Info Only: TIS is considered the first review cycle.

TRAFFIC IMPACT STUDY

For

16888 Elbert Road Rezone El Paso County, Colorado

April 2024

Prepared for:

Please include project No. P242

Holmes Enterprises LLC 16888 Elbert Road Peyton, CO 80831

Prepared by:



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Engineer in Responsible Charge: Fred Lantz, PE

24-03122



Traffic Engineer's Statement

16888 Elbert Road Peyton, CO 80831

The attached traffic report and supporting information were prepared under my responsible charge and they comport with the standard of care. So far as is consistent with the standard of care, said report was prepared in general conformance with the criteria established by the County for traffic reports.

Just Last	04/04/2024
Fred Lantz, P.E. #23410	Date
Developer's Statement	
I, the Developer, have read and will comply with all o	commitments made on my behalf within this report
Rick Holmes	Date
Holmes Enterprises LLC	

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I. Introduction

Project Overview

This traffic impact study is provided as a planning document and addresses the capacity, geometric, and control requirements associated with the development entitled 16888 Elbert Road Rezone.

This proposed mixed-use development consists of a small business event center with associated bed and breakfast facility. The development is located on the west side of Elbert Road approximately three-quarters of a mile south of Hopper Road at 16888 Elbert Road in El Paso County, Colorado.

Study Area Boundaries

The study area to be examined in this analysis encompasses the segment of Elbert Road bounded by Sweet Road to Hopper Road and includes the proposed site access.

Figure 1 illustrates location of the site and study intersections.

Site Description

Land for the development is currently occupied by three single-family detached homes and surrounded by a mix of residential and open space land uses.

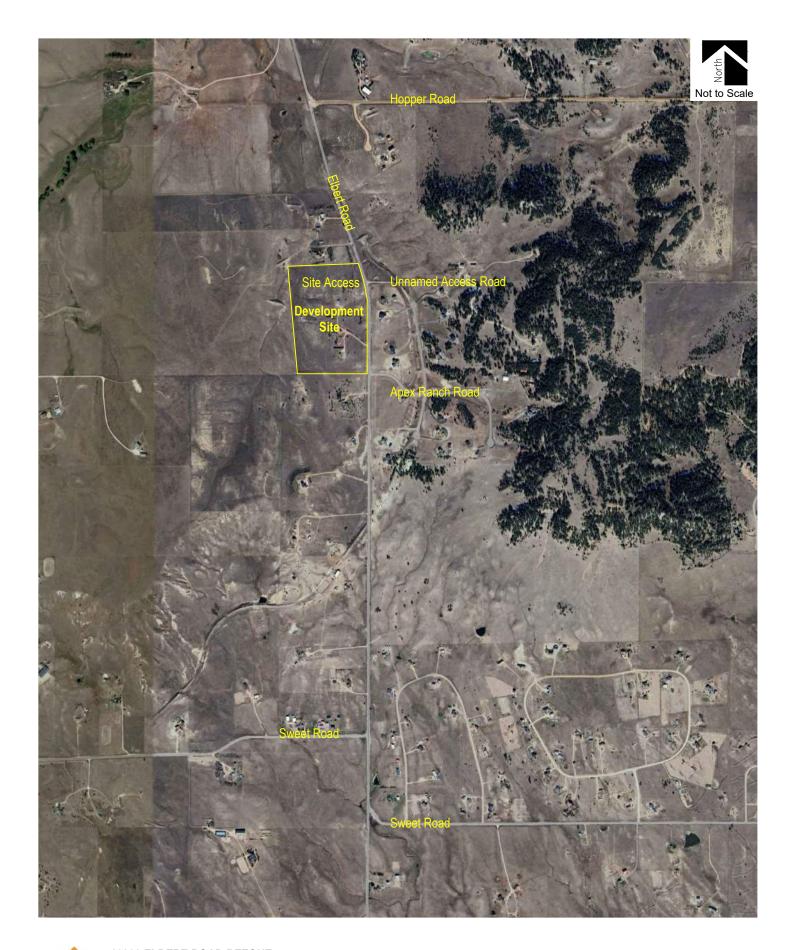
The proposed development is understood to entail the new construction of an approximate 1,500 square foot business event center with eight associated bed and breakfast units. These would be in addition to the existing single-family homes. No other future uses are currently planned or identified pursuant to the proposed rezone. It is anticipated that at such time new uses are proposed and defined, an updated traffic analysis will be required to approve such uses and any associated access.

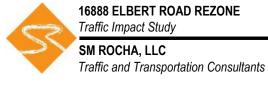
Proposed access to the development is provided via one full-movement access onto Elbert Road aligning with Unnamed Access Road (referred to as Site Access). With the proposed redevelopment, the existing access approximately 400 feet north of Apex Ranch Road is anticipated to be closed.

For purposes of this study, it is anticipated that development construction would be completed by end of Year 2026.

General site and access locations are shown on Figure 1.

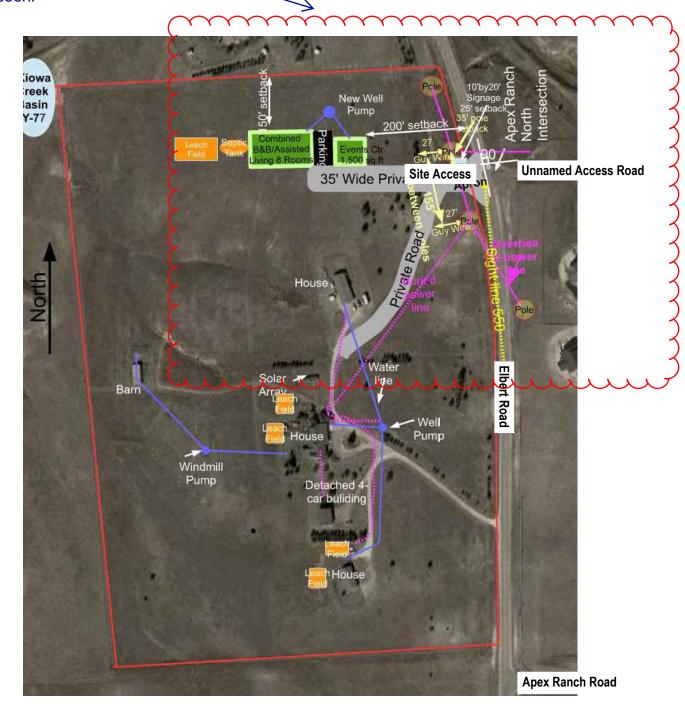
A concept plan, is shown on Figure 2. This plan is provided for illustrative purposes only.

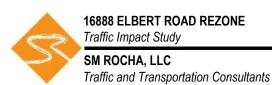




Please rearrange all labels so that all information can be seen.







Please indicate rural or urban. This comment is applied to all roadway classification.

Existing and Committed Surface Transportation Network

Within the study area, Elbert Road is the primary roadway that will accommodate traffic to and from the proposed development. The secondary roadways include Unnamed Access Road, Apex Ranch Road, Hopper Road, and Sweet Road. A brief description of each roadway, based on El Paso County's 2016 Major Transportation Corridors Plan Update (MTCP)¹ and El Paso County's Engineering Criteria Manual (ECM)², is provided below:

<u>Elbert Road</u> is a north south minor arterial roadway having two through lanes (one lane in each direction) with shared turn lanes at the intersections within the study area. Elbert Road does not provide a posted speed limit within the study area. Pursuant to section 2.3.2, Table 2-4 of the County's ECM, Elbert Road is expected to provide a posted speed limit of 55 MPH.

<u>Unnamed Access Road</u> is an east-west roadway having two through lanes (one lane in each direction) with shared turn lanes at the intersection within the study area. Unnamed Access Road is unclassified in the County's MTCP. However, per Section 2.3.2, Table 2-5 of the County's ECM, and the roadway's estimate right-of-way (ROW) width, Unnamed Access Road is assumed to be classified as a local roadway and is assumed to provide a posted speed limit of 30 MPH.

Apex Ranch Road is an east-west roadway having two through lanes (one lane in each direction) with shared turn lanes at the intersection within the study area. Apex Ranch Road is unclassified in the County's MTCP. However, per section 2.3.2, Table 2-5 of the County's ECM, and the roadway's estimate ROW Width, Apex Ranch Road is assumed to be classified as a local roadway and is assumed to provide a posted speed limit of 30 MPH.

<u>Hopper Road</u> is an east-west collector roadway having two through lanes (one lane in each direction) with shared turn lanes at the intersection within the study area. Hopper Road does not provide a posted speed limit within the study area. Due to Hopper Road being unpaved, and pursuant to section 2.3.2, Table 2-4 of the County's ECM, Hopper Road is expected to provide a posted speed limit of 45 MPH.

<u>Sweet Road</u> is an east-west collector roadway having two through lanes (one lane in each direction) with shared turn lanes at the intersections within the study area. Sweet Road provides a posted speed limit of 55 MPH.

¹ El Paso County 2016 Major Transportation Corridors Plan Update, Felsburg Holt & Ullevig, December 2016.

² El Paso County Engineering Criteria Manual, El Paso County, October 2020.

All study intersections operate under a stop-controlled condition. A stop-controlled intersection is defined as a roadway intersection where vehicle rights-of-way are controlled by one or more "STOP" signs.

Pursuant to the County's MTCP, Hodgen Road is currently planned to be extended to intersect with Elbert Road between Hopper Road and Sweet Road. However, the County's MTCP does not mention when this will occur. For analysis purposes, it is assumed that Hodgen Road will not intersect with Elbert Road within the near future, this provides for a conservative analysis.

No other regional or specific improvements for the above-described roadways are known to be planned or committed at this time. The study area roadways appear to be built to their ultimate cross-sections.

Please discuss sight distance for the intersection of the proposed property.

- Appropriateness of access locations;
- Location and requirements for turn lanes or acceleration/deceleration lanes at accesses or intersections, including recommendations for taper lengths, storage length, acceleration/deceleration lengths, and other geometric design requirements;
- Sight distance evaluations and recommendations (intersection, stopping, passing) at entrance to development

Appropriateness of the existing roadway signing and striping;

Discuss any required offsite improvements on Elbert Rd (restipping passing zone, widening of road cross section at entrace to development to include shoulders

Discuss road Impact fee

Include analysis and discussion on following per ECM Appdx B

II. Existing Traffic Conditions

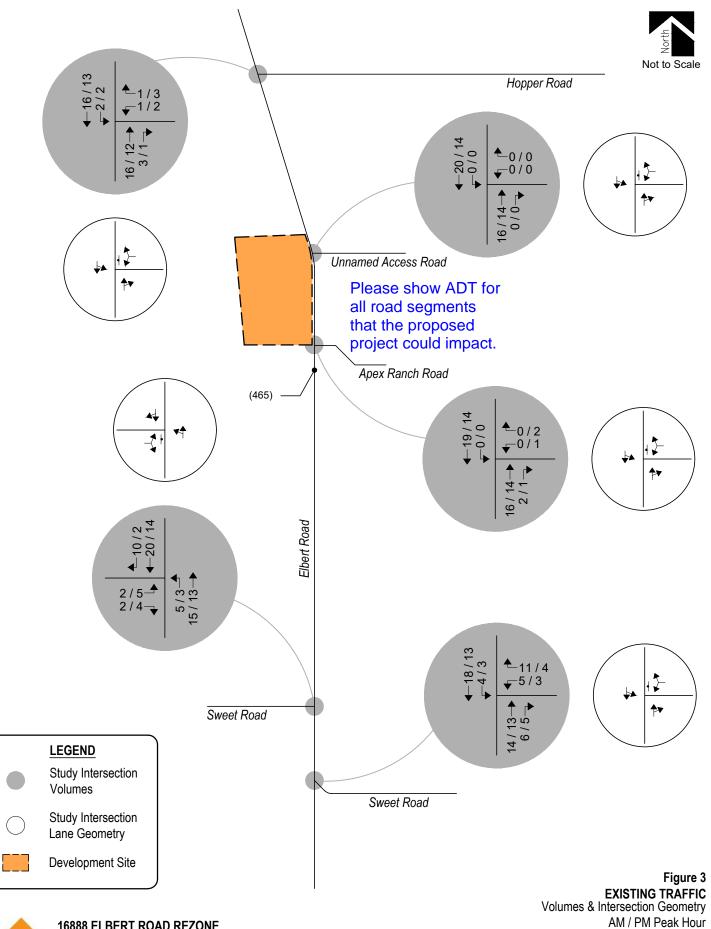
Morning (AM) and afternoon (PM) peak hour traffic counts shown for the intersections of Elbert Road bounded by Sweet Road to Hopper Road were obtained from the 16888 Elbert Road Traffic Impact Study³ as collected by SMH consultants. Counts were collected on Wednesday March 22, 2023, with AM peak hour counts were collected during the period of 7:00 a.m. to 9:00 a.m. and PM peak hour counts were collected during the period of 4:00 p.m. These referenced counts were then grown to Year 2024. A compounded annual growth rate was determined based on the adjacent Overlook at Homestead Traffic Impact Study⁴, which used a growth rate of approximately 2.25 percent. Therefore, in order to provide for a conservative analysis, an annual growth rate of 3 percent was applied. Average daily traffic (ADT) volumes were derived from standard relationships of ADT volumes versus peak hour volumes.

Existing volumes and intersection geometry are shown on Figure 3. Referenced traffic count data is included for reference in Appendix A.

-

³ 16888 Elbert Road Traffic Impact Study, Richard Holmes, March 2024.

⁴ Overlook at Homestead Traffic Impact Study, LSC Transportation Consultants, October 6, 2023.



16888 ELBERT ROAD REZONE

Traffic Impact Study

(ADT): Average Daily Traffic

Peak Hour Intersection Levels of Service - Existing Traffic

The Unsignalized Intersection Analysis techniques, as published in the Highway Capacity Manual (HCM), 6th Edition, by the Transportation Research Board and as incorporated into the SYNCHRO computer program, was used to analyze the study intersections for existing and future traffic conditions. This nationally accepted technique allows for the determination of intersection level of service (LOS) based on the congestion and delay of each traffic movement.

Pursuant to Section B.4.1.A of the County's ECM, the design objective for each scenario of this study shall be level of service "D". Level of service is a method of measurement used by transportation professionals to quantify a driver's perception of travel conditions that include travel time, number of stops, and total amount of stopped delay experienced on a roadway network. The HCM categorizes level of service into a range from "A" which indicates little, if any, vehicle delay, to "F" which indicates a level of operation considered unacceptable to most drivers. These levels of service grades with brief descriptions of the operating condition, for unsignalized and signalized intersections, are included for reference in Appendix B and have been used throughout this study.

The level of service analyses results for existing conditions are summarized in Table 1.

Intersection capacity worksheets developed for this study are provided in Appendix C.

Table 1 – Intersection Capacity Analysis Summary – Existing Traffic

INTERSECTION	LEVEL OF SERVICE			
LANE GROUPS	AM PEAK HOUR	PM PEAK HOUR		
Elbert Road / Sweet Road (Stop-Controlled)				
Westbound Left and Right	Α	Α		
Southbound Left and Through	Α	Α		
Elbert Road / Sweet Road (Stop-Controlled)				
Eastbound Left and Right	Α	Α		
Northbound Left and Through	Α	Α		
Elbert Road / Apex Ranch Road (Stop-Controlled)				
Westbound Left and Right	Α	Α		
Southbound Left and Through	Α	Α		
Elbert Road / Unnamed Access Road (Stop-Controlled)				
Westbound Left and Right	Α	Α		
Southbound Left and Through	Α	Α		
Elbert Road / Hopper Road (Stop-Controlled)				
Westbound Left and Right	Α	Α		
Southbound Left and Through	Α	Α		

Key: Stop-Controlled Intersection: Level of Service

Existing Traffic Analysis Results

Under existing conditions, the unsignalized intersections within the study area have turning movement operations at LOS A during both the morning and afternoon peak traffic hours

III. Future Traffic Conditions Without Proposed Development

Background traffic is the traffic projected to be on area roadways without consideration of the proposed development. Background traffic includes traffic generated by development of vacant parcels in the area.

