (ft)		657		520		265
Turn Bay Length (ft)						
Base Capacity (vph)	353	362	408	3596	729	2580
Starvation Cap Reductn	0	0	0	0	0	1097
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.52	0.49	0.41	0.27	0.69	0.79
Intersection Summary						

# 4: Senior Wy & Riverside Ave

	<b>→</b>	<b>←</b>	4	<b>†</b>	<b>&gt;</b>	<b>↓</b>
Lane Group	EBT	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	177	25	74	1607	4	1180
v/c Ratio	0.72	0.11	0.27	0.48	0.03	0.34
Control Delay	34.1	0.9	14.2	10.1	40.0	6.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	34.1	0.9	14.2	10.1	40.0	6.9
Queue Length 50th (ft)	36	0	10	94	2	61
Queue Length 95th (ft)	117	0	68	315	13	155
Internal Link Dist (ft)	180	78		256		804
Turn Bay Length (ft)			150		115	
Base Capacity (vph)	310	745	279	3358	152	3464
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.57	0.03	0.27	0.48	0.03	0.34
Intersection Summary						

#### 12/16/2021

	•	<b>→</b>	•	<b>←</b>	4	<b>†</b>	<b>&gt;</b>	ļ	
Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT	
Lane Group Flow (vph)	175	116	55	138	246	1460	138	1075	
v/c Ratio	0.58	0.30	0.18	0.35	0.96	0.50	0.91	0.37	
Control Delay	24.5	16.9	15.7	17.8	66.0	7.5	74.2	6.5	
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total Delay	24.5	16.9	15.7	17.8	66.0	7.5	74.2	6.5	
Queue Length 50th (ft)	44	27	12	33	57	77	30	50	
Queue Length 95th (ft)	93	59	34	69	#202	134	#94	90	
Internal Link Dist (ft)		126		111		824		463	
Turn Bay Length (ft)					230		115		
Base Capacity (vph)	1246	1598	1270	1611	257	2900	152	2873	
Starvation Cap Reductn	0	0	0	0	0	0	0	0	
Spillback Cap Reductn	0	0	0	0	0	0	0	0	
Storage Cap Reductn	0	0	0	0	0	0	0	0	
Reduced v/c Ratio	0.14	0.07	0.04	0.09	0.96	0.50	0.91	0.37	
Intersection Summary									

<sup># 95</sup>th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

	•	<b>←</b>	•	•	<b>†</b>	ļ	4
Lane Group	WBL	WBT	WBR	NBL	NBT	SBT	SBR
Lane Group Flow (vph)	307	292	282	306	1487	1037	495
v/c Ratio	0.72	0.73	0.69	0.55	0.46	0.25	0.42
Control Delay	39.2	35.8	33.7	14.5	8.9	7.3	1.9
Queue Delay	0.0	0.0	0.0	0.0	0.8	0.0	0.3
Total Delay	39.2	35.8	33.7	14.5	9.7	7.3	2.3
Queue Length 50th (ft)	156	135	123	44	139	65	0
Queue Length 95th (ft)	248	231	211	95	194	92	37
Internal Link Dist (ft)		685			265	350	
Turn Bay Length (ft)				150			
Base Capacity (vph)	535	498	505	555	3258	4106	1192
Starvation Cap Reductn	0	0	0	0	1315	0	262
Spillback Cap Reductn	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0
Reduced v/c Ratio	0.57	0.59	0.56	0.55	0.77	0.25	0.53
Intersection Summary							

	•	<b>→</b>	•	<b>†</b>	-	<b>↓</b>
Lane Group	EBL	EBT	EBR	NBT	SBL	SBT
Lane Group Flow (vph)	329	325	295	1651	443	959
v/c Ratio	0.98	0.97	0.66	0.47	1.49	0.39
Control Delay	82.2	78.9	21.1	5.4	255.6	6.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	1.1
Total Delay	82.2	78.9	21.1	5.4	255.6	7.2
Queue Length 50th (ft)	196	193	60	106	~93	101
Queue Length 95th (ft)	#374	#381	154	131	#189	131
Internal Link Dist (ft)		657		520		265
Turn Bay Length (ft)						
Base Capacity (vph)	336	334	445	3487	298	2477
Starvation Cap Reductn	0	0	0	0	0	1185
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.98	0.97	0.66	0.47	1.49	0.74

#### Intersection Summary

Queue shown is maximum after two cycles.

Volume exceeds capacity, queue is theoretically infinite.
 Queue shown is maximum after two cycles.
 # 95th percentile volume exceeds capacity, queue may be longer.

