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Intersection of Sunset Road and Boulevard

# **EXECUTIVE SUMMARY**

This Traffic Impact Study was prepared to update the original Traffic Impact Study prepared by our office dated October 17, 2022, based on the updated development plan for the proposed OneSchool located along the northerly side of Sunset Road in the Township of Pequannock, Morris County, New Jersey:

- 1. Under the proposed development program, a 27,825-square-foot private school, known as OneSchool, would be constructed on the subject property. Access is proposed via one (I) ingress-only driveway aligned with Washburn Road and one (I) egress-only driveway along Sunset Road.
- 2. Due to the proximity of the site to Pequannock High School, traffic counts were conducted during the school arrival and school dismissal time periods of both Pequannock High School and the proposed development. It is noted that the counts were conducted while classes were in session for the School District of Pequannock. Based on the review of the count data the weekday arrival peak hour occurred from 7:00 a.m. to 8:00 a.m. and the weekday dismissal peak hour occurred from 2:15 p.m. to 3:15 p.m.
- 3. The proposed OneSchool would consist of 11 teachers, one (1) administrator, and up to five (5) ancillary staff members, for a total of 17 employees. The school would serve approximately 100 students total in grades three (3) through 12.
- 4. The majority of students would arrive to the site via vans with each van transporting approximately 10 students at a time. A portion of licensed-aged students in the senior high school class would likely drive themselves; it is estimated that a peak of six (6) students would drive themselves to school. Based on the student body population, 12 vans would be required to transport students, with each van being stored off-site while not in use.
- 5. To provide a conservative analysis, the trip generation of the proposed development during the school arrival and school dismissal peak hours assumed that pick-ups and drop-offs, student self-arrival, and employee arrival and departure would occur within the peak hour.
- 6. Based on the analyses conducted the intersections throughout the roadway network and the proposed site driveways would operate at acceptable Levels of Service and delay with the construction of the proposed OneSchool.
- 7. The site would provide 44 total parking spaces. Based on the maximum number of employees onsite and the number of students that drive themselves to school, 23 vehicles would be parked onsite during a typical school day. As such, the proposed parking supply of 44 spaces would be sufficient to support this project's parking demand.

#### INTRODUCTION

This Traffic Impact Study was prepared to investigate the potential impacts of the proposed OneSchool on the adjacent roadway network. The subject property is located along the northerly side of Sunset Road and is bounded by Roome Avenue to the east and Dewilde Drive to the north in the Township of Pequannock, Morris County, New Jersey. The site location is shown on appended **Figure 1**.

The subject property is designated as Block 2104, Lot 21 as depicted on the Township of Pequannock Tax Map. The site has approximately 412 feet of frontage along Sunset Road, approximately 351 feet of frontage along Roome Avenue, and approximately 275 feet of frontage along Dewilde Drive. The existing site is occupied by non-operational Pompton Valley Presbyterian Church and Sunset Co-Op Nursery School. Access is presently provided via one (1) full-movement driveway along Sunset Road, and one (1) ingress-only driveway along Roome Avenue. Under the proposed development program, the existing structures would be razed and a 27,825-square-foot private school, known as OneSchool, would be constructed. Access to the site is proposed via one (1) ingress-only driveway aligned with Washburn Road and one (1) egress-only driveway along Sunset Road.

#### **METHODOLOGY**

Stonefield Engineering & Design, LLC has prepared this Traffic Impact Study in accordance with the recommended guidelines and practices outlined by the Institute of Transportation Engineers (ITE) within Transportation Impact Analyses for Site Development. A detailed field investigation was performed to assess the existing conditions of the adjacent roadway network. A data collection effort was completed to identify the existing traffic volumes at the study intersections to serve as a base for the traffic analyses. Capacity analysis, a procedure used to estimate the traffic-carrying ability of roadway facilities over a range of defined operating conditions, was performed using the Highway Capacity Manual, 6<sup>th</sup> Edition (HCM) and the Synchro II Software for all study conditions to assess the roadway operations.

For an unsignalized intersection, Level of Service (LOS) A indicates operations with delay of less than 10 seconds per vehicle, while LOS F describes operations with delay in excess of 50 seconds per vehicle. For a signalized intersection, LOS A indicates operations with delay of less than 10 seconds per vehicle, while LOS F describes operations with delay in excess of 80 seconds per vehicle. The Technical Appendix contains the Highway Capacity Analysis Detail Sheets for the study intersections analyzed in this assessment. The traffic signal timing utilized within the signalized analysis is based on timing directives provided by Morris County.

#### 2022 EXISTING CONDITION

#### 2022 EXISTING ROADWAY CONDITIONS

The proposed OneSchool is located along the northerly side of Sunset Road and is bounded by Roome Avenue to the east and Dewilde Drive to the north in the Township of Pequannock, Morris County, New Jersey. The subject property is designated as Block 2104, Lot 21 as depicted on the Township of Pequannock Tax Map. The site has approximately 412 feet of frontage along Sunset Road, approximately 351 feet of frontage along Roome Avenue, and approximately 275 feet of frontage along Dewilde Drive. Land uses in the area are a mix of educational, religious, and residential uses.

Sunset Road is classified as an Urban Major Collector roadway with a general east-west orientation, and is under the jurisdiction of the Township of Pequannock. Along the site frontage, the roadway provides one (I) lane of travel in each direction and has a posted speed limit of 35 mph with restrictions to 25 mph in the vicinity of Pequannock High School. Curb and sidewalk are provided along both sides of the roadway, shoulders are not provided, and on-street parking is not permitted. Sunset Road provides general east-west mobility throughout the Township of Pequannock for educational, religious, and residential uses along its length.

Boulevard (County Route 511A) is classified as an Urban Minor Arterial roadway with a general north-south orientation, and is under the jurisdiction of Morris County. In the vicinity of the site, the roadway provides one (I) lane of travel in each direction and has a posted speed limit of 40 mph and with restrictions to 25 mph in the vicinity of Hillview Elementary School. Curb and sidewalk are provided along both sides of the roadway, shoulders are not provided, and on-street parking is not permitted. Boulevard provides north-south mobility throughout the Township of Pequannock and surrounding municipalities and provides access to NJSH Route 23 to the north for educational, religious, and residential uses along its length.

West Parkway is classified as an Urban Major Collector roadway with a general north-south orientation, and is under the jurisdiction of the Township of Pequannock. In the vicinity of the site, the roadway provides one (I) lane of travel in each direction with additional lanes provided at key intersections to facilitate turning movements. The roadway has a posted speed limit of 35 mph and with restrictions to 25 mph in the vicinity of Pequannock High School. Curb and sidewalk are provided along both sides of the roadway, shoulders are not provided, and on-street parking is permitted along the easterly side of the roadway adjacent to Pequannock High School. West Parkway provides general north-south mobility throughout the Township of Pequannock with medical, educational, and residential uses along its length.

Roome Avenue is a local roadway with a general north-south orientation, and is under the jurisdiction of the Township of Pequannock. Along the site frontage, the roadway provides one (I) lane of travel in each

direction. Curb is provided along both sides of the roadway, sidewalks are not provided, shoulders are not provided, and on-street parking is permitted along both sides of the roadway. Roome Avenue provides north-south mobility in the Township of Pequannock, from Evelyn Place at its northerly terminus to Sunset Road at its southerly terminus with predominately residential uses along its length.

Washburn Road is a local roadway with a general north-south orientation, and is under the jurisdiction of the Township of Pequannock. In the vicinity of the site, the roadway provides one (I) lane of travel in each direction and has a posted speed limit of 25 mph. Curb and sidewalk are not provided, shoulders are not provided, and on-street parking is permitted with restrictions in effect daily from 8:00 a.m. to 4:00 p.m. along the westerly side of the roadway. Washburn Road provides north-south mobility from Sunset Road at its northerly terminus to Nichols Road at its southerly terminus with predominately residential uses along its length.

Sunset Road and Boulevard intersect to form a four (4)-leg intersection controlled by a two (2)-phase traffic signal operating on a variable cycle length. The eastbound and westbound approaches of Sunset Road provide one (I) shared left-turn/through/right-turn lane. The northbound and southbound approaches of Boulevard provide one (I) shared left-turn/through/right-turn lane. Crosswalks, pedestrian signals, and pedestrian ramps are provided across all legs of the intersection.

Sunset Road and Roome Avenue intersect to form an unsignalized T-intersection with the southbound approach of Roome Avenue operating under stop control. The eastbound approach of Sunset Road provides one (I) shared left-turn/through lane and the westbound approach of Sunset Road provides one (I) shared through/right-turn lane. The southbound approach of Roome Avenue provides one (I) shared left-turn/right-turn lane. Pedestrian ramps are provided across the northerly leg of the intersection.

Sunset Road and Washburn Road intersect to form an unsignalized T-intersection with the northbound approach of Roome Avenue operating under stop control. The eastbound approach of Sunset Road provides one (I) shared through/right-turn lane and the westbound approach of Sunset Road provides one (I) shared left-turn/through lane. The northbound approach of Washburn Road provides one (I) shared left-turn/right-turn lane. Pedestrian ramps are provided across the southerly leg of the intersection.