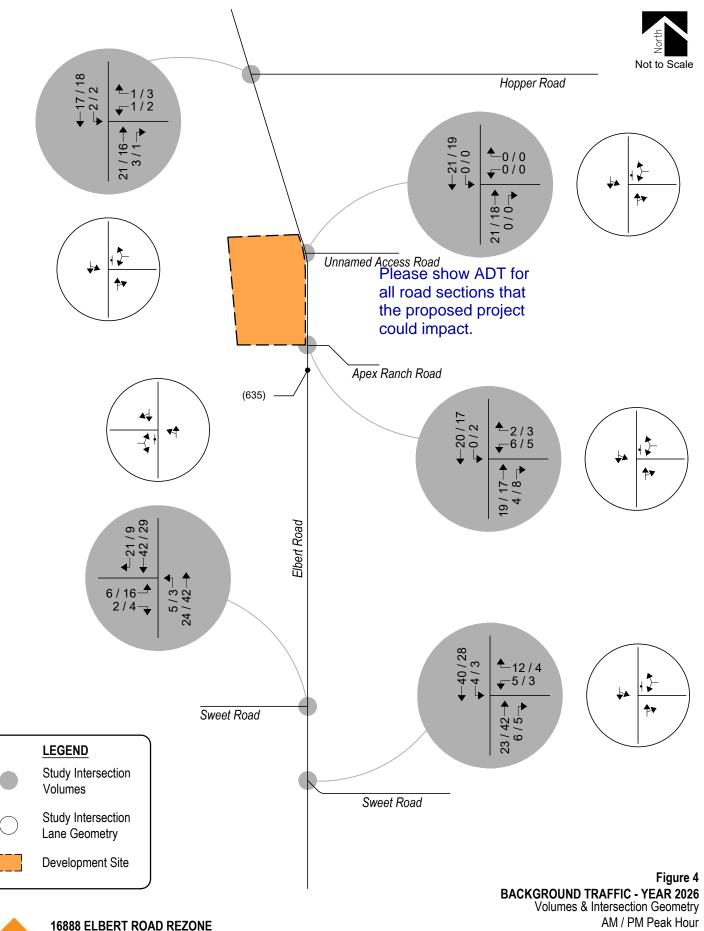
To account for projected increases in background traffic for rears 2026 and 2040, a compounded annual growth rate of approximately three percent was applied to existing traffic volumes. This annual growth rate provides for a conservative analysis, is comparable to the assumed growth rate used in the Overlook at Homestead Traffic Impact Study, and is assumed to account for regional growth projections and the level of in-fill development expected within the area.

Additionally, in order to account for projected traffic from adjacent developments not yet built, trip generations from the Overlook at Homestead Traffic Impact Study were added to background traffic volumes.

Pursuant to the proposed and non-committed area roadway improvements discussed in Section I, Year 2026 and Year 2040 background traffic conditions assume no roadway improvements to accommodate regional transportation demands. This assumption provides for a conservative analysis.

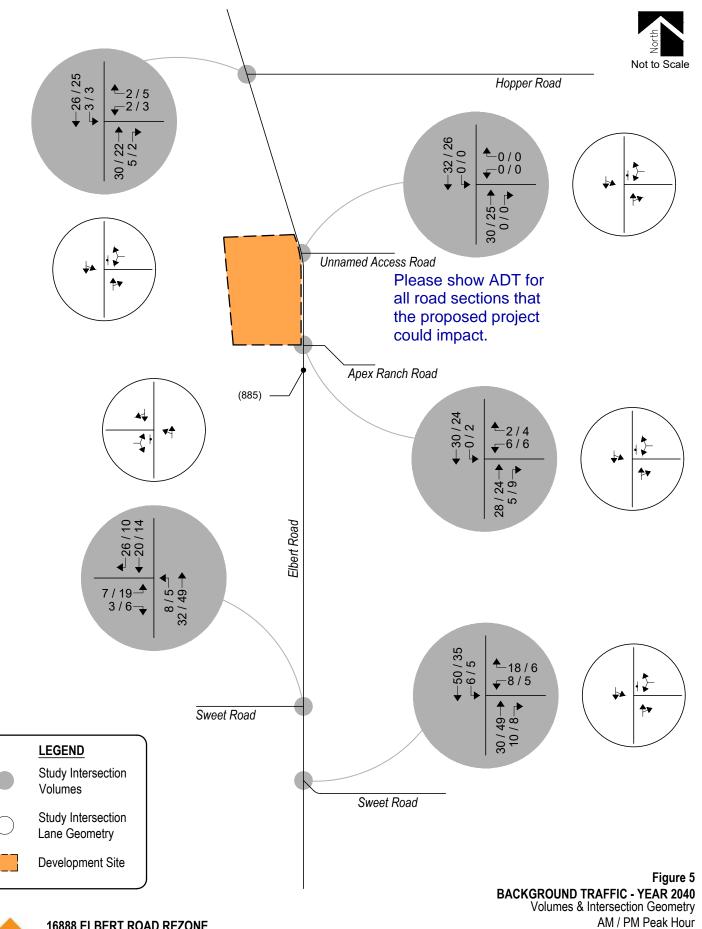
Projected background traffic volumes and intersection geometry for Years 2026 and 2040 are shown on Figure 4 and Figure 5, respectively.

Please provide an excerpt for this study or the EDARP number of the project. Is this area comparable to the proposed project?



Traffic Impact Study

(ADT): Average Daily Traffic





16888 ELBERT ROAD REZONE

Traffic Impact Study

(ADT): Average Daily Traffic

Peak Hour Intersection Levels of Service – Background Traffic

As with existing traffic conditions, the operations of study intersections were analyzed under background conditions, without the proposed development, using the SYNCHRO computer program.

Background traffic level of service analysis results for Year 2026 are listed in Table 2. Year 2040 operational results are summarized in Table 3.

Definitions of levels of service are given in Appendix B. Intersection capacity worksheets are provided in Appendix C.

Table 2 – Intersection Capacity Analysis Summary – Background Traffic – Year 2026

INTERSECTION	LEVEL OF SERVICE				
LANE GROUPS	AM PEAK HOUR	PM PEAK HOUR			
Elbert Road / Sweet Road (Stop-Controlled)					
Westbound Left and Right	Α	А			
Southbound Left and Through	A	Α			
Elbert Road / Sweet Road (Stop-Controlled)					
Eastbound Left and Right	Α	Α			
Northbound Left and Through	A	Α			
Elbert Road / Apex Ranch Road (Stop-Controlled)					
Westbound Left and Right	A	Α			
Southbound Left and Through	A	Α			
Elbert Road / Unnamed Access Road (Stop-Controlled)					
Westbound Left and Right	A	Α			
Southbound Left and Through	A	Α			
Elbert Road / Hopper Road (Stop-Controlled)					
Westbound Left and Right	Α	Α			
Southbound Left and Through	Α	А			

Key: Stop-Controlled Intersection: Level of Service

Background Traffic Analysis Results – Year 2026

Year 2026 background traffic analysis indicates that the unsignalized intersections within the study area continue to project turning movement operations at LOS A during the morning and afternoon peak traffic hours.

Table 3 – Intersection Capacity Analysis Summary – Background Traffic – Year 2040

INTERSECTION	LEVEL OF SERVICE			
LANE GROUPS	AM PEAK HOUR	PM PEAK HOUR		
Elbert Road / Sweet Road (Stop-Controlled)				
Westbound Left and Right	Α	Α		
Southbound Left and Through	А	A		
Elbert Road / Sweet Road (Stop-Controlled)				
Eastbound Left and Right	А	Α		
Northbound Left and Through	Α	А		
Elbert Road / Apex Ranch Road (Stop-Controlled)				
Westbound Left and Right	Α	Α		
Southbound Left and Through	Α	А		
Elbert Road / Unnamed Access Road (Stop-Controlled)				
Westbound Left and Right	А	Α		
Southbound Left and Through	Α	А		
Elbert Road / Hopper Road (Stop-Controlled)				
Westbound Left and Right	Α	Α		
Southbound Left and Through	Α	Α		

Key: Stop-Controlled Intersection: Level of Service

Background Traffic Analysis Results - Year 2040

By Year 2040 and without the proposed development, the unsignalized intersections within the study area are projected to have turning movement operations at LOS A during the morning and afternoon peak traffic hours.

These intersection operations are the same as existing conditions.

IV. Proposed Project Traffic

Trip Generation

Standard traffic generation characteristics compiled by the Institute of Transportation Engineers (ITE) in their report entitled Trip Generation Manual, 11th Edition, were applied to the existing and proposed land uses in order to estimate average daily traffic (ADT), AM Peak Hour, and PM Peak Hour vehicle trips. A vehicle trip is defined as a one-way vehicle movement from a point of origin to a point of destination.

The ITE land use codes 210 (Single-Family Dwelling Units) and 312 (Business Hotel) were used for estimating trip generation because of their conservative rates and best fit to the existing and proposed land use descriptions. It is important to note that ITE does not provide land use codes for "Bed and Breakfasts" and "Business Event Center" land uses, therefore it was assumed that each bed and breakfast unit may be considered equivalent to one business hotel room with the event center space being expected to operate ancillary to the bed and breakfast.

Trip generation rates used in this study are presented in Table 4.

Table 4 – Trip Generation Rates

			TRIP GENERATION RATES						
ITE			24	AM	PEAK HO	DUR	PM	PEAK HO	OUR
CODE	LAND USE	UNIT	HOUR	ENTER	EXIT	TOTAL	ENTER	EXIT	TOTAL
210	Single-Family Detached Housing	DU	9.43	0.18	0.53	0.70	0.59	0.35	0.94
312	Business Hotel	RMS	4.02	0.14	0.22	0.36	0.17	0.14	0.31

Key: DU = Dwelling Units. RMS = Rooms.

Note: All data and calculations above are subject to being rounded to nearest value.

Table 5 illustrates projected ADT, AM Peak Hour, and PM Peak Hour traffic volumes likely generated by the proposed development upon build-out.

Table 5 – Trip Generation Summary

			TOTAL TRIPS GENERATED						
ITE			24	AM	PEAK HO	DUR	PM	PEAK HO	OUR
CODE	LAND USE	SIZE	HOUR	ENTER	EXIT	TOTAL	ENTER	EXIT	TOTAL
Site De	evelopment - Existing								
210	Single-Family Detached Housing	3 DU	28	1	2	2	2	1	3
		Existing Total:	28	1	2	2	2	1	3
Site De	evelopment - Proposed								
312	Business Hotel	8 RMS	32	1	2	3	1	1	2
	I	Proposed Total:	32	1	2	3	1	1	2
		New Total:	60	2	3	5	3	2	5

Kev:

DU = Dwelling Units. RMS = Rooms.

Note:

All data and calculations above are subject to being rounded to nearest value.

Upon build-out, Table 5 illustrates that the proposed development has the potential to generate approximately 60 daily vehicle trips with 3 of those occurring during the morning peak hour and 5 during the afternoon peak hour. Compared to the existing land uses, this represents a potential increase in site traffic generation of approximately 32 daily trips with 3 of those occurring during the morning peak hour and 2 during the afternoon peak hour.

Adjustments to Trip Generation Rates

A development of this type is not likely to attract trips from within area land uses nor pass-by or diverted link trips from the adjacent roadway system, therefore no trip reduction was taken in this analysis.

Trip Distribution

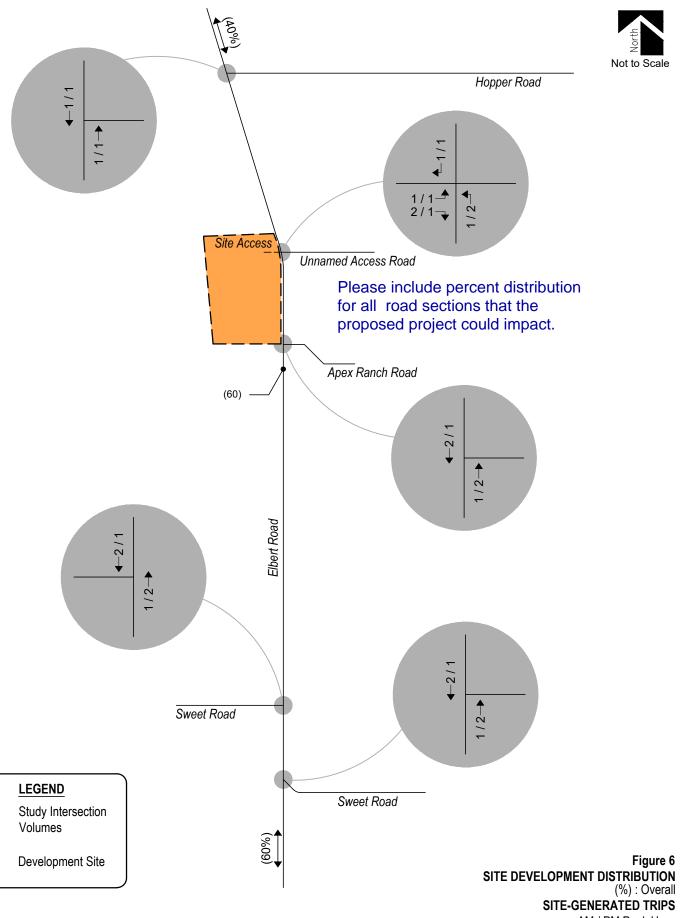
The overall directional distribution of site-generated traffic was determined based on the location of development site within the County proposed and existing area land uses, allowed turning movements, available roadway network, and the adjacent Overlook at Homestead Traffic Impact Study.

Overall trip distribution patterns for the development are shown on Figure 6.

Trip Assignment

Traffic assignment is how generated and distributed vehicle trips are expected to be loaded onto the available roadway network.

Applying trip distribution patterns to site-generated traffic provides the overall site-generated trip assignments shown on Figure 6.





16888 ELBERT ROAD REZONE

Traffic Impact Study

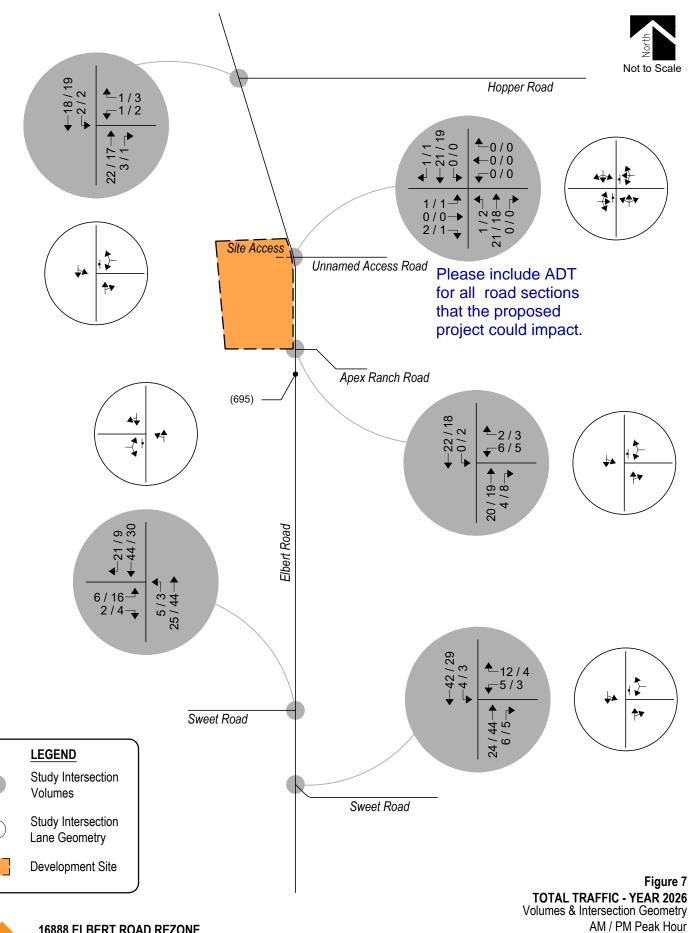
V. Future Traffic Conditions With Proposed Developments

Total traffic is the traffic projected to be on area roadways with consideration of the proposed development. Total traffic includes background traffic projections for Years 2026 and 2040 with consideration of site-generated traffic. For analysis purposes, it was assumed that development construction would be completed by end of Year 2026.