APPENDIX D

CUMULATIVE PROJECTS INFORMATION

#### TOTAL CUMULATIVE PROJECTS TRAFFIC

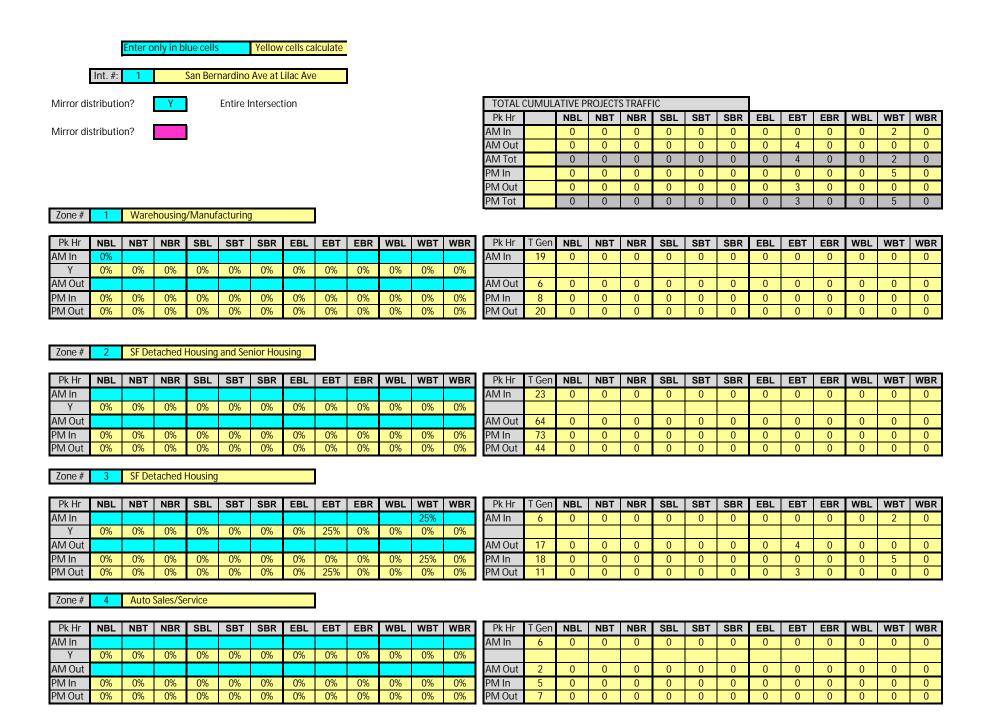
- 1 San Bernardino Ave at Lilac Ave
- 2 San Bernardino Ave at Willow Ave
- 3 San Bernardino Ave at Riverside Ave
- 4 Riverside Ave at Senior Wy
- 5 Riverside Ave at Project Dwy
- 6 Riverside Ave at Gateway Plaza/Value Ctr
- 7 Willow Ave at Project Driveway
- 8 Valley Blvd at Willow Ave
- 9 Valley Blvd at Gateway Plaza/Value Ctr
- 10 Valley Blvd at Riverside Ave
- 11 Riverside Ave at I-10 WB Ramps
- 12 Riverside Ave at I-10 EB Ramps

AM Peak	Hour										
NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
0	0	0	0	0	0	0	4	0	0	2	0
0	0	0	0	0	0	0	4	0	0	2	0
0	2	0	0	6	0	0	4	0	0	2	0
0	2	0	0	6	0	0	0	0	0	0	0
0	2	0	0	6	0	0	0	0	0	0	0
0	2	0	0	6	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	1	0
0	0	0	0	0	0	0	0	0	0	1	0
0	2	0	0	6	0	0	0	0	0	1	0
0	1	0	0	3	3	0	0	0	2	0	1
0	0	0	3	2	0	1	0	2	0	0	0

4	_	<b>D</b>					
1	San	Bern	ardino	Ave.	at I	IIAC.	Ave

- 2 San Bernardino Ave at Willow Ave
- 3 San Bernardino Ave at Riverside Ave
- 4 Riverside Ave at Senior Wy
- 5 Riverside Ave at Project Dwy
- 6 Riverside Ave at Gateway Plaza/Value Ctr
- 7 Willow Ave at Project Driveway
- 8 Valley Blvd at Willow Ave
- 9 Valley Blvd at Gateway Plaza/Value Ctr
- 10 Valley Blvd at Riverside Ave
- 11 Riverside Ave at I-10 WB Ramps
- 12 Riverside Ave at I-10 EB Ramps

PM Peak I	Hour										
NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
0	0	0	0	0	0	0	3	0	0	5	0
0	0	0	0	0	0	0	3	0	0	5	0
0	7	0	0	4	0	0	3	0	0	5	0
0	7	0	0	4	0	0	0	0	0	0	0
0	7	0	0	4	0	0	0	0	0	0	0
0	7	0	0	4	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	1	0	0	1	0
0	0	0	0	0	0	0	1	0	0	1	0
0	7	0	0	4	0	0	1	0	0	1	0
2	4	0	0	2	2	0	0	0	1	0	4
0	2	2	2	1	0	4	0	1	0	0	0



