

Appendix I

Traffic Impact Study Report



MEMORANDUM

Date: April 16, 2017

To: Hedy Koczwara, Aspen Environmental Group

From: Jason D. Pack, PE
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Subject: Athos Renewable Energy Transportation Impact Assessment

OC17-0531

This memorandum summarizes the results of the transportation impact analysis that Fehr & Peers completed for the proposed Athos Renewable Energy site located near Desert Center, California. Our assessment consists of the following:

- Review of intersection sightlines near the proposed Project driveways
- Evaluation of potential construction traffic routes
- Level of Service assessment under Existing, Ambient No Project, and Ambient Plus Project conditions

The remainder of this memorandum is divided into the following key topic areas:

- Introduction
- Existing Conditions
- Project Characteristics
- Ambient No Project Conditions
- Ambient Plus Project Conditions
- Mitigations

Construction of the proposed Project would cause significant impacts, including working with adjacent developments to stagger arrival/departure times or the potential installation of temporary traffic control signals during the duration of the project.



Introduction

Figure 1 displays the project location and the surrounding roadway network. Fehr & Peers evaluated roadway and intersection operations for the following scenarios:

- **Existing Conditions** – Existing roadway volumes obtained from counts taken on March 22, 2018
- **Ambient No Project Conditions** – Existing roadway volumes plus traffic expected from approved and pending development in the area near the Project
- **Ambient Plus Project Conditions** – Ambient No Project Conditions plus traffic expected from construction related activity for the Project

Existing Conditions

Analysis Methodologies

Fehr & Peers calculated the Level of Service (LOS) at the study intersections using Transportation Research Board (TRB) Highway Capacity Manual (HCM) 6th Edition methodologies, 2016. All study intersections are Caltrans facilities, and Caltrans considers LOS C as the lowest acceptable LOS for its facilities. Table 1 shows the HCM LOS criteria.

Roadways

Interstate 10 (I-10): I-10 is a major east/west interstate freeway spanning the United States from Santa Monica, CA to Jacksonville, FL. It connects Southern California to Phoenix, AZ and destinations further east. I-10 is a four-lane freeway with interchanges near the Project site at SR-177 and Corn Springs Road. The posted speed limit on I-10 is 70 mph. In the study area, I-10 carries roughly 26,000 average daily trips (ADT).

State Route 177 (SR-177): SR-177 is a north/south highway running between Desert Center/I-10 and State Route 62 (approximately 25 miles northeast of Desert Center). SR-177 is a two-lane road, and the posted speed limit is 65 mph. It carries approximately 2,800 ADT.

Corn Springs Road: Corn Springs Road is a rural road with little connectivity. Its interchange with I-10 is nine miles east of the I-10/SR-177 interchange. It connects to rural roads which provide access to a nearby substation and is a proposed access site for solar projects in the area, including Athos.

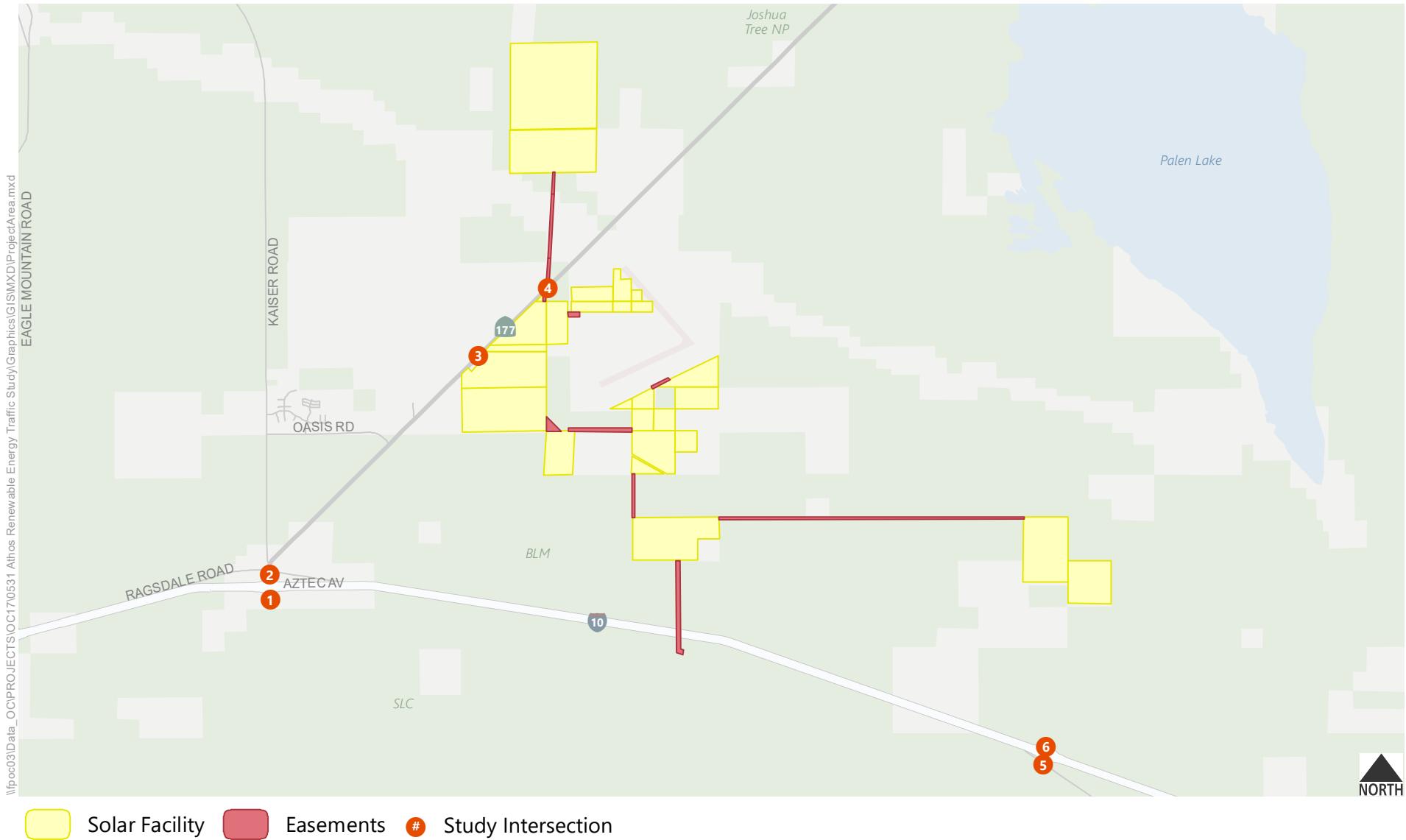


Figure 1

Study Area



TABLE 1 – INTERSECTION LEVEL OF SERVICE CRITERIA

Level of Service	Description	Signalized Delay (Seconds)	Unsignalized Delay (Seconds)
A	Progression is extremely favorable and most vehicles arrive during the green phase. Most vehicles do not stop at all. Short cycle lengths may also contribute to low delay.	≤ 10.0	≤ 10.0
B	Progression is good, cycle lengths are short, or both. More vehicles stop than with LOS A, causing higher levels of average delay.	> 10.0 to 20.0	> 10.0 to 15.0
C	Higher congestion may result from fair progression, longer cycle lengths, or both. Individual cycle failures may begin to appear at this level, though many still pass through the intersection without stopping.	> 20.0 to 35.0	> 15.0 to 25.0
D	The influence of congestion becomes more noticeable. Longer delays may result from some combination of unfavorable progression, long cycle lengths, or high V/C ratios. Many vehicles stop, and the proportion of vehicles not stopping declines. Individual cycle failures are noticeable.	> 35.0 to 55.0	> 25.0 to 35.0
E	This level is considered by many agencies to be the limit of acceptable delay. These high delay values generally indicate poor progression, long cycle lengths, and high V/C ratios. Individual cycle failures are frequent occurrences.	> 55.0 to 80.0	> 35.0 to 50.0
F	This level is considered unacceptable with oversaturation, which is when arrival flow rates exceed the capacity of the intersection. This level may also occur at high V/C ratios below 1.0 with many individual cycle failures. Poor progression and long cycle lengths may also be contributing factors to such delay levels.	> 80.0	> 50.0

Source: Highway Capacity Manual (Transportation Research Board, 2016).

Intersections

Field observations were completed on March 1, 2018. Figure 2 shows the locations of the study intersections. While specific access points have not yet been chosen for the site, field observations along SR-177 north of Oasis Drive indicate that most locations along the road are suitable for driveways, and that no sightlines are obstructed. The study locations of the North Access Driveway and South Access Driveway (Intersections 3 and 4) both meet these criteria, as shown on Figures 3 and 4.



Existing Traffic Volumes

Existing traffic volumes and intersection configurations are shown on Figure 5. Field work photos at key access locations are presented on Figure 3.

LOS results for existing conditions are shown in Table 1. The results indicate that all of the intersections operate acceptably at LOS A during both peak hours.

TABLE 1: EXISTING (2018) CONDITIONS LOS

Intersection Name	Control	Peak Period	Delay	LOS
I-10 EB Ramps & SR-177	SSSC	AM	9.2	A
	SSSC	PM	9.0	A
I-10 WB Ramps & SR-177	SSSC	AM	8.8	A
	SSSC	PM	8.8	A
SR-177 & South Access Driveway	SSSC	AM	N/A	N/A
	SSSC	PM	N/A	N/A
SR-177 & North Access Driveway	SSSC	AM	N/A	N/A
	SSSC	PM	N/A	N/A
I-10 EB Ramps & Corn Springs Road	SSSC	AM	8.4	A
	SSSC	PM	8.4	A
I-10 WB Ramps & Corn Springs Road	SSSC	AM	8.5	A

Notes:

Calculated using methodologies consistent with HCM 6th Edition

N/A – Not Applicable as driveways only exist with the project

SSSC = Side Street Stop Control

Source: Fehr & Peers, 2018



Figure 2

Study Intersections





Figure 3

Study Intersection 3 Site Photos



Figure 4
Study Intersection 4 Site Photos



1. SR-177/I-10 EB Ramps	2. SR-177/I-10 WB Ramps	3. SR-177/South Access Driveway	4. SR-177/North Access Driveway
<p>I-10 EB Ramps</p> <p>0 (3) → 15 (12)</p> <p>49 (65) ← 2 (3) ← 0 (4)</p> <p>SR-177</p>	<p>I-10 WB Ramps</p> <p>37 (53) ← 13 (14)</p> <p>17 (24) ← 3 (5) ← 2 (1)</p> <p>SR-177</p>	<p>South Access Driveway</p> <p>20 (41) ← 0 (0)</p> <p>0 (0) ← 0 (0) ← 0 (0)</p> <p>SR-177</p>	<p>North Access Driveway</p> <p>0 (0) ← 20 (41)</p> <p>0 (0) ← 0 (0) ← 0 (0)</p> <p>SR-177</p>
5. Corn Springs Road/I-10 EB Ramps	6. Corn Springs Road/I-10 WB Ramps		
<p>Corn Springs Road</p> <p>2 (1) ← 0 (0)</p> <p>I-10 EB Ramps</p> <p>2 (2) ← 1 (3) ← 5 (5)</p> <p>SR-177</p>	<p>Corn Springs Road</p> <p>3 (3) ← 0 (0)</p> <p>I-10 WB Ramps</p> <p>3 (2) ← 3 (5) ← 2 (1)</p> <p>SR-177</p>		

Figure 3

Peak Hour Traffic Volumes
Existing (2018) Volumes





Project Conditions

Trip Generation

Trip generation for the proposed Athos Renewable Energy Project was developed for the construction phase of the project using information provided by the applicant. Peak hour trips generated for the construction period of the project are shown in Table 2. Please note that delivery trucks for the proposed project represent just over 1% of the total trips generated by the project. The technical assessment has assumed that the heavy vehicle percentage is 2% of the total trips through the intersection. As such, the presence of the project's heavy vehicles are accounted for in the capacity adjustments at the study intersections through the heavy vehicle percentage.

TABLE 2: CONGESTION TRIP GENERATION

Description	Quantity	ADT	AM Peak Hour			PM Peak Hour		
			In	Out	Total	In	Out	Total
Workers	530	1060	530	0	530	0	530	530
Delivery Trucks	40	80	3	3	6	3	3	6
Total		1140	533	3	536	3	533	536

Trip distribution for the project is shown on Figure 6. Project added trips at the study intersections are shown on Figure 7. It should be noted that the site will generate minimal trips during operation phase so it does not warrant analysis.

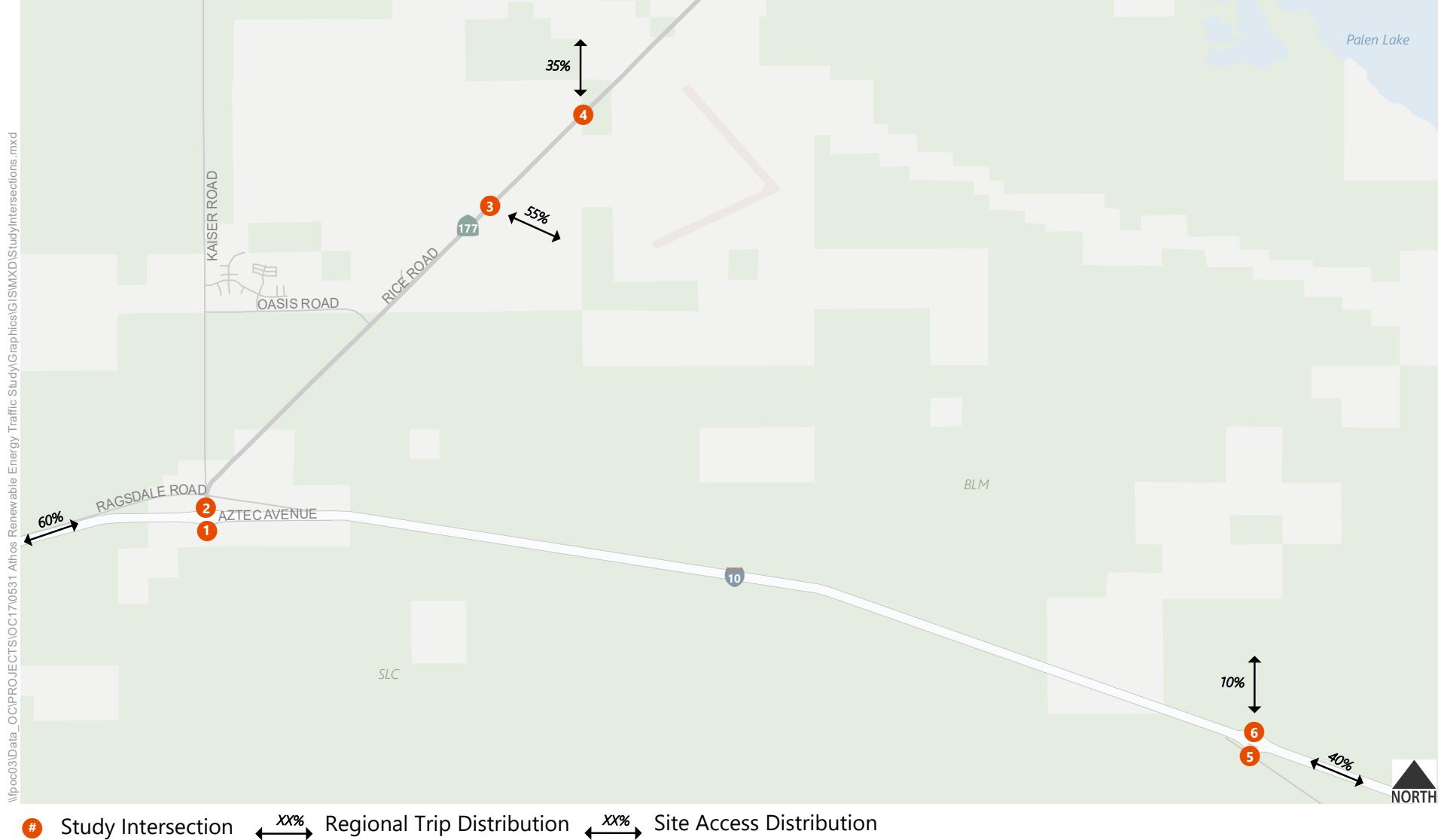


Figure X

Trip Distribution





1. SR-177/I-10 EB Ramps	2. SR-177/I-10 WB Ramps	3. SR-177/South Access Driveway	4. SR-177/North Access Driveway
<p>I-10 EB Ramps</p> <p>SR-177</p> <p>0 (0) → 0 (191)</p> <p>288 (2) ← 0 (0) ← 0 (0)</p> <p>0 (0) → 0 (0)</p> <p>0 (0) → 0 (0)</p>	<p>I-10 WB Ramps</p> <p>SR-177</p> <p>2 (283) ← 0 (191)</p> <p>191 (0) ← 0 (0) ← 0 (0)</p> <p>0 (0) → 288</p>	<p>South Access Driveway</p> <p>SR-177</p> <p>1 (186) ← 0 (0)</p> <p>0 (0) → 0 (0) ← 1 (293)</p> <p>186 (1) ← 293 (1)</p>	<p>North Access Driveway</p> <p>SR-177</p> <p>0 (0) → 0 (0)</p> <p>0 (0) → 0 (0) ← 1 (186)</p> <p>186 (1) → 0 (0)</p>
5. Corn Springs Road/I-10 EB Ramps	6. Corn Springs Road/I-10 WB Ramps		
<p>I-10 EB Ramps</p> <p>Corn Springs Road</p> <p>0 (0) → 1 (22)</p> <p>32 (0) ← 0 (0) ← 0 (0)</p> <p>0 (0) → 0 (0)</p> <p>0 (0) → 0 (0)</p>	<p>I-10 WB Ramps</p> <p>Corn Springs Road</p> <p>0 (32) ← 1 (22)</p> <p>22 (0) ← 0 (0) ← 0 (0)</p> <p>0 (0) → 32 (0)</p>		

Figure 4
Peak Hour Traffic Volumes
Project Volumes





Ambient Conditions

Concurrently Constructed Projects

Table 3 shows the approved and pending projects near the study area. Projects were included in the Ambient Conditions analysis if they were determined to likely overlap with the late 2019 to late 2021 construction schedule for the Athos Renewable Energy Project.