Sunset Road and West Parkway intersect to form an unsignalized T-intersection with the westbound approach of Sunset Road operating under stop control. The westbound approach of Sunset Road provides one (I) shared left-turn/right-turn lane. The northbound approach of West Parkway provides one (I) shared through/right-turn lane and the southbound approach of West Parkway provides one (I) exclusive left-turn lane and one (I) exclusive through lane. Crosswalks and pedestrian ramps are provided across the easterly and northerly legs of the intersection.

# **2022 EXISTING TRAFFIC VOLUMES**

Turning movement counts were collected during the typical weekday arrival and weekday dismissal time periods to evaluate existing traffic conditions and identify the specific hours when traffic activity on the adjacent roadways is at a maximum and could be potentially impacted by the development of the site. Turning movement counts were collected at the following intersections:

- ♦ Sunset Road and Boulevard
- ♦ Sunset Road and Roome Avenue
- Sunset Road and Washburn Road
- ♦ Sunset Road and West Parkway

Specifically, turning movement counts were conducted on the following date and during the following times:

♦ Tuesday, June 7, 2022, from 6:30 a.m. to 8:30 a.m. and from 2:00 p.m. to 4:00 p.m.

The study time periods were chosen as they are representative of the peak periods of both the adjacent roadway network and the proposed development, as the site is directly adjacent to Pequannock Township High School. It is noted that the traffic counts were conducted while classes were in session for the School District of Pequannock. The traffic volume data was collected and analyzed to identify the design peak hour in accordance with HCM and ITE guidelines. Based on the review of the count data the weekday arrival peak hour occurred from 7:00 a.m. to 8:00 a.m. and the weekday dismissal peak hour occurred from 2:15 p.m. to 3:15 p.m. The Technical Appendix contains a summary of the turning movement count data. The 2022 Existing weekday arrival and weekday dismissal peak-hour volumes are summarized on appended **Figure 2**.

# 2022 EXISTING LOS/CAPACITY ANALYSIS

A Level of Service and Volume/Capacity analysis was conducted for the 2022 Existing Condition during the weekday arrival and weekday dismissal peak hours at the study intersections. Under the existing condition, the signalized intersection of Sunset Road and Boulevard is calculated to operate at overall Level of Service of B during the weekday arrival and weekday dismissal peak hours. The turning movements at the unsignalized intersection of Sunset Road and Roome Avenue are calculated to operate at Level of Service B or better during the weekday arrival and weekday dismissal peak hours. The turning movements at the unsignalized intersection of Sunset Road and Washburn Road are calculated to operate at Level of Service B or better during the weekday arrival and weekday dismissal peak hours. The turning movements at the unsignalized intersection of Sunset Road and West Parkway are calculated to operate at Level of Service D or better during the weekday arrival peak hour and Level of Service C or better during the weekday dismissal peak hour.

#### 2024 NO-BUILD CONDITION

#### BACKGROUND GROWTH

The 2022 Existing Condition traffic volume data was grown to a future horizon year of 2024, which is a conservative estimate for when the proposed OneSchool is expected to be fully constructed. In accordance with industry guidelines, the existing traffic volumes at the study intersections were increased by I.00% annually for two (2) years. The I.00% background growth rate was obtained from the New Jersey Department of Transportation (NJDOT) Annual Background Growth Rate Table.

# OTHER PLANNED DEVELOPMENT PROJECTS

To evaluate the future traffic conditions, it is important to consider the potential site-generated traffic of other projects that could influence the traffic volume at the study intersections. Other planned development projects include those that are either in the entitlement process or have recently been approved for building permits in proximity to the proposed development. Based on consultations with the Township of Pequannock Land Use Secretary, Lori Camaya, there are no planned development projects within the area of the subject site. As such, the application of the background growth rate would be adequate to account for background traffic growth.

#### 2024 NO-BUILD TRAFFIC VOLUMES

The background growth rate was applied to the 2022 Existing Traffic Volumes to calculate the 2024 No-Build Traffic Volumes for the weekday arrival and weekday dismissal peak hours. These volumes are summarized on appended **Figure 3**.

# 2024 NO-BUILD LOS/CAPACITY ANALYSIS

A Level of Service and Volume/Capacity analysis was also conducted for the 2024 No-Build Condition during the weekday arrival and weekday dismissal peak hours at the study intersections. The signalized intersection of Sunset Road and Boulevard is calculated to operate generally consistent with the findings of the Existing Condition during the weekday arrival and weekday dismissal peak hours. The turning movements at the unsignalized intersection of Sunset Road and Roome Avenue are calculated to operate generally consistent with the findings of the Existing Condition during the weekday arrival and weekday dismissal peak hours. The turning movements at the unsignalized intersection of Sunset Road and Washburn Road are calculated to operate generally consistent with the findings of the Existing Condition during the weekday arrival and weekday dismissal peak hours. The turning movements at the unsignalized intersection of Sunset Road and West

Parkway are calculated to operate at Level of Service E or better during the weekday arrival peak hour and at Level of Service C or better during the weekday dismissal peak hour.

#### 2024 BUILD CONDITION

The site-generated traffic volume of the proposed OneSchool was estimated to identify the potential impacts of the project. For the purpose of this analysis, a complete project "build out" is assumed within two (2) years of the preparation of this study.

#### TRIP GENERATION

Trip generation projections for the proposed OneSchool were prepared utilizing operational information provided by the applicant. The school would consist of 11 teachers, one (1) administrative assistant, and up to five (5) ancillary staff members (e.g. administrators, nurse). The five (5) ancillary staff members would not be at the school on an everyday basis, however this analysis considers the traffic impact of the five (5) additional staff in addition to the 12 daily faculty. The school would serve approximately 100 students total in grades three (3) through 12. The majority of students would arrive to the site via vans with each van transporting approximately 10 students at a time. A portion of licensed-aged students in the senior high school class would likely drive themselves; it is estimated that a peak of six (6) students would drive themselves to school. It is anticipated that approximately 12 vans would be required to transport students, and the vans would be stored off-site while not in use. To provide a conservative analysis, the trip generation of the proposed development during the school arrival and school dismissal peak hours assumed that pick-ups and drop-offs, student self-arrival, and employee arrival and departure would occur within the peak hour. **Table 1** provides the weekday arrival and weekday dismissal peak hour trip generation volumes associated with the proposed development.

TABLE I - PROPOSED TRIP GENERATION

		ekday Ar Peak Hou			day Dism eak Hour	
Land Use	Enter	Exit	Total	Enter	Exit	Total
12 Vans	12	12	24	12	12	24
Self-Driving Students	6	0	6	0	6	6
Daily Faculty	12	0	12	0	12	12
Ancillary Faculty	5	0	5	0	5	5
Total Trip Generation	35	12	47	12	35	47

The proposed development is expected to generate a maximum 47 new trips during the critical weekday arrival and weekday dismissal peak hours. Based on <u>Transportation Impact Analysis for Site Development</u> published by ITE, a trip increase of less than 100 vehicle trips would likely not change the level of service of the adjacent roadway system or appreciably increase the volume-to-capacity ratio of an intersection approach. As

such, the proposed development is not anticipated to significantly impact the operations of the adjacent roadway network.

# TRIP ASSIGNMENT/DISTRIBUTION

The trips generated by the proposed development were distributed according to the existing travel pattern along the adjacent roadways, the location of residential neighborhoods proximate to the site, and the access management plan of the site. Based on the site's proximity to residential neighborhoods, it is anticipated that a majority of traffic would be routed to and from Boulevard and West Parkway. The Site-Generated Traffic Volumes are illustrated on **Figure 4**.

#### 2024 BUILD TRAFFIC VOLUMES

The site-generated trips were added to the 2024 No-Build Traffic Volumes to calculate the 2024 Build Traffic Volumes and are shown on appended **Figure 5**.

#### 2024 BUILD LOS/CAPACITY ANALYSIS

A Level of Service and Volume/Capacity analysis was also conducted for the 2024 Build Condition during the weekday arrival and weekday dismissal peak hours at the study intersections and proposed site driveway. Appended **Table AI** compares the Existing, No-Build, and Build Conditions Level of Service and delay values.

The signalized intersection of Sunset Road and Boulevard is calculated to operate generally consistent with the findings of the No-Build Condition at overall Level of Service B during the weekday arrival and weekday dismissal peak hours. The turning movements at the unsignalized intersection of Sunset Road and Roome Avenue are calculated to operate generally consistent with the findings of the No-Build Condition during the weekday arrival and weekday dismissal peak hours. The turning movements at the unsignalized intersection of Sunset Road, Washburn Road, and the ingress-only site driveway are calculated to operate at Level of Service B or better during the weekday arrival and weekday dismissal peak hours. The turning movements at the unsignalized intersection of Sunset Road and West Parkway are calculated to operate generally consistent with the findings of the No-Build Condition during the weekday arrival and weekday dismissal peak hours. The turning movements at the site driveway along Sunset Road are calculated to operate at Level of Service B during the weekday arrival and weekday dismissal peak hours.

#### SITE CIRCULATION/PARKING SUPPLY

A review was conducted of the proposed OneSchool using the Site Plan prepared by our office, dated April 6, 2023. In completing this review, particular attention was focused on the site access, circulation, and parking supply.