Pursuant to area roadway improvement discussions provided in Section III, Year 2026 and Year 2040 total traffic conditions assume no roadway improvements to accommodate regional transportation demands. Roadway improvements associated with site development are expected to be limited to site access and frontage as required by the governing agency.

Projected Year 2026 total traffic volumes and intersection geometry are shown in Figure 7.

Figure 8 shows projected total traffic volumes and intersection geometry for Year 2040.

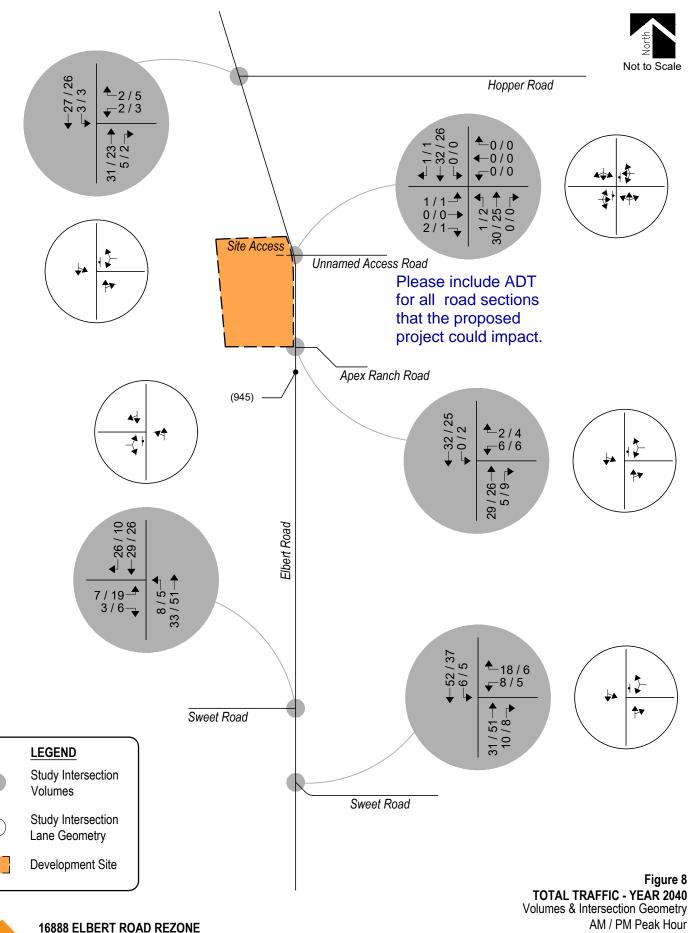




16888 ELBERT ROAD REZONE

Traffic Impact Study

(ADT): Average Daily Traffic





Traffic Impact Study

(ADT): Average Daily Traffic

VI. Project Impacts

The analyses and procedures described in this study were performed in accordance with the latest HCM and are based upon the worst-case conditions that occur during a typical weekday upon build-out of site development and analyzed land uses. Therefore, study intersections are likely to operate with traffic conditions better than those described within this study, which represent the peak hours of weekday operations only.

Peak Hour Intersection Levels of Service – Total Traffic

As with background traffic, the operations of the study intersections were analyzed under projected total traffic conditions using the SYNCHRO computer program. Total traffic level of service analysis results for Years 2026 and 2040 are summarized in Table 6 and Table 7, respectively.

Definitions of levels of service are given in Appendix B. Intersection capacity worksheets are provided in Appendix C.

Table 6 – Intersection Capacity Analysis Summary – Total Traffic – Year 2026

INTERSECTION	LEVEL OF SERVICE				
LANE GROUPS	AM PEAK HOUR	PM PEAK HOUR			
Elbert Road / Sweet Road (Stop-Controlled) Westbound Left and Right	A	Α			
Southbound Left and Through	А	Α			
Elbert Road / Sweet Road (Stop-Controlled)					
Eastbound Left and Right	Α	Α			
Northbound Left and Through	A	A			
Elbert Road / Apex Ranch Road (Stop-Controlled)					
Westbound Left and Right	A	A			
Southbound Left and Through	A	А			
Elbert Road / Unnamed Access Road / Site Access (Stop-Cor	ntrolled)				
Eastbound Left, Through and Right	Α	Α			
Westbound Left, Through and Right	A	A			
Southbound Left and Through	A	A			
Elbert Road / Hopper Road (Stop-Controlled)					
Westbound Left and Right	Α	Α			
Southbound Left and Through	A	А			

Key: Stop-Controlled Intersection: Level of Service

Table 7 – Intersection Capacity Analysis Summary – Total Traffic – Year 2040

INTERSECTION	LEVEL OF SERVICE			
LANE GROUPS	AM PEAK HOUR	PM PEAK HOUR		
Elbert Road / Sweet Road (Stop-Controlled)				
Westbound Left and Right	Α	Α		
Southbound Left and Through	А	А		
Elbert Road / Sweet Road (Stop-Controlled)				
Eastbound Left and Right	Α	Α		
Northbound Left and Through	Α	Α		
Elbert Road / Apex Ranch Road (Stop-Controlled)				
Westbound Left and Right	Α	Α		
Southbound Left and Through	Α	A		
Elbert Road / Unnamed Access Road / Site Access (Stop-Cor	ntrolled)			
Eastbound Left, Through and Right	Α	Α		
Westbound Left, Through and Right	Α	А		
Southbound Left and Through	Α	A		
Elbert Road / Hopper Road (Stop-Controlled)				
Westbound Left and Right	Α	Α		
Southbound Left and Through	А	А		

Key: Stop-Controlled Intersection: Level of Service

Total Traffic Analysis Results Upon Development Build-Out

Table 7 illustrates how, by Year 2040 and upon development build-out, the unsignalized intersection of Elbert Road and Sweet Road continues to anticipate turning movement operations at LOS A during both the morning and afternoon peak traffic hours.

The unsignalized intersection of Elbert Road and Sweet Road continues to project turning movement operations at LOS A during both the morning and afternoon peak traffic hours.

The unsignalized intersection of Elbert Road and Apex Ranch Road continues to anticipate turning movement operations at LOS A during both the morning and afternoon peak traffic hours.

The unsignalized intersection of Elbert Road and Site Access continues to expecte turning movement operations at LOS A during both the morning and afternoon peak traffic hours.

The unsignalized intersection of Elbert Road and Hopper Road continues to project turning movement operations at LOS A During both the morning and afternoon peak traffic hours.

These intersection operations are similar to existing conditions.

VII. Conclusion

This traffic impact study addressed the capacity, geometric, and control requirements associated with the development entitled 16888 Elbert Road Rezone. This proposed mixed-use development consists of a 1,500 square foot business event center with eight associated bed and breakfasts. The development is located on the west side of Elbert Road approximately three-quarters of a mile south of Hopper Road at 16888 Elbert Road in El Paso County, Colorado.

The study area examined in this analysis encompassed in this analysis encompasses the segment of Elbert Road bounded by Sweet Road to Hopper Road and includes the proposed site access.

Analysis was conducted for critical AM Peak Hour and PM Peak Hour traffic operations for existing traffic conditions, Year 2026 and Year 2040 background traffic conditions, and Year 2026 and Year 2040 total traffic conditions.

Analysis of existing traffic conditions indicates that the unsignalized intersections within the study have turning movement operations at LOS A during the morning and afternoon peak traffic hours.

Without the proposed development, Year 2026 background operational analysis shows that the unsignalized intersections within the study area continue to project operations at LOS A during morning and afternoon peak traffic hours.

By Year 2040 and without the proposed development, the unsignalized intersections within the study area continue to have turning movement projected operations at LOS A for the morning and afternoon peak traffic hours.

Analysis of future traffic conditions indicates that the addition of site-generated traffic is expected to create no negative impact to traffic operations for the existing and surrounding roadway system upon roadway and intersection control improvements assumed within this analysis. With all conservative assumptions defined in this analysis, the study intersections are projected to operate at future levels of service comparable to Year 2040 background traffic conditions. Proposed site access has long-term operations at LOS A during peak traffic periods and upon build-out.

APPENDIX A

Traffic Count Data

Weekday Morning Peak
Hourly Vehicle Counts (Existing)

Hopper Road

Subdivision Access
to Elbert Road



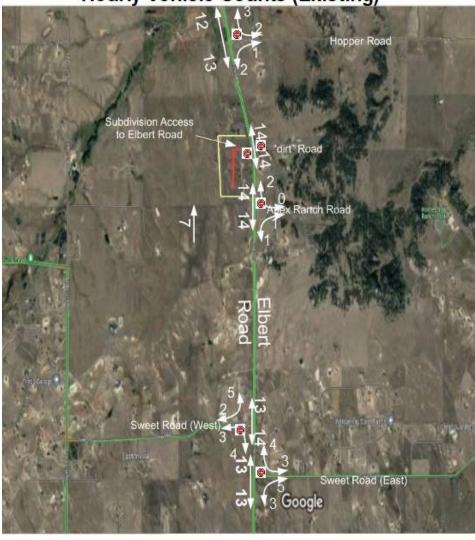
Sweet Road (West)

Sweet Road (East)

Google

Weekday Afternoon Average Hourly Traffic Flow for Intersections

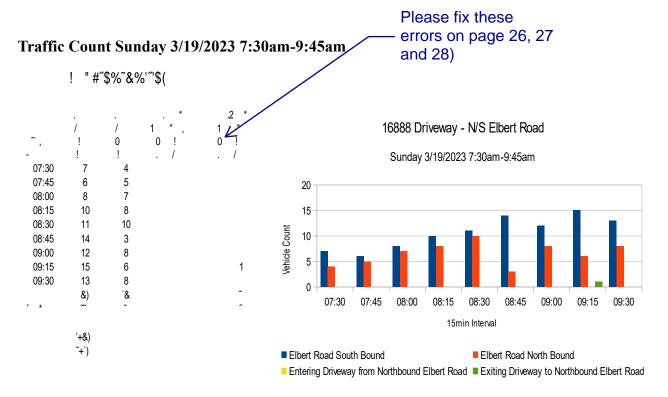
Weekday Afternoon Peak Hourly Vehicle Counts (Existing)



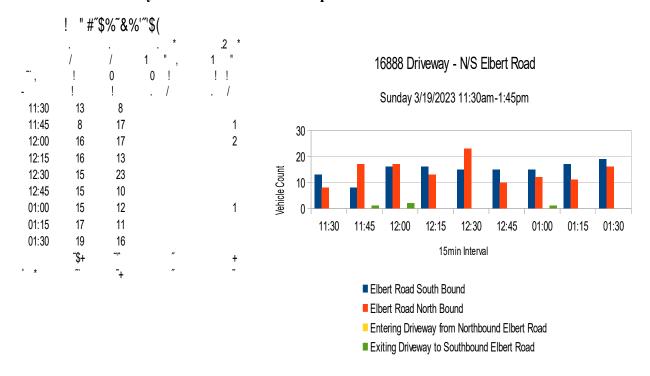
North

Stop-Sign Controlled

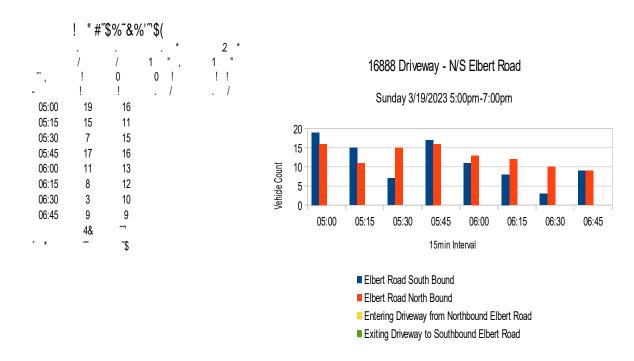
Appendix A – Traffic Count Data



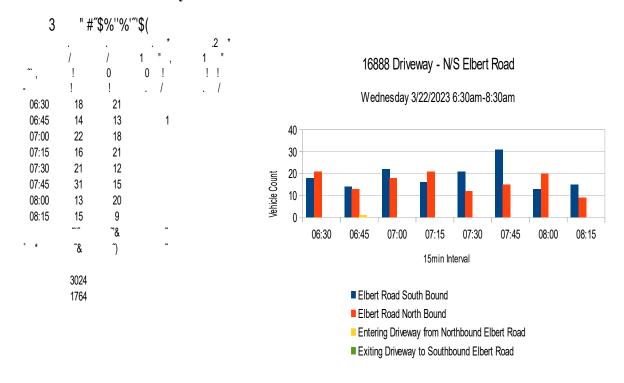
Traffic Count Sunday 3/19/2023 11:30am-1:45pm



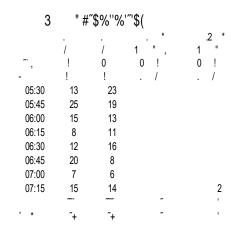
Traffic Count Sunday 3/19/2023 5:00pm-7:00pm



Traffic Count Wednesday 3/22/2023 6:30am-8:30am



Traffic Count Wednesday 3/22/2023 5:30pm-7:30pm





APPENDIX B

Level of Service Definitions

The following information is referenced from the <u>Highway Capacity Manual: A Guide for Multimodal Mobility Analysis</u>, 6th Edition, Transportation Research Board, 2016: Chapter 19 – Signalized Intersections.

Motorized Vehicle Level of Service (LOS) for Signalized Intersections

Levels of service are defined to represent reasonable ranges in control delay.

- **LOS A** Describes operations with a control delay of 10 s/veh or less and a volume-to-capacity ratio no greater than 1.0. This level is typically assigned when the volume-to-capacity ratio is low and either progression is exceptionally favorable or the cycle length is very short. If it is due to favorable progression, most vehicles arrive during the green indication and travel through the intersection without stopping.
- **LOS B** Describes operations with control delay between 10 and 20 s/veh and a volume-to-capacity ratio no greater than 1.0. This level is typically assigned when the volume-to-capacity ratio is low and either progression is highly favorable or the cycle length is short. More vehicles stop than with LOS A.
- **LOS C** Describes operations with control delay between 20 and 35 s/veh and a volume-to-capacity ratio no greater than 1.0. This level is typically assigned when progression is favorable or the cycle length is moderate. Individual *cycle failures* (i.e., one or more queued vehicles are not able to depart as a result of insufficient capacity during the cycle) may begin to appear at this level. The number of vehicles stopping is significant, although many vehicles still pass through the intersection without stopping.
- <u>LOS D</u> Describes operations with control delay between 35 and 55 s/veh and a volume-to-capacity ratio no greater than 1.0. This level is typically assigned when the volume-to-capacity ratio is high and either progression is ineffective or the cycle length is long. Many vehicles stop and individual cycle failures are noticeable.
- **LOS E** Describes operations with control delay between 55 and 80 s/veh and a volume-to-capacity ratio no greater than 1.0. This level is typically assigned when the volume-to-capacity ratio is high, progression is unfavorable, and the cycle length is long. Individual cycle failures are frequent.
- **LOS F** Describes operations with control delay exceeding 80 s/veh or a volume-to-capacity ratio greater than 1.0. This level is typically assigned when the volume-to-capacity ratio is very high, progression is very poor, and the cycle length is long. Most cycles fail to clear the queue.