TABLE 3: APPROVED AND PENDING PROJECTS

Nearby Projects	Included in Ambient Conditions?	Reason
SunPower Project(s)	Included	Potentially Overlapping Construction Schedule
Palen Solar Project	Included	Potentially Overlapping Construction Schedule
EDF's 150 MW Desert Harvest Project	Included	Potentially Overlapping Construction Schedule
CUP3788	Included	Potentially Overlapping Construction Schedule
Desert Southwest 500 kV Transmission Line	Included	Potentially Overlapping Construction Schedule
Plot Plan No. 23577, Revised Permit No 2.	Not Included	Non-Overlapping Construction Schedule
California Jupiter LLC, Jupiter Project (CACA 56577)	Not Included	Non-Overlapping Construction Schedule
IO Solar Project (CACA 56782)	Not Included	Non-Overlapping Construction Schedule
DC 50 Solar	Not Included	Non-Overlapping Construction Schedule

The peak hour trips generated for each of the included projects are shown in Table 4:



TABLE 4: TRIP GENERATION FOR PROJECTS INCLUDED IN AMBIENT CONDITIONS

Nearby Projects	AM Peak Hour			PM Peak Hour		
	In	Out	Total	In	Out	Total
SunPower Project(s)	426	2	428	2	426	428
Palen Solar Project	1,148	3	1,151	3	1,148	1,151
EDF's 150 MW Desert Harvest Project	143	20	163	0	125	125
CUP3788	213	1	214	1	213	214
Desert Southwest 500 kV Transmission Line	144	0	144	0	144	144

Trip generation and distribution was taken from available EIR documents. When not available, trips generated was estimated per MW based on the Athos Renewable Energy Project trip generation rate, and trip distribution was based on Athos' trip distribution. Figure 8 shows the Ambient Volumes for the study intersections.

Table 5 shows the LOS results at the study intersections for Ambient Conditions.



TABLE 5: AMBIENT CONDITIONS LOS

Intersection Name	Control	Peak Period	Existing		Ambient	
			Delay	LOS	Delay	LOS
I-10 EB Ramps & SR-177	SSSC	AM	9.2	A	11.7	B
	SSSC	PM	9.0	A	12.9	B
I-10 WB Ramps & SR-177	SSSC	AM	8.8	A	13.3	B
	SSSC	PM	8.8	A	8.9	A
SR-177 & South Access Driveway	SSSC	AM	N/A	N/A	N/A	N/A
	SSSC	PM	N/A	N/A	N/A	N/A
SR-177 & North Access Driveway	SSSC	AM	N/A	N/A	N/A	N/A
	SSSC	PM	N/A	N/A	N/A	N/A
I-10 EB Ramps & Corn Springs Road	SSSC	AM	8.4	A	30.5	D
	SSSC	PM	8.4	A	44.1	E
I-10 WB Ramps & Corn Springs Road	SSSC	AM	8.5	A	>180.0	F
	SSSC	PM	8.4	A	11.1	B

Notes:

Calculated using methodologies consistent with HCM 6th Edition

N/A – Not Applicable as driveways only exist with the project

SSSC = Side Street Stop Control

Source: Fehr & Peers, 2018

The following intersections are projected to operate unacceptably in the Ambient Condition:

- I-10 EB Ramps & Corn Springs Road – LOS D (AM Peak Hour), LOS E (PM Peak Hour)
- I-10 WB Ramps & Corn Springs Road – LOS F (AM Peak Hour)



1. SR-177/I-10 EB Ramps	2. SR-177/I-10 WB Ramps	3. SR-177/South Access Driveway	4. SR-177/North Access Driveway
<p>I-10 EB Ramps</p> <p>347 (66) 2 (3) 0 (4)</p>	<p>I-10 WB Ramps</p> <p>41 (351) 30 (190)</p>	<p>South Access Driveway</p> <p>211 (24) 3 (5) 2 (1)</p>	<p>North Access Driveway</p> <p>24 (41)</p>
5. Corn Springs Road/I-10 EB Ramps	6. Corn Springs Road/I-10 WB Ramps		
<p>I-10 EB Ramps</p> <p>831 (5) 1 (3) 5 (5)</p>	<p>Corn Springs Road</p> <p>6 (832) 2 (745)</p>	<p>Corn Springs Road</p> <p>748 (5) 3 (5) 2 (1)</p>	<p>I-10 WB Ramps</p> <p>0 (1) 831 (4)</p>

Figure 4

Peak Hour Traffic Volumes Ambient Volumes





Ambient Plus Project Conditions

Figure 9 shows the Ambient Plus Project Volumes for the study intersections.

Table 6 shows the LOS results at the study intersections for Ambient Plus Project Conditions.

TABLE 6: AMBIENT PLUS PROJECT CONDITIONS LOS

Intersection Name	Control	Peak Period	Ambient		Ambient+Project	
			Delay	LOS	Delay	LOS
I-10 EB Ramps & SR-177	SSSC	AM	11.7	B	20.3	C
	SSSC	PM	12.9	B	24.7	C
I-10 WB Ramps & SR-177	SSSC	AM	13.3	B	71.3	F
	SSSC	PM	8.9	A	9.1	A
SR-177 & South Access Driveway	SSSC	AM	N/A	N/A	11.4	B
	SSSC	PM	N/A	N/A	15.3	C
SR-177 & North Access Driveway	SSSC	AM	N/A	N/A	8.4	A
	SSSC	PM	N/A	N/A	9.4	A
I-10 EB Ramps & Corn Springs Road	SSSC	AM	30.5	D	36.1	E
	SSSC	PM	44.1	E	48.3	E
I-10 WB Ramps & Corn Springs Road	SSSC	AM	>180.0	F	>180.0	F
	SSSC	PM	11.1	B	11.4	B

Notes:

Calculated using methodologies consistent with HCM 6th Edition

N/A – Not Applicable as driveways only exist with the project

SSSC = Side Street Stop Control

Source: Fehr & Peers, 2018

The following intersections are projected to operate unacceptably in the Ambient Plus Project Condition:

- I-10 EB Ramps & Corn Springs Road – LOS E (AM Peak Hour), LOS E (PM Peak Hour)
- I-10 WB Ramps & Corn Springs Road – LOS F (AM Peak Hour)



1. SR-177/I-10 EB Ramps	2. SR-177/I-10 WB Ramps	3. SR-177/South Access Driveway	4. SR-177/North Access Driveway
<p>I-10 EB Ramps</p> <p>0 (3) → 32 (379)</p> <p>635 (68) 2 (3) 0 (4)</p> <p>SR-177</p>	<p>I-10 WB Ramps</p> <p>43 (639) ← 30 (381)</p> <p>402 (24) 3 (5) 2 (1)</p> <p>SR-177</p>	<p>South Access Driveway</p> <p>25 (227) ← 0 (0)</p> <p>0 (0) 0 (0) 1 (293)</p> <p>SR-177</p>	<p>North Access Driveway</p> <p>0 (0) ← 24 (41)</p> <p>0 (0) 0 (0) 1 (186)</p> <p>SR-177</p>
5. Corn Springs Road/I-10 EB Ramps	6. Corn Springs Road/I-10 WB Ramps		
<p>I-10 EB Ramps</p> <p>2 (1) ← 3 (76)</p> <p>863 (5) 1 (3) 5 (5)</p> <p>Corn Springs Road</p>	<p>I-10 WB Ramps</p> <p>6 (864) ← 3 (76)</p> <p>770 (5) 3 (5) 2 (1)</p> <p>Corn Springs Road</p>		

Figure 4
Peak Hour Traffic Volumes
Ambient+Project Volumes





Mitigations

The addition of Project Traffic to the Ambient Conditions causes potential impacts under Caltrans TIA guidelines. Fehr & Peers evaluated several measures to mitigate project impacts. These measures include coordination with adjacent development projects to spread work shifts into multiple hours (instead of peak hour) or the installation of temporary traffic signals or manual traffic control officers during peak hours to mitigate the temporary impacts. Under Ambient Plus Project Conditions, the worst performing intersection fails at 78% of total volumes in the AM and 50% of total volumes in the PM. As previously noted, the project sponsor should coordinate with the projects concurrently being constructed such that enough trips are spread outside the peak hour to reduce the intersection impacts. Our analysis conservatively assumes that all commute trips are already taking place during the peak hour. Commute trips often are spread out over two or more hours. Table 7 shows the LOS results of reducing traffic volumes.

Table 7: Ambient Plus Project Mitigation Measure (Reduced Traffic) Conditions

Intersection Name	Control	Peak Period	Ambient+Project		Ambient+Project Mitigation-Traffic Sensitivity Test	Delta Delay
			Delay	LOS		
I-10 EB Ramps & SR-177	SSSC	AM	20.3	C	10.8	B
	SSSC	PM	24.7	C	17.1	C
I-10 WB Ramps & SR-177	SSSC	AM	71.3	F	12.5	B
	SSSC	PM	9.1	A	8.9	A
SR-177 & South Access Driveway	SSSC	AM	11.4	B	9.7	A
	SSSC	PM	15.3	C	12.4	B
SR-177 & North Access Driveway	SSSC	AM	8.4	A	8.4	A
	SSSC	PM	9.4	A	9.1	A
I-10 EB Ramps & Corn Springs Road	SSSC	AM	36.1	E	11.6	B
	SSSC	PM	48.3	E	24.8	C
I-10 WB Ramps & Corn Springs Road	SSSC	AM	764.8	F	24.5	C
	SSSC	PM	11.4	B	10.2	B

Notes:

Calculated using methodologies consistent with HCM 6th Edition

SSSC = Side Street Stop Control

Source: Fehr & Peers, 2018



Intersection impacts can also be mitigated by the installation of a temporary signal or use of manual intersection control during the construction period. I-10 WB Ramps & SR-177 (Intersection 6) required geometry changes in addition to signalization. A 50-foot westbound right turn pocket was added, as well as a southbound 50-foot right turn pocket. If manual intersection control is used in the AM peak hour, no manual intersection control is needed in the PM peak hour, and the southbound right turn pocket isn't needed. Table 8 shows the LOS results of using a traffic signal at the impacted intersections.

Table 8: Ambient Plus Project Mitigation Measure (Signalized) Conditions

Intersection Name	Control	Peak Period	Ambient+Project		Ambient+Project Mitigation-Signalized		Delta Delay
			Delay	LOS	Delay	LOS	
I-10 WB Ramps & SR-177	Signalized	AM	71.3	F	14.5	B	-56.8
	Signalized	PM	9.1	A	6.6	A	-2.5
I-10 EB Ramps & Corn Springs Road	Signalized	AM	36.1	E	6.8	A	-29.3
	Signalized	PM	48.3	E	4.4	A	-43.9
I-10 WB Ramps & Corn Springs Road	Signalized	AM	<180.0	F	25.4	C	-154.6
	Signalized	PM	11.4	B	3.9	A	-10.5

Notes:

Calculated using methodologies consistent with HCM 6th Edition

SSSC = Side Street Stop Control

Source: Fehr & Peers, 2018

With implementation of the proposed mitigation measures, operations are improved to acceptable levels and the impacts are reduced to a less-than-significant level.

As the project moves into an operations and maintenance phase, project trips are dramatically reduced and the project would not have the potential to impact study facilities during that phase of the project.



Appendix A: HCM 6th Addition Results

Intersection

Int Delay, s/veh 8.5

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	49	2	0	0	0	0	0	1	1	15	0	0
Future Vol, veh/h	49	2	0	0	0	0	0	1	1	15	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None									
Storage Length	-	-	20	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	-	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	62	62	62	62	62	62	62	62	62	62	62	62
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	79	3	0	0	0	0	0	2	2	24	0	0

Major/Minor	Minor2	Major1	Major2
Conflicting Flow All	51 52 0	- 0 0	4 0 0
Stage 1	48 48 -	- - -	- - -
Stage 2	3 4 -	- - -	- - -
Critical Hdwy	6.42 6.52 6.22	- - -	4.12 - -
Critical Hdwy Stg 1	5.42 5.52 -	- - -	- - -
Critical Hdwy Stg 2	5.42 5.52 -	- - -	- - -
Follow-up Hdwy	3.518 4.018 3.318	- - -	2.218 - -
Pot Cap-1 Maneuver	958 839 -	0 - -	1618 - 0
Stage 1	974 855 -	0 - -	- - 0
Stage 2	1020 892 -	0 - -	- - 0
Platoon blocked, %	- - -	- - -	- - -
Mov Cap-1 Maneuver	944 0 -	- - -	1618 - -
Mov Cap-2 Maneuver	944 0 -	- - -	- - -
Stage 1	959 0 -	- - -	- - -
Stage 2	1020 0 -	- - -	- - -

Approach	EB	NB	SB
HCM Control Delay, s	9.2	0	7.3
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBR	EBLn1	EBLn2	SBL	SBT
Capacity (veh/h)	-	-	944	-	1618	-
HCM Lane V/C Ratio	-	-	0.087	-	0.015	-
HCM Control Delay (s)	-	-	9.2	0	7.3	0
HCM Lane LOS	-	-	A	A	A	A
HCM 95th %tile Q(veh)	-	-	0.3	-	0	-

Intersection

Int Delay, s/veh 1.7

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	0	0	2	3	17	2	48	0	0	13	37
Future Vol, veh/h	0	0	0	2	3	17	2	48	0	0	13	37
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None									
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	-	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	75	75	75	75	75	75	75	75	75	75	75	75
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	0	0	3	4	23	3	64	0	0	17	49

