TRAFFIC IMPACT STUDY

For

Jernee Mill Industrial **Proposed Cold Storage Facility**

Property Located at:

562 Jernee Mill Road (CR 675) Block 58 - Lots 2.01 & 9 Borough of Sayreville, Middlesex County, NJ



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3184 22-03157



INTRODUCTION

It is proposed to construct two cold storage facilities on a parcel of land that was previously developed with a solid waste disposal facility and is currently developed with a truck parking facility, located along the southbound side of Jernee Mill Road (CR 675) in Sayreville Borough, Middlesex County, New Jersey (see Figure 1 in Appendix A). The site is designated as Block 58 – Lots 2.01 & 9 on the Borough of Sayreville Tax Maps. It is proposed to construct two freezer space buildings totaling 357,378 SF, with one building containing 257,858 SF and one building containing 99,520 SF. ("The Project"). The site is located within the Eco-Industrial Redevelopment Area (RA-EI). Access to the site is currently provided via one full movement driveway along Jernee Mill Road (CR 675) south of Red Oak Lane. It is proposed to close the existing access point and provide access to the site via one ingress-only driveway along Jernee Mill Road (CR 675) along the northern portion of the site, one egress-only driveway along the southern portion of the site, and one full-movement driveway located directly opposite Red Oak Lane which will provide access for passenger vehicles only.

Dynamic Traffic LLC has been retained to prepare this study to assess the traffic impact associated with the construction of The Project on the adjacent roadway network. This study documents the methodology, analyses, findings and conclusions of our study and includes:

- A detailed field inspection was conducted to obtain an inventory of existing roadway geometry, traffic control, and location and geometry of existing driveways and intersections.
- Existing traffic data was collected via turning movement counts (TMC) during the weekday morning and afternoon peak periods at the intersections of Jernee Mill Road (CR 675) & Red Oak Lane.
- Projections of traffic to be generated by the proposed development were prepared utilizing trip generation data as published by the Institute of Transportation Engineers. Site traffic was then assigned to the adjacent street system based upon the anticipated directional distribution.
- Capacity analyses were conducted for the Existing, No Build, and Build conditions for the study intersections.
- The proposed points of ingress and egress were inspected for adequacy of geometric design, spacing and/or alignment to streets and driveways on the opposite side of the street, relationship to other driveways adjacent to the development, and conformance with accepted design standards.
- The site plan as designed was reviewed for sufficiency in accommodating large wheel base vehicles such as delivery trucks, refuse trucks, and emergency vehicles.
- The parking layout and supply was assessed based on accepted design standards, local requirements, and demand experienced at similar developments.



EXISTING CONDITIONS

A review of the existing roadway conditions near the proposed site was conducted to provide the basis for assessing the traffic impact of the development. This included field investigations of the surrounding roadways and intersections, collection of traffic volume data, and extensive analyses.

Existing Roadway Conditions

The following are descriptions of the roadways in the study area:

<u>Jernee Mill Road (CR 675)</u> is an Urban Major Collector roadway under County jurisdiction with a general north/south orientation. In the vicinity of the site the posted speed limit is 45 MPH and the roadway provides one travel lane in each direction. Curb and sidewalk are not provided along either side of the roadway. Jernee Mill Road (CR 675) provides a winding horizontal alignment along the site frontage and a slight downgrade from north to south. The land uses along Jernee Mill Road (CR 675) in the vicinity of The Project are primarily industrial.

<u>Red Oak Lane</u> is a private roadway with a general east/west orientation. In the vicinity of the site the speed limit is not posted (25 MPH assumed) and the roadway provides one travel lane in each direction. Curb is provided along both sides of the roadway, while sidewalk is not provided along either side of the roadway. Red Oak Lane provides a straight horizontal alignment in the vicinity of the intersection with Jernee Mill Road (CR 675) and a slight downgrade from east to west. Red Oak Lane provides access to the Red Oak Power Station.

Existing Traffic Volumes

Manual turning movement (MTM) counts were conducted by our office on Thursday, June 20, 2024 from 7:00 AM to 9:00 AM and from 4:30 PM to 6:30 PM at the intersection of Jernee Mill Road (CR 675) & Red Oak Lane.

Review of the collected traffic data reveals that the weekday morning peak street hour (PSH) occurs between 7:45 AM - 8:45 AM and the weekday evening PSH occurs between 5:00 PM - 6:00 PM. Figure 2, located in Appendix A, shows the existing peak hour traffic volumes at the study intersections. All traffic counts are contained in Appendix B.

Existing Capacity Analysis

The methodology utilized in the capacity analyses is described in the *Highway Capacity Manual*, published by the Transportation Research Board. In general, the term Level of Service (LOS) is used to provide a "qualitative" evaluation of capacity based upon certain "quantitative" calculations related to empirical values, such as traffic volume and intersection control.

An unsignalized (STOP sign controlled) driveway or side street along a through route is seldom critical from an overall capacity standpoint, however, it may be of great significance to the capacity of the minor cross-route, and it may influence the quality of traffic flow on both. When analyzing an unsignalized intersection, it is assumed that both the major street through and right turn movements are unimpeded and have the right-of-way over all side street traffic and left turns from the major street. All other turning movements in the intersection cross, merge with, or are otherwise impeded by major street movements. Traffic delays at unsignalized intersections are determined by sequentially





processing these impeded movements. Table 1 describes the level of service ranges for unsignalized (stop controlled) intersections.

Leve for Uns	Table 1 I of Service Criteria ignalized Intersections
Level of	Average Control Delay
Service	(seconds per vehicle)
a	0.0 to 10.0
b	10.1 to 15.0
С	15.1 to 25.0
d	25.1 to 35.0
e	35.1 to 50.0
f	greater than 50.0

It should be noted that the analyses within the Highway Capacity Manual assume a random arrival for all the movements, which may not be the case if an adjacent traffic signal is present that platoons vehicles.

All capacity analyses were performed utilizing Synchro 11 software. It should be noted that the existing percentage of trucks and peak hour factors were used in the existing analysis. Table 2 summarizes the existing levels of service (LOS) and delays. All capacity analysis calculation worksheets are contained in Appendix C.

Existing]	Levels	of Serv	ice	
Intersection	Direc Move	ction/ ement	AM PSH	PM PSH
Jernee Mill Road (CR 675)	WB	LR	b (12)	a (10)
& Red Oak Lane	SB	L	a (8)	a (8)

Table 2

a (#) - Unsignalized Intersection Level of Service (seconds of delay per vehicle)

The following are discussions pertaining to each of the existing intersections analyzed.

Jernee Mill Road (CR 675) & Red Oak Lane

Red Oak Lane intersects Jernee Mill Road (CR 675) to form a T-intersection with the westbound approach of Red Oak Lane operating under stop control. The northbound approach of Jernee Mill Road (CR 675) provides a shared through/right turn lane, while the southbound approach provides a shared left turn/through lane. The westbound approach of Red Oak Lane provides a shared left turn/right turn lane.

A review of the existing analysis reveals that all movements operate at levels of service "B" or better during the analyzed peak periods. See Table 2 for the individual movement levels of service and delays.



FUTURE CONDITIONS

Traffic volumes and operational analyses were developed for both the 2026 No Build and Build conditions. The No Build conditions provide a baseline for assessing the impact of the site development traffic on the roadway system. The process of developing the No Build and Build traffic volumes and the subsequent analyses is outlined below.