Related Projects Trip Distribution.xlsx, Int1 12/16/2021, 5:33 PM

	Int. #:	1	San Bernardino Ave at Lilac Ave	
Zone #	5	RV Se	rvice/Manufacturing	

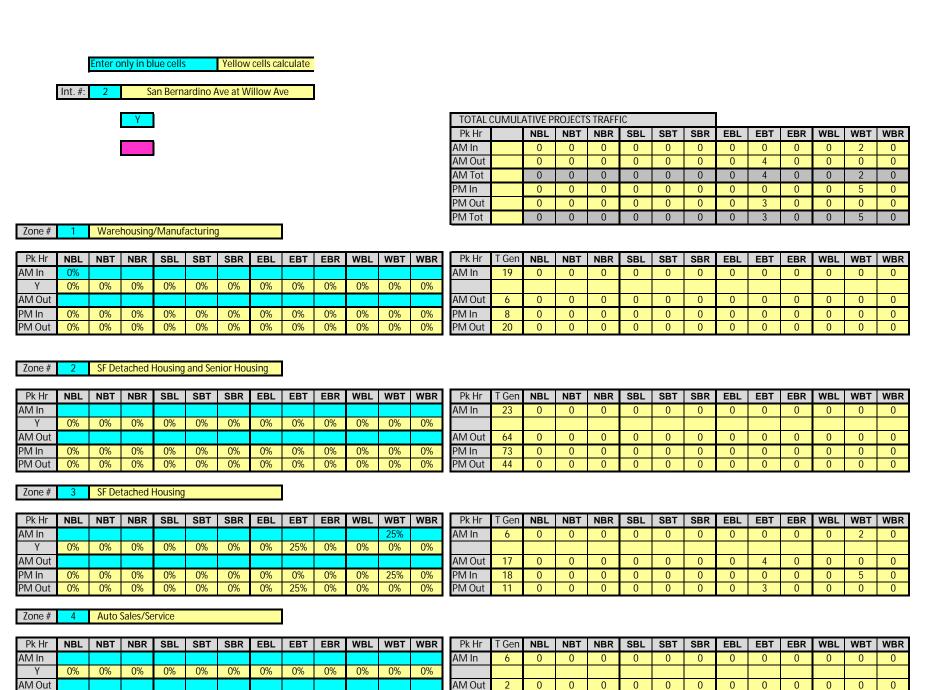
Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Υ	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	30	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	8	0	0	0	0	0	0	0	0	0	0	0	0
PM In	14	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	31	0	0	0	0	0	0	0	0	0	0	0	0

#### Zone # 6 RV Service/Manufacturing

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Υ	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	30	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	8	0	0	0	0	0	0	0	0	0	0	0	0
PM In	14	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	31	0	0	0	0	0	0	0	0	0	0	0	0



	5	Zone #	RV Service/Manufacturing
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0%

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PM In

PM Out

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Related Projects Trip Distribution.xlsx, Int 2

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PM In

PM Out

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#### Int. #: 2 San Bernardino Ave at Willow Ave

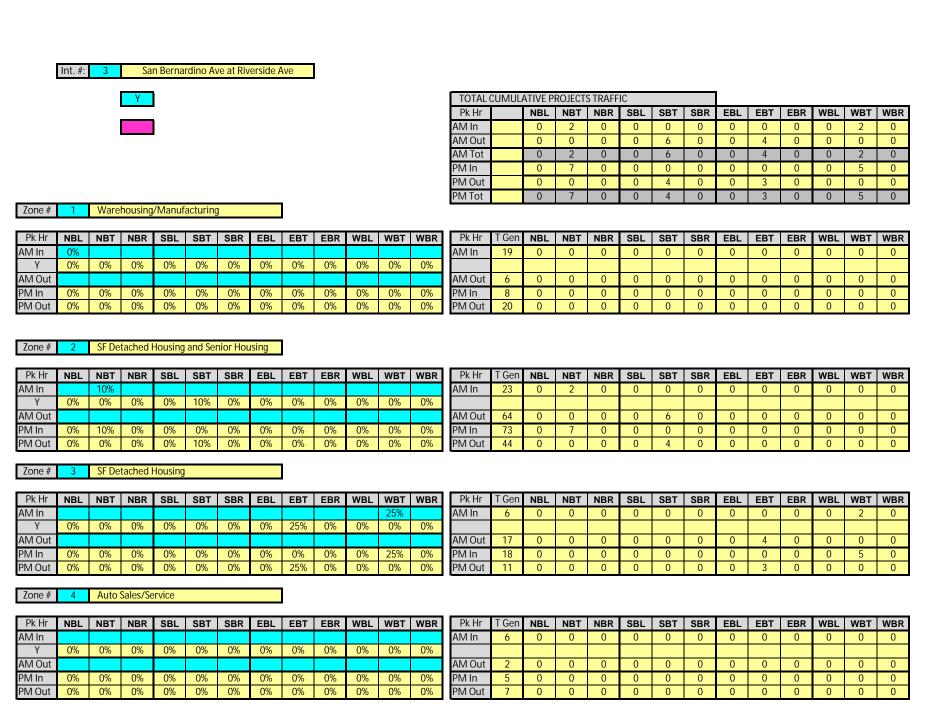
Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Υ	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	30	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	8	0	0	0	0	0	0	0	0	0	0	0	0
PM In	14	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	31	0	0	0	0	0	0	0	0	0	0	0	0

#### Zone # 6 RV Service/Manufacturing

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Υ	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	30	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	8	0	0	0	0	0	0	0	0	0	0	0	0
PM In	14	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	31	0	0	0	0	0	0	0	0	0	0	0	0