Major/Minor	Minor1	Major1	Major2
Conflicting Flow All	112	136	64
Stage 1	70	70	-
Stage 2	42	66	-
Critical Hdwy	6.42	6.52	6.22
Critical Hdwy Stg 1	5.42	5.52	-
Critical Hdwy Stg 2	5.42	5.52	-
Follow-up Hdwy	3.518	4.018	3.318
Pot Cap-1 Maneuver	885	755	1000
Stage 1	953	837	-
Stage 2	980	840	-
Platoon blocked, %			-
Mov Cap-1 Maneuver	883	0	1000
Mov Cap-2 Maneuver	883	0	-
Stage 1	951	0	-
Stage 2	980	0	-

Approach	WB	NB	SB
HCM Control Delay, s	8.8	0.3	0
HCM LOS	A		
<hr/>			
Minor Lane/Major Mvmt	NBL	NBTWBLn1	SBT
Capacity (veh/h)	1536	-	986
HCM Lane V/C Ratio	0.002	-	0.03
HCM Control Delay (s)	7.3	0	8.8
HCM Lane LOS	A	A	-
HCM 95th %tile Q(veh)	0	-	0.1

Intersection						
Int Delay, s/veh	0					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	W	B	B		A	
Traffic Vol, veh/h	0	0	57	0	0	20
Future Vol, veh/h	0	0	57	0	0	20
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	65	65	65	65	65	65
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	0	88	0	0	31
Major/Minor	Minor1	Major1		Major2		
Conflicting Flow All	119	88	0	0	88	0
Stage 1	88	-	-	-	-	-
Stage 2	31	-	-	-	-	-
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	877	970	-	-	1508	-
Stage 1	935	-	-	-	-	-
Stage 2	992	-	-	-	-	-
Platoon blocked, %	-	-	-	-	-	-
Mov Cap-1 Maneuver	877	970	-	-	1508	-
Mov Cap-2 Maneuver	877	-	-	-	-	-
Stage 1	935	-	-	-	-	-
Stage 2	992	-	-	-	-	-
Approach	WB	NB		SB		
HCM Control Delay, s	0	0		0		
HCM LOS	A					
Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT	
Capacity (veh/h)	-	-	-	1508	-	
HCM Lane V/C Ratio	-	-	-	-	-	
HCM Control Delay (s)	-	-	0	0	-	
HCM Lane LOS	-	-	A	A	-	
HCM 95th %tile Q(veh)	-	-	-	0	-	

Intersection						
Int Delay, s/veh	0					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	W		A	B		
Traffic Vol, veh/h	0	0	0	57	20	0
Future Vol, veh/h	0	0	0	57	20	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	65	65	65	65	65	65
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	0	0	88	31	0
Major/Minor	Minor2	Major1		Major2		
Conflicting Flow All	119	31	31	0	-	0
Stage 1	31	-	-	-	-	-
Stage 2	88	-	-	-	-	-
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	877	1043	1582	-	-	-
Stage 1	992	-	-	-	-	-
Stage 2	935	-	-	-	-	-
Platoon blocked, %	-	-	-	-	-	-
Mov Cap-1 Maneuver	877	1043	1582	-	-	-
Mov Cap-2 Maneuver	877	-	-	-	-	-
Stage 1	992	-	-	-	-	-
Stage 2	935	-	-	-	-	-
Approach	EB	NB	SB			
HCM Control Delay, s	0	0	0			
HCM LOS	A					
Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR	
Capacity (veh/h)	1582	-	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-	-	-
HCM Control Delay (s)	0	-	0	-	-	-
HCM Lane LOS	A	-	A	-	-	-
HCM 95th %tile Q(veh)	0	-	-	-	-	-

Intersection

Int Delay, s/veh 4.5

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	2	1	5	0	0	0	0	0	5	0	2	0
Future Vol, veh/h	2	1	5	0	0	0	0	0	5	0	2	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None									
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	-	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	70	70	70	70	70	70	70	70	70	70	70	70
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	3	1	7	0	0	0	0	0	7	0	3	0

Major/Minor	Minor2	Major1	Major2
Conflicting Flow All	7 10 3	- 0 0	7 0 0
Stage 1	3 3 -	- - -	- - -
Stage 2	4 7 -	- - -	- - -
Critical Hdwy	6.42 6.52 6.22	- - -	4.12 - -
Critical Hdwy Stg 1	5.42 5.52 -	- - -	- - -
Critical Hdwy Stg 2	5.42 5.52 -	- - -	- - -
Follow-up Hdwy	3.518 4.018 3.318	- - -	2.218 - -
Pot Cap-1 Maneuver	1014 885 1081	0 - -	1614 - 0
Stage 1	1020 893 -	0 - -	- - 0
Stage 2	1019 890 -	0 - -	- - 0
Platoon blocked, %	- - -	- - -	- - -
Mov Cap-1 Maneuver	1014 0 1081	- - -	1614 - -
Mov Cap-2 Maneuver	1014 0 -	- - -	- - -
Stage 1	1020 0 -	- - -	- - -
Stage 2	1019 0 -	- - -	- - -

Approach	EB	NB	SB
HCM Control Delay, s	8.4	0	0
HCM LOS	A		
<hr/>			
Minor Lane/Major Mvmt	NBT	NBR	EBLn1 SBL SBT
Capacity (veh/h)	-	-	1061 1614 -
HCM Lane V/C Ratio	-	-	0.011 - -
HCM Control Delay (s)	-	-	8.4 0 -
HCM Lane LOS	-	-	A A -
HCM 95th %tile Q(veh)	-	-	0 0 -

Intersection

Int Delay, s/veh 5.2

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	0	0	2	3	3	0	2	0	0	0	3
Future Vol, veh/h	0	0	0	2	3	3	0	2	0	0	0	3
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None									
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	-	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	65	65	65	65	65	65	65	65	65	65	65	65
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	0	0	3	5	5	0	3	0	0	0	5

Major/Minor	Minor1	Major1	Major2
Conflicting Flow All	6	8	3
Stage 1	3	3	-
Stage 2	3	5	-
Critical Hdwy	6.42	6.52	6.22
Critical Hdwy Stg 1	5.42	5.52	-
Critical Hdwy Stg 2	5.42	5.52	-
Follow-up Hdwy	3.518	4.018	3.318
Pot Cap-1 Maneuver	1015	887	1081
Stage 1	1020	893	-
Stage 2	1020	892	-
Platoon blocked, %			-
Mov Cap-1 Maneuver	1015	0	1081
Mov Cap-2 Maneuver	1015	0	-
Stage 1	1020	0	-
Stage 2	1020	0	-

Approach	WB	NB	SB
HCM Control Delay, s	8.5	0	0
HCM LOS	A		
<hr/>			
Minor Lane/Major Mvmt	NBL	NBTWBLn1	SBT
Capacity (veh/h)	1616	-	1054
HCM Lane V/C Ratio	-	-	0.012
HCM Control Delay (s)	0	-	8.5
HCM Lane LOS	A	-	A
HCM 95th %tile Q(veh)	0	-	0

Intersection

Int Delay, s/veh 8.5

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	49	2	0	0	0	0	0	1	1	15	0	0
Future Vol, veh/h	49	2	0	0	0	0	0	1	1	15	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None									
Storage Length	-	-	20	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	-	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	62	62	62	62	62	62	62	62	62	62	62	62
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	79	3	0	0	0	0	0	2	2	24	0	0

Major/Minor	Minor2	Major1	Major2
Conflicting Flow All	51 52 0	- 0 0	4 0 0
Stage 1	48 48 -	- - -	- - -
Stage 2	3 4 -	- - -	- - -
Critical Hdwy	6.42 6.52 6.22	- - -	4.12 - -
Critical Hdwy Stg 1	5.42 5.52 -	- - -	- - -
Critical Hdwy Stg 2	5.42 5.52 -	- - -	- - -
Follow-up Hdwy	3.518 4.018 3.318	- - -	2.218 - -
Pot Cap-1 Maneuver	958 839 -	0 - -	1618 - 0
Stage 1	974 855 -	0 - -	- - 0
Stage 2	1020 892 -	0 - -	- - 0
Platoon blocked, %	- - -	- - -	- - -
Mov Cap-1 Maneuver	944 0 -	- - -	1618 - -
Mov Cap-2 Maneuver	944 0 -	- - -	- - -
Stage 1	959 0 -	- - -	- - -
Stage 2	1020 0 -	- - -	- - -

Approach	EB	NB	SB
HCM Control Delay, s	9.2	0	7.3
HCM LOS	A		
<hr/>			
Minor Lane/Major Mvmt	NBT	NBR EBLn1 EBLn2	SBL SBT
Capacity (veh/h)	- -	944 - 1618	- -
HCM Lane V/C Ratio	- -	0.087 - 0.015	- -
HCM Control Delay (s)	- -	9.2 0 7.3 0	- -
HCM Lane LOS	- -	A A A	- -
HCM 95th %tile Q(veh)	- -	0.3 - 0	- -

Intersection

Int Delay, s/veh 1.7

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	0	0	2	3	17	2	48	0	0	13	37
Future Vol, veh/h	0	0	0	2	3	17	2	48	0	0	13	37
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None									
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	-	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	75	75	75	75	75	75	75	75	75	75	75	75
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	0	0	3	4	23	3	64	0	0	17	49

Major/Minor	Minor1	Major1	Major2
Conflicting Flow All	112	136	64
Stage 1	70	70	-
Stage 2	42	66	-
Critical Hdwy	6.42	6.52	6.22
Critical Hdwy Stg 1	5.42	5.52	-
Critical Hdwy Stg 2	5.42	5.52	-
Follow-up Hdwy	3.518	4.018	3.318
Pot Cap-1 Maneuver	885	755	1000
Stage 1	953	837	-
Stage 2	980	840	-
Platoon blocked, %			-
Mov Cap-1 Maneuver	883	0	1000
Mov Cap-2 Maneuver	883	0	-
Stage 1	951	0	-
Stage 2	980	0	-

Approach	WB	NB	SB
HCM Control Delay, s	8.8	0.3	0
HCM LOS	A		
<hr/>			
Minor Lane/Major Mvmt	NBL	NBTWBLn1	SBT
Capacity (veh/h)	1536	-	986
HCM Lane V/C Ratio	0.002	-	0.03
HCM Control Delay (s)	7.3	0	8.8
HCM Lane LOS	A	A	-
HCM 95th %tile Q(veh)	0	-	0.1

Intersection

Int Delay, s/veh 4.5

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	2	1	5	0	0	0	0	0	5	0	2	0
Future Vol, veh/h	2	1	5	0	0	0	0	0	5	0	2	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None									
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	-	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	70	70	70	70	70	70	70	70	70	70	70	70
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	3	1	7	0	0	0	0	0	7	0	3	0

Major/Minor	Minor2	Major1	Major2
Conflicting Flow All	7 10 3	- 0 0	7 0 0
Stage 1	3 3 -	- - -	- - -
Stage 2	4 7 -	- - -	- - -
Critical Hdwy	6.42 6.52 6.22	- - -	4.12 - -
Critical Hdwy Stg 1	5.42 5.52 -	- - -	- - -
Critical Hdwy Stg 2	5.42 5.52 -	- - -	- - -
Follow-up Hdwy	3.518 4.018 3.318	- - -	2.218 - -
Pot Cap-1 Maneuver	1014 885 1081	0 - -	1614 - 0
Stage 1	1020 893 -	0 - -	- - 0
Stage 2	1019 890 -	0 - -	- - 0
Platoon blocked, %	- - -	- - -	- - -
Mov Cap-1 Maneuver	1014 0 1081	- - -	1614 - -
Mov Cap-2 Maneuver	1014 0 -	- - -	- - -
Stage 1	1020 0 -	- - -	- - -
Stage 2	1019 0 -	- - -	- - -

Approach	EB	NB	SB
HCM Control Delay, s	8.4	0	0
HCM LOS	A		
<hr/>			
Minor Lane/Major Mvmt	NBT	NBR	EBLn1 SBL SBT
Capacity (veh/h)	-	-	1061 1614 -
HCM Lane V/C Ratio	-	-	0.011 - -
HCM Control Delay (s)	-	-	8.4 0 -
HCM Lane LOS	-	-	A A -
HCM 95th %tile Q(veh)	-	-	0 0 -

Intersection

Int Delay, s/veh 5.2

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	0	0	2	3	3	0	2	0	0	0	3
Future Vol, veh/h	0	0	0	2	3	3	0	2	0	0	0	3
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None									
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	-	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	65	65	65	65	65	65	65	65	65	65	65	65
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	0	0	3	5	5	0	3	0	0	0	5

Major/Minor	Minor1	Major1	Major2
Conflicting Flow All	6	8	3
Stage 1	3	3	-
Stage 2	3	5	-
Critical Hdwy	6.42	6.52	6.22
Critical Hdwy Stg 1	5.42	5.52	-
Critical Hdwy Stg 2	5.42	5.52	-
Follow-up Hdwy	3.518	4.018	3.318
Pot Cap-1 Maneuver	1015	887	1081
Stage 1	1020	893	-
Stage 2	1020	892	-
Platoon blocked, %			-
Mov Cap-1 Maneuver	1015	0	1081
Mov Cap-2 Maneuver	1015	0	-
Stage 1	1020	0	-
Stage 2	1020	0	-

Approach	WB	NB	SB
HCM Control Delay, s	8.5	0	0
HCM LOS	A		
<hr/>			
Minor Lane/Major Mvmt	NBL	NBTWBLn1	SBT
Capacity (veh/h)	1616	-	1054
HCM Lane V/C Ratio	-	-	0.012
HCM Control Delay (s)	0	-	8.5
HCM Lane LOS	A	-	A
HCM 95th %tile Q(veh)	0	-	0

Intersection

Int Delay, s/veh 7.8

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	65	3	4	0	0	0	0	5	2	12	3	0
Future Vol, veh/h	65	3	4	0	0	0	0	5	2	12	3	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None									
Storage Length	-	-	20	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	-	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	98	98	98	98	98	98	98	98	98	98	98	98
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	66	3	4	0	0	0	0	5	2	12	3	0

Major/Minor	Minor2	Major1	Major2
Conflicting Flow All	33 34 3	- 0 0	7 0 0
Stage 1	27 27 -	- - -	- - -
Stage 2	6 7 -	- - -	- - -
Critical Hdwy	6.42 6.52 6.22	- - -	4.12 - -
Critical Hdwy Stg 1	5.42 5.52 -	- - -	- - -
Critical Hdwy Stg 2	5.42 5.52 -	- - -	- - -
Follow-up Hdwy	3.518 4.018 3.318	- - -	2.218 - -
Pot Cap-1 Maneuver	980 859 1081	0 - -	1614 - 0
Stage 1	996 873 -	0 - -	- - 0
Stage 2	1017 890 -	0 - -	- - 0
Platoon blocked, %	- - -	- - -	- - -
Mov Cap-1 Maneuver	973 0 1081	- - -	1614 - -
Mov Cap-2 Maneuver	973 0 -	- - -	- - -
Stage 1	989 0 -	- - -	- - -
Stage 2	1017 0 -	- - -	- - -

Approach	EB	NB	SB
HCM Control Delay, s	9	0	5.8
HCM LOS	A		
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Minor Lane/Major Mvmt	NBT	NBR EBLn1 EBLn2	SBL SBT
Capacity (veh/h)	- -	973 1081	1614 -
HCM Lane V/C Ratio	- -	0.071 0.004	0.008 -
HCM Control Delay (s)	- -	9 8.3	7.2 0
HCM Lane LOS	- -	A A	A A
HCM 95th %tile Q(veh)	- -	0.2 0	0 -

Intersection

Int Delay, s/veh 1.7

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	0	0	1	5	24	2	68	0	0	14	53
Future Vol, veh/h	0	0	0	1	5	24	2	68	0	0	14	53
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None									
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	-	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	93	93	93	93	93	93	93	93	93	93	93	93
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	0	0	1	5	26	2	73	0	0	15	57

Major/Minor	Minor1	Major1	Major2
Conflicting Flow All	121	149	73
Stage 1	77	77	-
Stage 2	44	72	-
Critical Hdwy	6.42	6.52	6.22
Critical Hdwy Stg 1	5.42	5.52	-
Critical Hdwy Stg 2	5.42	5.52	-
Follow-up Hdwy	3.518	4.018	3.318
Pot Cap-1 Maneuver	874	743	989
Stage 1	946	831	-
Stage 2	978	835	-
Platoon blocked, %			-
Mov Cap-1 Maneuver	873	0	989
Mov Cap-2 Maneuver	873	0	-
Stage 1	945	0	-
Stage 2	978	0	-