Regardless of whether the subject site is developed or not, traffic volumes on the surrounding roadways are expected to increase as a result of developments throughout the region. A growth rate for roadways within the study area was obtained from the NJDOT Annual Background Growth Rate Table, which indicates a growth rate of 1.0% per year.

Through consultation with the Sayreville Borough Planning Board staff, there are no other developments in the vicinity of the site that have been approved but not yet constructed that are identified as significant traffic generators. It was assumed that the background growth rate was adequate to account for the traffic associated with all developments not listed.

Future 2026 No Build traffic volumes were developed by applying the background growth rate of 1.0% for two (2) years to the study area roadways existing traffic volumes. Figure 3, in Appendix A, shows the 2026 No Build traffic volumes.

Traffic Generation

Trip generation projections for The Project were prepared utilizing trip generation research data as published under Land Use Code 157 – High-Cube Cold Storage Warehouse in the Institute of Transportation Engineers' (ITE) publication, *Trip Generation*, 11th Edition. This publication sets forth trip generation rates based on empirical traffic count data conducted at numerous research sites. Truck trip generation projections were prepared utilizing the Truck Trip Generation Plots contained within *Trip Generation*, 11th Edition. The directional distribution of total trips was taken from the trip generation data published under LUC 154 – High-Cube Transload and Short-Term Storage Warehouse. Additionally, the directional distribution of truck trips during the weekday evening peak hour was assumed to be a 50% entering, 50% exiting distribution, consistent with the daily directional distribution for LUC 157. Table 3 below details the traffic volumes associated with the subject project.

L and Usa	Trin Tuno	1	AM PSH	I]	PM PSH	[
Lanu Use	The Type	In	Out	Total	In	Out	Total
257 858 SE Cald	Total	21	7	28	8	23	31
257,050 SF COlu Storage Warehouse	Trucks	3	5	8	4	4	8
Storage Warehouse	Cars	18	2	20	4	19	23
00 5 20 SE Cald	Total	8	3	11	3	9	12
99,520 SF Cold	Trucks	1	2	3	2	1	3
Storage Warehouse	Cars	7	1	8	1	8	9
	Total	29	10	39	11	32	43
Total	Trucks	4	7	11	6	5	11
	Cars	25	3	28	5	27	32

Table 3



As shown in Table 3, the proposed development is calculated to generate 39 trips during the weekday morning peak hour and 43 trips during the weekday evening peak hour. It is noted that the number of new trips falls below the industry accepted standard of a significant increase in traffic of 100 trips. Additionally, NJDOT has determined that the same 100 vehicle trip threshold is considered a "significant increase in traffic," hence, it is not anticipated that the proposed development will result in a significant degradation of operating conditions for the adjacent roadway network.

Once the magnitude of traffic to be generated by the site is known, it is necessary to assign that traffic to the adjacent street system. The distribution of new traffic to the surrounding roadways is based on the location of primary arterial roadways, major signalized intersections and existing traffic patterns. Figures 4-8, located in Appendix A, illustrate the Passenger Car Traffic Trip Distribution, Passenger Car Site Generated Volumes, Truck Traffic Trip Distribution, Truck Site Generated Volumes, and the Total Site Generated Volumes, respectively. The Total Site Generated Volumes assigned to the study area network were added to the No Build traffic volumes to generate the Build traffic volumes, which are shown in Figure 9.

Future Capacity Analysis

Operational conditions at the study intersections were analyzed under the No Build and Build conditions and are summarized in Table 4 below.

Futur	re Leve	els of So	ervice			
	Dimo	tion (AM	PSH	PM	PSH
Intersection	Mov	ement	No Build	Build	No Build	Build
	EB	LTR	-	b (11)	-	b (12)
Jernee Mill Road (CR 675) & Red	WB	LTR	b (12)	b (13)	a (10)	a (10)
Oak Lane/Central Site Driveway	NB	L	-	a (8)	-	a (8)
	SB	L	a (8)	a (8)	a (8)	a (8)
Jernee Mill Road (CR 675) & Northern Site Driveway	NB	L	-	a (8)	-	a (8)
Jernee Mill Road (CR 675) & Southern Site Driveway	EB	LR	-	a (10)	-	b (11)

Table 4
Future Levels of Servi

a (#) - Unsignalized Intersection Level of Service (seconds of delay per vehicle)

Jernee Mill Road (CR 675) & Red Oak Lane/Central Site Driveway

The central site driveway is proposed to intersect Jernee Mill Road (CR 675) opposite Red Oak Lane to form a four-leg unsignalized intersection with the eastbound approach of the Central Site Driveway and the westbound approach of Red Oak Lane operating under stop control. All approaches to the intersection are proposed to provide a shared left turn/through/right turn lane.

With the addition of the eastbound approach of the Central Driveway and with the addition of site generated traffic, each intersection movement is anticipated to continue to operate at levels of service "B" or better during the analyzed peak hours. See Table 4 for the individual movement levels of service and delays.



Jernee Mill Road (CR 675) & the Northern Site Driveway

The northern site driveway is proposed to intersect Jernee Mill Road (CR 675) north of its intersection with Red Oak Lane to form an unsignalized T-intersection with the site driveway providing one lane for travel away from the intersection. The northbound approach of Jernee Mill Road (CR 675) is proposed to provide a shared left turn/through lane, while the southbound approach is proposed to provide a shared through/right turn lane.

As designed, the driveway is anticipated to operate at level of service "A" during the studied peak hours. See Table 4 for the individual movement levels of service and delays.

Jernee Mill Road (CR 675) & the Southern Site Driveway

The southern driveway is proposed to intersect Jernee Mill Road (CR 675) south of its intersection with Red Oak Lane to form an unsignalized T-intersection with the eastbound approach of the site driveway operating under stop control. The northbound approach of Jernee Mill Road (CR 675) is proposed to provide a shared left turn/through lane, while the southbound approach is proposed to provide a shared through/right turn lane. The eastbound approach of the site driveway is proposed to provide a shared left turn/right turn lane.

As designed, the driveway is anticipated to operate at levels of service "B" or better during the studied peak hours. See Table 4 for the individual movement levels of service and delays.



SITE PLAN

Site Access and Circulation

The site plan was reviewed with respect to the site access and on-site circulation design. As noted previously, access to The Project will be provided via one ingress-only driveway along Jernee Mill Road (CR 675) along the northern portion of the site, one egress-only driveway along the southern portion of the site, and one full-movement driveway located directly opposite Red Oak Lane which will provide access for passenger vehicles only. Truck access will be restricted to the northern ingress-only driveway and the southern egress-only driveway. The central full-movement driveway will be limited to passenger vehicles only.

The parking lot will be serviced by parking aisles with widths of 24', which satisfy the Ordinance's minimum requirement of 24', respectively. These aisles will allow for two-way circulation and 90-degree parking. Review of the site plan design indicates that the site can sufficiently accommodate a large wheel base vehicle, such as a tractor with a 53' trailer, along with the automobile traffic anticipated.

Parking

The Sayreville Borough Ordinance sets forth a parking requirement of 1 parking space per 3,500 square feet for cold storage warehouses. This equates to a parking requirement of 102 spaces for the proposed 357,378 SF cold storage facility. The site as proposed provides 146 parking spaces, inclusive of 8 make-ready electric vehicle charging spaces and two handicap spaces, and the Ordinance requirement is satisfied.