Related Projects Trip Distribution.xlsx, Int 3 12/16/2021, 5:33 PM

**RV Service/Manufacturing** 

Zone #

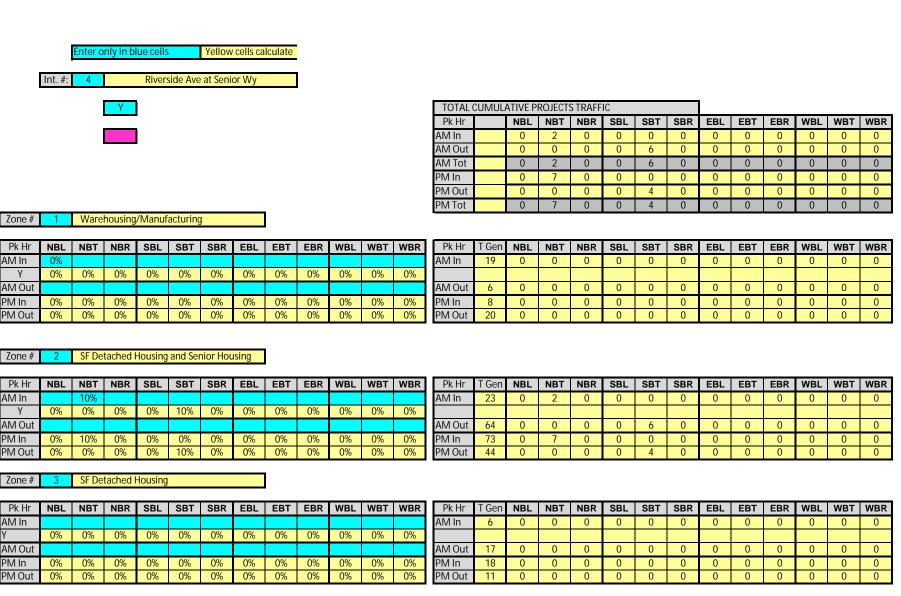
	Int. #:	3	Sa	n Berna	rdino Av	∕e at Riv	erside <i>P</i>	lve				
Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Υ	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	30	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	8	0	0	0	0	0	0	0	0	0	0	0	0
PM In	14	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	31	0	0	0	0	0	0	0	0	0	0	0	0

#### Zone # 6 RV Service/Manufacturing

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Υ	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	30	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	8	0	0	0	0	0	0	0	0	0	0	0	0
PM In	14	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	31	0	0	0	0	0	0	0	0	0	0	0	0



	Zone #	4	Auto Sales/Service
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Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Υ	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	6	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	2	0	0	0	0	0	0	0	0	0	0	0	0
PM In	5	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	7	0	0	0	0	0	0	0	0	0	0	0	0

Zone #	5	RV Service/Manufacturing
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Related Projects Trip Distribution.xlsx, Int 4

- 1			
	Int. #:	4	Riverside Ave at Senior Wy

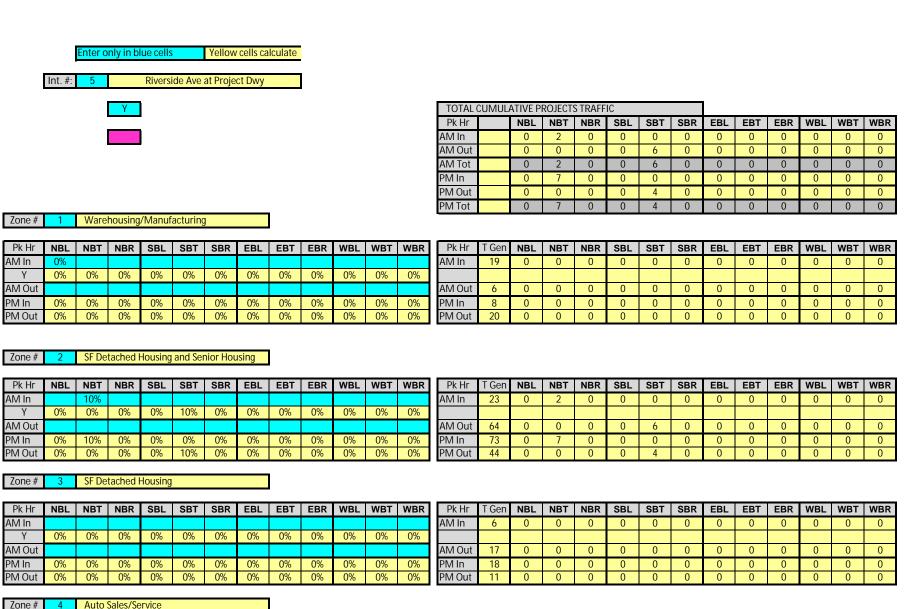
Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Υ	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	30	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	8	0	0	0	0	0	0	0	0	0	0	0	0
PM In	14	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	31	0	0	0	0	0	0	0	0	0	0	0	0