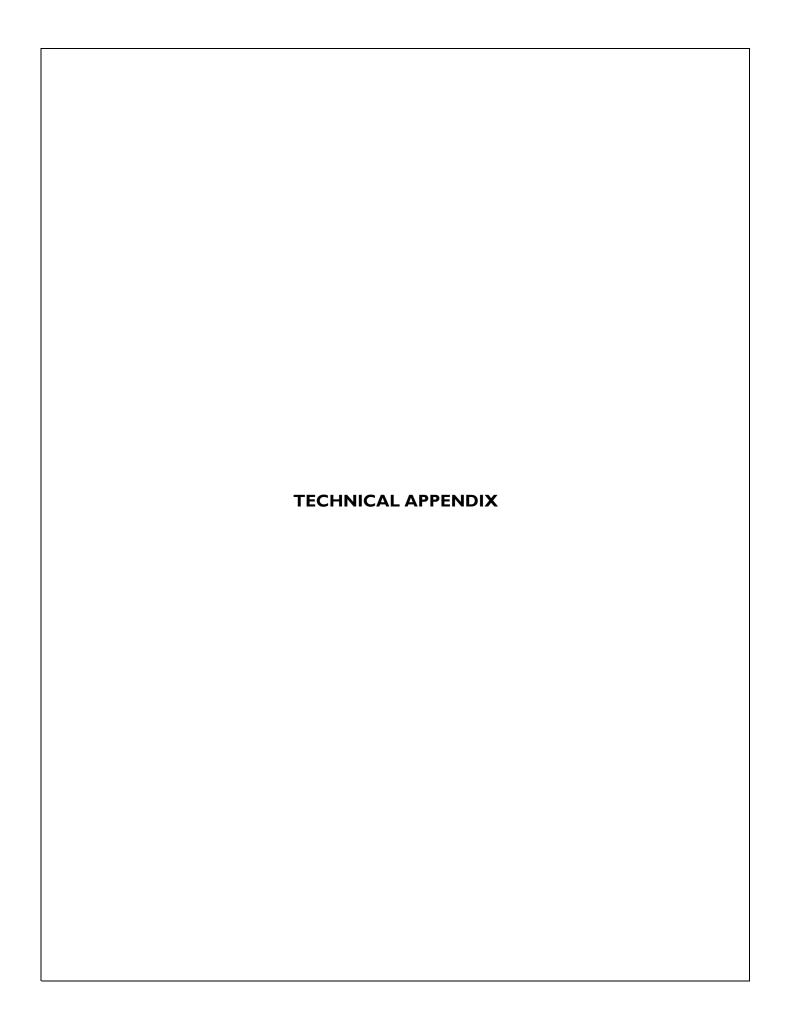
Access is proposed via one (I) ingress-only driveway aligned with Washburn Road and one (I) egress-only driveway along Sunset Road. The proposed OneSchool would be located on the southerly portion of the property with parking spaces provided to the west of the building. A proposed I2-foot-wide drop-off and pick-up lane would be located to the south of the building. Two (2)-way vehicular circulation throughout the site would be provided via 24-foot-wide drive aisles.

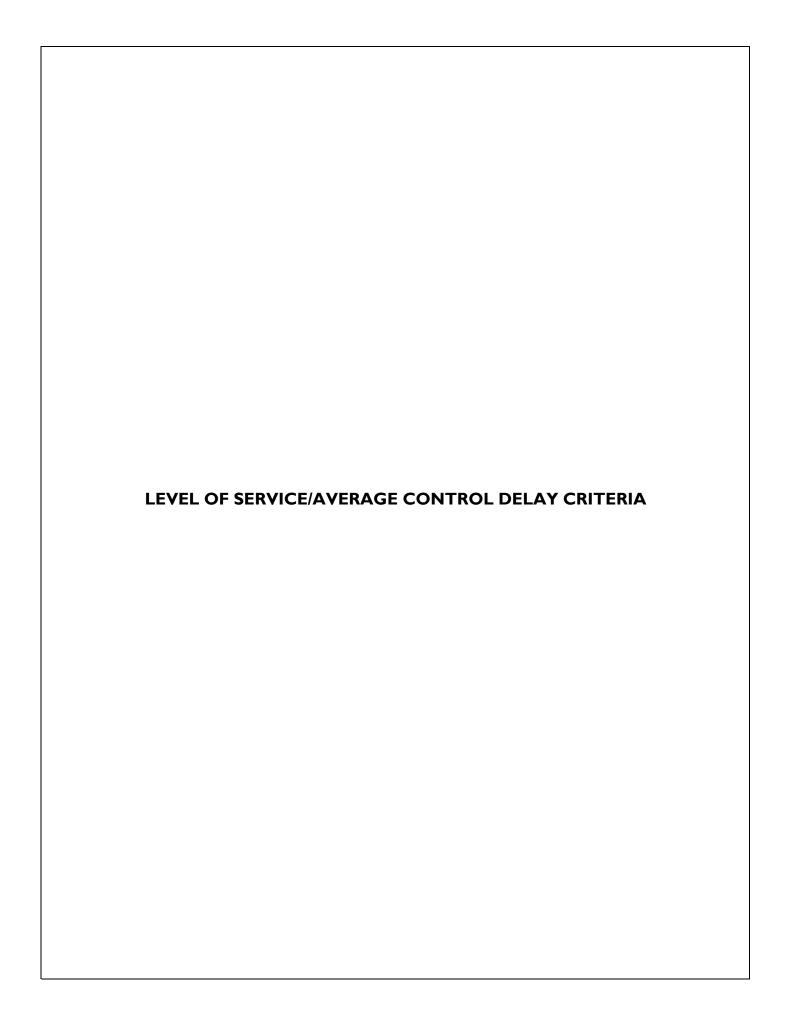
Regarding the parking requirements for the proposed development, the Township of Pequannock Ordinance requires 2.5 parking spaces per classroom and one (1) parking space per 10 students for secondary school uses and two (2) parking spaces per classroom and one (1) parking space per staff member for elementary school uses. For the proposed OneSchool with seven (7) secondary school classrooms, 100 secondary school students, eight (8) elementary school classrooms, and 12 elementary school staff members, this equates to 56 required spaces. The site would provide 44 total parking spaces, inclusive of three (3) ADA accessible parking spaces and nine (9) sets of tandem parking spaces (18 total spaces). Based on operational information provided by the applicant, the 12 vans anticipated to transport students would be stored off-site when not in use and the tandem parking spaces would be utilized by employees. Based on the maximum number of employees on-site and the number of students that drive themselves to school, 23 vehicles would be parked on-site during a typical school day. As such, the proposed parking supply of 44 spaces would be sufficient to support this project's parking demand. The spaces would be nine (9) feet wide by 18 feet deep in accordance with Township of Pequannock Ordinance and industry standards.

#### CONCLUSIONS

This report was prepared to examine the potential traffic impact of the proposed OneSchool. The analysis findings, which have been based on industry-standard guidelines, indicate that the proposed development would not have a significant impact on the traffic operations of the adjacent roadway network. The traffic analyses considered the adjacent Pequannock Township High School as the traffic counts utilized were conducted when school was in session. The trip generation projections for the proposed OneSchool were performed utilizing operational information provided by the applicant for the proposed development and the existing OneSchool campus. The site driveways and on-site layout have been designed to provide for effective access to and from the subject property. Based on operational information provided by the applicant and the expected number of vehicles expected to park on-site during a typical school day, the parking supply would be sufficient to support this project.

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# LEVEL OF SERVICE /AVERAGE CONTROL DELAY CRITERIA

The ability of a roadway to effectively accommodate traffic demand is determined through an assessment of the volume-to-capacity ratio, delay and Level of Service of the lane group and/or intersection. The volume-to-capacity ratio is the ratio of traffic flow rate to capacity for a given transportation facility. As defined within the <u>Highway Capacity Manual</u>, 6th Edition (HCM), intersection delay is the total additional travel time experienced by drivers, passengers, or pedestrians as a result of control measures and interaction with other users of the facility, divided by the volume departing from the corresponding cross section of the facility. Level of service is a qualitative measure describing operational conditions within a traffic stream, based on service measures such as speed and travel time, freedom to maneuver, traffic interruptions, comfort and convenience.

For an unsignalized intersection, LOS A indicates operations with delay less than 10 seconds per vehicle, while LOS F describes operations with delay in excess of 50 seconds per vehicle. For a signalized intersection, LOS A indicates operations with delay less than 10 seconds per vehicle and LOS F denotes operations with delay in excess of 80 seconds per vehicle.