It is proposed to provide parking stalls with dimensions of 9'x18', which satisfy the Ordinance minimum requirement of 9'x18'.



FINDINGS & CONCLUSIONS

Findings

Based upon the detailed analyses as documented herein, the following findings are noted:

- The proposed 357,378 SF cold storage facility is projected to generate 29 entering trips and 10 exiting trips during the weekday morning peak hour and 11 entering trips and 32 exiting trips during the evening peak hour that are "new" to the adjacent roadway network.
- Access to the site is proposed to be provided via one ingress-only driveway along Jernee Mill Road (CR 675) along the northern portion of the site, one egress-only driveway along the southern portion of the site, and one full-movement driveway located directly opposite Red Oak Lane.
- With the addition of the eastbound approach of the Central Site Driveway and with the addition of site generated traffic, the intersection of Jernee Mill Road (CR 675) and Red Oak Lane/Central Site Driveway is anticipated to operate at levels of service "B" or better during the peak hours studied.
- As designed, the intersection of Jernee Mill Road (CR 675) and the Northern Site Driveway is anticipated to operate at level of service "A" during the peak hours studied.
- As designed, the intersection of Jernee Mill Road (CR 675) and the Southern Site Driveway is anticipated to operate at levels of service "B" or better during the peak hours studied.
- As proposed, The Project's site driveways and internal circulation have been designed to provide for safe and efficient movement of automobiles and large wheel base vehicles.
- The proposed parking supply and design is sufficient to support the projected demand and satisfies the Ordinance requirements.

Conclusions

Based upon our Traffic Impact Study as detailed in the body of this report, it is the professional opinion of Dynamic Traffic LLC that the adjacent street system of the Borough of Sayreville and Middlesex County will not experience any significant degradation in operating conditions with the construction of The Project. The site driveways are located to provide safe and efficient access to the adjacent roadway system. The site plan as proposed provides for effective circulation throughout the site and provides adequate parking to accommodate The Project's needs.

Appendix A Traffic Volume Figures



















Appendix B Project Information

Dynamic Traffic, LLC www.dynamictraffic.com

732-681-0760

E/W: Red Oak Lane N/S: Jernee Mill Road Town/County: Sayreville/Middlesex Job #: 3184 22-03157 File Name : Jernee Mill Rd & Red Oak Ln - AMPM Site Code : 00000000 Start Date : 6/20/2024 Page No : 1

				Grou	ps Printed- (Cars - Trucl	ks (SU) - T	rucks (TT)					
		Red Oa	k Lane			Jernee N	1ill Road			Jernee I	Vill Road		
		Westb	ound			North	bound			South	bound		
Start Time	Left	Right	Peds	App. Total	Thru	Right	Peds	App. Total	Left	Thru	Peds	App. Total	Int. Total
07:00 AM	0	0	0	0	48	0	0	48	1	47	0	48	96
07:15 AM	0	0	0	0	36	0	0	36	0	43	0	43	79
07:30 AM	0	0	0	0	48	0	0	48	0	34	0	34	82
07:45 AM	0	0	0	0	64	0	0	64	0	55	0	55	119
Total	0	0	0	0	196	0	0	196	1	179	0	180	376
08:00 AM	1	0	0	1	67	0	0	67	0	55	0	55	123
08:15 AM	0	0	0	0	50	0	0	50	1	42	0	43	93
08:30 AM	0	0	0	0	51	1	0	52	1	79	0	80	132
08:45 AM	0	0	0	0	53	0	0	53	0	48	0	48	101
Total	1	0	0	1	221	1	0	222	2	224	0	226	449
*** BREAK ***													
04:30 PM	0	0	0	0	60	0	0	60	1	61	0	62	122
04:45 PM	1	0	0	1	58	0	0	58	0	79	0	79	138
Total	1	0	0	1	118	0	0	118	1	140	0	141	260
05:00 PM	0	1	0	1	78	3	0	81	0	80	0	80	162
05:15 PM	0	2	0	2	68	0	0	68	1	81	0	82	152
05:30 PM	0	1	0	1	58	0	0	58	0	78	0	78	137
05:45 PM	0	1	0	1	79	0	0	79	0	83	0	83	163
Total	0	5	0	5	283	3	0	286	1	322	0	323	614
06:00 PM	1	0	0	1	63	0	0	63	0	79	0	79	143
06:15 PM	0	0	0	0	58	0	0	58	0	88	0	88	146
Grand Total	3	5	0	8	939	4	0	943	5	1032	0	1037	1988
Apprch %	37.5	62.5	0		99.6	0.4	0		0.5	99.5	0		
Total %	0.2	0.3	0	0.4	47.2	0.2	0	47.4	0.3	51.9	0	52.2	
Cars	3	5	0	8	906	4	0	910	5	984	0	989	1907
% Cars	100	100	0	100	96.5	100	0	96.5	100	95.3	0	95.4	95.9
Trucks (SU)	0	0	0	0	21	0	0	21	0	34	0	34	55
% Trucks (SU)	0	0	0	0	2.2	0	0	2.2	0	3.3	0	3.3	2.8
Trucks (TT)	0	0	0	0	12	0	0	12	0	14	0	14	26
% Trucks (TT)	0	0	0	0	1.3	0	0	1.3	0	1.4	0	1.4	1.3

Dynamic Traffic, LLC

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E/W: Red Oak Lane N/S: Jernee Mill Road Town/County: Sayreville/Middlesex Job #: 3184 22-03157

File Name : Jernee Mill Rd & Red Oak Ln - AMPM Site Code : 00000000 Start Date : 6/20/2024 Page No : 2