Control Delay	LOS by Volume-to-Capacity Ratio ^a		
(s/veh)	<i>v/c</i> ≤ 1.0	<i>v/c</i> > 1.0	
≤ 10	A	F	
> 10 – 20	В	F	
> 20 – 35	С	F	
> 35 – 55	D	F	
> 55 – 80	E	F	
> 80	F	F	

Note: a For approach-based and intersectionwide assessments, LOS is defined solely by control delay.

The following information is referenced from the <u>Highway Capacity Manual: A Guide for Multimodal Mobility Analysis</u>, 6th Edition, Transportation Research Board, 2016: Chapter 20 – Two-Way Stop-Controlled Intersections, Chapter 21 – All-Way Stop-Controlled Intersections, and Chapter 22 - Roundabouts.

Motorized Vehicle Level of Service (LOS) for Unsignalized & Roundabout Intersections

LOS is a quantitative stratification of performance measure(s) representing quality of service. Quality of service describes how well a transportation facility or service operates from a traveler's perspective. LOS is measured on an A-F scale, with LOS A representing the best operating conditions from a traveler's perspective.

Control Delay	LOS by Volume-to-Capacity Ratio ^a	
(s/veh)	<i>v/c</i> ≤ 1.0	<i>v/c</i> > 1.0
0 – 10	A	F
> 10 – 15	В	F
> 15 – 25	С	F
> 25 – 35	D	F
> 35 – 50	E	F
> 50	F	F

Note: The LOS criteria apply to each lane on a given approach and to each approach on the minor street. LOS is not calculated for major-street approaches or for the intersection as a whole.

^a For approaches and intersectionwide assessment, LOS is defined solely by control delay.

APPENDIX C Capacity Worksheets

Intersection						
Int Delay, s/veh	2.9					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥		Դ			4
Traffic Vol, veh/h	5	11	14	6	4	18
Future Vol, veh/h	5	11	14	6	4	18
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage	e, # 0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	5	12	15	7	4	20
	Minor1		//ajor1		Major2	
Conflicting Flow All	47	19	0	0	22	0
Stage 1	19	-	-	-	-	-
Stage 2	28	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy		3.318	-	-	2.218	-
Pot Cap-1 Maneuver	963	1059	-	-	1593	-
Stage 1	1004	-	-	_	-	-
Stage 2	995	_	-	-	-	-
Platoon blocked, %			_	_		_
Mov Cap-1 Maneuver	960	1059	_	_	1593	_
Mov Cap-1 Maneuver	960	-	_	_	1000	_
Stage 1	1004		-	_		-
	992	-	-	-	-	-
Stage 2	332	-	-	_	-	-
Approach	WB		NB		SB	
HCM Control Delay, s	8.6		0		1.3	
HCM LOS	A					
Minor Lane/Major Mvm	nt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		-	-	1026	1593	-
HCM Lane V/C Ratio		-	-	0.017		-
HCM Control Delay (s)		-	-	8.6	7.3	0
HCM Lane LOS		-	-	A	A	A
HCM 95th %tile Q(veh)	-	_	0.1	0	-
TOWN JOHN JUHIC WIVELL	,			0.1	U	

Intersection						
Int Delay, s/veh	1.3					
		EDD	NDL	NDT	CDT	CDD
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	¥		_		4	
Traffic Vol, veh/h	2	2	5	15	20	10
Future Vol, veh/h	2	2	5	15	20	10
Conflicting Peds, #/hr	0	0	0	_ 0	_ 0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage	e, # 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	2	2	5	16	22	11
Maior/Mine	Minar		Mairud		1-1-10	
	Minor2		Major1		/lajor2	
Conflicting Flow All	54	28	33	0	-	0
Stage 1	28	-	-	-	-	-
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	954	1047	1579	-	-	-
Stage 1	995	-	-	-	-	-
Stage 2	997	-	-	-	-	-
Platoon blocked, %				-	_	-
Mov Cap-1 Maneuver	951	1047	1579	_	-	-
Mov Cap-2 Maneuver	951		-	_	_	_
Stage 1	992	-	_			
Stage 2	997					
Slaye 2	331	-	_		-	-
Approach	EB		NB		SB	
HCM Control Delay, s	8.6		1.8		0	
HCM LOS	Α					
1. 1. (1.4.)		ND	NDT:	EDI 4	0.0.7	000
Minor Lane/Major Mvn	nt	NBL		EBLn1	SBT	SBR
Capacity (veh/h)		1579	-	00.	-	-
HCM Lane V/C Ratio		0.003	-	0.004	-	-
HCM Control Delay (s)		7.3	0	8.6	-	-
HCM Lane LOS		Α	Α	Α	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-

Intersection						
Int Delay, s/veh	0					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥/					<u>- 52.</u>
Traffic Vol, veh/h	0	0	16	2	0	19
Future Vol, veh/h	0	0	16	2	0	19
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
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	17	2	0	21
maille i i i i i i	- 3		- 11			L 1
	Minor1		//ajor1		Major2	
Conflicting Flow All	39	18	0	0	19	0
Stage 1	18	-	-	-	-	-
Stage 2	21	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	973	1061	-	-	1597	-
Stage 1	1005	-	-	-	-	-
Stage 2	1002	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	973	1061	-	_	1597	-
Mov Cap-2 Maneuver	973	-	-	_		-
Stage 1	1005	_	-	_	_	_
Stage 2	1003	-	_	_	_	_
Olago Z	1002					
Approach	WB		NB		SB	
HCM Control Delay, s	0		0		0	
HCM LOS	Α					
Minor Lane/Major Mvm	nt	NBT	NRDV	VBLn1	SBL	SBT
	IL					
Capacity (veh/h)		-	-	-	1597	-
HCM Lane V/C Ratio		-	-	-	-	-
HCM Control Delay (s)		-	-	0	0	-
HCM Lane LOS		-	-	Α	A	-
HCM 95th %tile Q(veh)	-	-	-	0	-

Intersection						
Int Delay, s/veh	0					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥					<u>ુરુ</u>
Traffic Vol, veh/h	0	0	16	0	0	20
Future Vol, veh/h	0	0	16	0	0	20
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	- -	None	-	None	-	
Storage Length	0	-	_	-	_	-
Veh in Median Storage		_	0	_	_	0
Grade, %	e, # 0 0	-	0	-	-	0
					92	
Peak Hour Factor	92	92	92	92		92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	0	17	0	0	22
Major/Minor	Minor1	N	/lajor1		Major2	
Conflicting Flow All	39	17	0	0	17	0
Stage 1	17	-			- 17	
	22	-	-	-	-	-
Stage 2		6.00	-	-	1.10	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy		3.318	-	-	2.218	-
Pot Cap-1 Maneuver	973	1062	-	-	1600	-
Stage 1	1006	-	-	-	-	-
Stage 2	1001	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	973	1062	-	-	1600	-
Mov Cap-2 Maneuver	973	-	-	-	-	-
Stage 1	1006	-	-	-	-	-
Stage 2	1001	-	_	_	_	-
J	. 50 7					
	14.5				^=	
Approach	WB		NB		SB	
HCM Control Delay, s	0		0		0	
HCM LOS	Α					
Minor Lane/Major Mvn	nt	NBT	NRRV	VBLn1	SBL	SBT
	ı	NDT				
Capacity (veh/h)		-	-		1600	-
HCM Lane V/C Ratio		-	-	-	-	-
HCM Control Delay (s		-	-	0	0	-
HCM Lane LOS		-	-	Α	Α	-
HCM 95th %tile Q(veh)	-	-	-	0	-

Intersection						
Int Delay, s/veh	0.8					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥*					- €1
Traffic Vol, veh/h	1	1	16	3	2	16
Future Vol, veh/h	1	1	16	3	2	16
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
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	1	1	17	3	2	17
IVIVIIICI IOVV	•	•	!!	U		- 17
	Minor1		//ajor1		Major2	
Conflicting Flow All	40	19	0	0	20	0
Stage 1	19	-	-	-	-	-
Stage 2	21	-	-	-	-	-
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	972	1059	-	-	1596	-
Stage 1	1004	-	-	-	-	-
Stage 2	1002	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	971	1059	-	-	1596	-
Mov Cap-2 Maneuver	971	-	-	-	-	-
Stage 1	1004	-	-	-	-	-
Stage 2	1001	_	_	_	_	_
2.5.30 =	. 50 1					
A)A/D		ND		OB	
Approach	WB		NB		SB	
HCM Control Delay, s	8.6		0		8.0	
HCM LOS	A					
Minor Lane/Major Mvn	nt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		-		1013	1596	-
HCM Lane V/C Ratio		-		0.002		_
HCM Control Delay (s)	\		_	8.6	7.3	0
HCM Lane LOS		-	-	0.0 A	7.3 A	A
HCM 95th %tile Q(veh	1	_	-	0	0	-
How som while Q(ven	1	-	-	U	U	-

Intersection						
Int Delay, s/veh	2					
•		14/5-5			07:	0==
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥		₽			4
Traffic Vol, veh/h	3	4	13	5	3	13
Future Vol, veh/h	3	4	13	5	3	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	e, # 0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	3	4	14	5	3	14
IVIVIII I IOW	0	7	דו	J	3	דו
Major/Minor	Minor1	<u> </u>	Major1		Major2	
Conflicting Flow All	37	17	0	0	19	0
Stage 1	17	-	-	_	-	_
Stage 2	20	_	-	-	_	-
Critical Hdwy	6.42	6.22	-	_	4.12	-
Critical Hdwy Stg 1	5.42	-	_	_	1.12	_
Critical Hdwy Stg 2	5.42	_			_	_
	3.518	3.318	-	_		_
Follow-up Hdwy				-		-
Pot Cap-1 Maneuver	975	1062	-	-	1597	-
Stage 1	1006	-			-	-
Stage 2	1003	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	973	1062	-	-	1597	-
Mov Cap-2 Maneuver	973	-	-	-	-	-
Stage 1	1006	-	-	-	-	-
Stage 2	1001	-	-	-	-	-
olago =						
	14/5		ND		25	
Approach	WB		NB		SB	
HCM Control Delay, s	8.5		0		1.4	
HCM LOS	Α					
NAI	.1	NDT	MDD	NDL 4	ODI	ODT
Minor Lane/Major Mvm	11	NBT		VBLn1	SBL	SBT
Capacity (veh/h)		-			1597	-
HCM Lane V/C Ratio		-	-	0.007		-
HCM Control Delay (s)		-	-	8.5	7.3	0
HCM Lane LOS		-	-	Α	Α	Α
HCM 95th %tile Q(veh)	-	-	0	0	-

Intersection						
Int Delay, s/veh	2.4					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	¥			4	₽	
Traffic Vol, veh/h	5	4	3	13	14	2
Future Vol, veh/h	5	4	3	13	14	2
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage	e,# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	5	4	3	14	15	2
manic IOW		7		17	10	
Major/Minor	Minor2		Major1	N	/lajor2	
Conflicting Flow All	36	16	17	0	-	0
Stage 1	16	-	-	-	-	-
Stage 2	20	-	-	-	-	-
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	977	1063	1600	-	-	-
Stage 1	1007	-	-	_	_	_
Stage 2	1003	-	_	_	_	_
Platoon blocked, %	1000			_	_	_
Mov Cap-1 Maneuver	975	1063	1600	_		-
	975				_	
Mov Cap-2 Maneuver		-	-	-	-	-
Stage 1	1005	-	-	-	-	-
Stage 2	1003	-	-	-	-	-
Approach	EB		NB		SB	
HCM Control Delay, s	8.6		1.4		0	
HCM LOS	Α		1. (
TIOWI LOO	^					
Minor Lane/Major Mvn	nt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)		1600	-	1012	-	-
HCM Lane V/C Ratio		0.002	-	0.01	-	-
HCM Control Delay (s)	7.3	0	8.6	-	-
HCM Lane LOS		Α	Α	Α	-	-
HCM 95th %tile Q(veh	1)	0	-	0	-	-
	,			·		

Intersection						
Int Delay, s/veh	0.8					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥		1			
Traffic Vol, veh/h	1	2	14	1	0	14
Future Vol, veh/h	1	2	14	1	0	14
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	- -	None	-	None	-	None
Storage Length	0	-	_	-	_	-
Veh in Median Storage		_	0	_	_	0
Grade, %	s, # 0 0	-	0	_	_	0
Peak Hour Factor	92	92	92	92	92	92
	2	2	2	2	2	2
Heavy Vehicles, % Mvmt Flow	1	2	15			15
IVIVITIL FIOW	1		15	1	0	15
Major/Minor	Minor1	N	Major1		Major2	
Conflicting Flow All	31	16	0	0	16	0
Stage 1	16	-	-	-	-	-
Stage 2	15	-	_	-	_	_
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	_	_		-
Critical Hdwy Stg 2	5.42	_	_	_	_	_
Follow-up Hdwy	3.518		_	_	2.218	-
Pot Cap-1 Maneuver	983	1063	_	_	1602	_
Stage 1	1007	1000	_	_	1002	-
Stage 2	1007	-	-	_	-	-
	1000	-		-	-	
Platoon blocked, %	000	1000	-	-	1600	-
Mov Cap-1 Maneuver	983	1063	-	-	1602	-
Mov Cap-2 Maneuver	983	-	-	-	-	-
Stage 1	1007	-	-	-	-	-
Stage 2	1008	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s	8.5		0		0	
HCM LOS	A					
	, ,					
NA:		NET	NES	VDL 4	051	057
Minor Lane/Major Mvn	nt	NBT		VBLn1	SBL	SBT
Capacity (veh/h)		-		1035	1602	-
HCM Lane V/C Ratio		-	-	0.003	-	-
HCM Control Delay (s)		-	-	8.5	0	-
HCM Lane LOS		-	-	Α	Α	-
HCM 95th %tile Q(veh)	-	-	0	0	-

Intersection						
Int Delay, s/veh	0					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	WDL Y	וטא	1001 ←	אטוז	ODL	<u>ुका</u>
Traffic Vol, veh/h	0	0	14	0	0	14
Future Vol, veh/h	0	0	14	0	0	14
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	Stop -	None	riee -	None	-	None
Storage Length	0	INOHE	-	None -	-	INOHE -
		-	0		-	0
Veh in Median Storage		-		-	-	
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	15	0	0	15
Major/Minor	Minor1	N	Major1		Major2	
Conflicting Flow All	30	15	0	0	15	0
Stage 1	15	-		-	10	-
•	15		-		-	
Stage 2		6 22	-	-	4.12	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	- 0.040	-
Follow-up Hdwy	3.518		-		2.218	-
Pot Cap-1 Maneuver	984	1065	-	-	1603	-
Stage 1	1008	-	-	-	-	-
Stage 2	1008	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	984	1065	-	-	1603	-
Mov Cap-2 Maneuver	984	-	-	-	-	-
Stage 1	1008	-	-	-	-	-
Stage 2	1008	-	-	-	-	-
J.						
Annroach	W/D		ND		CD.	
Approach	WB		NB 0		SB	
HCM Control Delay, s	0		0		0	
HCM LOS	Α					
Minor Lane/Major Mvn	nt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		-	-	-	1603	-
HCM Lane V/C Ratio		-	_	_	1000	_
HCM Control Delay (s)		-	_	0	0	-
		-				
HCM Lane LOS	\	-	-	Α	A	-
HCM 95th %tile Q(veh)	-	-	-	0	-

Intersection						
Int Delay, s/veh	1.7					
		WED	NDT	NDD	ODI	ODT
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥		4			4
Traffic Vol, veh/h	2	3	12	1	2	13
Future Vol, veh/h	2	3	12	1	2	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	e, # 0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	2	3	13	1	2	14
	Minor1		//ajor1		Major2	
Conflicting Flow All	32	14	0	0	14	0
Stage 1	14	-	-	-	-	-
Stage 2	18	-	-	-	-	-
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	982	1066	-	-	1604	-
Stage 1	1009	-	-	_		-
Stage 2	1005	-	-	-	_	-
Platoon blocked, %	.505		_	_		_
Mov Cap-1 Maneuver	981	1066	_	-	1604	_
Mov Cap-1 Maneuver	981	1000	-	_	1004	
	1009	-	_	_	_	-
Stage 1		-	-	-	-	-
Stage 2	1004	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s	8.5		0		1	
HCM LOS	Α.					
	,\					
Minor Lane/Major Mvn	nt	NBT		VBLn1	SBL	SBT
Capacity (veh/h)		-		1030	1604	-
HCM Lane V/C Ratio		-	-	0.005	0.001	-
HCM Control Delay (s)		-	-	8.5	7.2	0
HCM Lane LOS		-	-	Α	Α	A
HCM 95th %tile Q(veh)	-	-	0	0	-
	,			•	,	