Level Of Service (LOS)	Signalized Delay Range (average control delay in sec/veh)	Unsignalized Delay Range (average control delay in sec/veh)
Α	<=10	<=10
В	>10 and <=20	>10 and <=15
С	>20 and <=35	>15 and <=25
D	>35 and <=55	>25 and <=35
E	>55 and <=80	>35 and <=50
F	>80	>50

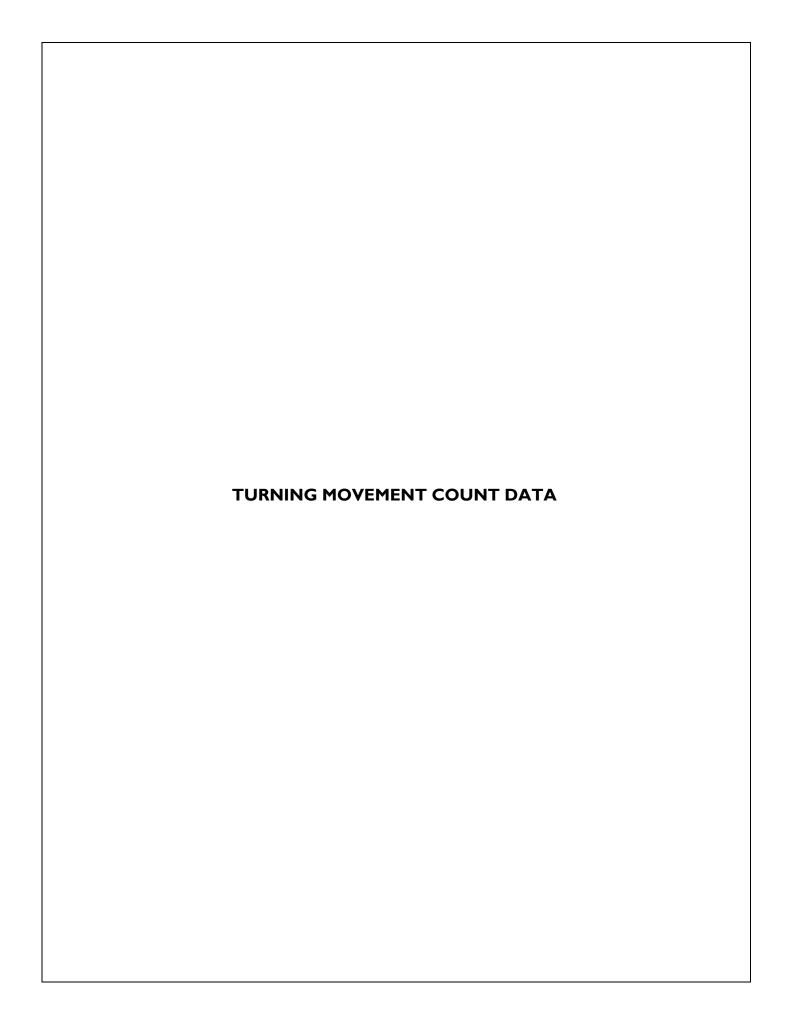
Source: Highway Capacity Manual, 6th Edition

# STONEFIELD

Table AI: Comparative Level of Service (Delay) Table

Township of Pequannock, Morris County, New Jersey X (n) = Level of Service (seconds of delay)

		Week	Weekday Arrival Peak Hour	Hour	Weekda	Weekday Dismissal Peak Hour	< Hour
		2022 Existing	2024 No-Build	2024 Build	2022 Existing	2024 No-Build	2024 Build
Intersection	Lane Group	Condition	Condition	Condition	Condition	Condition	Condition
	EB Left/Through/Right	C (34.9)	D (35.3)	D (35.7)	C (33.9)	C (33.9)	C (34.0)
	WB Left/Through/Right	C (28.1)	C (28:0)	C (27.8)	C (31.4)	C (31.3)	C (30.7)
Sunset Road (E/W) & Boulevard (N/S)	NB Left/Through/Right	A (9.4)	(8.8) A	B (10.4)	A (4.9)	A (5.0)	A (5.5)
	SB Left/Through/Right	A (8.3)	(9:8) A	A (9.0)	A (0.0)	A (0.0)	A (0.0)
	Overall	B (17.4)	B (17.7)	B (18.1)	B (16.5)	B (16.5)	B (17.1)
(3) CHOOK COME 6 (VV) = ) Fro a + com 3	EB Left/Through/Right	A (8.0)	A (8.0)	A (8.1)	A (7.8)	A (7.8)	A (7.8)
Subset $NOdd(E/VV) \propto NOdine Avenue (3)$	SB Left/Through/Right	B (14.1)	B (14.3)	B (14.5)	B (11.1)	B (11.2)	B (11.3)
Site Board (ENAN) NAVachburg Board (N)	EB Left/Through/Right			B (14.5)			A (7.8)
Sunset Noad (E/VV), VVasilbuill Noad (IV), & site WB Left/Through/	WB Left/Through/Right	A (8.3)	A (8.3)	A (8.3)	A (8.1)	A (8.1)	A (8.2)
Driveway (3)	NB Left/Through/Right	B (13.0)	B (13.1)	B (13.7)	B (11.6)	B (11.7)	B (12.0)
(2) 14)	WB Left/Right	D (32.5)	E (35.5)	E (39.5)	C (20.6)	C (21.3)	C (22.4)
Suitset $NOdd(vv) \otimes vvest Farkway (14/5)$	SB Left	A (9.1)	A (9.2)	A (9.3)	A (8.4)	A (8.5)	A (8.5)
Sunset Road (E/W) & Site Driveway (S)	SB Left/Right			B (14.3)			B (12.9)



92 Park Avenue, Rutherford, NJ 07070 201.340.4468 t. 201.340.4472 f.

Intersection of Sunset Road (E/W)

& Boulevard (N/S)

Pequannock, Morris County, New Jersey

Tuesday, June 7, 2022

File Name: RUT-220209.03

Site Code : 00220209 Start Date : 6/7/2022

Page No : I

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Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
06:30 AM	9	5	2	0	16	I	П	0	I	13	I	37	I	0	39	2	33	6	0	41	109
06:45 AM	7	13	6	I	27	3	13	2	0	18	4	49	2	I	56	2	59	15	0	76	177
Total	16	18	8	I	43	4	24	2	I	31	5	86	3	I	95	4	92	21	0	117	286
07:00 AM	19	22	10	0	51	I	22	1	3	27	- 11	56	I	2	70	1	37	29	0	67	215
07:15 AM	30	44	15	0	89	0	51	2	2	55	37	55	3	3	98	I	55	43	0	99	341
07:30 AM	15	55	8	3	81	2	17	3	- 1	23	7	91	16	5	119	12	80	7	0	99	322
07:45 AM	12	31	6	0	49	I	18	- 1	0	20	8	99	9	I	117	6	69	10	I	86	272
Total	76	152	39	3	270	4	108	7	6	125	63	301	29	П	404	20	241	89	I	351	1150
08:00 AM	8	21	10	0	39	3	П	6	2	22	5	73	3	0	81	3	73	7	- 1	84	226
08:15 AM	5	31	13	I	50	8	34	5	0	47	9	79	4	2	94	5	91	11	0	107	298
*** BREAK **	*																				
Total	13	52	23	I	89	П	45	П	2	69	14	152	7	2	175	8	164	18	I	191	524
*** BREAK **	*																				
02:00 PM	34	27	5	I	67	4	22	5	0	31	10	91	8	I	110	ı	57	10	1	69	277
02:15 PM	21	24	4	I	50	7	30	5	0	42	10	82	4	I	97	3	61	П	I	76	265
02:30 PM	27	28	6	0	61	2	18	5	- 1	26	7	100	10	0	117	3	57	13	- 1	74	278
02:45 PM	10	25	4	0	39	3	20	7	0	30	12	87	7	0	106	3	53	13	0	69	244
Total	92	104	19	2	217	16	90	22	I	129	39	360	29	2	430	10	228	47	3	288	1064
03:00 PM	22	21	7	0	50	I	24	4	0	29	10	112	7	0	129	2	70	8	0	80	288
03:15 PM	Ш	18	8	0	37	5	21	2	- 1	29	10	101	5	0	116	2	52	8	0	62	244
03:30 PM	12	25	2	0	39	2	25	0	0	27	12	88	8	0	108	6	80	15	0	101	275
03:45 PM	21	29	6	0	56	4	18	- 1	- 1	24	7	99	6	I	113	3	62	17	0	82	275
Total	66	93	23	0	182	12	88	7	2	109	39	400	26	I	466	13	264	48	0	325	1082
Grand Total	263	419	112	7	801	47	355	49	12	463	160	1299	94	17	1570	55	989	223	5	1272	4106
Apprch %	32.8	52.3	14	0.9		10.2	76.7	10.6	2.6		10.2	82.7	6	1.1		4.3	77.8	17.5	0.4		
Total %	6.4	10.2	2.7	0.2	19.5	1.1	8.6	1.2	0.3	11.3	3.9	31.6	2.3	0.4	38.2	1.3	24.1	5.4	0.1	31	
Auto	258	409	109	7	783	47	344	48	12	451	157	1250	92	17	1516	55	940	219	5	1219	3969
% Auto	98.1	97.6	97.3	100	97.8	100	96.9	98	100	97.4	98.1	96.2	97.9	100	96.6	100	95	98.2	100	95.8	96.7
HV	0	6	2	0	8	0	5	0	0	5	2	39	2	0	43	0	34	2	0	36	92
% HV	0	1.4	1.8	0	1	0	1.4	0	0	1.1	1.2	3	2.1	0	2.7	0	3.4	0.9	0	2.8	2.2
B/SB % B/SB	5 1.9	4 1	0.9	0	10 1.2	0	6 1.7	1 2	0	7 1.5	0.6	10 0.8	0	0	11 0.7	0	15 1.5	2 0.9	0	17 1.3	45 1.1
% D/3B	1.7	1	0.7	U	1.2	U	1.7	2	U	1.5	0.6	0.8	U	U	0.7	U	1.5	0.7	U	1.3	1.1

92 Park Avenue, Rutherford, NJ 07070 201.340.4468 t. 201.340.4472 f.

Intersection of Sunset Road (E/W)

& Boulevard (N/S)