		Red O	ak Lane			Jernee N	Vill Road			Jernee	Mill Road		
Charl Time	1-0	West	ibound	Aug. Tatal	Thurs	North	bound	Aug. Tatal	1-0	South	ibound	Ann Tatal	Lat Tatal
Start Time	Lett	Right	Peas	App. Total	Inru	Right	Peas	App. Total	Left	Inru	Peas	App. Total	int. I otai
Peak Hour Analysis Fi	rom 07:00 A	AM to 11:45	AM - Peak	1 01 1									
Peak Hour for Entire II	ntersection	Begins at 0.	/:45 AM										
07:45 AM	0	0	0	0	64	0	0	64	0	55	0	55	119
08:00 AM	1	0	0	1	67	0	0	67	0	55	0	55	123
08:15 AM	0	0	0	0	50	0	0	50	1	42	0	43	93
08:30 AM	0	0	0	0	51	1	0	52	1	79	0	80	132
Total Volume	1	0	0	1	232	1	0	233	2	231	0	233	467
% App. Total	100	0	0		99.6	0.4	0		0.9	99.1	0		
PHF	.250	.000	.000	.250	.866	.250	.000	.869	.500	.731	.000	.728	.884
Cars	1	0	0	1	218	1	0	219	2	212	0	214	434
% Cars	100	0	0	100	94.0	100	0	94.0	100	91.8	0	91.8	92.9
Trucks (SU)	0	0	0	0	9	0	0	9	0	12	0	12	21
% Trucks (SU)	0	0	0	0	3.9	0	0	3.9	0	5.2	0	5.2	4.5
Trucks (TT)	0	0	0	0	5	0	0	5	0	7	0	7	12
% Trucks (TT)	0	0	0	0	2.2	0	0	2.1	0	3.0	0	3.0	2.6
Peak Hour Analysis Fi	rom 12:00 F	PM to 06:15	PM - Peak	1 of 1									
Peak Hour for Entire In	ntersection	Begins at 0	5:00 PM										
05:00 PM	0	1	0	1	78	3	0	81	0	80	0	80	162
05:15 PM	0	2	0	2	68	0	0	68	1	81	0	82	152
05:30 PM	0	1	0	1	58	0	0	58	0	78	0	78	137
05:45 PM	0	1	0	1	79	0	0	79	0	83	0	83	163
Total Volume	0	5	0	5	283	3	0	286	1	322	0	323	614
% App. Total	0	100	0		99	1	0		0.3	99.7	0		
PHF	.000	.625	.000	.625	.896	.250	.000	.883	.250	.970	.000	.973	.942
Cars	0	5	0	5	281	3	0	284	1	314	0	315	604
% Cars	0	100	0	100	99.3	100	0	99.3	100	97.5	0	97.5	98.4
Trucks (SU)	0	0	0	0	0	0	0	0	0	8	0	8	8
% Trucks (SU)	0	0	0	0	0	0	0	0	0	2.5	0	2.5	1.3
Trucks (TT)	n n	0	0	0	2	0	Ő	2	0		0 0	0	
% Trucks (TT)	0	0	0	0	0.7	0	0	0.7	0	0	0	0	0.3



SRI = 120006751

Date last inventoried: June 2011

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March

Appendix C Capacity Analysis

0.1					
WBL	WBR	NBT	NBR	SBL	SBT
Y		ef 👘			ŧ
1	0	232	1	2	231
1	0	232	1	2	231
0	0	0	0	0	0
Stop	Stop	Free	Free	Free	Free
-	None	-	None	-	None
0	-	-	-	-	-
e,#0	-	0	-	-	0
-3	-	1	-	-	-1
88	88	88	88	88	88
0	0	6	0	0	8
1	0	264	1	2	263
	0.1 WBL 1 1 0 Stop - 0 e, # 0 -3 88 0 1	0.1 WBL WBR 1 0 1 0 0 0 Stop Stop - None 0 - e, # 0 - -3 - 88 88 0 0 1 0	0.1 WBL WBR NBT 1 0 232 1 0 232 0 0 0 Stop Stop Free - None - 0 - 0 - 0 - 0 - 1 0 88 88 88 0 0 6 1 0 264	0.1 WBL WBR NBT NBR ↑ 1 0 232 1 1 0 232 1 1 0 232 1 0 0 0 0 Stop Stop Free Free - None - None 0 e, # 0 - 0 - -3 - 1 - 88 88 88 88 88 0 0 6 0 1 0 264 1	0.1 WBL WBR NBT NBR SBL 1 0 232 1 2 1 0 232 1 2 0 0 0 0 0 0 Stop Stop Free Free Free - None - None - 0 - None - 0 - 0 e, # 0 - 0 - 88 88 88 88 88 88 88 0 0 6 0 0 1 0 264 1 2

Major/Minor	Minor1	Ν	/lajor1	1	Major2		
Conflicting Flow All	531	264	0	0	265	0	
Stage 1	264	-	-	-	-	-	
Stage 2	267	-	-	-	-	-	
Critical Hdwy	5.8	5.9	-	-	4.1	-	
Critical Hdwy Stg 1	4.8	-	-	-	-	-	
Critical Hdwy Stg 2	4.8	-	-	-	-	-	
Follow-up Hdwy	3.5	3.3	-	-	2.2	-	
Pot Cap-1 Maneuver	560	797	-	-	1311	-	
Stage 1	820	-	-	-	-	-	
Stage 2	818	-	-	-	-	-	
Platoon blocked, %			-	-		-	
Mov Cap-1 Maneuve	r 558	797	-	-	1311	-	
Mov Cap-2 Maneuve	r 558	-	-	-	-	-	
Stage 1	820	-	-	-	-	-	
Stage 2	816	-	-	-	-	-	
Approach	WB		NB		SB		
HCM Control Delay,	s/1/1.46		0		0.07		
HCM LOS	В						
Minor Lane/Major Mv	rmt	NBT	NBRW	BLn1	SBL	SBT	
Capacity (veh/h)		-	-	558	15	-	
HCM Lane V/C Ratio		-	- (0.002	0.002	-	
HCM Control Delay (s/veh)	-	-	11.5	7.8	0	
HCM Lane LOS		-	-	В	Α	A	

0

-

-

0

-

HCM 95th %tile Q(veh)

Int Delay, s/veh	0.1								
Movement	WBL	WBR	NBT	NBR	SBL	SBT			
Lane Configurations	Y		4			ŧ			
Traffic Vol, veh/h	0	5	283	3	1	322			
Future Vol, veh/h	0	5	283	3	1	322			
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, %	-3	-	1	-	-	-1			
Peak Hour Factor	94	94	94	94	94	94			
Heavy Vehicles, %	0	0	1	0	0	3			
Mvmt Flow	0	5	301	3	1	343			

Major/Minor	Minor1	Ν	/lajor1	Ν	/lajor2		
Conflicting Flow All	647	303	0	0	304	0	
Stage 1	303	-	-	-	-	-	
Stage 2	345	-	-	-	-	-	
Critical Hdwy	5.8	5.9	-	-	4.1	-	
Critical Hdwy Stg 1	4.8	-	-	-	-	-	
Critical Hdwy Stg 2	4.8	-	-	-	-	-	
Follow-up Hdwy	3.5	3.3	-	-	2.2	-	
Pot Cap-1 Maneuver	488	761	-	-	1268	-	
Stage 1	793	-	-	-	-	-	
Stage 2	765	-	-	-	-	-	
Platoon blocked, %			-	-		-	
Mov Cap-1 Maneuve	r 488	761	-	-	1268	-	
Mov Cap-2 Maneuve	r 488	-	-	-	-	-	
Stage 1	793	-	-	-	-	-	
Stage 2	764	-	-	-	-	-	
Approach	WB		NB		SB		
HCM Control Delay,	s/v9.77		0		0.02		
HCM LOS	А						
Minor Lane/Major Mv	mt	NBT	NBRW	BLn1	SBL	SBT	
Capacity (veh/h)		-	-	761	6	-	
HCM Lane V/C Ratio		-	- (0.007	0.001	-	
HCM Control Delay (s/veh)	-	-	9.8	7.8	0	
HCM Lane LOS		-	-	А	А	А	
HCM 95th %tile Q(ve	h)	-	-	0	0	-	