#### Zone # 6 RV Service/Manufacturing

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Υ	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	30	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	8	0	0	0	0	0	0	0	0	0	0	0	0
PM In	14	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	31	0	0	0	0	0	0	0	0	0	0	0	0



-											
	Dl Hr	NIDI	NDT	NIDD	CDI	CDT	CDD	EDI	ERT	ERD	WDI

NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	0%	0% 0% 0% 0%	0% 0% 0% 0% 0%	0% 0% 0% 0% 0% 0% 0%	0%         0%         0%         0%         0%           0%         0%         0%         0%         0%	0%         0%         0%         0%         0%         0%           0%         0%         0%         0%         0%         0%	0%         0%         0%         0%         0%         0%         0%         0%         0%           0%         0%         0%         0%         0%         0%         0%         0%	0%         0%<	0%         0%<	0%         0%<	0%         0%<

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	6	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	2	0	0	0	0	0	0	0	0	0	0	0	0
PM In	5	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	7	0	0	0	0	0	0	0	0	0	0	0	0

Zone #	5	RV Service/Manufacturing

Related Projects Trip Distribution.xlsx, Int 5

Int. #:	5	Riverside Ave at Project Dwy

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Υ	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	30	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	8	0	0	0	0	0	0	0	0	0	0	0	0
PM In	14	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	31	0	0	0	0	0	0	0	0	0	0	0	0

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Υ	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	30	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	8	0	0	0	0	0	0	0	0	0	0	0	0
PM In	14	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	31	0	0	0	0	0	0	0	0	0	0	0	0

Int. #: 6 Riverside Ave at Gateway Plaza/Value Ctr

TOTAL (	CUMUL	ATIVE P	ROJECT:	S TRAFF	IC								
Pk Hr		NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In		0	2	0	0	0	0	0	0	0	0	0	0
AM Out		0	0	0	0	6	0	0	0	0	0	0	0
AM Tot		0	2	0	0	6	0	0	0	0	0	0	0
PM In		0	7	0	0	0	0	0	0	0	0	0	0
PM Out		0	0	0	0	4	0	0	0	0	0	0	0
PM Tot		0	7	0	0	4	0	0	0	0	0	0	0

Zone # 1 Warehousing/Manufacturing

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	0%											
Υ	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	19	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	6	0	0	0	0	0	0	0	0	0	0	0	0
PM In	8	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	20	0	0	0	0	0	0	0	0	0	0	0	0

Zone # 2 SF Detached Housing and Senior Housing

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In		10%										
Υ	0%	0%	0%	0%	10%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	10%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	23	0	2	0	0	0	0	0	0	0	0	0	0
AM Out	64	0	0	0	0	6	0	0	0	0	0	0	0
PM In	73	0	7	0	0	0	0	0	0	0	0	0	0
PM Out	44	0	0	0	0	4	0	0	0	0	0	0	0

Zone # 3 SF Detached Housing

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Υ	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	6	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	17	0	0	0	0	0	0	0	0	0	0	0	0
PM In	18	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	11	0	0	0	0	0	0	0	0	0	0	0	0

Zone # 4 Auto Sales/Service

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Υ	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	6	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	2	0	0	0	0	0	0	0	0	0	0	0	0
PM In	5	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	7	0	0	0	0	0	0	0	0	0	0	0	0

Zone # 5 RV Service/Manufacturing

Related Projects Trip Distribution.xlsx, Int 6

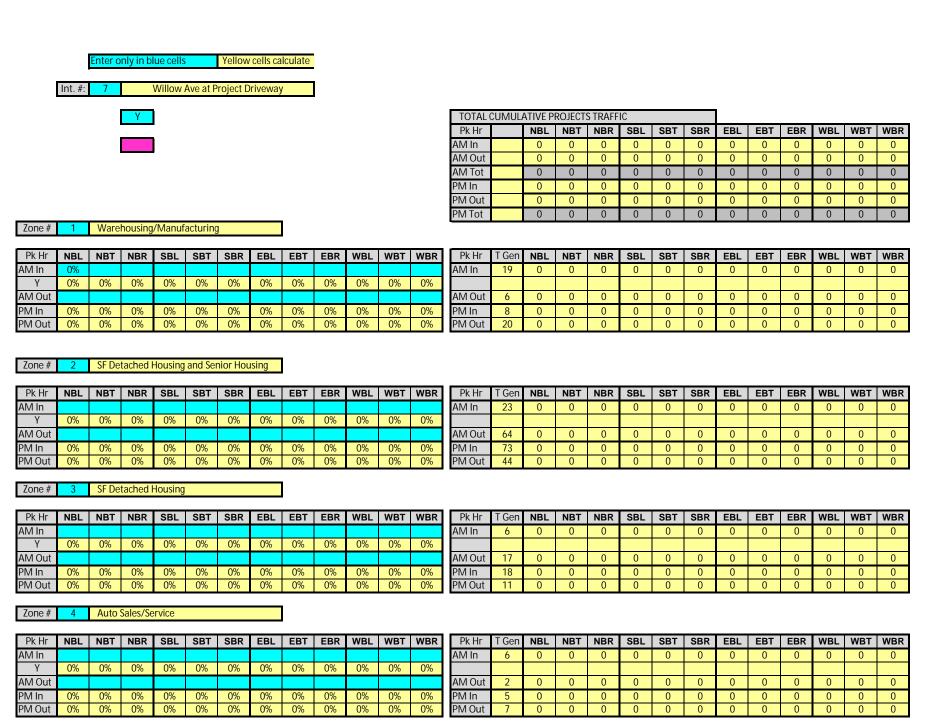
## Int. #: 6 Riverside Ave at Gateway Plaza/Value Ctr