Approach	WB	NB	SB
HCM Control Delay, s	8.8	0.2	0
HCM LOS	A		
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Minor Lane/Major Mvmt	NBL	NBTWBLn1	SBT
Capacity (veh/h)	1528	-	984
HCM Lane V/C Ratio	0.001	-	0.033
HCM Control Delay (s)	7.4	0	8.8
HCM Lane LOS	A	A	-
HCM 95th %tile Q(veh)	0	-	0.1

Intersection						
Int Delay, s/veh	0					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	W	B	B		A	
Traffic Vol, veh/h	0	0	72	0	0	41
Future Vol, veh/h	0	0	72	0	0	41
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	75	75	75	75	75	75
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	0	96	0	0	55
Major/Minor	Minor1	Major1		Major2		
Conflicting Flow All	151	96	0	0	96	0
Stage 1	96	-	-	-	-	-
Stage 2	55	-	-	-	-	-
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	841	960	-	-	1498	-
Stage 1	928	-	-	-	-	-
Stage 2	968	-	-	-	-	-
Platoon blocked, %	-	-	-	-	-	-
Mov Cap-1 Maneuver	841	960	-	-	1498	-
Mov Cap-2 Maneuver	841	-	-	-	-	-
Stage 1	928	-	-	-	-	-
Stage 2	968	-	-	-	-	-
Approach	WB	NB		SB		
HCM Control Delay, s	0	0		0		
HCM LOS	A					
Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT	
Capacity (veh/h)	-	-	-	1498	-	
HCM Lane V/C Ratio	-	-	-	-	-	
HCM Control Delay (s)	-	-	0	0	-	
HCM Lane LOS	-	-	A	A	-	
HCM 95th %tile Q(veh)	-	-	-	0	-	

Intersection						
Int Delay, s/veh	0					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	W		A	B		
Traffic Vol, veh/h	0	0	0	72	41	0
Future Vol, veh/h	0	0	0	72	41	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	75	75	75	75	75	75
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	0	0	96	55	0
Major/Minor	Minor2	Major1		Major2		
Conflicting Flow All	151	55	55	0	-	0
Stage 1	55	-	-	-	-	-
Stage 2	96	-	-	-	-	-
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	841	1012	1550	-	-	-
Stage 1	968	-	-	-	-	-
Stage 2	928	-	-	-	-	-
Platoon blocked, %	-	-	-	-	-	-
Mov Cap-1 Maneuver	841	1012	1550	-	-	-
Mov Cap-2 Maneuver	841	-	-	-	-	-
Stage 1	968	-	-	-	-	-
Stage 2	928	-	-	-	-	-
Approach	EB	NB	SB			
HCM Control Delay, s	0	0	0			
HCM LOS	A					
Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR	
Capacity (veh/h)	1550	-	-	-	-	
HCM Lane V/C Ratio	-	-	-	-	-	
HCM Control Delay (s)	0	-	0	-	-	
HCM Lane LOS	A	-	A	-	-	
HCM 95th %tile Q(veh)	0	-	-	-	-	

Intersection

Int Delay, s/veh 5.3

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	2	3	5	0	0	0	0	0	5	0	1	0
Future Vol, veh/h	2	3	5	0	0	0	0	0	5	0	1	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None									
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	-	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	67	67	67	67	67	67	67	67	67	67	67	67
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	3	4	7	0	0	0	0	0	7	0	1	0

Major/Minor	Minor2	Major1	Major2
Conflicting Flow All	5 8 1	- 0 0	7 0 0
Stage 1	1 1 -	- - -	- - -
Stage 2	4 7 -	- - -	- - -
Critical Hdwy	6.42 6.52 6.22	- - -	4.12 - -
Critical Hdwy Stg 1	5.42 5.52 -	- - -	- - -
Critical Hdwy Stg 2	5.42 5.52 -	- - -	- - -
Follow-up Hdwy	3.518 4.018 3.318	- - -	2.218 - -
Pot Cap-1 Maneuver	1017 887 1084	0 - -	1614 - 0
Stage 1	1022 895 -	0 - -	- - 0
Stage 2	1019 890 -	0 - -	- - 0
Platoon blocked, %	- - -	- - -	- - -
Mov Cap-1 Maneuver	1017 0 1084	- - -	1614 - -
Mov Cap-2 Maneuver	1017 0 -	- - -	- - -
Stage 1	1022 0 -	- - -	- - -
Stage 2	1019 0 -	- - -	- - -

Approach	EB	NB	SB
HCM Control Delay, s	8.4	0	0
HCM LOS	A		
<hr/>			
Minor Lane/Major Mvmt	NBT	NBR	EBLn1 SBL SBT
Capacity (veh/h)	-	-	1064 1614 -
HCM Lane V/C Ratio	-	-	0.014 - -
HCM Control Delay (s)	-	-	8.4 0 -
HCM Lane LOS	-	-	A A -
HCM 95th %tile Q(veh)	-	-	0 0 -

Intersection

Int Delay, s/veh 5.7

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	0	0	1	5	2	1	1	0	0	0	3
Future Vol, veh/h	0	0	0	1	5	2	1	1	0	0	0	3
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None									
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	-	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	81	81	81	81	81	81	81	81	81	81	81	81
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	0	0	1	6	2	1	1	0	0	0	4

Major/Minor	Minor1	Major1	Major2
Conflicting Flow All	5	7	1
Stage 1	3	3	-
Stage 2	2	4	-
Critical Hdwy	6.42	6.52	6.22
Critical Hdwy Stg 1	5.42	5.52	-
Critical Hdwy Stg 2	5.42	5.52	-
Follow-up Hdwy	3.518	4.018	3.318
Pot Cap-1 Maneuver	1017	888	1084
Stage 1	1020	893	-
Stage 2	1021	892	-
Platoon blocked, %			-
Mov Cap-1 Maneuver	1016	0	1084
Mov Cap-2 Maneuver	1016	0	-
Stage 1	1019	0	-
Stage 2	1021	0	-

Approach	WB	NB	SB
HCM Control Delay, s	8.4	3.6	0
HCM LOS	A		
<hr/>			
Minor Lane/Major Mvmt	NBL	NBTWBLn1	SBT
Capacity (veh/h)	1618	-	1060
HCM Lane V/C Ratio	0.001	-	0.009
HCM Control Delay (s)	7.2	0	8.4
HCM Lane LOS	A	A	-
HCM 95th %tile Q(veh)	0	-	0

Intersection

Int Delay, s/veh 11.3

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	347	2	0	0	0	0	0	1	1	32	0	0
Future Vol, veh/h	347	2	0	0	0	0	0	1	1	32	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None									
Storage Length	-	-	20	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	-	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	377	2	0	0	0	0	0	1	1	35	0	0

Major/Minor	Minor2	Major1	Major2
Conflicting Flow All	72 72 0	- 0 0	2 0 0
Stage 1	70 70 -	- - -	- - -
Stage 2	2 2 -	- - -	- - -
Critical Hdwy	6.42 6.52 6.22	- - -	4.12 - -
Critical Hdwy Stg 1	5.42 5.52 -	- - -	- - -
Critical Hdwy Stg 2	5.42 5.52 -	- - -	- - -
Follow-up Hdwy	3.518 4.018 3.318	- - -	2.218 - -
Pot Cap-1 Maneuver	932 818 -	0 - -	1620 - 0
Stage 1	953 837 -	0 - -	- - 0
Stage 2	1021 894 -	0 - -	- - 0
Platoon blocked, %	- - -	- - -	- - -
Mov Cap-1 Maneuver	911 0 -	- - -	1620 - -
Mov Cap-2 Maneuver	911 0 -	- - -	- - -
Stage 1	932 0 -	- - -	- - -
Stage 2	1021 0 -	- - -	- - -

Approach	EB	NB	SB
HCM Control Delay, s	11.7	0	7.3
HCM LOS	B		
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Minor Lane/Major Mvmt	NBT	NBR EBLn1 EBLn2	SBL SBT
Capacity (veh/h)	- -	911 - 1620	- -
HCM Lane V/C Ratio	- -	0.416 - 0.021	- -
HCM Control Delay (s)	- -	11.7 0 7.3 0	- -
HCM Lane LOS	- -	B A A A	- -
HCM 95th %tile Q(veh)	- -	2.1 - 0.1	- -

Intersection

Int Delay, s/veh 4.5

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	0	0	2	3	211	2	346	0	0	30	41
Future Vol, veh/h	0	0	0	2	3	211	2	346	0	0	30	41
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None									
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	-	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	0	0	2	3	229	2	376	0	0	33	45

Major/Minor	Minor1	Major1	Major2
Conflicting Flow All	436	458	376
Stage 1	380	380	-
Stage 2	56	78	-
Critical Hdwy	6.42	6.52	6.22
Critical Hdwy Stg 1	5.42	5.52	-
Critical Hdwy Stg 2	5.42	5.52	-
Follow-up Hdwy	3.518	4.018	3.318
Pot Cap-1 Maneuver	578	499	670
Stage 1	691	614	-
Stage 2	967	830	-
Platoon blocked, %			-
Mov Cap-1 Maneuver	577	0	670
Mov Cap-2 Maneuver	577	0	-
Stage 1	690	0	-
Stage 2	967	0	-

Approach	WB	NB	SB
HCM Control Delay, s	13.3	0	0
HCM LOS	B		
<hr/>			
Minor Lane/Major Mvmt	NBL	NBTWBLn1	SBT
Capacity (veh/h)	1520	-	669
HCM Lane V/C Ratio	0.001	-	0.351
HCM Control Delay (s)	7.4	0	13.3
HCM Lane LOS	A	A	B
HCM 95th %tile Q(veh)	0	-	1.6

Intersection						
Int Delay, s/veh	0					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	W	B	B		A	
Traffic Vol, veh/h	0	0	57	0	0	24
Future Vol, veh/h	0	0	57	0	0	24
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	62	0	0	26
Major/Minor	Minor1	Major1		Major2		
Conflicting Flow All	88	62	0	0	62	0
Stage 1	62	-	-	-	-	-
Stage 2	26	-	-	-	-	-
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	913	1003	-	-	1541	-
Stage 1	961	-	-	-	-	-
Stage 2	997	-	-	-	-	-
Platoon blocked, %	-	-	-	-	-	-
Mov Cap-1 Maneuver	913	1003	-	-	1541	-
Mov Cap-2 Maneuver	913	-	-	-	-	-
Stage 1	961	-	-	-	-	-
Stage 2	997	-	-	-	-	-
Approach	WB	NB	SB			
HCM Control Delay, s	0	0	0			
HCM LOS	A					
Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT	
Capacity (veh/h)	-	-	-	1541	-	
HCM Lane V/C Ratio	-	-	-	-	-	
HCM Control Delay (s)	-	-	0	0	-	
HCM Lane LOS	-	-	A	A	-	
HCM 95th %tile Q(veh)	-	-	-	0	-	

Intersection						
Int Delay, s/veh	0					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	W			A	B	
Traffic Vol, veh/h	0	0	0	57	24	0
Future Vol, veh/h	0	0	0	57	24	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	62	26	0
Major/Minor	Minor2	Major1		Major2		
Conflicting Flow All	88	26	26	0	-	0
Stage 1	26	-	-	-	-	-
Stage 2	62	-	-	-	-	-
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	913	1050	1588	-	-	-
Stage 1	997	-	-	-	-	-
Stage 2	961	-	-	-	-	-
Platoon blocked, %	-	-	-	-	-	-
Mov Cap-1 Maneuver	913	1050	1588	-	-	-
Mov Cap-2 Maneuver	913	-	-	-	-	-
Stage 1	997	-	-	-	-	-
Stage 2	961	-	-	-	-	-
Approach	EB	NB	SB			
HCM Control Delay, s	0	0	0			
HCM LOS	A					
Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR	
Capacity (veh/h)	1588	-	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-	-	-
HCM Control Delay (s)	0	-	0	-	-	-
HCM Lane LOS	A	-	A	-	-	-
HCM 95th %tile Q(veh)	0	-	-	-	-	-

Intersection

Int Delay, s/veh 30

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	831	1	5	0	0	0	0	0	5	2	2	0
Future Vol, veh/h	831	1	5	0	0	0	0	0	5	2	2	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None									
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	-	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	903	1	5	0	0	0	0	0	5	2	2	0

Major/Minor	Minor2	Major1	Major2
Conflicting Flow All	9 11 2	- 0 0	5 0 0
Stage 1	6 6 -	- - -	- - -
Stage 2	3 5 -	- - -	- - -
Critical Hdwy	6.42 6.52 6.22	- - -	4.12 - -
Critical Hdwy Stg 1	5.42 5.52 -	- - -	- - -
Critical Hdwy Stg 2	5.42 5.52 -	- - -	- - -
Follow-up Hdwy	3.518 4.018 3.318	- - -	2.218 - -
Pot Cap-1 Maneuver	1011 884 1082	0 - -	1616 - 0
Stage 1	1017 891 -	0 - -	- - 0
Stage 2	1020 892 -	0 - -	- - 0
Platoon blocked, %	- - -	- - -	- - -
Mov Cap-1 Maneuver	1010 0 1082	- - -	1616 - -
Mov Cap-2 Maneuver	1010 0 -	- - -	- - -
Stage 1	1016 0 -	- - -	- - -
Stage 2	1020 0 -	- - -	- - -

Approach	EB	NB	SB
HCM Control Delay, s	30.3	0	3.6
HCM LOS	D		
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Minor Lane/Major Mvmt	NBT	NBR	EBLn1 SBL SBT
Capacity (veh/h)	-	-	1010 1616 -
HCM Lane V/C Ratio	-	-	0.901 0.001 -
HCM Control Delay (s)	-	-	30.3 7.2 0
HCM Lane LOS	-	-	D A A
HCM 95th %tile Q(veh)	-	-	13.2 0 -

Intersection

Int Delay, s/veh 321.4

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	0	0	2	3	748	0	831	0	0	2	6
Future Vol, veh/h	0	0	0	2	3	748	0	831	0	0	2	6
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None									
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	-	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	0	0	2	3	813	0	903	0	0	2	7

Major/Minor	Minor1	Major1	Major2
Conflicting Flow All	909	912	903
Stage 1	903	903	-
Stage 2	6	9	-
Critical Hdwy	6.42	6.52	6.22
Critical Hdwy Stg 1	5.42	5.52	-
Critical Hdwy Stg 2	5.42	5.52	-
Follow-up Hdwy	3.518	4.018	3.318
Pot Cap-1 Maneuver	305	274	~ 336
Stage 1	396	356	-
Stage 2	1017	888	-
Platoon blocked, %			-
Mov Cap-1 Maneuver	305	0	~ 336
Mov Cap-2 Maneuver	305	0	-
Stage 1	396	0	-
Stage 2	1017	0	-

Approach	WB	NB	SB
HCM Control Delay, s	\$ 679.6	0	0
HCM LOS	F		
<hr/>			
Minor Lane/Major Mvmt	NBL	NBTWBLn1	SBT
Capacity (veh/h)	1611	-	336
HCM Lane V/C Ratio	-	-	2.436
HCM Control Delay (s)	0	\$ 679.6	-
HCM Lane LOS	A	-	F
HCM 95th %tile Q(veh)	0	-	65

Notes

~: Volume exceeds capacity \$: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon

Intersection

Int Delay, s/veh 8.7

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	66	3	4	0	0	0	0	5	2	188	3	0
Future Vol, veh/h	66	3	4	0	0	0	0	5	2	188	3	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None									
Storage Length	-	-	20	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	-	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	72	3	4	0	0	0	0	5	2	204	3	0