Intersection						
Int Delay, s/veh	2					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥		Դ			ની
Traffic Vol, veh/h	5	12	23	6	4	40
Future Vol, veh/h	5	12	23	6	4	40
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	5	13	25	7	4	43
IVIVIII I IOW	3	10	20	,	7	70
Major/Minor	Minor1	N	Major1	ı	Major2	
Conflicting Flow All	80	29	0	0	32	0
Stage 1	29	-	-	-	-	-
Stage 2	51	-	-	-	-	-
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	922	1046	-		1580	-
•	994	1040	-	-	1300	_
Stage 1		-	-	-	-	
Stage 2	971	-	-	-	-	-
Platoon blocked, %	0.40	1010	-	-	4500	-
Mov Cap-1 Maneuver	919	1046	-	-	1580	-
Mov Cap-2 Maneuver	919	-	-	-	-	-
Stage 1	994	-	-	-	-	-
Stage 2	968	-	-	-	-	-
Annroach	MD		ND		CD	
Approach	WB		NB		SB	
HCM Control Delay, s	8.6		0		0.7	
HCM LOS	A					
Minor Lane/Major Mvm	nt	NBT	NRRV	VBLn1	SBL	SBT
				1005	1580	-
Capacity (veh/h)		-		0.018		
HCM Cantral Palay (a)		-				-
HCM Control Delay (s)		-	-	8.6	7.3	0
HCM Lane LOS		-	-	A	A	Α
HCM 95th %tile Q(veh)		-	-	0.1	0	-

Intersection						
Int Delay, s/veh	1.1					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
	₩.	EDK	INDL			SDK
Lane Configurations		2	.	ન	♣	04
Traffic Vol, veh/h	6	2	5	24	42	21
Future Vol, veh/h	6	2	5	24	42	21
Conflicting Peds, #/hr	0	0	0	_ 0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	
Storage Length	0	-	-	-	-	-
Veh in Median Storage		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	7	2	5	26	46	23
Major/Minor	Minor?		Major1		Major?	
	Minor2		Major1		Major2	
Conflicting Flow All	94	58	69	0	-	0
Stage 1	58	-	-	-	-	-
Stage 2	36	-	-	-	-	-
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		-	-	-
Pot Cap-1 Maneuver	906	1008	1532	-	-	-
Stage 1	965	-	-	-	-	-
Stage 2	986	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	903	1008	1532	-	-	-
Mov Cap-2 Maneuver	903	-		_	_	_
Stage 1	962		_		_	
Stage 2	986	_	_	_	_	_
Olaye 2	500					
Approach	EB		NB		SB	
HCM Control Delay, s	8.9		1.3		0	
HCM LOS	Α					
Minard and Maria		NDI	NDT	EDL 4	ODT	ODD
Minor Lane/Major Mvm	IT	NBL		EBLn1	SBT	SBR
Capacity (veh/h)		1532	-	v=:	-	-
HCM Lane V/C Ratio		0.004	-	0.009	-	-
HCM Control Delay (s)		7.4	0	8.9	-	-
HCM Lane LOS		Α	Α	Α	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-

Intersection						
Int Delay, s/veh	1.4					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥		<u>-€.,</u>		-000	<u>- 55+</u>
Traffic Vol, veh/h	6	2	19	4	0	20
Future Vol, veh/h	6	2	19	4	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
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	7	2	21	4	0	22
IVIVIIIL FIOW	1	2	۷۱	4	U	22
Major/Minor	Minor1	N	//ajor1		Major2	
Conflicting Flow All	45	23	0	0	25	0
Stage 1	23	-	-	-	-	-
Stage 2	22	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42		_	_		-
Critical Hdwy Stg 2	5.42	-	-	_	_	-
Follow-up Hdwy	3.518		_	_	2.218	_
Pot Cap-1 Maneuver	965	1054	_	_	1589	_
Stage 1	1000	-	_	_	1000	_
Stage 2	1000	-	-	-	-	-
Platoon blocked, %	1001	<u>-</u>				-
-	OGE	1054	-	-	1589	
Mov Cap-1 Maneuver	965		-	-	1389	-
Mov Cap-2 Maneuver	965	-	-	-	-	-
Stage 1	1000	-	-	-	-	-
Stage 2	1001	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s	8.7		0		0	
HCM LOS	Α					
	,\					
Minor Lane/Major Mvn	nt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		-	-	986	1589	-
HCM Lane V/C Ratio		-	-	0.009	-	-
HCM Control Delay (s))	-	-	8.7	0	-
HCM Lane LOS		-	-	Α	Α	-
HCM 95th %tile Q(veh)	-	-	0	0	-
.,	,					

Intersection						
Int Delay, s/veh	0					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥.			,,_,,		<u>- 55.</u>
Traffic Vol, veh/h	0	0	21	0	0	21
Future Vol, veh/h	0	0	21	0	0	21
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	- Olop	None	-	None		None
Storage Length	0	-	_	-	_	-
Veh in Median Storage		_	0	_	-	0
Grade, %	s, # 0 0	-	0		-	0
				-		
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	0	23	0	0	23
Major/Minor	Minor1	N	//ajor1		Major2	
Conflicting Flow All	46	23	0	0	23	0
Stage 1	23		-	_		-
Stage 2	23	-	_	_	_	_
Critical Hdwy	6.42	6.22	_	_	4.12	-
Critical Hdwy Stg 1	5.42	V.ZZ	_		T. 12	
Critical Hdwy Stg 2	5.42	-	-	_	_	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	964	1054	_	-	1592	
•		1004	-	-	1092	-
Stage 1	1000	-	-	-	-	-
Stage 2	1000	-	-	-	-	-
Platoon blocked, %	001	10=1	-	-	4500	-
Mov Cap-1 Maneuver	964	1054	-	-	1592	-
Mov Cap-2 Maneuver	964	-	-	-	-	-
Stage 1	1000	-	-	-	-	-
Stage 2	1000	-	-	-	-	-
Approach	WB		NB		SB	
	0		0		0	
HCM LOS			U		U	
HCM LOS	Α					
Minor Lane/Major Mvm	nt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		-	-		1592	-
HCM Lane V/C Ratio		_	_	-		_
HCM Control Delay (s)		_	-	0	0	-
HCM Lane LOS		_	_	A	A	-
HCM 95th %tile Q(veh	١	_		-	0	-
How som while wiven	1	-	-	-	U	-

Intersection						
Int Delay, s/veh	0.7					
		WED	NDT	NDD	CDI	CDT
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥		- ↑	•	_	<u>4</u>
Traffic Vol, veh/h	1	1	21	3	2	17
Future Vol, veh/h	1	1	21	3	2	17
Conflicting Peds, #/hr	0	0	_ 0	_ 0	_ 0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage	e, # 0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	1	1	23	3	2	18
N.A. ' /N.A'	h 4:					
	Minor1		//ajor1		Major2	
Conflicting Flow All	47	25	0	0	26	0
Stage 1	25	-	-	-	-	-
Stage 2	22	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	963	1051	-	-	1588	-
Stage 1	998	-	-	-	-	-
Stage 2	1001	-	-	-	-	-
Platoon blocked, %			_	-		-
Mov Cap-1 Maneuver	962	1051	_	_	1588	_
Mov Cap-1 Maneuver	962	- 1001	_		1000	
	998	-	_	_	_	-
Stage 1		-	-		-	
Stage 2	1000	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s	8.6		0		0.8	
HCM LOS	Α.				3.0	
1101111 200	Λ					
Minor Lane/Major Mvn	nt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		-		1005	1588	-
HCM Lane V/C Ratio		-	-	0.002	0.001	-
HCM Control Delay (s)		-	-	8.6	7.3	0
HCM Lane LOS		-	-	Α	Α	A
HCM 95th %tile Q(veh)	-	-	0	0	-
	,			,	,	

Intersection						
Int Delay, s/veh	1					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥		ĵ»			€Î
Traffic Vol, veh/h	3	4	42	5	3	28
Future Vol, veh/h	3	4	42	5	3	28
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
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	3	4	46	5	3	30
IVIVIIIL FIOW	J	4	40	3	J	30
Major/Minor	Minor1	N	//ajor1	J	Major2	
Conflicting Flow All	85	49	0	0	51	0
Stage 1	49	-	-	-	-	-
Stage 2	36	-	_	_	_	_
Critical Hdwy	6.42	6.22	_	_	4.12	-
Critical Hdwy Stg 1	5.42	0.22	_		4.12	_
Critical Hdwy Stg 2	5.42	-		_	-	-
	3.518	3.318		-	2.218	
Follow-up Hdwy			-	-		-
Pot Cap-1 Maneuver	916	1020	-	-	1555	-
Stage 1	973	-	-	-	-	-
Stage 2	986	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	914	1020	-	-	1555	-
Mov Cap-2 Maneuver	914	-	-	-	-	-
Stage 1	973	-	-	-	-	-
Stage 2	984	-	-	-	-	-
, and the second						
Annroach	\A/D		ND		CD	
Approach	WB		NB		SB	
HCM Control Delay, s	8.7		0		0.7	
HCM LOS	Α					
Minor Lane/Major Mvn	nt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		-		972	1555	-
HCM Lane V/C Ratio			_	0.008		
HCM Control Delay (s)	\	-		8.7	7.3	0
		-	-			
HCM Lane LOS	,	-	-	A	A	Α
HCM 95th %tile Q(veh)	-	-	0	0	-

Intersection						
Int Delay, s/veh	2					
				NIE T	057	055
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	¥			4	4	
Traffic Vol, veh/h	16	4	3	42	29	9
Future Vol, veh/h	16	4	3	42	29	9
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage	e, # 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	17	4	3	46	32	10
				_		
	Minor2		Major1		/lajor2	
Conflicting Flow All	89	37	42	0	-	0
Stage 1	37	-	-	-	-	-
Stage 2	52	-	-	-	-	-
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	912	1035	1567	-	-	_
Stage 1	985	-	-	_	-	-
Stage 2	970	_	_	_	_	_
Platoon blocked, %	310				_	_
Mov Cap-1 Maneuver	910	1035	1567	-		
Mov Cap-1 Maneuver	910	1000	1307	-	-	-
	983	-	_	-	-	-
Stage 1		-	-	-	-	-
Stage 2	970	-	-	-	-	-
Approach	EB		NB		SB	
HCM Control Delay, s	9		0.5		0	
HCM LOS	A		0.0		0	
TIOWI LOG						
Minor Lane/Major Mvn	nt	NBL	NBT I	EBLn1	SBT	SBR
Capacity (veh/h)		1567	-	933	-	-
HCM Lane V/C Ratio		0.002	-	0.023	-	-
HCM Control Delay (s)		7.3	0	9	-	-
HCM Lane LOS		Α	A	A	-	-
HCM 95th %tile Q(veh)	0	-	0.1	-	-
	1	J		J. 1		

Intersection						
Int Delay, s/veh	1.6					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥		†			4
Traffic Vol, veh/h	5	3	17	8	2	17
Future Vol, veh/h	5	3	17	8	2	17
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
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	5	3	18	9	2	18
Major/Minor	Minor1		Joies1		Maior	
			Major1		Major2	
Conflicting Flow All	45	23	0	0	27	0
Stage 1	23	-	-	-	-	-
Stage 2	22	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518		-	-	2.218	-
Pot Cap-1 Maneuver	965	1054	-	-	1587	-
Stage 1	1000	-	-	-	-	-
Stage 2	1001	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	964	1054	-	-	1587	-
Mov Cap-2 Maneuver	964	-	-	-	-	-
Stage 1	1000	-	-	-	-	-
Stage 2	1000	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s	8.6		0		0.8	
HCM LOS	0.0 A		U		0.0	
TIONI LOS	A					
Minor Lane/Major Mvm	nt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		-	-	996	1587	-
HCM Lane V/C Ratio		-	-	0.009	0.001	-
HCM Control Delay (s)		-	-	8.6	7.3	0
HCM Lane LOS		-	-	Α	Α	Α
HCM 95th %tile Q(veh)	-	-	0	0	-

Intersection						
Int Delay, s/veh	0					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥		1			4
Traffic Vol, veh/h	0	0	18	0	0	19
Future Vol, veh/h	0	0	18	0	0	19
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage	e, # 0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	0	20	0	0	21
N A . ' /N A'	NA*		1.1.4		4	
	Minor1		Major1		Major2	
Conflicting Flow All	41	20	0	0	20	0
Stage 1	20	-	-	-	-	-
Stage 2	21	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518		-	-	2.218	-
Pot Cap-1 Maneuver	970	1058	-	-	1596	-
Stage 1	1003	-	-	-	-	-
Stage 2	1002	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	970	1058	-	-	1596	-
Mov Cap-2 Maneuver	970	-	-	-	-	-
Stage 1	1003	-	-	-	-	-
Stage 2	1002	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s	0		0		0	
HCM LOS	Α					
Minor Lane/Major Mvm	nt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		-	-	-	1596	-
HCM Lane V/C Ratio		-	-	-	-	-
HCM Control Delay (s)		-	-	0	0	-
HCM Lane LOS		-	-	Α	Α	-
HCM 95th %tile Q(veh)	-	-	-	0	-
, , , , , , , , , , , , , , ,	,				_	

Intersection						
Int Delay, s/veh	1.3					
•		WDD	NDT	NDD	CDI	CDT
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥	_	}		^	 €
Traffic Vol, veh/h	2	3	16	1	2	18
Future Vol, veh/h	2	3	16	1	2	18
Conflicting Peds, #/hr	0	0	_ 0	_ 0	_ 0	_ 0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage	•	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	2	3	17	1	2	20
Major/Miner	Minant		Ania 1		Mais-0	
	Minor1		Major1		Major2	
Conflicting Flow All	42	18	0	0	18	0
Stage 1	18	-	-	-	-	-
Stage 2	24	-	-	-	-	-
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	969	1061	-	-	1599	-
Stage 1	1005	-	-	-	-	-
Stage 2	999	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	968	1061	-	-	1599	-
Mov Cap-2 Maneuver	968	-	_	_	-	_
Stage 1	1005	_	_	-	_	_
Stage 2	998	-	_	_	_	_
Olaye 2	330	_	_	_	_	_
Approach	WB		NB		SB	
HCM Control Delay, s	8.5		0		0.7	
HCM LOS	Α					
			NES		07:	0==
Minor Lane/Major Mvn	nt	NBT		VBLn1	SBL	SBT
Capacity (veh/h)		-			1599	-
HCM Lane V/C Ratio		-	-	0.005		-
HCM Control Delay (s)		-	-	8.5	7.3	0
HCM Lane LOS		-	-	Α	Α	Α
HCM 95th %tile Q(veh)	-	-	0	0	-
•						