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Υ	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	30	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	8	0	0	0	0	0	0	0	0	0	0	0	0
PM In	14	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	31	0	0	0	0	0	0	0	0	0	0	0	0

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Υ	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	30	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	8	0	0	0	0	0	0	0	0	0	0	0	0
PM In	14	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	31	0	0	0	0	0	0	0	0	0	0	0	0



Related Projects Trip Distribution.xlsx, Int 7

Zone #

RV Service/Manufacturing

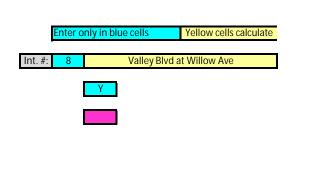
li	nt.#:	7	Willow Ave at Project Driveway
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Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Υ	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	30	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	8	0	0	0	0	0	0	0	0	0	0	0	0
PM In	14	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	31	0	0	0	0	0	0	0	0	0	0	0	0

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Υ	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	30	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	8	0	0	0	0	0	0	0	0	0	0	0	0
PM In	14	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	31	0	0	0	0	0	0	0	0	0	0	0	0



TOTAL	CUMUL	ATIVE P	ROJECT:	S TRAFF	IC								
Pk Hr		NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In		0	0	0	0	0	0	0	0	0	0	1	0
AM Out		0	0	0	0	0	0	0	0	0	0	0	0
AM Tot		0	0	0	0	0	0	0	0	0	0	1	0
PM In		0	0	0	0	0	0	0	0	0	0	1	0
PM Out		0	0	0	0	0	0	0	1	0	0	0	0
PM Tot		0	0	0	0	0	0	0	1	0	0	1	0

Zone #	1	Warehousing/Manufacturing
ZOITC #		war chousing/ivianulacturing

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	0%											
Υ	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	19	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	6	0	0	0	0	0	0	0	0	0	0	0	0
PM In	8	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	20	0	0	0	0	0	0	0	0	0	0	0	0

Zone # 2 SF Detached Housing and Senior Housing

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Υ	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	23	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	64	0	0	0	0	0	0	0	0	0	0	0	0
PM In	73	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	44	0	0	0	0	0	0	0	0	0	0	0	0

Zone # 3 SF Detached Housing

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Υ	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	6	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	17	0	0	0	0	0	0	0	0	0	0	0	0
PM In	18	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	11	0	0	0	0	0	0	0	0	0	0	0	0

Zone # 4 Auto Sales/Service

NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
										10%	
0%	0%	0%	0%	0%	0%	0%	10%	0%	0%	0%	0%
0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	10%	0%
0%	0%	0%	0%	0%	0%	0%	10%	0%	0%	0%	0%
	0%	0% 0%	0% 0% 0%	0% 0% 0% 0% 0% 0% 0%	0% 0% 0% 0% 0% 0% 0% 0% 0%	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0	0%         0%         0%         0%         0%         0%         0%         0%         10%           0%<	0%         0%<	0%         0%<	0%         0%<

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	6	0	0	0	0	0	0	0	0	0	0	1	0
AM Out	2	0	0	0	0	0	0	0	0	0	0	0	0
PM In	5	0	0	0	0	0	0	0	0	0	0	1	0
PM Out	7	0	0	0	0	0	0	0	1	0	0	0	0

Zone # 5 RV Service/Manufacturing

Related Projects Trip Distribution.xlsx, Int 8

Int. #:	Valley Blvd at Willow Ave

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Υ	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	30	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	8	0	0	0	0	0	0	0	0	0	0	0	0
PM In	14	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	31	0	0	0	0	0	0	0	0	0	0	0	0

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Υ	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	30	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	8	0	0	0	0	0	0	0	0	0	0	0	0
PM In	14	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	31	0	0	0	0	0	0	0	0	0	0	0	0

Int. #: 9 Valley Blvd at Gateway Plaza/Value Ctr

TOTAL (	CUMUL	ATIVE P	ROJECTS	S TRAFF	IC								
Pk Hr		NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In		0	0	0	0	0	0	0	0	0	0	1	0
AM Out		0	0	0	0	0	0	0	0	0	0	0	0
AM Tot		0	0	0	0	0	0	0	0	0	0	1	0
PM In		0	0	0	0	0	0	0	0	0	0	1	0
PM Out		0	0	0	0	0	0	0	1	0	0	0	0
PM Tot		0	0	0	0	0	0	0	1	0	0	1	0