Pequannock, Morris County, New Jersey

Tuesday, June 7, 2022

File Name: RUT-220209.03

Site Code : 00220209 Start Date : 6/7/2022

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			nset R					nset R				_	ouleva				_	ouleva			
		E	astbou	ınd			W	'estboι	ınd			No	orthbo	und			So	uthbo	und		
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
Peak Hour Analysis F																					
Peak Hour for				Begins a	it 07:00 A	λM															1
07:00 AM	19	22	10	0	51	I	22	- 1	3	27	Ш	56	I	2	70	I	37	29	0	67	215
07:15 AM	30	44	15	0	89	0	51	2	2	55	37	55	3	3	98	I	55	43	0	99	341
07:30 AM	15	55	8	3	81	2	17	3	I	23	7	91	16	5	119	12	80	7	0	99	322
07:45 AM	12	31	6	0	49	I	18	- 1	0	20	8	99	9	- 1	117	6	69	10	- 1	86	272
Total Volume	76	152	39	3	270	4	108	7	6	125	63	301	29	П	404	20	241	89	- 1	351	1150
% App. Total	28.1	56.3	14.4	1.1		3.2	86.4	5.6	4.8		15.6	74.5	7.2	2.7		5.7	68.7	25.4	0.3		
PHF	.633	.691	.650	.250	.758	.500	.529	.583	.500	.568	.426	.760	.453	.550	.849	.417	.753	.517	.250	.886	.843
Auto	72	150	38	3	263	4	102	6	6	118	62	278	29	П	380	20	225	86	I	332	1093
% Auto	94.7	98.7	97.4	100	97.4	100	94.4	85.7	100	94.4	98.4	92.4	100	100	94.1	100	93.4	96.6	100	94.6	95.0
HV	0	0	0	0	0	0	2	0	0	2	0	22	0	0	22	0	13	- 1	0	14	38
% HV	0	0	0	0	0	0	1.9	0	0	1.6	0	7.3	0	0	5.4	0	5.4	1.1	0	4.0	3.3
B/SB	4	2	- 1	0	7	0	4	- 1	0	5	- 1	- 1	0	0	2	0	3	2	0	5	19
% B/SB	5.3	1.3	2.6	0	2.6	0	3.7	14.3	0	4.0	1.6	0.3	0	0	0.5	0	1.2	2.2	0	1.4	1.7
Peak Hour An	alysis F	rom 02	2:15 PM	to 03:	00 PM - I	Peak I	of I														
Peak Hour for	· Entire	Interse	ection E	Begins a	t 02:15 F	PM															
02:15 PM	21	24	4	I	50	7	30	5	0	42	10	82	4	- 1	97	3	61	П	- 1	76	265
02:30 PM	27	28	6	0	61	2	18	5	i	26	7	100	10	0	117	3	57	13	- 1	74	278
02:45 PM	10	25	4	0	39	3	20	7	0	30	12	87	7	0	106	3	53	13	0	69	244
03:00 PM	22	21	7	0	50	Ī	24	4	0	29	10	112	7	0	129	2	70	8	0	80	288
Total Volume	80	98	21	Ī	200	13	92	21	ī	127	39	381	28	Ī	449	П	241	45	2	299	1075
% App. Total	40	49	10.5	0.5		10.2	72.4	16.5	0.8		8.7	84.9	6.2	0.2		3.7	80.6	15.1	0.7		
PHF	.741	.875	.750	.250	.820	.464	.767	.750	.250	.756	.813	.850	.700	.250	.870	.917	.861	.865	.500	.934	.933
Auto	80	96	20	ī	197	13	91	21	1	126	39	376	28	1	444	11	230	44	2	287	1054
% Auto	100	98.0	95.2	100	98.5	100	98.9	100	100	99.2	100	98.7	100	100	98.9	100	95.4	97.8	100	96.0	98.0
HV	0	2	I	0	3	0	I	0	0	1	0	4	0	0	4	0	9	1	0	10	18
% HV	0	2.0	4.8	0	1.5	0	1.1	0	0	0.8	0	1.0	0	0	0.9	0	3.7	2.2	0	3.3	1.7
B/SB	0	0	0	0	0	0	0	0	0	0	0	- 1	0	0	1	0	2	0	0	2	3
% B/SB	0	0	0	0	0	0	0	0	0	0	0	0.3	0	0	0.2	0	0.8	0	0	0.7	0.3

92 Park Avenue, Rutherford, NJ 07070 201.340.4468 t. 201.340.4472 f.

Intersection of Sunset Road (E/W), Washburn Road (N), & Roome Avenue (S) Pequannock, Morris County, New Jersey Tuesday, June 7, 2022 File Name : RUT-220209.02

Site Code : 00220209 Start Date : 6/7/2022

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# Groups Printed- Auto - HV - B/SB

		Su	nset R	oad			Su	nset R	oad			Was	hburn	Road			Roo	me Av	enue		
			astbou					estbou					orthbo					uthbo			
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
06:30 AM	0	15	0	0	15	0	19	0	0	19	0	0	0	I	I	T.	0	I	I	3	38
06:45 AM	- 1	19	0	0	20	0	32	0	0	32	0	0	2	2	4	2	0	0	0	2	58
Total	I	34	0	0	35	0	51	0	0	51	0	0	2	3	5	3	0	I	I	5	96
07:00 AM	2	43	3	0	48	1	55	5	0	61	3	0	2	2	7	0	I	0	0	1	117
07:15 AM	11	103	31	0	145	3	96	12	0	111	9	3	10	8	30	3	I	3	2	9	295
07:30 AM	2	55	10	2	69	L	27	0	0	28	2	0	4	0	6	5	0	0	0	5	108
07:45 AM	2	35		0	38	0	31	- 1	0	32	- 1	0	I	2	4	4	0		2	7	81
Total	17	236	45	2	300	5	209	18	0	232	15	3	17	12	47	12	2	4	4	22	601
08:00 AM	0	36	1	0	37	0	25	0	0	25	I	0	- 1	0	2	I	ı	0	- 1	3	67
08:15 AM *** BREAK **	I	32	I	0	34	2	42	2	0	46	I	I	I	2	5	6	0	3	0	9	94
Total	1	68	2	0	71	2	67	2	0	71	2	I	2	2	7	7	I	3	I	12	161
*** BREAK *	<b>*</b>																				
02:00 PM	2	42	1	0	45	ı	30	1	0	32	I	0	0	0	1	0	0	0	0	0	78
02:15 PM	0	30	3	0	33	3	33	2	0	38	I	0	3	3	7	3	0	I	2	6	84
02:30 PM	4	77	12	0	93	6	59	4	0	69	I	0	3	38	42	3	0	8	4	15	219
02:45 PM	7	83	58	0	148	2	57	2	0	61	4	0	3	21	28	3	0	8	6	17	254
Total	13	232	74	0	319	12	179	9	0	200	7	0	9	62	78	9	0	17	12	38	635
03:00 PM	3	72	4	0	79	3	58	0	0	61	I	0	2	10	13	- 1	0	- 1	2	4	157
03:15 PM	0	50	0	0	50	0	47	I	0	48	2	I	3	0	6	3	0	2	0	5	109
03:30 PM	0	55	2	0	57	3	31	4	0	38	0	2	2	0	4	2	0	I	0	3	102
03:45 PM	0	55	0	0	55	0	29	2	0	31	3	0	I	6	10	2	0	2	0	4	100
Total	3	232	6	0	241	6	165	7	0	178	6	3	8	16	33	8	0	6	2	16	468
Grand Total	35	802	127	2	966	25	67 I	36	0	732	30	7	38	95	170	39	3	31	20	93	1961
Apprch %	3.6	83	13.1	0.2		3.4	91.7	4.9	0		17.6	4.1	22.4	55.9		41.9	3.2	33.3	21.5		
Total %	1.8	40.9	6.5	0.1	49.3	1.3	34.2	1.8	0	37.3	1.5	0.4	1.9	4.8	8.7	2	0.2	1.6	- 1	4.7	
Auto	34	774	126	2	936	25	652	35	0	712	30	7	37	95	169	37	3	30	20	90	1907
% Auto	97.1	96.5	99.2	100	96.9	100	97.2	97.2	0	97.3	100	100	97.4	100	99.4	94.9	100	96.8	100	96.8	97.2
HV	I	10	0	0	11	0	9	- 1	0	10	0	0	I	0	1	- 1	0	0	0	I	23
% HV	2.9	1.2	0	0	1.1	0	1.3	2.8	0	1.4	0	0	2.6	0	0.6	2.6	0	0	0	1.1	1.2
B/SB	0	18	I	0	19	0	10	0	0	10	0	0	0	0	0	I	0	I	0	2	31
% B/SB	0	2.2	8.0	0	2	0	1.5	0	0	1.4	0	0	0	0	0	2.6	0	3.2	0	2.2	1.6

92 Park Avenue, Rutherford, NJ 07070 201.340.4468 t. 201.340.4472 f.

Intersection of Sunset Road (E/W), Washburn Road (N), & Roome Avenue (S) Pequannock, Morris County, New Jersey Tuesday, June 7, 2022 File Name : RUT-220209.02 Site Code : 00220209