Intersection						
Int Delay, s/veh	2.2					
		\	. IE =	. IE =	07:	0==
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	Y		Դ			4
Traffic Vol, veh/h	8	18	30	10	6	50
Future Vol, veh/h	8	18	30	10	6	50
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage	e, # 0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	9	20	33	11	7	54
				- 11	•	- Ur
	Minor1		//ajor1		Major2	
Conflicting Flow All	107	39	0	0	44	0
Stage 1	39	-	-	-	-	-
Stage 2	68	-	-	-	-	-
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	891	1033	_	_	1564	_
Stage 1	983	- 1000			1007	_
Stage 2	955	-	-	_	_	-
	300	-		-	-	
Platoon blocked, %	007	1000	-	-	1504	-
Mov Cap-1 Maneuver	887	1033	-	-	1564	-
Mov Cap-2 Maneuver	887	-	-	-	-	-
Stage 1	983	-	-	-	-	-
Stage 2	950	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s	8.8		0		0.8	
HCM LOS	Α.				0.0	
TIOWI LOO	А					
Minor Lane/Major Mvn	nt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		-	-	983	1564	-
HCM Lane V/C Ratio		-	-	0.029		-
HCM Control Delay (s)		-	-	8.8	7.3	0
HCM Lane LOS		_	-	A	A	A
HCM 95th %tile Q(veh)	_	_	0.1	0	-
HOW JOHN JOHN WINE WIVEL	1	_		0.1	U	

Intersection						
Int Delay, s/veh	1.5					
		EDD	NDI	NDT	CDT	CDD
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	Y			4	4	
Traffic Vol, veh/h	7	3	8	32	23	26
Future Vol, veh/h	7	3	8	32	23	26
Conflicting Peds, #/hr	0	0	_ 0	_ 0	_ 0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage	e, # 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	8	3	9	35	25	28
M = : = =/N 4:= :	M: C		M-:. 4		4-i- C	
	Minor2		Major1		/lajor2	
Conflicting Flow All	92	39	53	0	-	0
Stage 1	39	-	-	-	-	-
Stage 2	53	-	-	-	-	-
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	908	1033	1553	-	-	-
Stage 1	983	-	-	-	-	-
Stage 2	970	-	-	-	-	-
Platoon blocked, %				-	_	-
Mov Cap-1 Maneuver	903	1033	1553	_	-	-
Mov Cap 1 Maneuver	903	- 300		_	_	_
Stage 1	977		_			
Stage 2	970	-				
Olaye Z	310	-			-	-
Approach	EB		NB		SB	
HCM Control Delay, s	8.9		1.5		0	
HCM LOS	Α					
N. 1. (1) 41 5 5 5		Mai	No.	-DL 4	057	055
Minor Lane/Major Mvn	nt	NBL		EBLn1	SBT	SBR
Capacity (veh/h)		1553	-	000	-	-
HCM Lane V/C Ratio		0.006		0.012	-	-
HCM Control Delay (s)		7.3	0	8.9	-	-
HCM Lane LOS		Α	Α	Α	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-
•						

Intersection						
Int Delay, s/veh	1					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	N/F		₽			ની
Traffic Vol, veh/h	6	2	28	5	0	30
Future Vol, veh/h	6	2	28	5	0	30
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	7	2	30	5	0	33
IVIVIII I IOW	1		30	J	U	55
Major/Minor I	Minor1	N	Major1		Major2	
Conflicting Flow All	66	33	0	0	35	0
Stage 1	33	-	-	-	-	-
Stage 2	33	-	-	-	-	-
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	939	1041			1576	-
•	989	1041	-	-	13/0	-
Stage 1		-	-	-	-	-
Stage 2	989	-	-	-	-	-
Platoon blocked, %			-	-	4===	-
Mov Cap-1 Maneuver	939	1041	-	-	1576	-
Mov Cap-2 Maneuver	939	-	-	-	-	-
Stage 1	989	-	-	-	-	-
Stage 2	989	-	-	-	-	-
A	MD		ND		0.0	
Approach	WB		NB		SB	
HCM Control Delay, s	8.8		0		0	
HCM LOS	Α					
Minor Lane/Major Mvm	t	NBT	NRRV	VBLn1	SBL	SBT
Capacity (veh/h)		-	-	000	1576	-
HOM Lana MO Dati						-
HCM Caretral Pales (a)		-		0.009	-	
HCM Control Delay (s)		-	-	8.8	0	-
		- - -				

Intersection						
Int Delay, s/veh	0					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥		f)			4
Traffic Vol, veh/h	0	0	30	0	0	32
Future Vol, veh/h	0	0	30	0	0	32
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage	, # 0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	0	0	33	0	0	35
WINTER TOWN	- 0	U	- 00	- 0	- 0	- 00
Major/Minor	Minor1	N	//ajor1		Major2	
Conflicting Flow All	68	33	0	0	33	0
Stage 1	33	-	-	-	-	-
Stage 2	35	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	_	_		_
Critical Hdwy Stg 1	5.42	_	_			
Follow-up Hdwy	3.518	3.318	_		2.218	_
Pot Cap-1 Maneuver	937	1041		_	1579	-
•				•		
Stage 1	989	-	-	-	-	-
Stage 2	987	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	937	1041	-	-	1579	-
Mov Cap-2 Maneuver	937	-	-	-	-	-
Stage 1	989	-	-	-	-	-
Stage 2	987	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s	0		0		0	
HCM LOS	Α					
Minor Lane/Major Mvm	nt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		-	-	-	1579	-
HCM Lane V/C Ratio		-	-	-	-	-
HCM Control Delay (s)				0	0	
		-	-			-
HCM Lane LOS		-	-	Α	A	-
HCM 95th %tile Q(veh))	-	-	-	0	-

Intersection						
Int Delay, s/veh	0.9					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥					- €1
Traffic Vol, veh/h	2	2	30	5	3	26
Future Vol, veh/h	2	2	30	5	3	26
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
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	2	2	33	5	3	28
Miller ION	_	_	00			
	Minor1		/lajor1		Major2	
Conflicting Flow All	70	36	0	0	38	0
Stage 1	36	-	-	-	-	-
Stage 2	34	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518		-	-	2.218	-
Pot Cap-1 Maneuver	934	1037	-	-	1572	-
Stage 1	986	-	-	-	-	-
Stage 2	988	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	932	1037	-	-	1572	-
Mov Cap-2 Maneuver	932	-	-	-	-	-
Stage 1	986	-	-	-	-	-
Stage 2	986	-	-	-	-	-
A	\A/D		NID		OB	
Approach	WB		NB		SB	
HCM Control Delay, s	8.7		0		0.8	
HCM LOS	A					
Minor Lane/Major Mvm	nt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		-	-	982	1572	-
HCM Lane V/C Ratio		-		0.004		_
HCM Control Delay (s)				8.7	7.3	0
HCM Lane LOS		-	_	Α	7.5 A	A
HCM 95th %tile Q(veh	1		-	0	0	
How som while wiven)	-	-	U	U	-

Intersection						
Int Delay, s/veh	1.2					
						0.55
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥		Դ			4
Traffic Vol, veh/h	5	6	49	8	5	35
Future Vol, veh/h	5	6	49	8	5	35
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	5	7	53	9	5	38
NA . ' (NA'	A'		4.1.4		4	
	Minor1		//ajor1		Major2	
Conflicting Flow All	106	58	0	0	62	0
Stage 1	58	-	-	-	-	-
Stage 2	48	-	-	-	-	-
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	892	1008	-	-	1541	-
Stage 1	965	-	-	-	-	-
Stage 2	974	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	889	1008	-	-	1541	-
Mov Cap-2 Maneuver	889	-	-	-	-	-
Stage 1	965	_	_	_	_	_
Stage 2	971	-	_	_	_	_
Olago Z	37 1					
Approach	WB		NB		SB	
HCM Control Delay, s	8.8		0		0.9	
HCM LOS	Α					
Minor Long/Major Mayor		NDT	NDDV	VDI1	SBL	CDT
Minor Lane/Major Mvm	l	NBT		VBLn1		SBT
Capacity (veh/h)		-	-	000	1541	-
HCM Lane V/C Ratio		-	-	0.013		-
HCM Control Delay (s)		-	-	8.8	7.3	0
HCM Lane LOS		-	-	Α	Α	Α
HCM 95th %tile Q(veh)		-	-	0	0	-

Intersection						
Int Delay, s/veh	2.1					
					255	0.5.5
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	¥			4	₽	
Traffic Vol, veh/h	19	6	5	49	36	10
Future Vol, veh/h	19	6	5	49	36	10
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage	e, # 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	21	7	5	53	39	11
	Minor2		Major1		Major2	
Conflicting Flow All	108	45	50	0	-	0
Stage 1	45	-	-	-	-	-
Stage 2	63	-	-	-	-	-
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	889	1025	1557	-	-	-
Stage 1	977	-	-	-	-	-
Stage 2	960	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	886	1025	1557	-	-	_
Mov Cap-2 Maneuver	886	-	-	_	_	_
Stage 1	974	-	_	_	_	_
Stage 2	960	_	_	_	_	_
Olugo Z	300					
Approach	EB		NB		SB	
HCM Control Delay, s	9.1		0.7		0	
HCM LOS	Α					
Minor Lang/Major Mys	\	NDI	NDT	EBLn1	SBT	SBR
Minor Lane/Major Mvm	IL	NBL				SDK
Capacity (veh/h)		1557	-	916	-	-
HCM Lane V/C Ratio		0.003	-	0.03	-	-
HCM Control Delay (s)		7.3	0	9.1	-	-
HCM Lane LOS		Α	Α	Α	-	-
HCM 95th %tile Q(veh)	0	-	0.1	-	-

Intersection						
Int Delay, s/veh	1.5					
					27	
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥		Դ			र्स
Traffic Vol, veh/h	6	4	24	9	2	24
Future Vol, veh/h	6	4	24	9	2	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	7	4	26	10	2	26
		-		10	_	
	Minor1		//ajor1		Major2	
Conflicting Flow All	61	31	0	0	36	0
Stage 1	31	-	-	-	-	-
Stage 2	30	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	_	-
Critical Hdwy Stg 2	5.42	_	-	-	-	-
Follow-up Hdwy	3.518	3.318	_	-	2.218	_
Pot Cap-1 Maneuver	945	1043	_	-	1575	_
Stage 1	992	-	_		1010	_
Stage 2	993	-	-			-
Platoon blocked, %	333	-	-	-	-	
	044	1042		-	1575	-
Mov Cap-1 Maneuver	944	1043	-	-	1575	-
Mov Cap-2 Maneuver	944	-	-	-	-	-
Stage 1	992	-	-	-	-	-
Stage 2	992	-	-	-	-	-
Approach	WB		NB		SB	
	8.7		0		0.6	
HCM Control Delay, s HCM LOS			U		0.0	
I IOWI LOS	Α					
Minor Lane/Major Mvm	nt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		-	_		1575	-
HCM Lane V/C Ratio		-		0.011		_
HCM Control Delay (s)				8.7	7.3	0
HCM Lane LOS			_	Α	7.5 A	A
HCM 95th %tile Q(veh	١		-	0	0	-
HOW SOUL WILLE CALABO)	-	-	U	U	-

Intersection						
Int Delay, s/veh	0					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	₩ I	אטוי	1\D1	HOR	ODL	<u> </u>
Traffic Vol, veh/h	0	0	25	0	0	25
Future Vol, veh/h	0	0	25	0	0	25
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	Stop -	None	riee -	None	-	None
Storage Length	0	INUITE	-	None -	-	INOHE -
		-			-	0
Veh in Median Storage		-	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	27	0	0	27
Major/Minor	Minor1	N	Major1		Major2	
Conflicting Flow All	54	27	0	0	27	0
Stage 1	27	-	-	U	۷1	-
•	27			-	-	
Stage 2		6 22	-	-	4.12	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy		3.318	-	-	2.218	-
Pot Cap-1 Maneuver	954	1048	-	-	1587	-
Stage 1	996	-	-	-	-	-
Stage 2	996	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	954	1048	-	-	1587	-
Mov Cap-2 Maneuver	954	-	-	-	-	-
Stage 1	996	-	-	-	-	-
Stage 2	996	-	-	-	-	-
J						
	\A/D		ND		0.0	
Approach	WB		NB		SB	
HCM Control Delay, s	0		0		0	
HCM LOS	Α					
Minor Lane/Major Mvm	nt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		-	-	-	1587	-
HCM Lane V/C Ratio					1301	
		-	-	-	-	-
HCM Control Delay (s)		-	-	0	0	-
HCM Lane LOS		-	-	Α	A	-
HCM 95th %tile Q(veh)	-	-	-	0	-

Intersection						
Int Delay, s/veh	1.5					
•		\\/DD	NET	NDD	05:	057
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥	_			_	<u>₹</u>
Traffic Vol, veh/h	3	5	22	2	3	25
Future Vol, veh/h	3	5	22	2	3	25
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage	e, # 0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	3	5	24	2	3	27
N. 4 (N. 4)	N 41					
	Minor1		Major1		Major2	
Conflicting Flow All	58	25	0	0	26	0
Stage 1	25	-	-	-	-	-
Stage 2	33	-	-	-	-	-
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	949	1051	-	-	1588	-
Stage 1	998	-	-	-	_	-
Stage 2	989	-	-	_	-	-
Platoon blocked, %	300		_	_		-
Mov Cap-1 Maneuver	947	1051		_	1588	-
Mov Cap-1 Maneuver	947	-	_		1000	
Stage 1	998	-	_	_	_	_
			-	-	-	-
Stage 2	987	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s	8.6		0		0.8	
HCM LOS	Α.				0.0	
110W EOO	Α					
Minor Lane/Major Mvm	nt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		-		1009	1588	-
HCM Lane V/C Ratio		-	-	0.009	0.002	-
HCM Control Delay (s)		-	-	8.6	7.3	0
HCM Lane LOS		-	-	Α	Α	Α
HCM 95th %tile Q(veh)	-	-	0	0	-
	,					

Intersection						
Int Delay, s/veh	1.9					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
	WDL	WDR		INDIX	ODL	
Lane Configurations		10	♣	G	1	€
Traffic Vol, veh/h	5	12	24	6	4	42
Future Vol, veh/h	5	12	24	6	4	42
Conflicting Peds, #/hr	0	0	0	0	_ 0	_ 0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage		-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	5	13	26	7	4	46
	Minor1		//ajor1		Major2	
Conflicting Flow All	84	30	0	0	33	0
Stage 1	30	-	-	-	-	-
Stage 2	54	-	-	-	-	-
Critical Hdwy	6.42	6.22	_	_	4.12	-
Critical Hdwy Stg 1	5.42	-	_	_	2	_
Critical Hdwy Stg 1	5.42					
Follow-up Hdwy	3.518	3.318	-	_	2.218	-
	918	1044	-	-		
Pot Cap-1 Maneuver		1044	-	-	1579	-
Stage 1	993	-	-	-	-	-
Stage 2	969	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	915	1044	-	-	1579	-
Mov Cap-2 Maneuver	915	-	-	-	-	-
Stage 1	993	-	-	-	-	-
Stage 2	966	-	-	-	-	-
	300					
	14/5		NE		0.5	
Approach	WB		NB		SB	
HCM Control Delay, s	8.7		0		0.6	
HCM LOS	Α					
Minantana (Maria Pa		NET	NDD	VDL 4	ODI	ODT
Minor Lane/Major Mvm	It	NBT		VBLn1	SBL	SBT
Capacity (veh/h)		-		1002	1579	-
HCM Lane V/C Ratio		-	-	0.018		-
HCM Control Delay (s)		-	-	8.7	7.3	0
HCM Lane LOS		-	-	Α	Α	Α
HCM 95th %tile Q(veh))	-	-	0.1	0	-
2000 2000	,					