Zone # 1 Warehousing/Manufacturing

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	0%											
Υ	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	19	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	6	0	0	0	0	0	0	0	0	0	0	0	0
PM In	8	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	20	0	0	0	0	0	0	0	0	0	0	0	0

Zone # 2 SF Detached Housing and Senior Housing

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Υ	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	23	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	64	0	0	0	0	0	0	0	0	0	0	0	0
PM In	73	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	44	0	0	0	0	0	0	0	0	0	0	0	0

Zone # 3 SF Detached Housing

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Υ	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	6	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	17	0	0	0	0	0	0	0	0	0	0	0	0
PM In	18	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	11	0	0	0	0	0	0	0	0	0	0	0	0

Zone # 4 Auto Sales/Service

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In											10%	
Υ	0%	0%	0%	0%	0%	0%	0%	10%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	10%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	10%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	6	0	0	0	0	0	0	0	0	0	0	1	0
AM Out	2	0	0	0	0	0	0	0	0	0	0	0	0
PM In	5	0	0	0	0	0	0	0	0	0	0	1	0
PM Out	7	0	0	0	0	0	0	0	1	0	0	0	0

# Int. #: 9 Valley Blvd at Gateway Plaza/Value Ctr

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Υ	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	30	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	8	0	0	0	0	0	0	0	0	0	0	0	0
PM In	14	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	31	0	0	0	0	0	0	0	0	0	0	0	0

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Υ	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	30	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	8	0	0	0	0	0	0	0	0	0	0	0	0
PM In	14	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	31	0	0	0	0	0	0	0	0	0	0	0	0

Int. #: 10 Valley Blvd at Riverside Ave

TOTAL (	CUMUL	ATIVE P	ROJECTS	STRAFF	IC								
Pk Hr		NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In		0	2	0	0	0	0	0	0	0	0	1	0
AM Out		0	0	0	0	6	0	0	0	0	0	0	0
AM Tot		0	2	0	0	6	0	0	0	0	0	1	0
PM In		0	7	0	0	0	0	0	0	0	0	1	0
PM Out		0	0	0	0	4	0	0	1	0	0	0	0
PM Tot		0	7	0	0	4	0	0	1	0	0	1	0

Zone # 1 Warehousing/Manufacturing

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Υ	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	19	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	6	0	0	0	0	0	0	0	0	0	0	0	0
PM In	8	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	20	0	0	0	0	0	0	0	0	0	0	0	0

Zone # 2 SF Detached Housing and Senior Housing

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In		10%										
Υ	0%	0%	0%	0%	10%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	10%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	23	0	2	0	0	0	0	0	0	0	0	0	0
AM Out	64	0	0	0	0	6	0	0	0	0	0	0	0
PM In	73	0	7	0	0	0	0	0	0	0	0	0	0
PM Out	44	0	0	0	0	4	0	0	0	0	0	0	0

Zone # 3 SF Detached Housing

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Υ	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	6	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	17	0	0	0	0	0	0	0	0	0	0	0	0
PM In	18	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	11	0	0	0	0	0	0	0	0	0	0	0	0

Zone # 4 Auto Sales/Service

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In											10%	
Υ	0%	0%	0%	0%	0%	0%	0%	10%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	10%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	10%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	6	0	0	0	0	0	0	0	0	0	0	1	0
AM Out	2	0	0	0	0	0	0	0	0	0	0	0	0
PM In	5	0	0	0	0	0	0	0	0	0	0	1	0
PM Out	7	0	0	0	0	0	0	0	1	0	0	0	0

Int. #:	10	Valley Blvd at Riverside Ave

### Zone # 5 RV Service/Manufacturing

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Υ	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	30	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	8	0	0	0	0	0	0	0	0	0	0	0	0
PM In	14	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	31	0	0	0	0	0	0	0	0	0	0	0	0

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Υ	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
30	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0
	30 8 14	30 0 8 0 14 0	30 0 0 8 0 0 14 0 0	30     0     0     0       8     0     0     0       14     0     0     0	30     0     0     0     0       8     0     0     0     0       14     0     0     0     0	30     0     0     0     0     0       8     0     0     0     0     0       14     0     0     0     0     0	30     0     0     0     0     0     0       8     0     0     0     0     0     0       14     0     0     0     0     0     0	30     0     0     0     0     0     0     0       8     0     0     0     0     0     0     0       14     0     0     0     0     0     0     0	30     0     0     0     0     0     0     0       8     0     0     0     0     0     0     0       14     0     0     0     0     0     0     0	30     0     0     0     0     0     0     0     0       8     0     0     0     0     0     0     0     0       14     0     0     0     0     0     0     0     0	30     0     0     0     0     0     0     0     0     0       8     0     0     0     0     0     0     0     0     0       14     0     0     0     0     0     0     0     0     0	30       0

Int. #: 11 Riverside Ave at I-10 WB Ramps

N

TOTAL (	CUMUL	ATIVE P	ROJECT:	S TRAFF	IC								
Pk Hr		NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In		0	1	0	0	0	0	0	0	0	2	0	1
AM Out		0	0	0	0	3	3	0	0	0	0	0	0
AM Tot		0	1	0	0	3	3	0	0	0	2	0	1
PM In		0	4	0	0	0	0	0	0	0	1	0	4
PM Out		2	0	0	0	2	2	0	0	0	0	0	0
PM Tot		2	4	0	0	2	2	0	0	0	1	0	4