Start Date : 6/7/2022

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1		Su	nset R	oad			Su	nset R	oad			Was	hburn	Road			Roo	me Av	enue		
		E	astbou	nd			W	estbou	und			No	rthbo	und			So	uthbo	und		
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
Peak Hour Analysis F																					
Peak Hour for	Entire		ction E	Begins a		MΑ															
07:00 AM	2	43	3	0	48	I	55	5	0	61	3	0	2	2	7	0	I	0	0	1	117
07:15 AM	- 11	103	31	0	145	3	96	12	0	111	9	3	10	8	30	3	I	3	2	9	295
07:30 AM	2	55	10	2	69	- 1	27	0	0	28	2	0	4	0	6	5	0	0	0	5	108
07:45 AM	2	35	1	0	38	0	31	- 1	0	32	1	0	1	2	4	4	0	1	2	7	81
Total Volume	17	236	45	2	300	5	209	18	0	232	15	3	17	12	47	12	2	4	4	22	601
% App. Total	5.7	78.7	15	0.7		2.2	90.1	7.8	0		31.9	6.4	36.2	25.5		54.5	9.1	18.2	18.2		
PHF	.386	.573	.363	.250	.517	.417	.544	.375	.000	.523	.417	.250	.425	.375	.392	.600	.500	.333	.500	.611	.509
Auto	17	228	45	2	292	5	201	18	0	224	15	3	17	12	47	12	2	4	4	22	585
% Auto	100	96.6	100	100	97.3	100	96.2	100	0	96.6	100	100	100	100	100	100	100	100	100	100	97.3
HV	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	2
% HV	0	0	0	0	0	0	1.0	0	0	0.9	0	0	0	0	0	0	0	0	0	0	0.3
B/SB	0	8	0	0	8	0	6	0	0	6	0	0	0	0	0	0	0	0	0	0	14
% B/SB	0	3.4	0	0	2.7	0	2.9	0	0	2.6	0	0	0	0	0	0	0	0	0	0	2.3
Peak Hour An	nalysis F	rom 02	LEDM	to 02:0	\∩ DM	Poak L	of I														
	•		::15 PIY	10 03.0	/U FI'I - I	Car I	01 1														
Peak Hour for	<sup>-</sup> Entire						01 1														
Peak Hour for 02:15 PM	r Entire						33	2	0	38	ı	0	3	3	7	3	0	ı	2	6	84
02:15 PM	0	Interse 30	ection E	Begins a	t 02:15 F 33	PM 3	33		-		I			-		3		I 8		6 15	
02:15 PM 02:30 PM	I .	Interse 30 77	ction E	Begins a	t 02:15 F	M		4	0 0 0	38 69 61	       	0 0 0	3	38	7 42 28	3 3 3	0 0 0	I 8 8	4	6 15 17	219
02:15 PM 02:30 PM 02:45 PM	0 4	30 77 83	ection B 3 12 58	Begins a 0 0 0	t 02:15 F 33 93	PM 3	33 59 57	4 2	0	69 61	       	0	3	-	42 28	3	0	8	4 6	15 17	219 254
02:15 PM 02:30 PM 02:45 PM 03:00 PM	0 4 7 3	30 77 83 72	3 12 58 4	egins a 0 0 0 0	t 02:15 F 33   93 148 79	3 6 2 3	33 59 57 58	4 2 0	0 0	69 61 61	İ	0 0 0	3 3 2	38 21 10	42 28 13	3 3 I	0 0 0	8 I	4 6 2	15 17 4	219 254 157
02:15 PM 02:30 PM 02:45 PM 03:00 PM Total Volume	0 4 7 3	30 77 83 72 262	3 12 58 4 77	0 0 0 0 0	t 02:15 F 33 93 148	3 6 2 3	33 59 57 58 207	4 2 0 8	0 0 0	69 61	7	0 0 0	3 3 2	38 21 10 72	42 28	3 3 1	0 0 0	8 1 18	4 6 2 14	15 17	219 254
02:15 PM 02:30 PM 02:45 PM 03:00 PM Total Volume % App. Total	0 4 7 3 14 4	30 77 83 72 262 74.2	21.8 ection E	Begins a	33   93   148   79   353	3 6 2 3 14 6.1	33 59 57 58 207 90.4	4 2 0 8 3.5	0 0 0 0	69 61 61 229	7 7.8	0 0 0	3 3 2 11 12.2	38 21 10 72 80	42 28 13 90	3 3 1 10 23.8	0 0 0 0	8 I 18 42.9	4 6 2 14 33.3	15 17 4 42	219 254 157 714
02:15 PM 02:30 PM 02:45 PM 03:00 PM Total Volume % App. Total PHF	0 4 7 3 14 4 .500	30 77 83 72 262 74.2	21.8 .332	Begins a 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	33 93 148 79 353	3 6 2 3 14 6.1	33 59 57 58 207 90.4 .877	4 2 0 8 3.5 .500	0 0 0 0 0	69 61 61 229	7 7.8 .438	0 0 0 0 0	3 3 2 11 12.2 .917	38 21 10 72 80 .474	42 28 13 90	3 3 1	0 0 0 0	8 1 18 42.9 .563	4 6 2 14 33.3 .583	15 17 4 42	219 254 157 714
02:15 PM 02:30 PM 02:45 PM 03:00 PM Total Volume % App. Total PHF Auto	0 4 7 3 14 4 .500	30 77 83 72 262 74.2 .789 257	3 12 58 4 77 21.8 .332	8egins a 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	33   93   148   79   353   .596   347	3 6 2 3 14 6.1 .583	33 59 57 58 207 90.4 .877	4 2 0 8 3.5 .500	0 0 0 0 0 .000	69 61 61 229 .830 221	7 7.8 .438	0 0 0 0 0 .000	3 3 2 11 12.2 .917	38 21 10 72 80 .474 72	42 28 13 90 .536 90	3 3 1 10 23.8 .833	0 0 0 0 0	8 1 18 42.9 .563	4 6 2 14 33.3 .583	15 17 4 42 .618 41	219 254 157 714 .703 699
02:15 PM 02:30 PM 02:45 PM 03:00 PM Total Volume % App. Total PHF Auto % Auto	0 4 7 3 14 4 .500	30 77 83 72 262 74.2 .789 257 98.1	3 12 58 4 77 21.8 .332 76 98.7	Begins a 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	t 02:15 F 33   93   148   79   353   .596   347   98.3	3 6 2 3 14 6.1 .583 14 100	33 59 57 58 207 90.4 .877 199 96.1	4 2 0 8 3.5 .500 8 100	0 0 0 0 0 .000	69 61 61 229 .830 221 96.5	7 7.8 .438	0 0 0 0 0 .000	3 3 2 11 12.2 .917 11 100	38 21 10 72 80 .474 72 100	42 28 13 90 .536 90 100	3 3 1 10 23.8 .833	0 0 0 0 0 .000	8 1 18 42.9 .563 18 100	4 6 2 14 33.3 .583 14 100	15 17 4 42	219 254 157 714 .703 699 97.9
02:15 PM 02:30 PM 02:45 PM 03:00 PM Total Volume % App. Total PHF Auto	0 4 7 3 14 4 .500	30 77 83 72 262 74.2 .789 257	3 12 58 4 77 21.8 .332	8egins a 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	33   93   148   79   353   .596   347	3 6 2 3 14 6.1 .583	33 59 57 58 207 90.4 .877	4 2 0 8 3.5 .500	0 0 0 0 0 .000	69 61 61 229 .830 221	7 7.8 .438 7 100	0 0 0 0 0 .000	3 3 2 11 12.2 .917	38 21 10 72 80 .474 72	42 28 13 90 .536 90	3 3 1 10 23.8 .833 9 90.0	0 0 0 0 0	8 1 18 42.9 .563	4 6 2 14 33.3 .583	15 17 4 42 .618 41 97.6	219 254 157 714 .703 699
02:15 PM 02:30 PM 02:45 PM 03:00 PM Total Volume % App. Total PHF Auto % Auto HV	0 4 7 3 14 4 .500 14 100 0	30 77 83 72 262 74.2 .789 257 98.1 2	3 12 58 4 77 21.8 .332 76 98.7 0	8egins a 0 0 0 0 0 0 0 0 0 0	2 02:15 F 33	3 6 2 3 14 6.1 .583 14 100 0	33 59 57 58 207 90.4 .877 199 96.1	4 2 0 8 3.5 .500 8 100 0	0 0 0 0 0 0 .000	.830 221 96.5 5	7 7.8 .438 7 100 0	0 0 0 0 0 .000	3 3 2 11 12.2 .917 11 100 0	38 21 10 72 80 .474 72 100 0	42 28 13 90 .536 90 100 0	3 3 1 10 23.8 .833 9 90.0	0 0 0 0 0 .000	8 1 18 42.9 .563 18 100 0	4 6 2 14 33.3 .583 14 100 0	.618 41 97.6	219 254 157 714 .703 699 97.9 8

92 Park Avenue, Rutherford, NJ 07070 201.340.4468 t. 201.340.4472 f.

Intersection of Sunset Road (W)

& West Parkway (N/S)

Pequannock, Morris County, New Jersey

Tuesday, June 7, 2022

File Name: RUT-220209.01

Site Code : 00220209 Start Date : 6/7/2022

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Groups Printed- Auto - HV - B/SB