Intersection						
Int Delay, s/veh	1					
	•	E65	NE	Not	057	000
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	¥			4	₽	
Traffic Vol, veh/h	6	2	5	25	44	21
Future Vol, veh/h	6	2	5	25	44	21
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage	e, # 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	7	2	5	27	48	23
manici low						20
Major/Minor	Minor2		Major1	N	Major2	
Conflicting Flow All	97	60	71	0	-	0
Stage 1	60	-	-	-	-	-
Stage 2	37	-	-	-	-	-
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	2 212			
Pot Cap-1 Maneuver	902	1005	1529	_	_	_
	963	1003	1323	-	-	-
Stage 1		-	-	-	-	-
Stage 2	985	-	-	-	-	-
Platoon blocked, %		400-	1=00	-	-	-
Mov Cap-1 Maneuver	899	1005	1529	-	-	-
Mov Cap-2 Maneuver	899	-	-	-	-	-
Stage 1	960	-	-	-	-	-
Stage 2	985	-	-	-	-	-
Annroach	ED		NID		CD	
Approach	EB		NB		SB	
HCM Control Delay, s	8.9		1.2		0	
HCM LOS	Α					
Minor Lane/Major Mvn	nt	NBL	NRT	EBLn1	SBT	SBR
	110				GDT	ומט
		1529	-		-	-
Capacity (veh/h)		0.004				-
HCM Lane V/C Ratio	\	0.004		0.009	-	
HCM Lane V/C Ratio HCM Control Delay (s)	7.4	0	8.9	-	-
HCM Lane V/C Ratio						

Intersection						
Int Delay, s/veh	1.3					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥		Դ			4
Traffic Vol, veh/h	6	2	20	4	0	22
Future Vol, veh/h	6	2	20	4	0	22
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage		-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	7	2	22	4	0	24
IVIVIIIL I IOVV	- 1		LL	4	U	24
Major/Minor	Minor1	<u> </u>	//ajor1		Major2	
Conflicting Flow All	48	24	0	0	26	0
Stage 1	24	-	-	_	-	-
Stage 2	24	-	-	-	-	-
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	962	1052	-	_	1588	-
•	999			•		
Stage 1		-	-	-	-	-
Stage 2	999	-	-	-	-	-
Platoon blocked, %		10-0	-	-	4=00	-
Mov Cap-1 Maneuver	962	1052	-	-	1588	-
Mov Cap-2 Maneuver	962	-	-	-	-	-
Stage 1	999	-	-	-	-	-
Stage 2	999	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s	8.7		0		0	
HCM LOS	Α		U		0	
I IOIVI LOO	A					
Minor Lane/Major Mvm	nt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		-	-	983	1588	-
HCM Lane V/C Ratio		-	-	0.009	-	-
HCM Control Delay (s)		_	-	8.7	0	-
HCM Lane LOS		-	-	A	A	-
HCM 95th %tile Q(veh	١	_		0	0	_
How som wille Q(ven	1	_	_	U	U	

Intersection													
Int Delay, s/veh	0.7												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		4	LDIX	1100	4	WDIX	HDL	4	HOIL	ODL	4	ODIT	
Traffic Vol. veh/h	1	0	2	0	0	0	1	21	0	0	21	1	
Future Vol, veh/h	1	0	2	0	0	0	1	21	0	0	21	1	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free	
RT Channelized	-	- -	None	- -	- -	None	-	-	None	-	-	None	
Storage Length	_	_	-	_	_	-	_	_	-	_	_	-	
Veh in Median Storage	e.# -	0	-	-	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	
Mymt Flow	1	0	2	0	0	0	1	23	0	0	23	1	
Major/Mina-	N 4: C			Minara			\1=i==4			Maisio			
-)	Minor2			Minor1			Major1			Major2			
Conflicting Flow All	49	49	24	50	49	23	24	0	0	23	0	0	
Stage 1	24	24	-	25	25	-	-	-	-	-	-	-	
Stage 2	25	25	-	25	24	-	-	-	-	-	-	-	
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-	
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-	
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-		-	-	
Follow-up Hdwy	3.518			3.518	4.018	3.318	2.218	-	-	2.218	-	-	
Pot Cap-1 Maneuver	951	843	1052	950	843	1054	1591	-	-	1592	-	-	
Stage 1	994	875	-	993	874	-	-	-	-	-	-	-	
Stage 2	993	874	-	993	875	-	-	-	-	-	-	-	
Platoon blocked, %								-	-		-	-	
Mov Cap-1 Maneuver	950	842	1052	947	842	1054	1591	-	-	1592	-	-	
Mov Cap-2 Maneuver	950	842	-	947	842	-	-	-	-	-	-	-	
Stage 1	993	875	-	992	873	-	-	-	-	-	-	-	
Stage 2	992	873	-	991	875	-	-	-	-	-	-	-	
Approach	EB			WB			NB			SB			
HCM Control Delay, s	8.6			0			0.3			0			
HCM LOS	Α			Α									
Minor Lane/Major Mvn	nt	NBL	NBT	NRR	EBLn1\	NBI n1	SBL	SBT	SBR				
Capacity (veh/h)		1591	וטוי	TIDIT	1016	-	1592	CDT	אשט				
HCM Lane V/C Ratio		0.001	-	_	0.003	-	1092	-	-				
HCM Control Delay (s)	\	7.3	0	-	8.6	0	0	-	_				
HCM Lane LOS		7.3 A	A	-	0.0 A	A	A		- -				
HCM 95th %tile Q(veh	1	0		-	0 0	- A	0	-	-				
HOW SOUL WILLE CLANE)	U	-	-	U	-	U	-	-				

Intersection						
Int Delay, s/veh	0.7					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥		Դ			4
Traffic Vol, veh/h	1	1	22	3	2	18
Future Vol, veh/h	1	1	22	3	2	18
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage		-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	1	1	24	3	2	20
IVIVIIIL I IOW		I	24	J		20
Major/Minor	Minor1	N	//ajor1		Major2	
Conflicting Flow All	50	26	0	0	27	0
Stage 1	26	-	-	-	-	-
Stage 2	24	-	-	-	-	-
Critical Hdwy	6.42	6.22	_	_	4.12	_
Critical Hdwy Stg 1	5.42	- 0.22	_	_	7.12	_
Critical Hdwy Stg 2	5.42	-	-	_	-	-
Follow-up Hdwy	3.518	3.318	-		2.218	-
Pot Cap-1 Maneuver		1050		-	1587	
	959		-	-	1007	-
Stage 1	997	-	-	-	-	-
Stage 2	999	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	958	1050	-	-	1587	-
Mov Cap-2 Maneuver	958	-	-	-	-	-
Stage 1	997	-	-	-	-	-
Stage 2	998	-	-	-	-	-
Approach	WB		NB		SB	
	8.6				0.7	
HCM Control Delay, s			0		0.7	
HCM LOS	Α					
Minor Lane/Major Mvn	nt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		-	-	1002	1587	
HCM Lane V/C Ratio		-		0.002		-
HCM Control Delay (s)	\	_	_	8.6	7.3	0
HCM Lane LOS				0.0 A	7.3 A	A
		-	-			
HCM 95th %tile Q(veh)	-	-	0	0	-

Intersection						
Int Delay, s/veh	0.9					
		MDD	NDT	NDD	ODi	ODT
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥	,		-	_	<u>ન</u>
Traffic Vol, veh/h	3	4	44	5	3	29
Future Vol, veh/h	3	4	44	5	3	29
Conflicting Peds, #/hr	0	0	_ 0	_ 0	_ 0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage		-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	3	4	48	5	3	32
N.A ' . /N.A.	M		4.1.4		11.	
	Minor1		Major1		Major2	
Conflicting Flow All	89	51	0	0	53	0
Stage 1	51	-	-	-	-	-
Stage 2	38	-	-	-	-	-
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	912	1017	-	-	1553	-
Stage 1	971	-	-	-	-	-
Stage 2	984	-	-	_	-	-
Platoon blocked, %	301		_	_		-
Mov Cap-1 Maneuver	910	1017			1553	-
Mov Cap-1 Maneuver	910	-	_	_	1000	
Stage 1	971	-	_	_	-	-
	982		-	-		•
Stage 2	902	-		-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s	8.7		0		0.7	
HCM LOS	Α				J.1	
TIOWI LOO	Λ.					
Minor Lane/Major Mvn	nt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		-	-	968	1553	-
HCM Lane V/C Ratio		-	-	0.008	0.002	-
HCM Control Delay (s)	-	-		7.3	0
HCM Lane LOS		-	-	Α	A	A
HCM 95th %tile Q(veh	1)	-	_	0	0	-
	/					

Intersection						
Int Delay, s/veh	1.9					
	EBL	EDD	NDI	NDT	SBT	SBR
Movement	FBL EBL	EBR	NBL	NBT		SBK
Lane Configurations		1	2	€	∱	٥
Traffic Vol, veh/h	16	4	3	44	30	9
Future Vol, veh/h	16	4	3	44	30	9
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	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	17	4	3	48	33	10
N.A /N.A.	M		M		1	
	Minor2		Major1		//ajor2	
Conflicting Flow All	92	38	43	0	-	0
Stage 1	38	-	-	-	-	-
Stage 2	54	-	-	-	-	-
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	908	1034	1566	_	_	-
Stage 1	984	-	-	_	-	-
Stage 2	969	-	-	-	_	-
Platoon blocked, %	303			_	_	_
Mov Cap-1 Maneuver	906	1034	1566			_
	906	1034	1300	_	-	-
Mov Cap-2 Maneuver				-	-	-
Stage 1	982	-	-	-	-	-
Stage 2	969	-	-	-	-	-
Approach	EB		NB		SB	
HCM Control Delay, s	9		0.5		0	
HCM LOS	A		0.0		0	
I IOW LOO						
Minor Lane/Major Mvr	nt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)		1566	-	929	-	_
HCM Lane V/C Ratio		0.002	-	0.023	-	-
HCM Control Delay (s)	7.3	0	9	_	_
HCM Lane LOS	,	Α	A	A	-	-
HCM 95th %tile Q(veh	1)	0	-	0.1	-	-
TOWN JOHN JUHIC W(VEI	'/	U		0.1		

Intersection						
Int Delay, s/veh	1.5					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥		Դ			4
Traffic Vol, veh/h	5	3	19	8	2	18
Future Vol, veh/h	5	3	19	8	2	18
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage		-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	5	3	21	9	2	20
WINITE I IOW	- 3	- 0	LI	J		20
Major/Minor	Minor1	<u> </u>	//ajor1		Major2	
Conflicting Flow All	50	26	0	0	30	0
Stage 1	26	-	-	-	-	-
Stage 2	24	-	-	-	-	-
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	959	1050	-	_	1583	-
Stage 1	997	1030	-		1000	-
	997	-		-	-	
Stage 2	999	-	-	-	-	-
Platoon blocked, %	0.50	4050	-	-	4500	-
Mov Cap-1 Maneuver	958	1050	-	-	1583	-
Mov Cap-2 Maneuver	958	-	-	-	-	-
Stage 1	997	-	-	-	-	-
Stage 2	998	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s	8.7		0		0.7	
HCM LOS	Α		J		0.1	
TIOWI LOG	٨					
Minor Lane/Major Mvn	nt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		-	-	991	1583	-
HCM Lane V/C Ratio		-	-			-
HCM Control Delay (s)		-	-	8.7	7.3	0
HCM Lane LOS		-	-	A	A	A
HCM 95th %tile Q(veh)	_	_	0	0	-
HOW JOHN JOHN Q(VEI)	1			U	J	

Intersection													
Int Delay, s/veh	0.7												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	LDL		LDR	WDL		WDR	NDL		NON	ODL		אמט	
Traffic Vol, veh/h	1	♣	1	Λ	4	Λ	2	↔ 18	٥	٥	4 >	1	
•	-	0	1	0	0	0			0	0		1	
Future Vol, veh/h	1	0	1	0	0	0	2	18	0	0	19	1	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free	
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None	
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-	
Veh in Median Storage	9,# -	0	-	-	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	1	0	1	0	0	0	2	20	0	0	21	1	
Major/Minor	Minor2			Minor1			Major1			Major2			
Conflicting Flow All	46	46	22	46	46	20	22	0	0	20	0	0	
Stage 1	22	22		24	24	-	-	-	-	-	-	-	
Stage 2	24	24	-	22	22	-	_	-	_	_	-	_	
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	_	_	4.12	_	-	
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-		-	_		-	_	
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	_	_	-	_	-	_	-	
Follow-up Hdwy	3.518	4.018		3.518	4.018	3.318	2.218	-	-	2.218	-	_	
Pot Cap-1 Maneuver	955	846	1055	955	846	1058	1593	-	_	1596	_	-	
Stage 1	996	877	-	994	875		-	_	_		_	_	
Stage 2	994	875	_	996	877	_	_	_	_	_	_	_	
Platoon blocked, %	- 00-f	510		000	- J11			_	_		_	_	
Mov Cap-1 Maneuver	954	845	1055	953	845	1058	1593	_	_	1596	_	_	
Mov Cap-2 Maneuver	954	845	-	953	845	1000	-	_	_	-	_	_	
Stage 1	995	877	_	993	874				_	_	_	_	
Stage 2	993	874	_	995	877	_	_	_	_	_	_	_	
Olaye Z	333	J/ 1	_	333	011	_							
Approach	EB			WB			NB			SB			
HCM Control Delay, s	8.6			0			0.7			0			
HCM LOS	Α			Α									
Minor Lane/Major Mvm	nt	NBL	NBT	NBR	EBLn1\	VBLn1	SBL	SBT	SBR				
Capacity (veh/h)		1593			1002	-	1596	-	-				
HCM Lane V/C Ratio		0.001	-	_	0.002	-	1000	_	_				
HCM Control Delay (s)		7.3	0	_	8.6	0	0	-					
HCM Lane LOS		7.3 A	A	-	0.0 A	A	A	-	-				
HCM 95th %tile Q(veh	١	0	- -	-	0	- -	0	-					
HOW SOUT WILL WINE	1	U	-	-	U		U	-	-				

Intersection						
Int Delay, s/veh	1.3					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥		f)			4
Traffic Vol, veh/h	2	3	17	1	2	19
Future Vol, veh/h	2	3	17	1	2	19
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
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	2	3	18	1	2	21
WINITE IOW		- 0	10			Z 1
Major/Minor	Minor1	<u> </u>	//ajor1		Major2	
Conflicting Flow All	44	19	0	0	19	0
Stage 1	19	-	-	-	-	-
Stage 2	25	-	-	-	-	-
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	967	1059	-	_	1597	-
Stage 1	1004	1009	-		1001	-
	998	-		-	-	
Stage 2	998	-	-	-	-	-
Platoon blocked, %	000	1050	-	-	4507	-
Mov Cap-1 Maneuver	966	1059	-	-	1597	-
Mov Cap-2 Maneuver	966	-	-	-	-	-
Stage 1	1004	-	-	-	-	-
Stage 2	997	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s	8.5		0		0.7	
HCM LOS	0.5 A		- 0		J.1	
TIOWI LOO	٨					
Minor Lane/Major Mvn	nt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		-	-	1020	1597	-
HCM Lane V/C Ratio		-	-	0.005		-
HCM Control Delay (s))	-	-	8.5	7.3	0
HCM Lane LOS		-	-	Α	Α	A
HCM 95th %tile Q(veh)	_	_	0	0	-
TOW JOHN JOHN Q(VEI)	1			U	J	

Intersection						
Int Delay, s/veh	2.2					
		WED	NET	NDD	051	057
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	Y		- ↑			4
Traffic Vol, veh/h	8	18	31	10	6	52
Future Vol, veh/h	8	18	31	10	6	52
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage	e, # 0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	9	20	34	11	7	57
	.					
	Minor1		/lajor1		Major2	
Conflicting Flow All	111	40	0	0	45	0
Stage 1	40	-	-	-	-	-
Stage 2	71	-	-	-	-	-
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	886	1031	-	-	1563	-
Stage 1	982	-	-	-	-	-
Stage 2	952	-	-	-	-	-
Platoon blocked, %	302		_	_		-
Mov Cap-1 Maneuver	882	1031	_	_	1563	_
Mov Cap-1 Maneuver	882	- 1001	_	_	1000	
Stage 1	982					
Stage 2	962	-	_	_	-	-
Slaye 2	341	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s	8.8		0		0.8	
HCM LOS	Α					
N. 1 (0.4.1. 1.4.1.		NET	NES	VDL 4	051	057
Minor Lane/Major Mvn	nt	NBT	NBKV	VBLn1	SBL	SBT
Capacity (veh/h)		-	-		1563	-
HCM Lane V/C Ratio		-	-	0.029	0.004	-
HCM Control Delay (s		-	-	8.8	7.3	0
HCM Lane LOS		-	-	Α	Α	Α
HCM 95th %tile Q(veh		-	-	0.1	0	-