Zone # 1 Warehousing/Manufacturing

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
N	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

51.11	Τ.Ο.												
Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	19	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	6	0	0	0	0	0	0	0	0	0	0	0	0
PM In	8	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	20	0	0	0	0	0	0	0	0	0	0	0	0

Zone # 2 SF Detached Housing and Senior Housing

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In		5%										5%
N	0%	0%	0%	0%	5%	5%	0%	0%	0%	0%	0%	0%
AM Out					5%	5%						
PM In	0%	5%	0%	0%	0%	0%	0%	0%	0%	0%	0%	5%
PM Out	0%	0%	0%	0%	5%	5%	0%	0%	0%	0%	0%	0%

	Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
1	AM In	23	0	1	0	0	0	0	0	0	0	0	0	1
	AM Out	64	0	0	0	0	3	3	0	0	0	0	0	0
	PM In	73	0	4	0	0	0	0	0	0	0	0	0	4
	PM Out	44	0	0	0	0	2	2	0	0	0	0	0	0

Zone # 3 SF Detached Housing

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
N	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	6	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	17	0	0	0	0	0	0	0	0	0	0	0	0
PM In	18	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	11	0	0	0	0	0	0	0	0	0	0	0	0

Zone # 4 Auto Sales/Service

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
N	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	6	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	2	0	0	0	0	0	0	0	0	0	0	0	0
PM In	5	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	7	0	0	0	0	0	0	0	0	0	0	0	0

Int. #:	11	Riverside Ave at I-10 WB Ramps

### Zone # 5 RV Service/Manufacturing

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In										5%		
N	5%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out	5%											
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	5%	0%	0%
PM Out	5%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	30	0	0	0	0	0	0	0	0	0	2	0	0
AM Out	8	0	0	0	0	0	0	0	0	0	0	0	0
PM In	14	0	0	0	0	0	0	0	0	0	1	0	0
PM Out	31	2	0	0	0	0	0	0	0	0	0	0	0

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
N	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	30	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	8	0	0	0	0	0	0	0	0	0	0	0	0
PM In	14	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	31	0	0	0	0	0	0	0	0	0	0	0	0

Int. #: 12 Riverside Ave at I-10 EB Ramps

N

TOTAL (	CUMUL	ATIVE P	ROJECTS	S TRAFF	IC								
Pk Hr		NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In		0	0	0	0	2	0	1	0	2	0	0	0
AM Out		0	0	0	3	0	0	0	0	0	0	0	0
AM Tot		0	0	0	3	2	0	1	0	2	0	0	0
PM In		0	0	0	0	1	0	4	0	1	0	0	0
PM Out		0	2	2	2	0	0	0	0	0	0	0	0
PM Tot		0	2	2	2	1	0	4	0	1	0	0	0

Zone # 1 Warehousing/Manufacturing

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
N	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	19	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	6	0	0	0	0	0	0	0	0	0	0	0	0
PM In	8	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	20	0	0	0	0	0	0	0	0	0	0	0	0

Zone # 2 SF Detached Housing and Senior Housing

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In							5%					
N	0%	0%	0%	5%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out				5%								
PM In	0%	0%	0%	0%	0%	0%	5%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	5%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	23	0	0	0	0	0	0	1	0	0	0	0	0
AM Out	64	0	0	0	3	0	0	0	0	0	0	0	0
PM In	73	0	0	0	0	0	0	4	0	0	0	0	0
PM Out	44	0	0	0	2	0	0	0	0	0	0	0	0

Zone # 3 SF Detached Housing

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
N	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	6	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	17	0	0	0	0	0	0	0	0	0	0	0	0
PM In	18	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	11	0	0	0	0	0	0	0	0	0	0	0	0

Zone # 4 Auto Sales/Service

Pl	k Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM	l In												
	N	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM	l Out												
PM	l In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM	Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	6	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	2	0	0	0	0	0	0	0	0	0	0	0	0
PM In	5	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	7	0	0	0	0	0	0	0	0	0	0	0	0

Int. #:	10	Diverside Ave et L10 FD Demos
IIIL. #:	12	Riverside Ave at I-10 EB Ramps

### Zone # 5 RV Service/Manufacturing

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In					5%				5%			
N	0%	5%	5%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out		5%	5%									
PM In	0%	0%	0%	0%	5%	0%	0%	0%	5%	0%	0%	0%
PM Out	0%	5%	5%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	30	0	0	0	0	2	0	0	0	2	0	0	0
AM Out	8	0	0	0	0	0	0	0	0	0	0	0	0
PM In	14	0	0	0	0	1	0	0	0	1	0	0	0
PM Out	31	0	2	2	0	0	0	0	0	0	0	0	0

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
N	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	30	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	8	0	0	0	0	0	0	0	0	0	0	0	0
PM In	14	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	31	0	0	0	0	0	0	0	0	0	0	0	0