Major/Minor	Minor2	Major1	Major2
Conflicting Flow All	417 418 3	- 0 0	7 0 0
Stage 1	411 411 -	- - -	- - -
Stage 2	6 7 -	- - -	- - -
Critical Hdwy	6.42 6.52 6.22	- - -	4.12 - -
Critical Hdwy Stg 1	5.42 5.52 -	- - -	- - -
Critical Hdwy Stg 2	5.42 5.52 -	- - -	- - -
Follow-up Hdwy	3.518 4.018 3.318	- - -	2.218 - -
Pot Cap-1 Maneuver	592 526 1081	0 - -	1614 - 0
Stage 1	669 595 -	0 - -	- - 0
Stage 2	1017 890 -	0 - -	- - 0
Platoon blocked, %	- - -	- - -	- - -
Mov Cap-1 Maneuver	517 0 1081	- - -	1614 - -
Mov Cap-2 Maneuver	517 0 -	- - -	- - -
Stage 1	584 0 -	- - -	- - -
Stage 2	1017 0 -	- - -	- - -

Approach	EB	NB	SB
HCM Control Delay, s	12.8	0	7.4
HCM LOS	B		
<hr/>			
Minor Lane/Major Mvmt	NBT	NBR EBLn1 EBLn2	SBL SBT
Capacity (veh/h)	- -	517 1081	1614 -
HCM Lane V/C Ratio	- -	0.145 0.004	0.127 -
HCM Control Delay (s)	- -	13.1 8.3	7.6 0
HCM Lane LOS	- -	B A	A A
HCM 95th %tile Q(veh)	- -	0.5 0	0.4 -

Intersection												
Int Delay, s/veh	0.4											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	0	0	1	5	24	2	69	0	0	190	351
Future Vol, veh/h	0	0	0	1	5	24	2	69	0	0	190	351
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	-	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	0	0	1	5	26	2	75	0	0	207	382
Major/Minor			Minor1		Major1		Major2					
Conflicting Flow All			477	668	75	589	0	-	-	-	-	0
Stage 1			79	79	-	-	-	-	-	-	-	-
Stage 2			398	589	-	-	-	-	-	-	-	-
Critical Hdwy	6.42	6.52	6.22	4.12	-	-	-	-	-	-	-	-
Critical Hdwy Stg 1	5.42	5.52	-	-	-	-	-	-	-	-	-	-
Critical Hdwy Stg 2	5.42	5.52	-	-	-	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	2.218	-	-	-	-	-	-	-	-
Pot Cap-1 Maneuver	547	379	986	986	-	0	0	-	-	-	-	-
Stage 1	944	829	-	-	-	0	0	-	-	-	-	-
Stage 2	678	495	-	-	-	0	0	-	-	-	-	-
Platoon blocked, %							-	-	-	-	-	-
Mov Cap-1 Maneuver	546	0	986	986	-	-	-	-	-	-	-	-
Mov Cap-2 Maneuver	546	0	-	-	-	-	-	-	-	-	-	-
Stage 1	942	0	-	-	-	-	-	-	-	-	-	-
Stage 2	678	0	-	-	-	-	-	-	-	-	-	-
Approach			WB		NB		SB					
HCM Control Delay, s			8.9		0.2		0					
HCM LOS			A									
Minor Lane/Major Mvmt			NBL	NBT	WBL	Nln1	SBT	SBR				
Capacity (veh/h)	986	-	955	-	-	-	-	-	-	-	-	-
HCM Lane V/C Ratio	0.002	-	0.034	-	-	-	-	-	-	-	-	-
HCM Control Delay (s)	8.7	0	8.9	-	-	-	-	-	-	-	-	-
HCM Lane LOS	A	A	A	-	-	-	-	-	-	-	-	-
HCM 95th %tile Q(veh)	0	-	0.1	-	-	-	-	-	-	-	-	-

Intersection						
Int Delay, s/veh	0					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	W	B	B		A	
Traffic Vol, veh/h	0	0	76	0	0	41
Future Vol, veh/h	0	0	76	0	0	41
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	83	0	0	45
Major/Minor	Minor1	Major1		Major2		
Conflicting Flow All	128	83	0	0	83	0
Stage 1	83	-	-	-	-	-
Stage 2	45	-	-	-	-	-
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	866	976	-	-	1514	-
Stage 1	940	-	-	-	-	-
Stage 2	977	-	-	-	-	-
Platoon blocked, %	-	-	-	-	-	-
Mov Cap-1 Maneuver	866	976	-	-	1514	-
Mov Cap-2 Maneuver	866	-	-	-	-	-
Stage 1	940	-	-	-	-	-
Stage 2	977	-	-	-	-	-
Approach	WB	NB		SB		
HCM Control Delay, s	0	0		0		
HCM LOS	A					
Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT	
Capacity (veh/h)	-	-	-	1514	-	
HCM Lane V/C Ratio	-	-	-	-	-	
HCM Control Delay (s)	-	-	0	0	-	
HCM Lane LOS	-	-	A	A	-	
HCM 95th %tile Q(veh)	-	-	-	0	-	

Intersection						
Int Delay, s/veh	0					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	W			A	B	
Traffic Vol, veh/h	0	0	0	76	41	0
Future Vol, veh/h	0	0	0	76	41	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	83	45	0
Major/Minor	Minor2	Major1		Major2		
Conflicting Flow All	128	45	45	0	-	0
Stage 1	45	-	-	-	-	-
Stage 2	83	-	-	-	-	-
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	866	1025	1563	-	-	-
Stage 1	977	-	-	-	-	-
Stage 2	940	-	-	-	-	-
Platoon blocked, %	-	-	-	-	-	-
Mov Cap-1 Maneuver	866	1025	1563	-	-	-
Mov Cap-2 Maneuver	866	-	-	-	-	-
Stage 1	977	-	-	-	-	-
Stage 2	940	-	-	-	-	-
Approach	EB	NB	SB			
HCM Control Delay, s	0	0	0			
HCM LOS	A					
Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR	
Capacity (veh/h)	1563	-	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-	-	-
HCM Control Delay (s)	0	-	0	-	-	-
HCM Lane LOS	A	-	A	-	-	-
HCM 95th %tile Q(veh)	0	-	-	-	-	-

Intersection

Int Delay, s/veh 9.9

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	5	3	5	0	0	0	0	0	5	745	1	0
Future Vol, veh/h	5	3	5	0	0	0	0	0	5	745	1	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None									
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	-	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	5	3	5	0	0	0	0	0	5	810	1	0

Major/Minor	Minor2	Major1	Major2
Conflicting Flow All	1624	1626	1
Stage 1	1621	1621	-
Stage 2	3	5	-
Critical Hdwy	6.42	6.52	6.22
Critical Hdwy Stg 1	5.42	5.52	-
Critical Hdwy Stg 2	5.42	5.52	-
Follow-up Hdwy	3.518	4.018	3.318
Pot Cap-1 Maneuver	113	102	1084
Stage 1	178	161	-
Stage 2	1020	892	-
Platoon blocked, %			-
Mov Cap-1 Maneuver	56	0	1084
Mov Cap-2 Maneuver	56	0	-
Stage 1	89	0	-
Stage 2	1020	0	-

Approach	EB	NB	SB
HCM Control Delay, s	44.1	0	9.4
HCM LOS	E		
<hr/>			
Minor Lane/Major Mvmt	NBT	NBR	EBLn1 SBL SBT
Capacity (veh/h)	-	-	106 1616 -
HCM Lane V/C Ratio	-	-	0.133 0.501 -
HCM Control Delay (s)	-	-	44.1 9.4 0
HCM Lane LOS	-	-	E A A
HCM 95th %tile Q(veh)	-	-	0.4 2.9 -

Intersection

Int Delay, s/veh 0.1

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	0	0	1	5	5	1	4	0	0	745	832
Future Vol, veh/h	0	0	0	1	5	5	1	4	0	0	745	832
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None									
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	-	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	0	0	1	5	5	1	4	0	0	810	904

Major/Minor	Minor1	Major1	Major2
Conflicting Flow All	1268	1720	4 1714 0 - - - - 0
Stage 1	6	6	- - - - - - - - -
Stage 2	1262	1714	- - - - - - - - -
Critical Hdwy	6.42	6.52	6.22 4.12 - - - - -
Critical Hdwy Stg 1	5.42	5.52	- - - - - - - - -
Critical Hdwy Stg 2	5.42	5.52	- - - - - - - - -
Follow-up Hdwy	3.518	4.018	3.318 2.218 - - - - -
Pot Cap-1 Maneuver	186	89	1080 370 - 0 0 - - -
Stage 1	1017	891	- - - - 0 0 - - -
Stage 2	266	145	- - - - 0 0 - - -
Platoon blocked, %			- - - - - - - - -
Mov Cap-1 Maneuver	185	0	1080 370 - - - - -
Mov Cap-2 Maneuver	185	0	- - - - - - - - -
Stage 1	1014	0	- - - - - - - - -
Stage 2	266	0	- - - - - - - - -

Approach	WB	NB	SB
HCM Control Delay, s	11.1	3	0
HCM LOS	B		
<hr/>			
Minor Lane/Major Mvmt	NBL	NBTWBLn1	SBT SBR
Capacity (veh/h)	370	-	598 - -
HCM Lane V/C Ratio	0.003	-	0.02 - -
HCM Control Delay (s)	14.8	0	11.1 - -
HCM Lane LOS	B	A	B - -
HCM 95th %tile Q(veh)	0	-	0.1 - -

HCM 6th Signalized Intersection Summary
1: I-10 EB Ramps & SR-177

Ambient+Project MIT 1 AM
04/15/2018

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	635	2	0	0	0	0	0	1	1	32	0	0
Future Volume (veh/h)	635	2	0	0	0	0	0	1	1	32	0	0
Initial Q (Q _b), 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				0	1870	1870	1870	1870	0
Adj Flow Rate, veh/h	690	2	0				0	1	1	35	0	0
Peak Hour Factor	0.92	0.92	0.92				0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2				0	2	2	2	2	0
Cap, veh/h	948	3	846				0	143	143	474	0	0
Arrive On Green	0.53	0.53	0.00				0.00	0.17	0.17	0.17	0.00	0.00
Sat Flow, veh/h	1776	5	1585				0	858	858	1407	0	0
Grp Volume(v), veh/h	692	0	0				0	0	2	35	0	0
Grp Sat Flow(s), veh/h/ln	1782	0	1585				0	0	1716	1407	0	0
Q Serve(g_s), s	8.9	0.0	0.0				0.0	0.0	0.0	0.6	0.0	0.0
Cycle Q Clear(g_c), s	8.9	0.0	0.0				0.0	0.0	0.0	0.7	0.0	0.0
Prop In Lane	1.00		1.00				0.00		0.50	1.00		0.00
Lane Grp Cap(c), veh/h	951	0	846				0	0	286	474	0	0
V/C Ratio(X)	0.73	0.00	0.00				0.00	0.00	0.01	0.07	0.00	0.00
Avail Cap(c_a), veh/h	1928	0	1716				0	0	1057	1110	0	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(l)	1.00	0.00	0.00				0.00	0.00	1.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	5.3	0.0	0.0				0.0	0.0	10.4	10.7	0.0	0.0
Incr Delay (d2), s/veh	1.1	0.0	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
%ile BackOfQ(50%), veh/ln	1.4	0.0	0.0				0.0	0.0	0.0	0.2	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	6.4	0.0	0.0				0.0	0.0	10.5	10.8	0.0	0.0
LnGrp LOS	A	A	A				A	A	B	B	A	A
Approach Vol, veh/h	692							2		35		
Approach Delay, s/veh	6.4							10.5		10.8		
Approach LOS	A							B		B		
Timer - Assigned Phs	2		4		6							
Phs Duration (G+Y+R _c), s	9.5		20.5		9.5							
Change Period (Y+R _c), s	4.5		4.5		4.5							
Max Green Setting (Gmax), s	18.5		32.5		18.5							
Max Q Clear Time (g_c+l1), s	2.0		10.9		2.7							
Green Ext Time (p_c), s	0.0		5.2		0.1							
Intersection Summary												
HCM 6th Ctrl Delay			6.6									
HCM 6th LOS			A									

HCM 6th Signalized Intersection Summary
2: SR-177 & I-10 WB Ramps

Ambient+Project MIT 1 AM

04/15/2018



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	2	3	402	2	634	0	0	30	43
Future Volume (veh/h)	0	0	0	2	3	402	2	634	0	0	30	43
Initial Q (Q _b), 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				1900	1870	1900	1870	1870	0	0	1870	1870
Adj Flow Rate, veh/h				2	3	437	2	689	0	0	33	47
Peak Hour Factor				0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %				0	2	0	2	2	0	0	2	2
Cap, veh/h				2	4	522	83	865	0	0	323	460
Arrive On Green				0.33	0.33	0.33	0.46	0.46	0.00	0.00	0.46	0.46
Sat Flow, veh/h				7	11	1570	1	1869	0	0	698	994
Grp Volume(v), veh/h				442	0	0	691	0	0	0	0	80
Grp Sat Flow(s), veh/h/ln				1587	0	0	1870	0	0	0	0	1691
Q Serve(g_s), s				11.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
Cycle Q Clear(g_c), s				11.3	0.0	0.0	13.8	0.0	0.0	0.0	0.0	1.2
Prop In Lane				0.00		0.99	0.00		0.00	0.00		0.59
Lane Grp Cap(c), veh/h				528	0	0	947	0	0	0	0	783
V/C Ratio(X)				0.84	0.00	0.00	0.73	0.00	0.00	0.00	0.00	0.10
Avail Cap(c_a), veh/h				668	0	0	1464	0	0	0	0	1251
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(l)				1.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00
Uniform Delay (d), s/veh				13.6	0.0	0.0	10.1	0.0	0.0	0.0	0.0	6.7
Incr Delay (d2), s/veh				7.5	0.0	0.0	1.1	0.0	0.0	0.0	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
%ile BackOfQ(50%), veh/ln				4.3	0.0	0.0	4.3	0.0	0.0	0.0	0.0	0.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh				21.0	0.0	0.0	11.2	0.0	0.0	0.0	0.0	6.7
LnGrp LOS				C	A	A	B	A	A	A	A	A
Approach Vol, veh/h				442			691			80		
Approach Delay, s/veh				21.0			11.2			6.7		
Approach LOS				C			B			A		
Timer - Assigned Phs	2				6		8					
Phs Duration (G+Y+R _c), s	24.8				24.8		19.1					
Change Period (Y+R _c), s	4.5				4.5		4.5					
Max Green Setting (Gmax), s	32.5				32.5		18.5					
Max Q Clear Time (g _{c+l1}), s	15.8				3.2		13.3					
Green Ext Time (p _c), s	4.5				0.4		1.4					
Intersection Summary												
HCM 6th Ctrl Delay				14.5								
HCM 6th LOS				B								