Intersection						
Int Delay, s/veh	1.1					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	¥			ની	₽	
Traffic Vol, veh/h	7	3	8	33	55	26
Future Vol, veh/h	7	3	8	33	55	26
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage	e, # 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	8	3	9	36	60	28
				- 00	- 00	20
Major/Minor	Minor2		Major1	N	/lajor2	
Conflicting Flow All	128	74	88	0	-	0
Stage 1	74	-	-	-	-	-
Stage 2	54	-	-	-	-	-
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	988	1508	_	_	_
Stage 1	949	-		_	_	_
Stage 2	969			_		_
Platoon blocked, %	303		_	-	-	_
-	961	988	1500		-	
Mov Cap-1 Maneuver	861		1508	-	-	-
Mov Cap-2 Maneuver	861	-	-	-	-	-
Stage 1	943	-	-	-	-	-
Stage 2	969	-	-	-	-	-
Approach	EB		NB		SB	
HCM Control Delay, s	9.1		1.4		0	
HCM LOS	Α		111			
1 JOINI LOO	Λ.					
Minor Lane/Major Mvn	nt	NBL	NBT I	EBLn1	SBT	SBR
Capacity (veh/h)		1508	-	896	-	-
HCM Lane V/C Ratio		0.006	-	0.012	-	-
HCM Control Delay (s)		7.4	0	9.1	-	-
HCM Lane LOS		Α	A	Α	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-
TOW JOHN JUNE Q(VEI)	1	U		U		

Intersection						
Int Delay, s/veh	1					
		WED	NDT	NDD	ODI	CDT
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	M	_	♣	-	^	€
Traffic Vol, veh/h	6	2	29	5	0	32
Future Vol, veh/h	6	2	29	5	0	32
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
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	7	2	32	5	0	35
Major/Minor	Minari		laier1		Majora	
	Minor1		//ajor1		Major2	
Conflicting Flow All	70	35	0	0	37	0
Stage 1	35	-	-	-	-	-
Stage 2	35	-	-	-	-	-
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	934	1038	-	-	1574	-
Stage 1	987	-	_	-	-	-
Stage 2	987	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	934	1038	-	-	1574	-
Mov Cap-2 Maneuver	934	-	-	-	-	-
Stage 1	987	-	-	-	-	-
Stage 2	987	-	-	-	-	-
Approach	WB		NB		SB	
Approach						
HCM Control Delay, s	8.8		0		0	
HCM LOS	Α					
Minor Lane/Major Mvm	nt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		-	-		1574	-
HCM Lane V/C Ratio		-		0.009	1074	-
HCM Control Delay (s)		-	-	8.8	0	-
HCM Lane LOS						
	١	-	-	A	A	-
HCM 95th %tile Q(veh)	-	-	0	0	-

Int Delay, s/veh
Movement EBL EBT EBR WBL WBT WBR NBL NBT NBR SBL SBT SBR
Traffic Vol, veh/h
Traffic Vol, veh/h
Future Vol, veh/h
Conflicting Peds, #/hr
Sign Control Stop Stop Stop Stop Stop Stop Free
RT Channelized - - None - - None - None Storage Length -
Storage Length - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - - - - - - - - - - - - -
Weh in Median Storage, # - 0 - 0 - - 0 - - 0 - - 0 - - 0 - 0 - - 0 0 0 0
Grade, % - 0 - - 0 35 0 0 35 0 0 35 0 0 33 0 <t< td=""></t<>
Peak Hour Factor 92
Major/Minor Minor2 Minor1 Major1 Major2 Major/Minor Minor2 Minor1 Major1 Major2 Major/Minor Major2 Minor1 Major3 Major4 Major5 Major5 Major5 Major5 Major6 Major7 Major6 Major6 Major6 Major6 Major6 Major6 Major7 Major6 Major6 Major6 Major6 Major6 Major6 Major7 Major6 Majo
Mvmt Flow 1 0 2 0 0 1 33 0 0 35 0 Major/Minor Minor2 Minor1 Major1 Major2 Conflicting Flow All 70 70 35 71 70 33 35 0 0 33 0 0 Stage 1 35 35 - 35 35 -
Major/Minor Minor2 Minor1 Major1 Major2 Conflicting Flow All 70 70 35 71 70 33 35 0 0 33 0 0 Stage 1 35 35 - 35 35 - <td< td=""></td<>
Conflicting Flow All 70 70 35 71 70 33 35 0 0 33 0 0 Stage 1 35 35 35 - 35 35 -
Conflicting Flow All 70 70 35 71 70 33 35 0 0 33 0 0 Stage 1 35 35 - 35 35 -
Conflicting Flow All 70 70 35 71 70 33 35 0 0 33 0 0 Stage 1 35 35 - 35 35 -
Stage 1 35 35 - 35 35 - <th< td=""></th<>
Stage 2 35 35 - 36 35 - <th< td=""></th<>
Critical Hdwy 7.12 6.52 6.22 7.12 6.52 6.22 7.12 6.52 6.22 7.12 6.52 6.22 4.12 - 4.12 -
Critical Hdwy Stg 1 6.12 5.52 - 6.12 5.52 -
Critical Hdwy Stg 2 6.12 5.52 - 6.12 5.52 -
Follow-up Hdwy 3.518 4.018 3.318 3.518 4.018 3.318 2.218 2.218 Pot Cap-1 Maneuver 922 821 1038 920 821 1041 1576 1579 Stage 1 981 866 - 981 866 Stage 2 981 866 - 980 866
Pot Cap-1 Maneuver 922 821 1038 920 821 1041 1576 - - 1579 - - Stage 1 981 866 - 981 866 -
Stage 1 981 866 - 981 866 -
Stage 2 981 866 - 980 866 -
Platoon blocked, %
Mov Cap-1 Maneuver 921 820 1038 917 820 1041 1576 - - 1579 - - Mov Cap-2 Maneuver 921 820 - 917 820 -
Mov Cap-2 Maneuver 921 820 - 917 820 Stage 1 980 866 - 980 865
Stage 1 980 866 - 980 865
V
Staye 2 900 000 - 970 000
Approach EB WB NB SB
HCM Control Delay, s 8.6 0 0.2 0
HCM LOS A A
Minor Lane/Major Mvmt NBL NBT NBR EBLn1WBLn1 SBL SBT SBR
Capacity (veh/h) 1576 996 - 1579
HCM Lane V/C Ratio 0.001 0.003
HCM Control Delay (s) 7.3 0 - 8.6 0 0
HCM Lane LOS A A - A A A

Intersection						
Int Delay, s/veh	0.8					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥		Դ			4
Traffic Vol, veh/h	2	2	31	5	3	27
Future Vol, veh/h	2	2	31	5	3	27
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage		-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
	2	2	34			29
Mvmt Flow	2	2	34	5	3	29
Major/Minor	Minor1	N	//ajor1		Major2	
Conflicting Flow All	72	37	0	0	39	0
Stage 1	37	-	-	-	-	-
Stage 2	35	-		-	-	
•			-		4.12	-
Critical Hdwy	6.42	6.22	-	-		-
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	932	1035	-	-	1571	-
Stage 1	985	-	-	-	-	-
Stage 2	987	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	930	1035	-	-	1571	-
Mov Cap-2 Maneuver	930	-	_	_	-	-
Stage 1	985	-	_		-	-
Stage 2	985	-	_		_	_
Staye 2	300	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s	8.7		0		0.7	
HCM LOS	Α					
J = 0 0	, ,					
Minor Lane/Major Mvn	nt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		-	-	980	1571	-
HCM Lane V/C Ratio		-	-	0.004	0.002	-
HCM Control Delay (s))	-	-	8.7	7.3	0
HCM Lane LOS		-	-	Α	Α	Α
HCM 95th %tile Q(veh)	_	-	0	0	-
Sin ootii 70tiio Q(VCII	7			J	U	

Intersection						
Int Delay, s/veh	1.2					
		14/55	NET	NES	05:	057
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥		Դ			4
Traffic Vol, veh/h	5	6	51	8	5	37
Future Vol, veh/h	5	6	51	8	5	37
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage	e, # 0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	5	7	55	9	5	40
	Minor1		//ajor1		Major2	
Conflicting Flow All	110	60	0	0	64	0
Stage 1	60	-	-	-	-	-
Stage 2	50	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	_	-	-
Follow-up Hdwy		3.318	_	_	2.218	_
Pot Cap-1 Maneuver	887	1005			1538	_
Stage 1	963	1000	_		1000	
Stage 2	972	-	_	-	_	-
	312	-	-	-	-	•
Platoon blocked, %	004	1005	-	-	4500	-
Mov Cap-1 Maneuver	884	1005	-	-	1538	-
Mov Cap-2 Maneuver	884	-	-	-	-	-
Stage 1	963	-	-	-	-	-
Stage 2	969	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s	8.9		0		0.9	
HCM LOS	0.9 A		U		0.9	
I IOIVI LOG	А					
Minor Lane/Major Mvr	nt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		_	-	946	1538	-
HCM Lane V/C Ratio		-	_			-
HCM Control Delay (s)	_	-	8.9	7.3	0
HCM Lane LOS		-	_	A	Α	Ā
HCM 95th %tile Q(veh	1)	_	_	0	0	-
	7	-	-	U	U	_

Intersection						
Int Delay, s/veh	2.1					
		EDD	NDI	NDT	CDT	CDD
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	\	_	-	- €	<u>}</u>	40
Traffic Vol, veh/h	19	6	5	51	37	10
Future Vol, veh/h	19	6	5	51	37	10
Conflicting Peds, #/hr	0	0	_ 0	_ 0	_ 0	_ 0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	
Storage Length	0	-	-	-	-	-
Veh in Median Storage		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	21	7	5	55	40	11
Major/Miner	Minaro		Mais =1		Ania-O	
	Minor2		Major1		Major2	
Conflicting Flow All	111	46	51	0	-	0
Stage 1	46	-	-	-	-	-
Stage 2	65	-	-	-	-	-
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		-	-	-
Pot Cap-1 Maneuver	886	1023	1555	-	-	-
Stage 1	976	-	-	-	-	-
Stage 2	958	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	883	1023	1555	-	-	-
Mov Cap-2 Maneuver	883	-		-	-	-
Stage 1	973					
Stage 2	958	_	_	_	_	_
Olaye Z	330			_		
Approach	EB		NB		SB	
HCM Control Delay, s	9.1		0.7		0	
HCM LOS	Α					
Min and an infinite at	-1	NDI	NDT	EDL 4	ODT	ODD
Minor Lane/Major Mvn	ΙŢ	NBL		EBLn1	SBT	SBR
Capacity (veh/h)		1555	-		-	-
HCM Lane V/C Ratio		0.003	-	0.03	-	-
HCM Control Delay (s)		7.3	0	9.1	-	-
HCM Lane LOS		Α	Α	Α	-	-
HCM 95th %tile Q(veh)	0	-	0.1	-	-

Intersection						
Int Delay, s/veh	1.4					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥		f)			ની
Traffic Vol, veh/h	6	4	26	9	2	25
Future Vol, veh/h	6	4	26	9	2	25
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage	e, # 0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	7	4	28	10	2	27
WWW.		7	20	10		LI
Major/Minor	Minor1	N	//ajor1		Major2	
Conflicting Flow All	64	33	0	0	38	0
Stage 1	33	-	-	-	-	-
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	942	1041	_		1572	-
Stage 1	989	-	_		1012	_
	992	-		-	-	
Stage 2	992	-	-	-	-	-
Platoon blocked, %	044	1011	-	-	4570	-
Mov Cap-1 Maneuver	941	1041	-	-	1572	-
Mov Cap-2 Maneuver	941	-	-	-	-	-
Stage 1	989	-	-	-	-	-
Stage 2	991	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s	8.7		0		0.5	
HCM LOS	Α		- 0		0.0	
TIOWI LOG						
Minor Lane/Major Mvm	nt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		-	-	979	1572	-
HCM Lane V/C Ratio		-	-	0.011		-
HCM Control Delay (s)		-	_	8.7	7.3	0
HCM Lane LOS		-	-	A	A	A
HCM 95th %tile Q(veh)	-	_	0	0	-
)	_	_	U	U	_

Intersection												
Int Delay, s/veh	0.6											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	LDL	4	LDIX	WDL		WDIX	NDL	4	ווטוז	ODL	- ♣	JUIN
Traffic Vol, veh/h	1		1	٥	- ♣	0	2	25	0	٥	26	1
•	1 1	0	1	0	0	0	2	25	0	0	26	1
Future Vol, veh/h		0	1	0	0	0			0	0		1
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage	9,# -	0	-	-	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	1	0	1	0	0	0	2	27	0	0	28	1
Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	60	60	29	60	60	27	29	0	0	27	0	0
Stage 1	29	29	-	31	31	-	29	-	-	-	-	-
Stage 2	31	31	_	29	29		-	-		_	-	_
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	_	_	4.12	-	
	6.12	5.52		6.12	5.52	U.ZZ	4.12	-	•	4.12		
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2			2 240			2 240	2 240	-	-	2 240	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-
Pot Cap-1 Maneuver	936	831	1046	936	831	1048	1584	-	-	1587	-	-
Stage 1	988	871	-	986	869	-	-	-	-	-	-	-
Stage 2	986	869	-	988	871	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	935	830	1046	934	830	1048	1584	-	-	1587	-	-
Mov Cap-2 Maneuver	935	830	-	934	830	-	-	-	-	-	-	-
Stage 1	987	871	-	985	868	-	-	-	-	-	-	-
Stage 2	985	868	-	987	871	-	-	-	-	-	-	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	8.7			0			0.5			0		
HCM LOS	Α			A			3.0					
				,\								
Minor Lane/Major Mvn	nt	NBL	NBT	NRD	EBLn1\	WRI n1	SBL	SBT	SBR			
	110			NDI				ODT	אםט			
Capacity (veh/h)		1584	-	-	987	-	1587	-	-			
HCM Carter Delay (a)		0.001	-	-	0.002	_	-	-	-			
HCM Control Delay (s))	7.3	0	-	8.7	0	0	-	-			
HCM Lane LOS	,	A	Α	-	A	Α	A	-	-			
HCM 95th %tile Q(veh	1)	0	-	-	0	-	0	-	-			

Intersection						
Int Delay, s/veh	1.5					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥		î,			Ą
Traffic Vol, veh/h	3	5	23	2	3	26
Future Vol, veh/h	3	5	23	2	3	26
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
Grade, %	0	_	0	_	_	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
	3	5	25			28
Mvmt Flow	3	5	25	2	3	28
Major/Minor	Minor1	N	//ajor1		Major2	
Conflicting Flow All	60	26	0	0	27	0
Stage 1	26	-	-	-	-	-
Stage 2	34	-		-	-	
•		6.22	-		4.12	-
Critical Hdwy	6.42		-	-		-
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	947	1050	-	-	1587	-
Stage 1	997	-	-	-	-	-
Stage 2	988	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	945	1050	-	-	1587	-
Mov Cap-2 Maneuver	945	-	-	-	-	-
Stage 1	997	-	-	-	-	-
Stage 2	986	-	_	_	-	_
Olugo Z	300					
Approach	WB		NB		SB	
HCM Control Delay, s	8.6		0		0.8	
HCM LOS	Α					
Minor Lane/Major Mvn	nt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		-	-	1008	1587	-
HCM Lane V/C Ratio		-	-	0.009	0.002	-
HCM Control Delay (s))	-	-	8.6	7.3	0
HCM Lane LOS		-	-	Α	Α	Α
HCM 95th %tile Q(veh)	_	-	0	0	-
Sin ootii 70tiio Q(VCII	1			J	0	