0.1					
WBL	WBR	NBT	NBR	SBL	SBT
Y		ef 👘			ŧ
1	0	237	1	2	236
1	0	237	1	2	236
0	0	0	0	0	0
Stop	Stop	Free	Free	Free	Free
-	None	-	None	-	None
0	-	-	-	-	-
e, # 0	-	0	-	-	0
-3	-	1	-	-	-1
88	88	88	88	88	88
0	0	6	0	0	8
1	0	269	1	2	268
	0.1 WBL 1 1 0 Stop - 0 e, # 0 -3 88 0 1	0.1 WBL WBR 1 0 1 0 0 0 Stop Stop - None 0 - e, # 0 - -3 - 88 88 0 0 1 0	0.1 WBL WBR NBT 1 0 237 1 0 237 1 0 237 0 0 0 Stop Stop Free - None - 0 - 0 - 2, # 0 - 1 0 -3 - 1 88 88 88 0 0 6 1 0 269	0.1 WBL WBR NBT NBR ↑ 0 237 1 0 237 1 1 0 237 1 0 0 0 0 Stop Stop Free Free None - None 0 None 0 - 0 - a, # 0 - 0 - a, # 0 - 1 - 88 88 88 88 88 0 0 6 0 1 0 269 1	0.1 WBL WBR NBT NBR SBL Y 1 0 237 1 2 1 0 237 1 2 1 0 237 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

Major/Minor	Minor1	Ν	/lajor1	Ν	/lajor2		
Conflicting Flow All	543	270	0	0	270	0	
Stage 1	270	-	-	-	-	-	
Stage 2	273	-	-	-	-	-	
Critical Hdwy	5.8	5.9	-	-	4.1	-	
Critical Hdwy Stg 1	4.8	-	-	-	-	-	
Critical Hdwy Stg 2	4.8	-	-	-	-	-	
Follow-up Hdwy	3.5	3.3	-	-	2.2	-	
Pot Cap-1 Maneuver	552	791	-	-	1305	-	
Stage 1	816	-	-	-	-	-	
Stage 2	814	-	-	-	-	-	
Platoon blocked, %			-	-		-	
Mov Cap-1 Maneuve	r 551	791	-	-	1305	-	
Mov Cap-2 Maneuve	r 551	-	-	-	-	-	
Stage 1	816	-	-	-	-	-	
Stage 2	812	-	-	-	-	-	
Approach	WB		NB		SB		
HCM Control Delay,	s/1/1.55		0		0.07		
HCM LOS	В						
Minor Lane/Major Mv	mt	NBT	NBRW	'BLn1	SBL	SBT	
Capacity (veh/h)		-	-	551	15	-	
HCM Lane V/C Ratio		-	-	0.002	0.002	-	
HCM Control Delay (s/veh)	-	-	11.5	7.8	0	
HCM Lane LOS		-	-	В	А	А	
HCM 95th %tile Q(ve	h)	-	-	0	0	-	

Int Delay, s/veh	0.1							
Movement	WBL	WBR	NBT	NBR	SBL	SBT		
Lane Configurations	Y		4			ŧ		
Traffic Vol, veh/h	0	5	289	3	1	328		
Future Vol, veh/h	0	5	289	3	1	328		
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, %	-3	-	1	-	-	-1		
Peak Hour Factor	94	94	94	94	94	94		
Heavy Vehicles, %	0	0	1	0	0	3		
Mvmt Flow	0	5	307	3	1	349		

Major/Minor	Minor1	Ν	/lajor1	Ν	/lajor2		
Conflicting Flow All	660	309	0	0	311	0	
Stage 1	309	-	-	-	-	-	
Stage 2	351	-	-	-	-	-	
Critical Hdwy	5.8	5.9	-	-	4.1	-	
Critical Hdwy Stg 1	4.8	-	-	-	-	-	
Critical Hdwy Stg 2	4.8	-	-	-	-	-	
Follow-up Hdwy	3.5	3.3	-	-	2.2	-	
Pot Cap-1 Maneuver	481	755	-	-	1261	-	
Stage 1	789	-	-	-	-	-	
Stage 2	760	-	-	-	-	-	
Platoon blocked, %			-	-		-	
Mov Cap-1 Maneuve	r 481	755	-	-	1261	-	
Mov Cap-2 Maneuve	r 481	-	-	-	-	-	
Stage 1	789	-	-	-	-	-	
Stage 2	759	-	-	-	-	-	
Approach	WB		NB		SB		
HCM Control Delay, s	s/v 9.8		0		0.02		
HCM LOS	А						
Minor Lane/Major Mv	mt	NBT	NBRW	BLn1	SBL	SBT	
Capacity (veh/h)		-	-	755	5	-	
HCM Lane V/C Ratio		-	- (0.007	0.001	-	
HCM Control Delay (s/veh)	-	-	9.8	7.9	0	
HCM Lane LOS		-	-	А	А	Α	
HCM 95th %tile Q(ve	h)	-	-	0	0	-	

Intersection												
Int Delay, s/veh	0.2											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	2	0	1	1	0	0	6	245	1	2	236	11
Future Vol, veh/h	2	0	1	1	0	0	6	245	1	2	236	11
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	ə, # -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	-5	-	-	-3	-	-	1	-	-	-1	-
Peak Hour Factor	88	88	88	88	88	88	88	88	88	88	88	88
Heavy Vehicles, %	0	0	0	0	0	0	0	6	0	0	8	0
Mvmt Flow	2	0	1	1	0	0	7	278	1	2	268	13

Major/Minor	Minor2		Ν	1inor1		N	Major1		Ν	lajor2			
Conflicting Flow All	571	572	274	565	578	279	281	0	0	280	0	0	
Stage 1	279	279	-	293	293	-	-	-	-	-	-	-	
Stage 2	292	293	-	273	285	-	-	-	-	-	-	-	
Critical Hdwy	6.1	5.5	5.7	6.5	5.9	5.9	4.1	-	-	4.1	-	-	
Critical Hdwy Stg 1	5.1	4.5	-	5.5	4.9	-	-	-	-	-	-	-	
Critical Hdwy Stg 2	5.1	4.5	-	5.5	4.9	-	-	-	-	-	-	-	
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-	
Pot Cap-1 Maneuver	509	507	799	482	473	783	1293	-	-	1295	-	-	
Stage 1	791	739	-	756	708	-	-	-	-	-	-	-	
Stage 2	781	731	-	772	712	-	-	-	-	-	-	-	
Platoon blocked, %								-	-		-	-	
Mov Cap-1 Maneuve	r 505	503	799	477	469	783	1293	-	-	1295	-	-	
Mov Cap-2 Maneuve	r 505	503	-	477	469	-	-	-	-	-	-	-	
Stage 1	789	737	-	751	703	-	-	-	-	-	-	-	
Stage 2	776	726	-	769	711	-	-	-	-	-	-	-	

Approach	EB	WB	NB	SB	
HCM Control Delay	y, s/v11.29	12.56	0.19	0.06	
HCM LOS	В	В			

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1V	VBLn1	SBL	SBT	SBR
Capacity (veh/h)	43	-	-	576	477	14	-	-
HCM Lane V/C Ratio	0.005	-	-	0.006	0.002	0.002	-	-
HCM Control Delay (s/veh)	7.8	0	-	11.3	12.6	7.8	0	-
HCM Lane LOS	А	А	-	В	В	А	А	-
HCM 95th %tile Q(veh)	0	-	-	0	0	0	-	-

Intersection												
Int Delay, s/veh	0.5											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	12	0	7	0	0	5	1	300	3	1	328	2
Future Vol, veh/h	12	0	7	0	0	5	1	300	3	1	328	2
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, %	-	-5	-	-	-3	-	-	1	-	-	-1	-
Peak Hour Factor	94	94	94	94	94	94	94	94	94	94	94	94
Heavy Vehicles, %	0	0	0	0	0	0	0	1	0	0	3	0
Mvmt Flow	13	0	7	0	0	5	1	319	3	1	349	2