HCM 6th Signalized Intersection Summary
5: I-10 EB Ramps & Corn Springs Road

Ambient+Project MIT 1 AM

04/15/2018

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	863	1	5	0	0	0	0	0	5	3	2	0
Future Volume (veh/h)	863	1	5	0	0	0	0	0	5	3	2	0
Initial Q (Q _b), 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	1900	1870	1900				0	1870	1870	1870	1870	0
Adj Flow Rate, veh/h	938	1	5				0	0	5	3	2	0
Peak Hour Factor	0.92	0.92	0.92				0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	0	2	0				0	2	2	2	2	0
Cap, veh/h	1156	1	6				0	0	196	231	114	0
Arrive On Green	0.65	0.65	0.65				0.00	0.00	0.12	0.12	0.12	0.00
Sat Flow, veh/h	1769	2	9				0	0	1585	714	924	0
Grp Volume(v), veh/h	944	0	0				0	0	5	5	0	0
Grp Sat Flow(s), veh/h/ln	1780	0	0				0	0	1585	1638	0	0
Q Serve(g_s), s	15.8	0.0	0.0				0.0	0.0	0.1	0.0	0.0	0.0
Cycle Q Clear(g_c), s	15.8	0.0	0.0				0.0	0.0	0.1	0.1	0.0	0.0
Prop In Lane	0.99		0.01				0.00		1.00	0.60		0.00
Lane Grp Cap(c), veh/h	1163	0	0				0	0	196	345	0	0
V/C Ratio(X)	0.81	0.00	0.00				0.00	0.00	0.03	0.01	0.00	0.00
Avail Cap(c_a), veh/h	1830	0	0				0	0	765	907	0	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(l)	1.00	0.00	0.00				0.00	0.00	1.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	5.2	0.0	0.0				0.0	0.0	15.5	15.5	0.0	0.0
Incr Delay (d2), s/veh	1.6	0.0	0.0				0.0	0.0	0.1	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
%ile BackOfQ(50%), veh/ln	2.5	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	6.7	0.0	0.0				0.0	0.0	15.6	15.6	0.0	0.0
LnGrp LOS	A	A	A				A	A	B	B	A	A
Approach Vol, veh/h	944							5		5		
Approach Delay, s/veh	6.7							15.6		15.6		
Approach LOS	A							B		B		
Timer - Assigned Phs	2		4		6							
Phs Duration (G+Y+R _c), s	9.5		30.9		9.5							
Change Period (Y+R _c), s	4.5		4.5		4.5							
Max Green Setting (Gmax), s	19.5		41.5		19.5							
Max Q Clear Time (g _{c+l1}), s	2.1		17.8		2.1							
Green Ext Time (p _c), s	0.0		8.6		0.0							
Intersection Summary												
HCM 6th Ctrl Delay			6.8									
HCM 6th LOS			A									

HCM 6th Signalized Intersection Summary
6: Corn Springs Road & I-10 WB Ramps

Ambient+Project MIT 1 AM

04/15/2018



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations					↑	↑		↑			↑	↑
Traffic Volume (veh/h)	0	0	0	2	3	770	0	863	0	0	3	6
Future Volume (veh/h)	0	0	0	2	3	770	0	863	0	0	3	6
Initial Q (Q _b), 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				0	0	841	0	938	0	0	3	7
Peak Hour Factor				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	0	0	2	2
Cap, veh/h				0	554	938	0	1050	0	0	1050	890
Arrive On Green				0.00	0.00	0.30	0.00	0.56	0.00	0.00	0.56	0.56
Sat Flow, veh/h				0	1870	3170	0	1870	0	0	1870	1585
Grp Volume(v), veh/h				0	0	841	0	938	0	0	3	7
Grp Sat Flow(s), veh/h/ln				0	1870	1585	0	1870	0	0	1870	1585
Q Serve(g_s), s				0.0	0.0	16.0	0.0	27.8	0.0	0.0	0.0	0.1
Cycle Q Clear(g_c), s				0.0	0.0	16.0	0.0	27.8	0.0	0.0	0.0	0.1
Prop In Lane				0.00		1.00	0.00		0.00	0.00		1.00
Lane Grp Cap(c), veh/h				0	554	938	0	1050	0	0	1050	890
V/C Ratio(X)				0.00	0.00	0.90	0.00	0.89	0.00	0.00	0.00	0.01
Avail Cap(c_a), veh/h				0	578	980	0	1231	0	0	1231	1043
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(l)				0.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				0.0	0.0	21.3	0.0	12.2	0.0	0.0	6.1	6.1
Incr Delay (d2), s/veh				0.0	0.0	10.5	0.0	7.8	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
%ile BackOfQ(50%), veh/ln				0.0	0.0	6.8	0.0	11.3	0.0	0.0	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh				0.0	0.0	31.8	0.0	19.9	0.0	0.0	6.1	6.1
LnGrp LOS				A	A	C	A	B	A	A	A	A
Approach Vol, veh/h					841			938			10	
Approach Delay, s/veh					31.8			19.9			6.1	
Approach LOS					C			B			A	
Timer - Assigned Phs				2		6		8				
Phs Duration (G+Y+Rc), s				39.9		39.9		23.2				
Change Period (Y+Rc), s				4.5		4.5		4.5				
Max Green Setting (Gmax), s				41.5		41.5		19.5				
Max Q Clear Time (g_c+l1), s				29.8		2.1		18.0				
Green Ext Time (p_c), s				5.6		0.0		0.6				
Intersection Summary												
HCM 6th Ctrl Delay				25.4								
HCM 6th LOS				C								
Notes												
User approved volume balancing among the lanes for turning movement.												

HCM 6th Signalized Intersection Summary
1: I-10 EB Ramps & SR-177

Ambient+Project MIT-1 PM
04/15/2018

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	68	3	4	0	0	0	0	5	2	379	3	0
Future Volume (veh/h)	68	3	4	0	0	0	0	5	2	379	3	0
Initial Q (Q _b), 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				0	1870	1870	1870	1870	0
Adj Flow Rate, veh/h	74	3	4				0	5	2	412	3	0
Peak Hour Factor	0.92	0.92	0.92				0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2				0	2	2	2	2	0
Cap, veh/h	156	6	144				0	581	232	998	6	0
Arrive On Green	0.09	0.09	0.09				0.00	0.46	0.46	0.46	0.46	0.00
Sat Flow, veh/h	1715	70	1585				0	1271	508	1394	13	0
Grp Volume(v), veh/h	77	0	4				0	0	7	415	0	0
Grp Sat Flow(s), veh/h/ln	1785	0	1585				0	0	1779	1407	0	0
Q Serve(g_s), s	0.8	0.0	0.0				0.0	0.0	0.0	4.5	0.0	0.0
Cycle Q Clear(g_c), s	0.8	0.0	0.0				0.0	0.0	0.0	4.5	0.0	0.0
Prop In Lane	0.96		1.00				0.00		0.29	0.99		0.00
Lane Grp Cap(c), veh/h	162	0	144				0	0	813	1004	0	0
V/C Ratio(X)	0.48	0.00	0.03				0.00	0.00	0.01	0.41	0.00	0.00
Avail Cap(c_a), veh/h	1622	0	1441				0	0	2493	2336	0	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(l)	1.00	0.00	1.00				0.00	0.00	1.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	8.6	0.0	8.3				0.0	0.0	2.9	4.2	0.0	0.0
Incr Delay (d2), s/veh	2.2	0.0	0.1				0.0	0.0	0.0	0.3	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
%ile BackOfQ(50%), veh/ln	0.3	0.0	0.0				0.0	0.0	0.0	0.2	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	10.8	0.0	8.3				0.0	0.0	2.9	4.4	0.0	0.0
LnGrp LOS	B	A	A				A	A	A	A	A	A
Approach Vol, veh/h		81						7		415		
Approach Delay, s/veh		10.6						2.9		4.4		
Approach LOS		B						A		A		
Timer - Assigned Phs	2		4		6							
Phs Duration (G+Y+R _c), s	13.6		6.3		13.6							
Change Period (Y+R _c), s	4.5		4.5		4.5							
Max Green Setting (Gmax), s	27.9		18.1		27.9							
Max Q Clear Time (g_c+l1), s	2.0		2.8		6.5							
Green Ext Time (p_c), s	0.0		0.3		2.6							
Intersection Summary												
HCM 6th Ctrl Delay			5.4									
HCM 6th LOS			A									

HCM 6th Signalized Intersection Summary
2: SR-177 & I-10 WB Ramps

Ambient+Project MIT-1 PM

04/15/2018



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	1	5	24	2	71	0	0	381	639
Future Volume (veh/h)	0	0	0	1	5	24	2	71	0	0	381	639
Initial Q (Q _b), 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				1900	1870	1900	1870	1870	0	0	1870	1870
Adj Flow Rate, veh/h				1	5	26	2	77	0	0	414	695
Peak Hour Factor				0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %				0	2	0	2	2	0	0	2	2
Cap, veh/h				2	9	48	86	1415	0	0	484	812
Arrive On Green				0.04	0.04	0.04	0.77	0.77	0.00	0.00	0.77	0.77
Sat Flow, veh/h				51	255	1324	9	1836	0	0	627	1053
Grp Volume(v), veh/h				32	0	0	79	0	0	0	0	1109
Grp Sat Flow(s), veh/h/ln				1630	0	0	1846	0	0	0	0	1681
Q Serve(g_s), s				0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.7
Cycle Q Clear(g_c), s				0.9	0.0	0.0	0.5	0.0	0.0	0.0	0.0	20.7
Prop In Lane				0.03		0.81	0.03		0.00	0.00		0.63
Lane Grp Cap(c), veh/h				59	0	0	1502	0	0	0	0	1295
V/C Ratio(X)				0.54	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.86
Avail Cap(c_a), veh/h				632	0	0	2137	0	0	0	0	1905
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(l)				1.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00
Uniform Delay (d), s/veh				22.1	0.0	0.0	1.3	0.0	0.0	0.0	0.0	3.6
Incr Delay (d2), s/veh				7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
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				0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh				29.5	0.0	0.0	1.3	0.0	0.0	0.0	0.0	6.3
LnGrp LOS				C	A	A	A	A	A	A	A	A
Approach Vol, veh/h				32			79			1109		
Approach Delay, s/veh				29.5			1.3			6.3		
Approach LOS				C			A			A		
Timer - Assigned Phs				2			6			8		
Phs Duration (G+Y+R _c), s				40.5			40.5			6.2		
Change Period (Y+R _c), s				4.5			4.5			4.5		
Max Green Setting (Gmax), s				52.9			52.9			18.1		
Max Q Clear Time (g _{c+l1}), s				2.5			22.7			2.9		
Green Ext Time (p _c), s				0.5			13.2			0.1		
Intersection Summary												
HCM 6th Ctrl Delay				6.6								
HCM 6th LOS				A								

HCM 6th Signalized Intersection Summary
5: I-10 EB Ramps & Corn Springs Road

Ambient+Project MIT-1 PM
04/15/2018

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	5	3	5	0	0	0	0	0	5	767	1	0
Future Volume (veh/h)	5	3	5	0	0	0	0	0	5	767	1	0
Initial Q (Q _b), 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	1900	1870	1900				0	1870	1870	1870	1870	0
Adj Flow Rate, veh/h	5	3	5				0	0	5	834	1	0
Peak Hour Factor	0.92	0.92	0.92				0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	0	2	0				0	2	2	2	2	0
Cap, veh/h	11	7	11				0	0	1132	1220	1	0
Arrive On Green	0.02	0.02	0.02				0.00	0.00	0.71	0.71	0.71	0.00
Sat Flow, veh/h	661	397	661				0	0	1585	1408	2	0
Grp Volume(v), veh/h	13	0	0				0	0	5	835	0	0
Grp Sat Flow(s), veh/h/ln	1718	0	0				0	0	1585	1409	0	0
Q Serve(g_s), s	0.3	0.0	0.0				0.0	0.0	0.0	13.9	0.0	0.0
Cycle Q Clear(g_c), s	0.3	0.0	0.0				0.0	0.0	0.0	14.0	0.0	0.0
Prop In Lane	0.38		0.38				0.00		1.00	1.00		0.00
Lane Grp Cap(c), veh/h	29	0	0				0	0	1133	1222	0	0
V/C Ratio(X)	0.45	0.00	0.00				0.00	0.00	0.00	0.68	0.00	0.00
Avail Cap(c_a), veh/h	923	0	0				0	0	2979	2866	0	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(l)	1.00	0.00	0.00				0.00	0.00	1.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	16.3	0.0	0.0				0.0	0.0	1.4	3.4	0.0	0.0
Incr Delay (d2), s/veh	10.3	0.0	0.0				0.0	0.0	0.0	0.7	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
%ile BackOfQ(50%), veh/ln	0.2	0.0	0.0				0.0	0.0	0.0	0.2	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	26.6	0.0	0.0				0.0	0.0	1.4	4.1	0.0	0.0
LnGrp LOS	C	A	A				A	A	A	A	A	A
Approach Vol, veh/h	13						5			835		
Approach Delay, s/veh	26.6						1.4			4.1		
Approach LOS	C						A			A		
Timer - Assigned Phs	2		4		6							
Phs Duration (G+Y+R _c), s	28.5		5.1		28.5							
Change Period (Y+R _c), s	4.5		4.5		4.5							
Max Green Setting (Gmax), s	63.0		18.0		63.0							
Max Q Clear Time (g _{c+l1}), s	2.0		2.3		16.0							
Green Ext Time (p _c), s	0.0		0.0		8.0							
Intersection Summary												
HCM 6th Ctrl Delay			4.4									
HCM 6th LOS			A									

HCM 6th Signalized Intersection Summary
6: Corn Springs Road & I-10 WB Ramps

Ambient+Project MIT-1 PM

04/15/2018



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	1	5	6	1	4	0	0	767	864
Future Volume (veh/h)	0	0	0	1	5	6	1	4	0	0	767	864
Initial Q (Q _b), 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				1	6	6	1	4	0	0	834	925
Peak Hour Factor				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	0	0	2	2
Cap, veh/h				4	27	27	208	751	0	0	1383	1172
Arrive On Green				0.02	0.02	0.02	0.74	0.74	0.00	0.00	0.74	0.74
Sat Flow, veh/h				265	1592	1585	123	1015	0	0	1870	1585
Grp Volume(v), veh/h				7	0	6	5	0	0	0	834	925
Grp Sat Flow(s), veh/h/ln				1857	0	1585	1138	0	0	0	1870	1585
Q Serve(g_s), s				0.1	0.0	0.1	0.0	0.0	0.0	0.0	7.7	13.5
Cycle Q Clear(g_c), s				0.1	0.0	0.1	7.7	0.0	0.0	0.0	7.7	13.5
Prop In Lane				0.14		1.00	0.20		0.00	0.00		1.00
Lane Grp Cap(c), veh/h				31	0	27	959	0	0	0	1383	1172
V/C Ratio(X)				0.22	0.00	0.22	0.01	0.00	0.00	0.00	0.60	0.79
Avail Cap(c_a), veh/h				904	0	772	1207	0	0	0	1923	1630
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(l)				1.00	0.00	1.00	1.00	0.00	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				17.9	0.0	17.9	1.3	0.0	0.0	0.0	2.3	3.0
Incr Delay (d2), s/veh				3.5	0.0	4.1	0.0	0.0	0.0	0.0	0.4	1.8
Initial Q Delay(d3), s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%), veh/ln				0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.2	0.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh				21.4	0.0	22.1	1.3	0.0	0.0	0.0	2.7	4.8
LnGrp LOS				C	A	C	A	A	A	A	A	A
Approach Vol, veh/h					13			5			1759	
Approach Delay, s/veh					21.7			1.3			3.8	
Approach LOS					C			A			A	
Timer - Assigned Phs				2			6		8			
Phs Duration (G+Y+R _c), s				31.8			31.8		5.1			
Change Period (Y+R _c), s				4.5			4.5		4.5			
Max Green Setting (Gmax), s				38.0			38.0		18.0			
Max Q Clear Time (g _{c+l1}), s				9.7			15.5		2.1			
Green Ext Time (p _c), s				0.0			11.8		0.0			
Intersection Summary												
HCM 6th Ctrl Delay				3.9								
HCM 6th LOS				A								
Notes												
User approved volume balancing among the lanes for turning movement.												