				G	roups Pri	nted- Aut		3/SB					
		Sunset				West Pa				West Pa	-		
		Westb				Northb				Southb			
Start Time	Left	Right	Peds	App. Total	Thru	Right	Peds	App. Total	Left	Thru	Peds	App. Total	Int. Total
06:30 AM	12	7	0	19	15	4	0	19	8	63	0	71	109
06:45 AM	14	3	I	18	14	П	0	25	13	80	0	93	136
Total	26	10	I	37	29	15	0	44	21	143	0	164	245
07:00 AM	15	6	1	22	14	26	0	40	26	53	0	79	141
07:15 AM	18	7	0	25	33	138	0	171	52	69	0	121	317
07:30 AM	14	10	3	27	42	14	0	56	29	72	0	101	184
07:45 AM	22	9	I	32	39	22	0	61	20	96	I	117	210
Total	69	32	5	106	128	200	0	328	127	290	I	418	852
08:00 AM	11	9	1	21	31	11	0	42	28	87	0	115	178
08:15 AM *** BREAK ***	15	22	I	38	40	10	0	50	25	74	0	99	187
Total	26	31	2	59	71	21	0	92	53	161	0	214	365
*** BREAK ***													
02:00 PM	12	8	1	21	40	31	1	72	16	53	0	69	162
02:15 PM	16	9	I	26	43	17	I	61	22	46	0	68	155
02:30 PM	31	12	4	47	48	52	0	100	33	73	2	108	255
02:45 PM	48	26	0	74	42	37	I	80	21	98	0	119	273
Total	107	55	6	168	173	137	3	313	92	270	2	364	845
03:00 PM	19	26	3	48	69	47	0	116	19	48	2	69	233
03:15 PM	18	19	0	37	50	32	0	82	17	58	0	75	194
03:30 PM	12	12	3	27	50	30	0	80	24	64	0	88	195
03:45 PM	22	12	0	34	47	28	0	75	12	64	0	76	185
Total	71	69	6	146	216	137	0	353	72	234	2	308	807
Grand Total	299	197	20	516	617	510	3	1130	365	1098	5	1468	3114
Apprch %	57.9	38.2	3.9		54.6	45.I	0.3		24.9	74.8	0.3		
Total %	9.6	6.3	0.6	16.6	19.8	16.4	0.1	36.3	11.7	35.3	0.2	47. I	
Auto	295	188	20	503	596	501	3	1100	343	1071	5	1419	3022
% Auto	98.7	95.4	100	97.5	96.6	98.2	100	97.3	94	97.5	100	96.7	97
HV	I	3	0	4	15	6	0	21	7	21	0	28	53
% HV	0.3	1.5	0	0.8	2.4	1.2	0	1.9	1.9	1.9	0	1.9	1.7
B/SB	3	6	0	9	6	3	0	9	15	6	0	21	39
% B/SB	I	3	0	1.7	I	0.6	0	0.8	4.1	0.5	0	1.4	1.3

92 Park Avenue, Rutherford, NJ 07070 201.340.4468 t. 201.340.4472 f.

Intersection of Sunset Road (W)

& West Parkway (N/S)