Major/Minor	Minor2		Ν	1inor1		ľ	Major1		Ν	/lajor2			
Conflicting Flow All	673	677	350	674	676	321	351	0	0	322	0	0	
Stage 1	352	352	-	323	323	-	-	-	-	-	-	-	
Stage 2	321	324	-	351	353	-	-	-	-	-	-	-	
Critical Hdwy	6.1	5.5	5.7	6.5	5.9	5.9	4.1	-	-	4.1	-	-	
Critical Hdwy Stg 1	5.1	4.5	-	5.5	4.9	-	-	-	-	-	-	-	
Critical Hdwy Stg 2	5.1	4.5	-	5.5	4.9	-	-	-	-	-	-	-	
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-	
Pot Cap-1 Maneuver	448	455	733	415	423	744	1219	-	-	1249	-	-	
Stage 1	738	700	-	732	690	-	-	-	-	-	-	-	
Stage 2	760	715	-	710	673	-	-	-	-	-	-	-	
Platoon blocked, %								-	-		-	-	
Mov Cap-1 Maneuve	er 444	454	733	410	422	744	1219	-	-	1249	-	-	
Mov Cap-2 Maneuve	er 444	454	-	410	422	-	-	-	-	-	-	-	
Stage 1	737	700	-	731	689	-	-	-	-	-	-	-	
Stage 2	753	714	-	702	672	-	-	-	-	-	-	-	

Approach	EB	WB	NB	SB	
HCM Control Dela	ıy, s/v12.22	9.87	0.03	0.02	
HCM LOS	В	А			

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1V	VBLn1	SBL	SBT	SBR
Capacity (veh/h)	6	-	-	519	744	5	-	-
HCM Lane V/C Ratio	0.001	-	-	0.039	0.007	0.001	-	-
HCM Control Delay (s/veh)	8	0	-	12.2	9.9	7.9	0	-
HCM Lane LOS	А	А	-	В	А	А	А	-
HCM 95th %tile Q(veh)	0	-	-	0.1	0	0	-	-