Intersection

Int Delay, s/veh 10.6

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	318	1	0	0	0	0	0	1	1	16	0	0
Future Vol, veh/h	318	1	0	0	0	0	0	1	1	16	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None									
Storage Length	-	-	20	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	-	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	346	1	0	0	0	0	0	1	1	17	0	0

Major/Minor	Minor2	Major1	Major2
Conflicting Flow All	36 36 0	- 0 0	2 0 0
Stage 1	34 34 -	- - -	- - -
Stage 2	2 2 -	- - -	- - -
Critical Hdwy	6.42 6.52 6.22	- - -	4.12 - -
Critical Hdwy Stg 1	5.42 5.52 -	- - -	- - -
Critical Hdwy Stg 2	5.42 5.52 -	- - -	- - -
Follow-up Hdwy	3.518 4.018 3.318	- - -	2.218 - -
Pot Cap-1 Maneuver	977 856 -	0 - -	1620 - 0
Stage 1	988 867 -	0 - -	- - 0
Stage 2	1021 894 -	0 - -	- - 0
Platoon blocked, %	- - -	- - -	- - -
Mov Cap-1 Maneuver	967 0 -	- - -	1620 - -
Mov Cap-2 Maneuver	967 0 -	- - -	- - -
Stage 1	978 0 -	- - -	- - -
Stage 2	1021 0 -	- - -	- - -

Approach	EB	NB	SB
HCM Control Delay, s	10.8	0	7.2
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	EBLn1	EBLn2	SBL	SBT
Capacity (veh/h)	-	-	967	-	1620	-
HCM Lane V/C Ratio	-	-	0.359	-	0.011	-
HCM Control Delay (s)	-	-	10.8	0	7.2	0
HCM Lane LOS	-	-	B	A	A	A
HCM 95th %tile Q(veh)	-	-	1.6	-	0	-

Intersection

Int Delay, s/veh 4.6

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	0	0	1	2	201	1	317	0	0	15	22
Future Vol, veh/h	0	0	0	1	2	201	1	317	0	0	15	22
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None									
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	-	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	0	0	1	2	218	1	345	0	0	16	24

Major/Minor	Minor1	Major1	Major2
Conflicting Flow All	375	387	345
Stage 1	347	347	-
Stage 2	28	40	-
Critical Hdwy	6.42	6.52	6.22
Critical Hdwy Stg 1	5.42	5.52	-
Critical Hdwy Stg 2	5.42	5.52	-
Follow-up Hdwy	3.518	4.018	3.318
Pot Cap-1 Maneuver	626	547	698
Stage 1	716	635	-
Stage 2	995	862	-
Platoon blocked, %	-	-	-
Mov Cap-1 Maneuver	625	0	698
Mov Cap-2 Maneuver	625	0	-
Stage 1	715	0	-
Stage 2	995	0	-

Approach	WB	NB	SB
HCM Control Delay, s	12.5	0	0
HCM LOS	B		
<hr/>			
Minor Lane/Major Mvmt	NBL	NBTWBLn1	SBT
Capacity (veh/h)	1570	-	698
HCM Lane V/C Ratio	0.001	-	0.318
HCM Control Delay (s)	7.3	0	12.5
HCM Lane LOS	A	A	B
HCM 95th %tile Q(veh)	0	-	1.4

Intersection						
Int Delay, s/veh	0					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	W	B			A	
Traffic Vol, veh/h	1	0	122	147	0	13
Future Vol, veh/h	1	0	122	147	0	13
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	1	0	133	160	0	14
Major/Minor	Minor1	Major1		Major2		
Conflicting Flow All	227	213	0	0	293	0
Stage 1	213	-	-	-	-	-
Stage 2	14	-	-	-	-	-
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	761	827	-	-	1269	-
Stage 1	823	-	-	-	-	-
Stage 2	1009	-	-	-	-	-
Platoon blocked, %	-	-	-	-	-	-
Mov Cap-1 Maneuver	761	827	-	-	1269	-
Mov Cap-2 Maneuver	761	-	-	-	-	-
Stage 1	823	-	-	-	-	-
Stage 2	1009	-	-	-	-	-
Approach	WB	NB	SB			
HCM Control Delay, s	9.7	0	0			
HCM LOS	A					
Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT	
Capacity (veh/h)	-	-	761	1269	-	
HCM Lane V/C Ratio	-	-	0.001	-	-	
HCM Control Delay (s)	-	-	9.7	0	-	
HCM Lane LOS	-	-	A	A	-	
HCM 95th %tile Q(veh)	-	-	0	0	-	

Intersection						
Int Delay, s/veh	5.1					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	W		A	B		
Traffic Vol, veh/h	0	1	93	29	12	0
Future Vol, veh/h	0	1	93	29	12	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	1	101	32	13	0
Major/Minor	Minor2	Major1		Major2		
Conflicting Flow All	247	13	13	0	-	0
Stage 1	13	-	-	-	-	-
Stage 2	234	-	-	-	-	-
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	741	1067	1606	-	-	-
Stage 1	1010	-	-	-	-	-
Stage 2	805	-	-	-	-	-
Platoon blocked, %	-	-	-	-	-	-
Mov Cap-1 Maneuver	694	1067	1606	-	-	-
Mov Cap-2 Maneuver	694	-	-	-	-	-
Stage 1	945	-	-	-	-	-
Stage 2	805	-	-	-	-	-
Approach	EB	NB		SB		
HCM Control Delay, s	8.4	5.6		0		
HCM LOS	A					
Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR	
Capacity (veh/h)	1606	-	1067	-	-	
HCM Lane V/C Ratio	0.063	-	0.001	-	-	
HCM Control Delay (s)	7.4	0	8.4	-	-	
HCM Lane LOS	A	A	A	-	-	
HCM 95th %tile Q(veh)	0.2	-	0	-	-	

Intersection

Int Delay, s/veh 11.5

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	432	1	3	0	0	0	0	0	3	2	1	0
Future Vol, veh/h	432	1	3	0	0	0	0	0	3	2	1	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None									
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	-	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	470	1	3	0	0	0	0	0	3	2	1	0

Major/Minor	Minor2	Major1	Major2
Conflicting Flow All	7 8 1	- 0 0	3 0 0
Stage 1	5 5 -	- - -	- - -
Stage 2	2 3 -	- - -	- - -
Critical Hdwy	6.42 6.52 6.22	- - -	4.12 - -
Critical Hdwy Stg 1	5.42 5.52 -	- - -	- - -
Critical Hdwy Stg 2	5.42 5.52 -	- - -	- - -
Follow-up Hdwy	3.518 4.018 3.318	- - -	2.218 - -
Pot Cap-1 Maneuver	1014 887 1084	0 - -	1619 - 0
Stage 1	1018 892 -	0 - -	- - 0
Stage 2	1021 893 -	0 - -	- - 0
Platoon blocked, %	- - -	- - -	- - -
Mov Cap-1 Maneuver	1013 0 1084	- - -	1619 - -
Mov Cap-2 Maneuver	1013 0 -	- - -	- - -
Stage 1	1017 0 -	- - -	- - -
Stage 2	1021 0 -	- - -	- - -

Approach	EB	NB	SB
HCM Control Delay, s	11.6	0	4.8
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	EBLn1	SBL	SBT
Capacity (veh/h)	-	-	1013	1619	-
HCM Lane V/C Ratio	-	-	0.468	0.001	-
HCM Control Delay (s)	-	-	11.6	7.2	0
HCM Lane LOS	-	-	B	A	A
HCM 95th %tile Q(veh)	-	-	2.5	0	-

Intersection												
Int Delay, s/veh	11.5											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	0	0	1	2	385	0	432	0	0	2	3
Future Vol, veh/h	0	0	0	1	2	385	0	432	0	0	2	3
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	-	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	0	0	1	2	418	0	470	0	0	2	3
Major/Minor			Minor1		Major1		Major2					
Conflicting Flow All			474	475	470	5	0	-	-	-	-	0
Stage 1			470	470	-	-	-	-	-	-	-	-
Stage 2			4	5	-	-	-	-	-	-	-	-
Critical Hdwy			6.42	6.52	6.22	4.12	-	-	-	-	-	-
Critical Hdwy Stg 1			5.42	5.52	-	-	-	-	-	-	-	-
Critical Hdwy Stg 2			5.42	5.52	-	-	-	-	-	-	-	-
Follow-up Hdwy			3.518	4.018	3.318	2.218	-	-	-	-	-	-
Pot Cap-1 Maneuver			549	488	594	1616	-	0	0	-	-	-
Stage 1			629	560	-	-	-	0	0	-	-	-
Stage 2			1019	892	-	-	-	0	0	-	-	-
Platoon blocked, %							-	-	-	-	-	-
Mov Cap-1 Maneuver			549	0	594	1616	-	-	-	-	-	-
Mov Cap-2 Maneuver			549	0	-	-	-	-	-	-	-	-
Stage 1			629	0	-	-	-	-	-	-	-	-
Stage 2			1019	0	-	-	-	-	-	-	-	-
Approach			WB		NB		SB					
HCM Control Delay, s			24.5		0		0					
HCM LOS			C									
Minor Lane/Major Mvmt			NBL	NBT	WBL	Ln1	SBT	SBR				
Capacity (veh/h)	1616	-	594	-	-							
HCM Lane V/C Ratio	-	-	0.71	-	-							
HCM Control Delay (s)	0	-	24.5	-	-							
HCM Lane LOS	A	-	C	-	-							
HCM 95th %tile Q(veh)	0	-	5.8	-	-							

Intersection												
Int Delay, s/veh	9.1											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	53	2	3	0	0	0	0	4	2	296	2	0
Future Vol, veh/h	53	2	3	0	0	0	0	4	2	296	2	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	20	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	-	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	58	2	3	0	0	0	0	4	2	322	2	0
Major/Minor												
Minor2		Major1				Major2						
Conflicting Flow All	651	652	2				-	0	0	6	0	0
Stage 1	646	646	-				-	-	-	-	-	-
Stage 2	5	6	-				-	-	-	-	-	-
Critical Hdwy	6.42	6.52	6.22				-	-	-	4.12	-	-
Critical Hdwy Stg 1	5.42	5.52	-				-	-	-	-	-	-
Critical Hdwy Stg 2	5.42	5.52	-				-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318				-	-	-	2.218	-	-
Pot Cap-1 Maneuver	433	387	1082				0	-	-	1615	-	0
Stage 1	522	467	-				0	-	-	-	-	0
Stage 2	1018	891	-				0	-	-	-	-	0
Platoon blocked, %							-	-	-	-	-	-
Mov Cap-1 Maneuver	346	0	1082				-	-	-	1615	-	-
Mov Cap-2 Maneuver	346	0	-				-	-	-	-	-	-
Stage 1	418	0	-				-	-	-	-	-	-
Stage 2	1018	0	-				-	-	-	-	-	-
Approach												
EB				NB				SB				
HCM Control Delay, s	17.1						0			7.7		
HCM LOS	C											
Minor Lane/Major Mvmt			NBT	NBR	EBLn1	EBLn2	SBL	SBT				
Capacity (veh/h)	-	-	346	1082	1615	-						
HCM Lane V/C Ratio	-	-	0.173	0.003	0.199	-						
HCM Control Delay (s)	-	-	17.6	8.3	7.8	0						
HCM Lane LOS	-	-	C	A	A	A						
HCM 95th %tile Q(veh)	-	-	0.6	0	0.7	-						

Intersection

Int Delay, s/veh 0.3

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	0	0	1	4	19	2	55	0	0	297	498
Future Vol, veh/h	0	0	0	1	4	19	2	55	0	0	297	498
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None									
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	-	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	0	0	1	4	21	2	60	0	0	323	541

Major/Minor	Minor1	Major1	Major2
Conflicting Flow All	658	928	60
Stage 1	64	64	-
Stage 2	594	864	-
Critical Hdwy	6.42	6.52	6.22
Critical Hdwy Stg 1	5.42	5.52	-
Critical Hdwy Stg 2	5.42	5.52	-
Follow-up Hdwy	3.518	4.018	3.318
Pot Cap-1 Maneuver	429	268	1005
Stage 1	959	842	-
Stage 2	552	371	-
Platoon blocked, %			-
Mov Cap-1 Maneuver	428	0	1005
Mov Cap-2 Maneuver	428	0	-
Stage 1	956	0	-
Stage 2	552	0	-

Approach	WB	NB	SB
HCM Control Delay, s	8.9	0.3	0
HCM LOS	A		
<hr/>			
Minor Lane/Major Mvmt	NBL	NBTWBLn1	SBT
Capacity (veh/h)	779	-	942
HCM Lane V/C Ratio	0.003	-	0.028
HCM Control Delay (s)	9.6	0	8.9
HCM Lane LOS	A	A	-
HCM 95th %tile Q(veh)	0	-	0.1

Intersection						
Int Delay, s/veh	6.1					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	229	0	60	1	0	177
Future Vol, veh/h	229	0	60	1	0	177
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	249	0	65	1	0	192
Major/Minor	Minor1	Major1		Major2		
Conflicting Flow All	258	66	0	0	66	0
Stage 1	66	-	-	-	-	-
Stage 2	192	-	-	-	-	-
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	731	998	-	-	1536	-
Stage 1	957	-	-	-	-	-
Stage 2	841	-	-	-	-	-
Platoon blocked, %	-	-	-	-	-	-
Mov Cap-1 Maneuver	731	998	-	-	1536	-
Mov Cap-2 Maneuver	731	-	-	-	-	-
Stage 1	957	-	-	-	-	-
Stage 2	841	-	-	-	-	-
Approach	WB	NB		SB		
HCM Control Delay, s	12.4	0		0		
HCM LOS	B					
Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT	
Capacity (veh/h)	-	-	731	1536	-	
HCM Lane V/C Ratio	-	-	0.341	-	-	
HCM Control Delay (s)	-	-	12.4	0	-	
HCM Lane LOS	-	-	B	A	-	
HCM 95th %tile Q(veh)	-	-	1.5	0	-	

Intersection						
Int Delay, s/veh	5.6					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	W			A	B	
Traffic Vol, veh/h	0	145	1	59	32	0
Future Vol, veh/h	0	145	1	59	32	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	158	1	64	35	0
Major/Minor	Minor2	Major1		Major2		
Conflicting Flow All	101	35	35	0	-	0
Stage 1	35	-	-	-	-	-
Stage 2	66	-	-	-	-	-
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	898	1038	1576	-	-	-
Stage 1	987	-	-	-	-	-
Stage 2	957	-	-	-	-	-
Platoon blocked, %	-	-	-	-	-	-
Mov Cap-1 Maneuver	897	1038	1576	-	-	-
Mov Cap-2 Maneuver	897	-	-	-	-	-
Stage 1	986	-	-	-	-	-
Stage 2	957	-	-	-	-	-
Approach	EB	NB	SB			
HCM Control Delay, s	9.1	0.1	0			
HCM LOS	A					
Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR	
Capacity (veh/h)	1576	-	1038	-	-	
HCM Lane V/C Ratio	0.001	-	0.152	-	-	
HCM Control Delay (s)	7.3	0	9.1	-	-	
HCM Lane LOS	A	A	A	-	-	
HCM 95th %tile Q(veh)	0	-	0.5	-	-	

Intersection																	
Int Delay, s/veh	8.9																
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR					
Lane Configurations																	
Traffic Vol, veh/h	4	2	4	0	0	0	0	0	4	598	1	0					
Future Vol, veh/h	4	2	4	0	0	0	0	0	4	598	1	0					
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0					
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free					
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None					
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-					
Veh in Median Storage, #	-	0	-	-	-	-	-	0	-	-	0	-					
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-					
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92					
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2					
Mvmt Flow	4	2	4	0	0	0	0	0	4	650	1	0					
Major/Minor	Minor2			Major1			Major2										
Conflicting Flow All	1303	1305	1	-	0	0	4	0	0								
Stage 1	1301	1301	-	-	-	-	-	-	-								
Stage 2	2	4	-	-	-	-	-	-	-								
Critical Hdwy	6.42	6.52	6.22	-	-	-	-	4.12	-								
Critical Hdwy Stg 1	5.42	5.52	-	-	-	-	-	-	-								
Critical Hdwy Stg 2	5.42	5.52	-	-	-	-	-	-	-								
Follow-up Hdwy	3.518	4.018	3.318	-	-	-	2.218	-	-								
Pot Cap-1 Maneuver	177	160	1084	-	0	-	-	1618	-	0							
Stage 1	255	231	-	-	0	-	-	-	-	0							
Stage 2	1021	892	-	-	0	-	-	-	-	0							
Platoon blocked, %	-	-	-	-	-	-	-	-	-								
Mov Cap-1 Maneuver	106	0	1084	-	-	-	1618	-	-								
Mov Cap-2 Maneuver	106	0	-	-	-	-	-	-	-								
Stage 1	152	0	-	-	-	-	-	-	-								
Stage 2	1021	0	-	-	-	-	-	-	-								
Approach	EB			NB			SB										
HCM Control Delay, s	24.8				0			8.7									
HCM LOS	C																
Minor Lane/Major Mvmt	NBT	NBR	EBLn1	SBL	SBT												
Capacity (veh/h)	-	-	193	1618	-												
HCM Lane V/C Ratio	-	-	0.056	0.402	-												
HCM Control Delay (s)	-	-	24.8	8.7	0												
HCM Lane LOS	-	-	C	A	A												
HCM 95th %tile Q(veh)	-	-	0.2	2	-												