Intersection 0.1 Movement EBL EBR NBL NBT SBT SBR Lane Configurations Y 4 1 1 1 Traffic Vol, veh/h 0 0 7 240 249 5 Future Vol, veh/h 0 0 7 240 249 5 Conflicting Peds, #/hr 0 0 7 240 249 5 Storage Length 0 - - None None None Storage Length 0 - - 0 0 - - Veh in Median Storage, # 0 - - 0 0 - - Grade, % 0 - - 0 0 - - - Peak Hour Factor 88 88 88 88 88 88 88 88 88 88 88 88 88 6 - - -							
Int Delay, s/veh 0.1 Movement EBL EBR NBL NBT SBT SBR Lane Configurations M 0 7 240 249 5 Future Vol, veh/h 0 0 7 240 249 5 Conflicting Peds, #/hr 0 0 0 0 0 0 0 Sign Control Stop Stop Free Free<	Intersection						
Movement EBL EBR NBL NBT SBT SBR Lane Configurations Image: Configurations	Int Delay, s/veh	0.1					
Lane Configurations Image: Configuration Image: Configuration <th< td=""><td>Movement</td><td>EBL</td><td>EBR</td><td>NBL</td><td>NBT</td><td>SBT</td><td>SBR</td></th<>	Movement	EBL	EBR	NBL	NBT	SBT	SBR
Traffic Vol, veh/h 0 0 7 240 249 5 Future Vol, veh/h 0 0 7 240 249 5 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 - - 0 0 - Grade, % 0 - - 0 0 - Grade, % 0 0 0 6 8 0 Meavy Vehicles, % 0 0 0 8 273 283 6 Major/Minor Minor2 Major1 Major2 Major2 Conflicting Flow All 574 286 289 0 - 0 Stage 1 286 - - - - - - - - - - - - - - - -<	Lane Configurations	¥			្ឋ	1.	
Indian Stor, Yeh/h 0 0 7 240 249 5 Conflicting Peds, #/hr 0 0 0 0 0 0 0 Sign Control Stop Stop Free	Traffic Vol. veh/h	0	0	7	240	249	5
Name O O O O O O O O O Conflicting Peds, #/hr 0 0 0 0 0 0 0 0 0 Sign Control Stop Stop Free Free<	Future Vol. veh/h	0	0	7	240	249	5
Stop Stop Stop Free Free <th< td=""><td>Conflicting Peds #/hr</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></th<>	Conflicting Peds #/hr	0	0	0	0	0	0
Sign Control Stop Stop Hee None Storage None Storage None Storage None Stop G	Sign Control	Ston	Stop	Free	Eree	Free	Free
None	DT Channelized	Stop	None	1166	None	1166	None
Storage Lengin 0 - - 0 0 - Veh in Median Storage, # 0 - - 0 0 - Grade, % 0 - - 0 0 - Peak Hour Factor 88 89 9 9 9 <td< td=""><td>Storogo Longth</td><td>-</td><td>NONE</td><td>-</td><td>NULLE</td><td>-</td><td>NOTE</td></td<>	Storogo Longth	-	NONE	-	NULLE	-	NOTE
Ven in median Storage, # 0 - - 0 0 - Grade, % 0 - - 0 -1 - Peak Hour Factor 88 88 88 88 88 88 88 88 88 Heavy Vehicles, % 0 0 0 6 8 0 Mymt Flow 0 0 8 273 283 6 Major/Minor Minor2 Major1 Major2 283 6 Conflicting Flow All 574 286 289 0 - 0 Stage 1 286 - </td <td></td> <td>U . # 0</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td>		U . # 0	-	-	-	-	-
Grade, % 0 - - 0 -1 - Peak Hour Factor 88 90 0 0 6 30 90 </td <td>ven in Median Storage</td> <td>e, # 0</td> <td>-</td> <td>-</td> <td>0</td> <td>0</td> <td>-</td>	ven in Median Storage	e, # 0	-	-	0	0	-
Peak Hour Factor 88 90 0 0 0 6 8 0 Major/Minor Minor2 Major1 Major2 283 6 Major/Minor Minor2 Major1 Major2 283 6 Conflicting Flow All 574 286 289 0 - 0 Stage 1 286 - <t< td=""><td>Grade, %</td><td>0</td><td>-</td><td>-</td><td>0</td><td>-1</td><td>-</td></t<>	Grade, %	0	-	-	0	-1	-
Heavy Vehicles, % 0 0 0 6 8 0 Mvmt Flow 0 0 8 273 283 6 Major/Minor Minor2 Major1 Major2 Conflicting Flow All 574 286 289 0 - 0 Stage 1 286 - - - - - - Stage 2 289 - - - - - - - Critical Hdwy 6.4 6.2 4.1 - <td>Peak Hour Factor</td> <td>88</td> <td>88</td> <td>88</td> <td>88</td> <td>88</td> <td>88</td>	Peak Hour Factor	88	88	88	88	88	88
Mvmt Flow 0 0 8 273 283 6 Major/Minor Minor2 Major1 Major2 Conflicting Flow All 574 286 289 0 - 0 Stage 1 286 - - - - - - Stage 2 289 - - - - - - Critical Hdwy 6.4 6.2 4.1 - - - - Critical Hdwy Stg 1 5.4 - - - - - - - Follow-up Hdwy 3.5 3.3 2.2 -	Heavy Vehicles, %	0	0	0	6	8	0
Major/Minor Minor2 Major1 Major2 Conflicting Flow All 574 286 289 0 - 0 Stage 1 286 - - - - - - 0 Stage 2 289 -	Mvmt Flow	0	0	8	273	283	6
Major/Minor Minor2 Major1 Major2 Conflicting Flow All 574 286 289 0 - 0 Stage 1 286 - - - - - - - - - 0 Stage 2 289 -							
Major/Wilnor Major2 Major1 Major2 Conflicting Flow All 574 286 289 0 - 0 Stage 1 286 - - - - - - 0 Stage 2 289 - <td< td=""><td></td><td>1</td><td></td><td>A - 1 - A</td><td></td><td>1-1-0</td><td></td></td<>		1		A - 1 - A		1-1-0	
Conflicting Flow All 574 286 289 0 - 0 Stage 1 286 - - - - - - Stage 2 289 - - - - - - - Critical Hdwy 6.4 6.2 4.1 - - - - - - Critical Hdwy Stg 1 5.4 -	Major/Minor	/iinor2		viajor1	Ν	/lajor2	
Stage 1 286 -	Conflicting Flow All	574	286	289	0	-	0
Stage 2 289 -	Stage 1	286	-	-	-	-	-
Critical Hdwy 6.4 6.2 4.1 - - - Critical Hdwy Stg 1 5.4 - - - - - Critical Hdwy Stg 2 5.4 - - - - - - Follow-up Hdwy 3.5 3.3 2.2 - - - - Pot Cap-1 Maneuver 483 758 1285 - - - - Stage 1 767 - - - - - - - Stage 2 765 - <td< td=""><td>Stage 2</td><td>289</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></td<>	Stage 2	289	-	-	-	-	-
Critical Hdwy Stg 1 5.4 - - - - Critical Hdwy Stg 2 5.4 - - - - - Follow-up Hdwy 3.5 3.3 2.2 - - - - Pot Cap-1 Maneuver 483 758 1285 - - - Stage 1 767 - - - - - Stage 2 765 - - - - - Platoon blocked, % - - - - - - Mov Cap-1 Maneuver 480 758 1285 - - - - Mov Cap-2 Maneuver 480 - <td>Critical Hdwy</td> <td>6.4</td> <td>6.2</td> <td>4.1</td> <td>-</td> <td>-</td> <td>-</td>	Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 2 5.4 -	Critical Hdwy Stg 1	5.4	-	-	-	-	-
Follow-up Hdwy 3.5 3.3 2.2 - - Pot Cap-1 Maneuver 483 758 1285 - - - Stage 1 767 - <td>Critical Hdwy Stg 2</td> <td>5.4</td> <td>_</td> <td>_</td> <td>-</td> <td>-</td> <td>-</td>	Critical Hdwy Stg 2	5.4	_	_	-	-	-
Pot Cap-1 Maneuver 483 758 1285 - - Stage 1 767 - - - - Stage 2 765 - - - - Platoon blocked, % - - - - - Mov Cap-1 Maneuver 480 758 1285 - - Mov Cap-1 Maneuver 480 758 1285 - - Mov Cap-2 Maneuver 480 - - - - Stage 1 762 - - - - - Stage 2 765 - - - - - - Approach EB NB SB - - - - - HCM Control Delay, s/v 0 0.22 0 - - - - Minor Lane/Major Mvmt NBL NBT EBLn1 SBT SBR - - - Capacity (veh/h) 51 - - - - - - HCM Lane LOS </td <td>Follow-up Hdwy</td> <td>3.5</td> <td>33</td> <td>22</td> <td>_</td> <td>-</td> <td>-</td>	Follow-up Hdwy	3.5	33	22	_	-	-
Stage 1 767 -	Pot Can-1 Maneuver	483	758	1285	_	-	_
Stage 1 767 -	Stage 1	767	100	1200		-	-
Stage 2 765 -	Stage 2	707	-	-	-	-	-
Platoon blocked, % -	Stage 2	765	-	-	-	-	-
Mov Cap-1 Maneuver 480 758 1285 - <td>Platoon blocked, %</td> <td>10-</td> <td></td> <td>100-</td> <td>-</td> <td>-</td> <td>-</td>	Platoon blocked, %	10-		100-	-	-	-
Mov Cap-2 Maneuver 480 -	Mov Cap-1 Maneuver	480	758	1285	-	-	-
Stage 1 762 -	Mov Cap-2 Maneuver	480	-	-	-	-	-
Stage 2765ApproachEBNBSBHCM Control Delay, s/v00.220HCM LOSAMinor Lane/Major MvmtNBLNBTEBLn1SBTSBRSBRCapacity (veh/h)51HCM Lane V/C Ratio0.006HCM Control Delay (s/veh)7.800HCM Lane LOSAAA	Stage 1	762	-	-	-	-	-
Approach EB NB SB HCM Control Delay, s/v 0 0.22 0 HCM LOS A A A Minor Lane/Major Mvmt NBL NBTEBLn1 SBT SBR Capacity (veh/h) 51 - - - HCM Lane V/C Ratio 0.006 - - - HCM Control Delay (s/veh) 7.8 0 0 - HCM Lane LOS A A A - -	Stage 2	765	-	-	-	-	-
ApproachEBNBSBHCM Control Delay, s/v00.220HCM LOSAAMinor Lane/Major MvmtNBLNBTEBLn1SBTSBRCapacity (veh/h)51HCM Lane V/C Ratio0.006HCM Control Delay (s/veh)7.800HCM Lane LOSAAA	Ŭ						
ApproachEBNBSBHCM Control Delay, s/v00.220HCM LOSAAMinor Lane/Major MvmtNBLNBTEBLn1SBTSBRCapacity (veh/h)51HCM Lane V/C Ratio0.006HCM Control Delay (s/veh)7.800HCM Lane LOSAAA							
HCM Control Delay, s/v 0 0.22 0 HCM LOS A A A Minor Lane/Major Mvmt NBL NBT EBLn1 SBT SBR Capacity (veh/h) 51 - - - HCM Lane V/C Ratio 0.006 - - - HCM Control Delay (s/veh) 7.8 0 0 - HCM Lane LOS A A - -	Approach	EB		NB		SB	
HCM LOSAMinor Lane/Major MvmtNBLNBT EBLn1SBTSBRCapacity (veh/h)51HCM Lane V/C Ratio0.006HCM Control Delay (s/veh)7.800-HCM Lane LOSAAA-	HCM Control Delay, s/	v 0		0.22		0	
Minor Lane/Major MvmtNBLNBTEBLn1SBTSBRCapacity (veh/h)51HCM Lane V/C Ratio0.006HCM Control Delay (s/veh)7.800-HCM Lane LOSAAA-	HCM LOS	Α					
Minor Lane/Major MvmtNBLNBTEBLn1SBTSBRCapacity (veh/h)51HCM Lane V/C Ratio0.006HCM Control Delay (s/veh)7.800-HCM Lane LOSAAA-							
Minor Lane/Major Mvmt NBL NBT SBT SBR Capacity (veh/h) 51 - - - - HCM Lane V/C Ratio 0.006 - - - - HCM Control Delay (s/veh) 7.8 0 0 - - HCM Lane LOS A A A - -	N 41 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		NE	NAT		007	000
Capacity (veh/h) 51 -	Minor Lane/Major Mvm	nt	NBL	NBLE	-BLn1	SBL	SBR
HCM Lane V/C Ratio 0.006 -	Capacity (veh/h)		51	-	-	-	-
HCM Control Delay (s/veh) 7.8 0 - - HCM Lane LOS A A A - -	HCM Lane V/C Ratio		0.006	-	-	-	-
HCM Lane LOS A A A	HCM Control Delay (s/	veh)	7.8	0	0	-	-
	HCM Lane LOS	,	А	А	А	-	-
HCM 95th %tile Q(veh) 0	HCM 95th %tile Q(veh)	0	-	-	-	-