Intersection

Int Delay, s/veh 0.1

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	0	0	1	4	5	1	3	0	0	598	674
Future Vol, veh/h	0	0	0	1	4	5	1	3	0	0	598	674
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None									
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	-	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	0	0	1	4	5	1	3	0	0	650	733

Major/Minor	Minor1	Major1	Major2
Conflicting Flow All	1022	1388	3 1383 0 - - - 0
Stage 1	5	5	- - - - - - - -
Stage 2	1017	1383	- - - - - - - -
Critical Hdwy	6.42	6.52	6.22 4.12 - - - - - -
Critical Hdwy Stg 1	5.42	5.52	- - - - - - - -
Critical Hdwy Stg 2	5.42	5.52	- - - - - - - -
Follow-up Hdwy	3.518	4.018	3.318 2.218 - - - - - -
Pot Cap-1 Maneuver	261	143	1081 495 - 0 0 - - -
Stage 1	1018	892	- - - - 0 0 - - -
Stage 2	349	211	- - - - 0 0 - - -
Platoon blocked, %			- - - - - - - -
Mov Cap-1 Maneuver	260	0	1081 495 - - - - - -
Mov Cap-2 Maneuver	260	0	- - - - - - - -
Stage 1	1016	0	- - - - - - - -
Stage 2	349	0	- - - - - - - -

Approach	WB	NB	SB
HCM Control Delay, s	10.2	3.1	0
HCM LOS	B		
<hr/>			
Minor Lane/Major Mvmt	NBL	NBTWBLn1	SBT SBR
Capacity (veh/h)	495	-	708 - -
HCM Lane V/C Ratio	0.002	-	0.015 - -
HCM Control Delay (s)	12.3	0	10.2 - -
HCM Lane LOS	B	A	B - -
HCM 95th %tile Q(veh)	0	-	0 - -



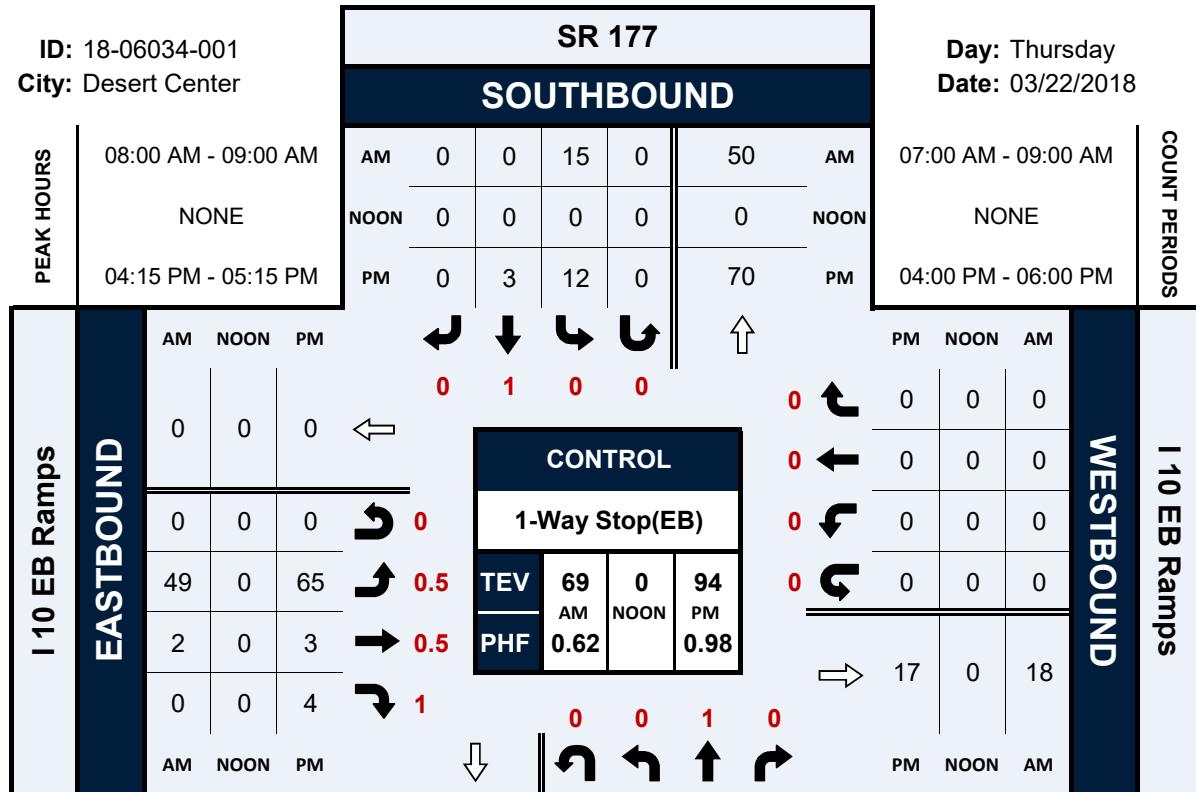
Appendix B: Counts

SR 177 & I 10 EB Ramps

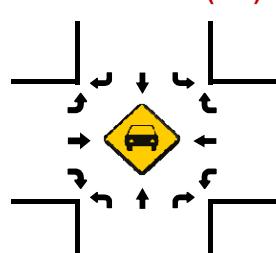
Peak Hour Turning Movement Count

ID: 18-06034-001
City: Desert Center

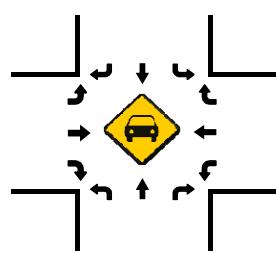
Day: Thursday
Date: 03/22/2018



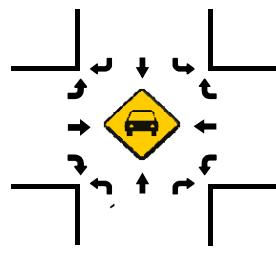
Total Vehicles (AM)



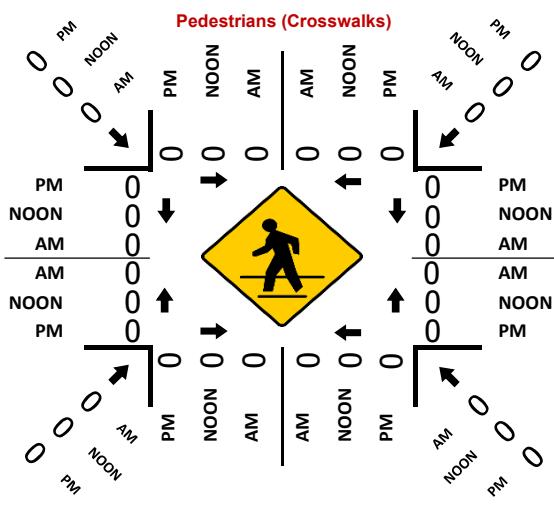
Total Vehicles (NOON)



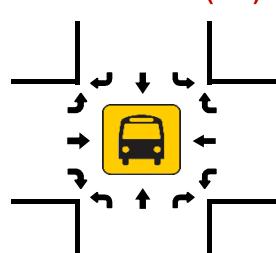
Total Vehicles (PM)



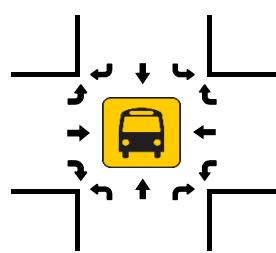
Pedestrians (Crosswalks)



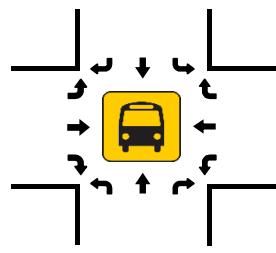
Total Vehicles (AM)



Total Vehicles (NOON)



Total Vehicles (PM)



Corn Springs Rd & I 10 EB Ramps

Peak Hour Turning Movement Count

ID: 18-06034-003
City: Desert Center

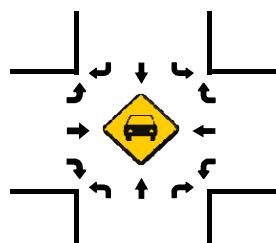
PEAK HOURS	07:15 AM - 08:15 AM		
	NONE		
	04:15 PM - 05:15 PM		
	AM	NOON	PM
I 10 EB Ramps	0	0	0
EASTBOUND	0	0	0
	1	0	2
	1	0	3
	5	0	5
	AM	NOON	PM

A diagram showing a traffic light signal for Corn Springs Rd. The signal has five vertical segments. From left to right: a red 'AM' segment, a green '0' segment, a yellow '2' segment, a red '0' segment, a red '0' segment, a green '1' segment, and a red 'AM' segment. Below the signal are four curved arrows pointing right: two black arrows pointing down from the red '0' segments, one black arrow pointing up from the green '1' segment, and one white arrow pointing up from the red 'AM' segment.

Day: Thursday
Date: 03/22/2018

07:00 AM - 09:00 AM			WESTBOUND I 10 EB Ramps	COUNT PERIODS	
NONE					
04:00 PM - 06:00 PM					
PM	NOON	AM			
0	0	0			
0	0	0			
0	0	0			
0	0	0			
8	0	6			
PM	NOON	AM			

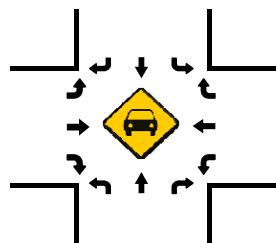
Total Vehicles (AM)



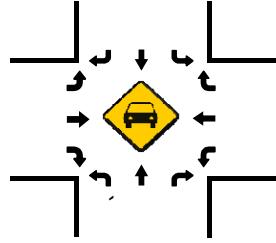
PM	6	0	0	0	5	PM
NOON	0	0	0	0	0	NOON
AM	7	0	0	0	5	AM

Total Vehicles (AM)

Total Vehicles (NOON)

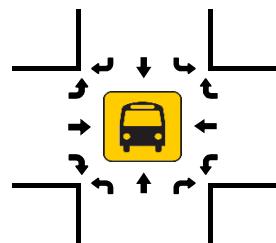


Total Vehicles (PM)

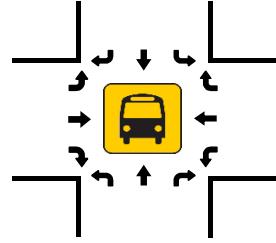


Pedestrians (Crosswalks)

Total Vehicles (NOON)



Total Vehicles (PM)



SR 177 & I 10 WB Ramps**Peak Hour Turning Movement Count**

ID: 18-06034-002

City: Desert Center

SR 177**SOUTHBOUND****AM**

07:45 AM - 08:45 AM

NONE

04:00 PM - 05:00 PM

NOON

AM 37 13 0 0

NOON 0 0 0 0

PM 53 11 0 0

AM**NOON****PM**

60 AM

0 NOON

91 PM

Day: Thursday

Date: 03/22/2018

07:00 AM - 09:00 AM

NONE

04:00 PM - 06:00 PM

07:00 AM - 09:00 AM

NONE

04:00 PM - 06:00 PM

PM NOON AM

24 0 17

5 0 3

1 0 2

0 0 0

0 0 0

AM NOON PM

0 0 0

0 0 0

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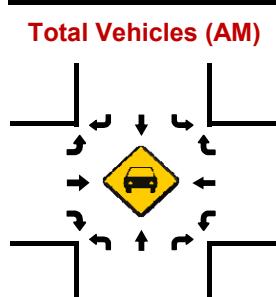
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SR 177 & Oasis Rd

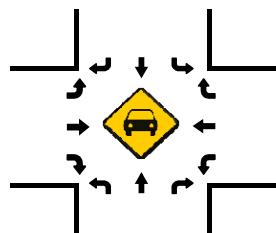
Peak Hour Turning Movement Count

ID: 18-06034-005
City: Desert Center

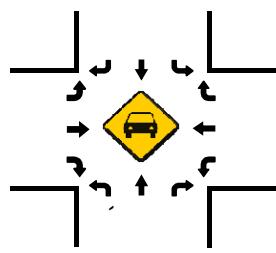
PEAK HOURS	08:00 AM - 09:00 AM		
	NONE		
	04:15 PM - 05:15 PM		
	AM	NOON	PM
Oasis Rd	3	0	2
EASTBOUND	0	0	0
	2	0	3
	0	0	0
	1	0	0
	AM	NOON	PM



Total Vehicles (NOON)



Total Vehicles (PM)



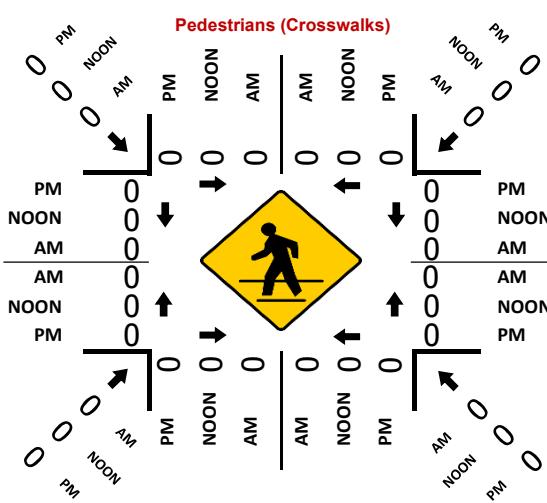
SOUTHBOUND					
AM	3	17	0	0	57 AM
NOON	0	0	0	0	0 NOON
PM	1	40	0	0	72 PM
					



PM	40	0	1	69	0	PM
NOON	0	0	0	0	0	NOON
AM	18	0	0	55	0	AM

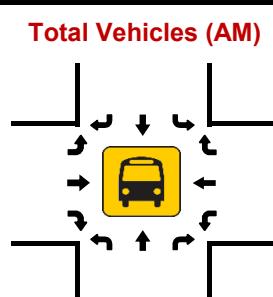
NORTHBOUND

SR 177

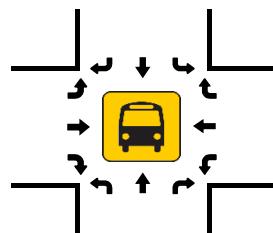


Day: Thursday
Date: 03/22/2018

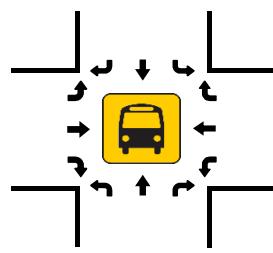
07:00 AM - 09:00 AM			COUNT PERIODS
NONE			
04:00 PM - 06:00 PM			Oasis Rd
PM	NOON	AM	
0	0	0	WESTBOUND
0	0	0	
0	0	0	
0	0	0	
0	0	0	
0	0	0	
PM	NOON	AM	



Total Vehicles (NOON)



Total Vehicles (PM)



Corn Springs Rd & I 10 WB Ramps

Peak Hour Turning Movement Count

ID: 18-06034-004
City: Desert Center

PEAK HOURS	07:30 AM - 08:30 AM		
	NONE		
EASTBOUND	04:15 PM - 05:15 PM		
	AM	NOON	PM
	6	0	9
	0	0	0
	0	0	0
	0	0	0
	0	0	0
	AM	NOON	PM

Corn Springs Rd					
SOUTHBOUND					
AM	3	0	0	0	5 AM
NOON	0	0	0	0	0 NOON
PM	3	0	0	0	3 PM



Day: Thursday
Date: 03/22/2018

WESTBOUND			I-10 WB Ramps
PM	NOON	AM	DS
2	0	3	
5	0	3	
1	0	2	
0	0	0	
0	0	0	
PM	NOON	AM	