Intersection						
Int Delay, s/veh	0.1					
Movement	EBI	FBR	NBL	NBT	SBT	SBR
Lane Configurations	M			4	1	
Traffic Vol. voh/h	0	0	6	শ 311	331	2
Future Vol. voh/h	0	0	0	311	321	2
Conflicting Dode #/hr	0	0	0	511	331	2
Connicung Peas, #/hr	U	U	0	U	0	U
Sign Control	Stop	Stop	⊢ree	⊢ree	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage	e, # 0	-	-	0	0	-
Grade, %	0	-	-	0	-1	-
Peak Hour Factor	94	94	94	94	94	94
Heavy Vehicles, %	0	0	0	1	3	0
Mvmt Flow	0	0	6	331	352	2
		-		-		
Major/Minor N	linor2	Ν	/lajor1	Ν	/lajor2	
Conflicting Flow All	697	353	354	0	-	0
Stage 1	353	-	-	-	-	-
Stage 2	344	-	-	-	-	-
Critical Hdwv	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	54	-	-	-	-	-
Critical Hdwy Stg 2	5.4	_	-	_	-	_
Follow-up Hdwy	3.5	33	22			
Pot Cap 1 Manauver	110	605	1216	-	-	-
Stage 1	715	095	1210	-	-	-
Stage	/15	-	-	-	-	-
Stage 2	723	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	408	695	1216	-	-	-
Mov Cap-2 Maneuver	408	-	-	-	-	-
Stage 1	711	-	-	-	-	-
Stage 2	723	-	-	-	-	-
, in the second se						
A I					0.0	
Approach	EB		NB		SB	
HCM Control Delay, s/	v 0		0.15		0	
HCM LOS	Α					
	.1		NDT		ODT	CDD
willior Lane/Wajor Wvm	π	INBL	INBI	ERFUI	SBI	SBR
Capacity (veh/h)		34	-	-	-	-
HCM Lane V/C Ratio		0.005	-	-	-	-
HCM Control Delay (s/	veh)	8	0	0	-	-
HCM Lane LOS		А	А	A	-	-
HCM 95th %tile Q(veh))	0	-	-	-	-

Intersection						
Int Delay, s/veh	0.1					
Movement	FRI	FRR	NRL	NRT	SRT	SRR
Lana Configurations		LDIX	NDL			
	T.	0	0	T	T	0
Traπic Vol, ven/n	1	6	0	251	238	0
Future Vol, veh/h	1	6	0	251	238	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage	, # 0	-	-	0	0	-
Grade, %	-3	-	-	1	-1	-
Peak Hour Factor	88	88	88	88	88	88
Heavy Vehicles, %	0	0	0	6	8	0
Mymt Flow	1	7	0	285	270	0
	•	•	Ū	200	2.0	Ŭ
Major/Minor N	linor2	Ν	Aajor1	Ν	/lajor2	
Conflicting Flow All	556	270	-	0	-	0
Stage 1	270	-	-	-	-	-
Stage 2	285	-	-	-	-	-
Critical Hdwy	5.8	59	_	_	-	_
Critical Hdwy Sta 1	/ 8	0.0	_	_	_	
Critical Hdwy Stg 7	4.0 / Q	-	-	-	-	-
	4.0		-	-	-	-
	5.5	3.3	-	-	-	-
Pot Cap-1 Maneuver	544	791	0	-	-	0
Stage 1	816	-	0	-	-	0
Stage 2	805	-	0	-	-	0
Platoon blocked, %				-	-	
Mov Cap-1 Maneuver	544	791	-	-	-	-
Mov Cap-2 Maneuver	544	-	-	-	-	-
Stage 1	816	-	-	-	-	-
Stage 2	805	-	-	-	-	-
0.0.90 2	000					
Approach	EB		NB		SB	
HCM Control Delay. s/	/ 9.9		0		0	
HCM LOS	A					
Minor Lane/Major Mvm	It	NBTE	EBLn1	SBT		
Capacity (veh/h)		-	743	-		
HCM Lane V/C Ratio		-	0.011	-		
HCM Control Delay (s/	veh)	-	99	-		
HCM Lane LOS		-	A	_		
HCM 95th %tile O(veh)			0	-		
		-	U	-		

Intersection						
Int Delay, s/veh	0.2					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	M			٠	٠	
Traffic Vol. veh/h	5	8	0	299	335	0
Future Vol. veh/h	5	8	0	200	335	0
Conflicting Dede #/br	0	0	0	233	000	0
Sign Control	Stop	Stop	Eroc	Eroo	Eroc	Eroc
DT Channelined	Stop	Siop	riee	Nere	riee	Nere
	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
ven in Median Storage	e, # 0	-	-	0	0	-
Grade, %	-3	-	-	1	-1	-
Peak Hour Factor	94	94	94	94	94	94
Heavy Vehicles, %	0	0	0	1	3	0
Mvmt Flow	5	9	0	318	356	0
Maian/Minar	Aire e "O		Anic 1		Anic - O	
	/iinorZ	N	viajori	N	/lajor2	_
Conflicting Flow All	674	356	-	0	-	0
Stage 1	356	-	-	-	-	-
Stage 2	318	-	-	-	-	-
Critical Hdwy	5.8	5.9	-	-	-	-
Critical Hdwy Stg 1	4.8	-	-	-	-	-
Critical Hdwy Stg 2	4.8	-	-	-	-	-
Follow-up Hdwv	3.5	3.3	-	-	-	-
Pot Cap-1 Maneuver	473	713	0	-	-	0
Stage 1	757		0	_	-	0
Stage 2	782	_	0	_	-	0
Platoon blocked %	102	-	0	-	-	0
May Cap 1 Manaura	172	712		-	-	
May Cap 2 Manager	4/3	113	-	-	-	-
Mov Cap-2 Maneuver	4/3	-	-	-	-	-
Stage 1	757	-	-	-	-	-
Stage 2	782	-	-	-	-	-
Approach	ED		ND		CD.	
					38	
HCM Control Delay, s/	W1.18		0		0	
HCM LOS	В					
Minor Lane/Maior Mym	nt	NBTE	-BLn1	SBT		
Canacity (yoh/h)			507	001		
		-	0 0 0 0 0	-		
HOM Control Dolary (a)	h (a la)	-	0.023	-		
HOM Lontrol Delay (S/	ven)	-	11.2	-		
HUM Lane LOS	、	-	B	-		
HCM 95th %tile Q(veh)	-	0.1	-		