Pequannock, Morris County, New Jersey

Tuesday, June 7, 2022

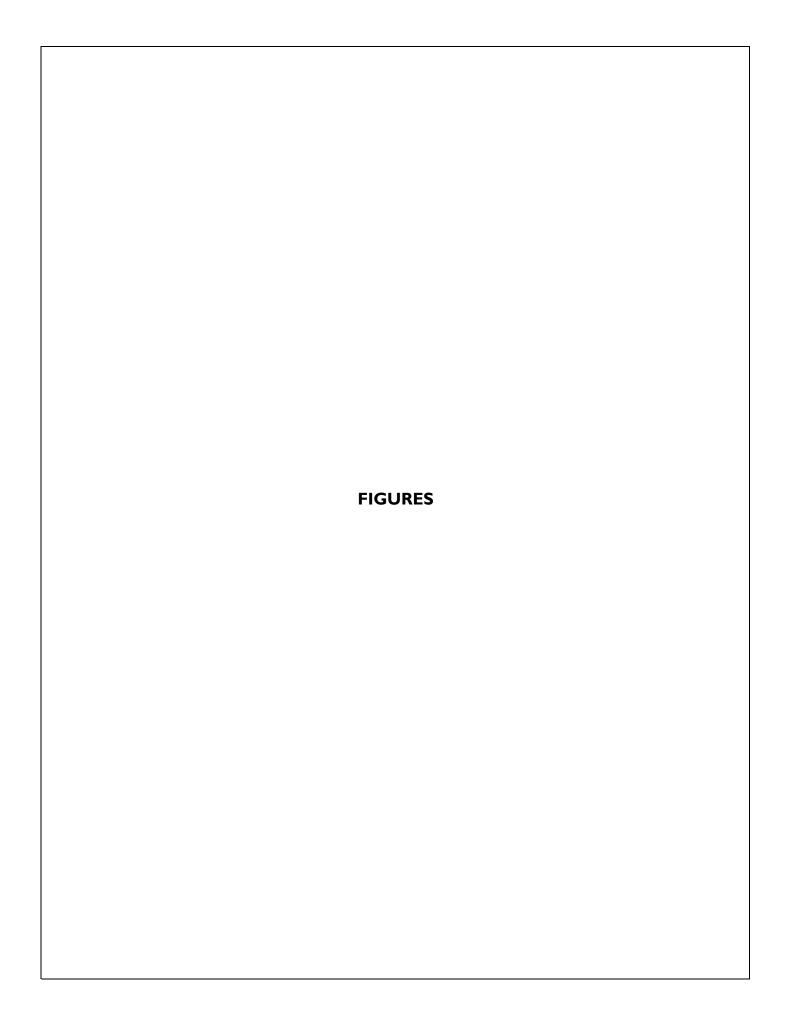
File Name: RUT-220209.01

Site Code : 00220209

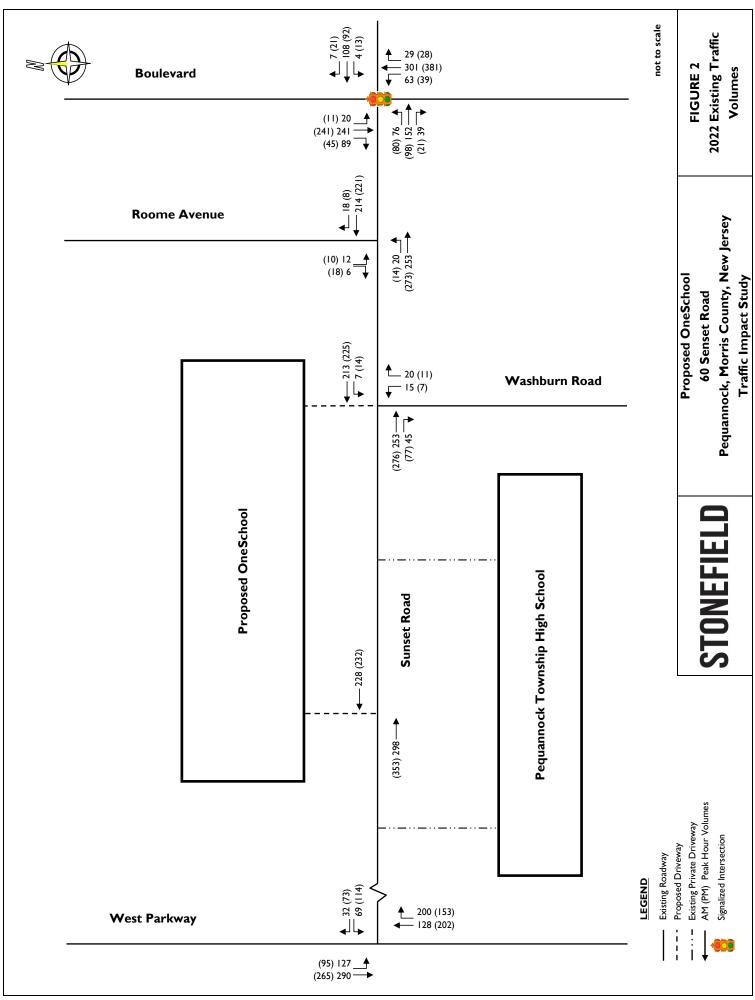
Start Date : 6/7/2022

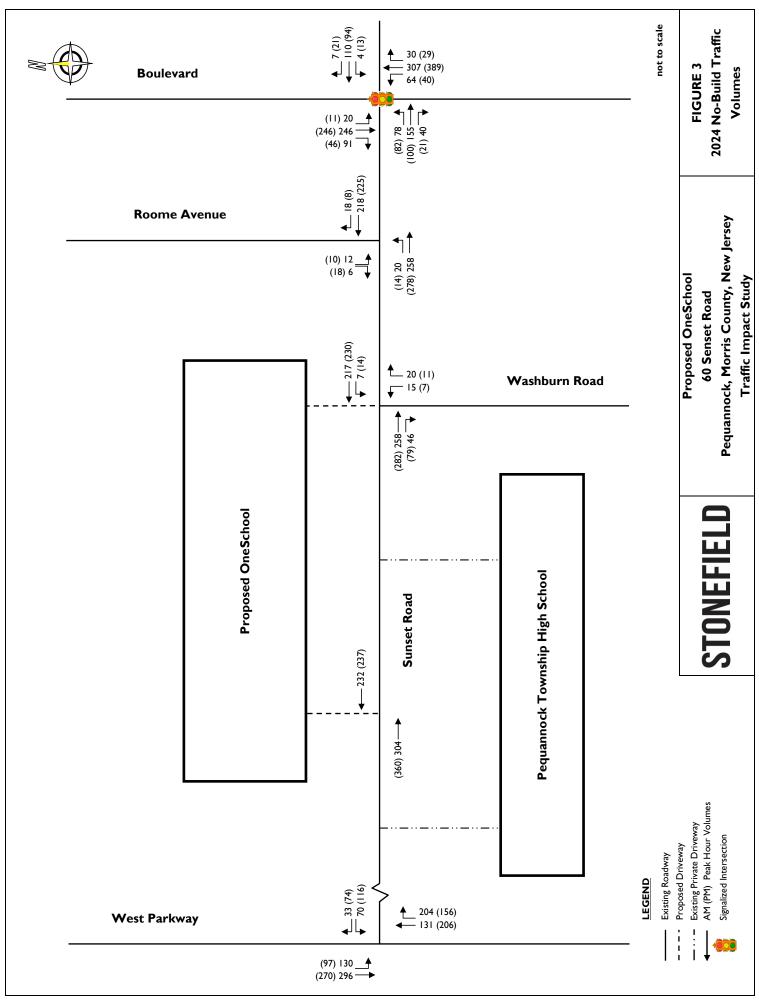
Page No : 2

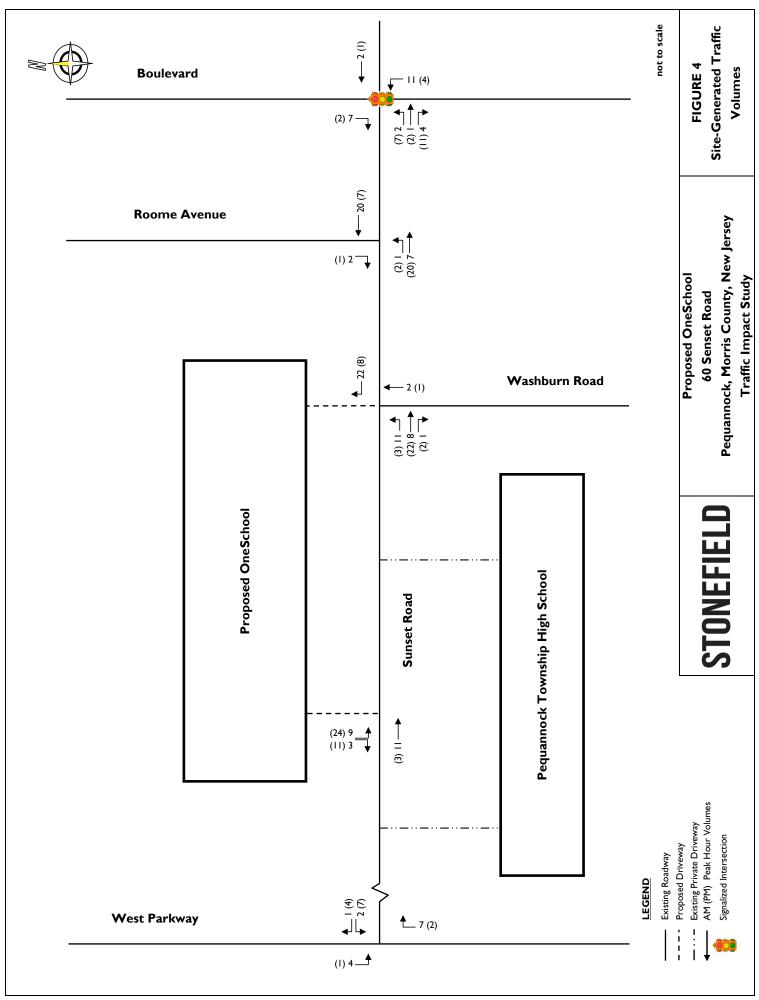
		Sunset	Road			West Pa	rkway			West Pa	arkway		
		Westh	ound			Northb	ound			South	ound		
Start Time	Left	Right	Peds	App. Total	Thru	Right	Peds	App. Total	Left	Thru	Peds	App. Total	Int. Tota
eak Hour Analysis From 07:0													
eak Hour for Entire I		•	07:00 AM	1								1	
07:00 AM	15	6	I	22	14	26	0	40	26	53	0	79	14
07:15 AM	18	7	0	25	33	138	0	171	52	69	0	121	317
07:30 AM	14	10	3	27	42	14	0	56	29	72	0	101	184
07:45 AM	22	9	I	32	39	22	0	61	20	96	I	117	210
Total Volume	69	32	5	106	128	200	0	328	127	290	I	418	852
% App. Total	65.1	30.2	4.7		39	61	0		30.4	69.4	0.2		
PHF	.784	.800	.417	.828	.762	.362	.000	.480	.611	.755	.250	.864	.672
Auto	67	28	5	100	123	199	0	322	121	279	I	401	823
% Auto	97.1	87.5	100	94.3	96.1	99.5	0	98.2	95.3	96.2	100	95.9	96.6
HV	0	I	0	1	I	I	0	2	0	7	0	7	10
% HV	0	3.1	0	0.9	8.0	0.5	0	0.6	0	2.4	0	1.7	1.2
B/SB	2	3	0	5	4	0	0	4	6	4	0	10	19
% B/SB	2.9	9.4	0	4.7	3.1	0	0	1.2	4.7	1.4	0	2.4	2.2
eak Hour Analysis Fr	om 02:15 P	M to 03:00	PM - Peak	I of I									
eak Hour for Entire I	ntersection	Begins at (	02:15 PM										
02:15 PM	16	9	I	26	43	17	I	61	22	46	0	68	155
02:30 PM	31	12	4	47	48	52	0	100	33	73	2	108	255
02:45 PM	48	26	0	74	42	37	I	80	21	98	0	119	273
03:00 PM	19	26	3	48	69	47	0	116	19	48	2	69	233
Total Volume	114	73	8	195	202	153	2	357	95	265	4	364	916
% App. Total	58.5	37.4	4.1		56.6	42.9	0.6		26.1	72.8	1.1		
	.594	.702	.500	.659	.732	.736	.500	.769	.720	.676	.500	.765	.839
PHF				100	196	151	2	349	91	262	4	357	
PHF Auto	114	70	8	192	170								898
	114	70 95.9	8 100	98.5	97.0	98.7	100	97.8	95.8	98.9	100	98.1	
Auto							100 0	97.8 5	95.8 I	98.9 3	100 0	98.1 4	98.0
Auto % Auto	100	95.9	100		97.0	98.7							98.0 10
Auto % Auto HV	100	95.9 I	100	98.5 I	97.0 4	98.7 I	0	5	I	3	0	4	898 98.0 1.1 8

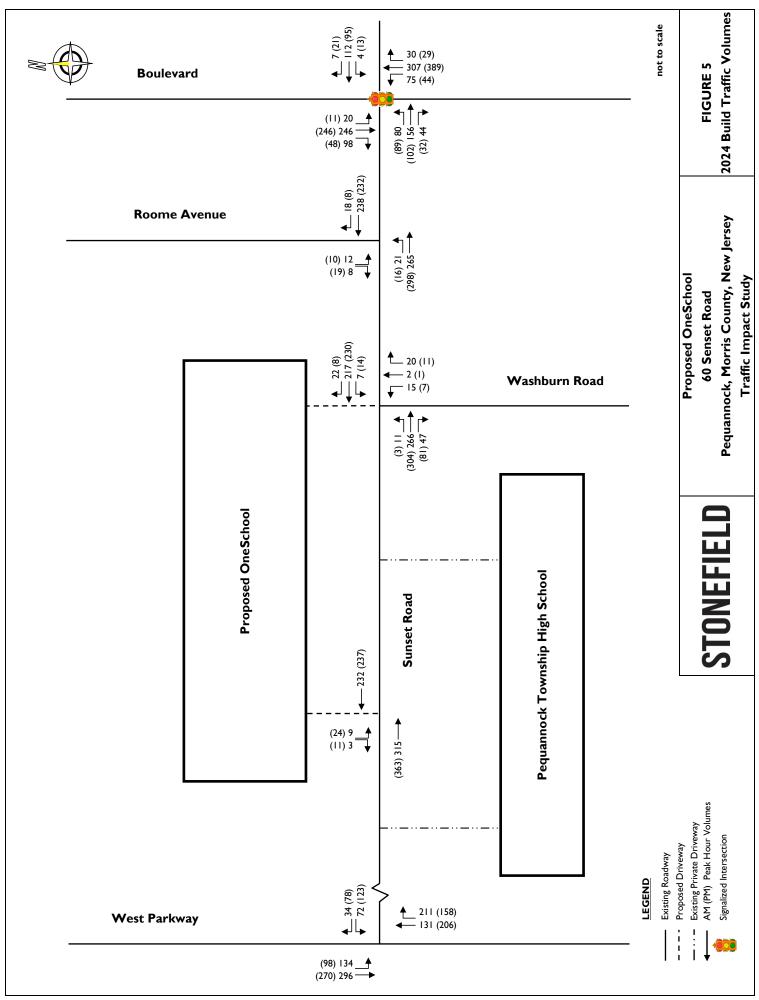


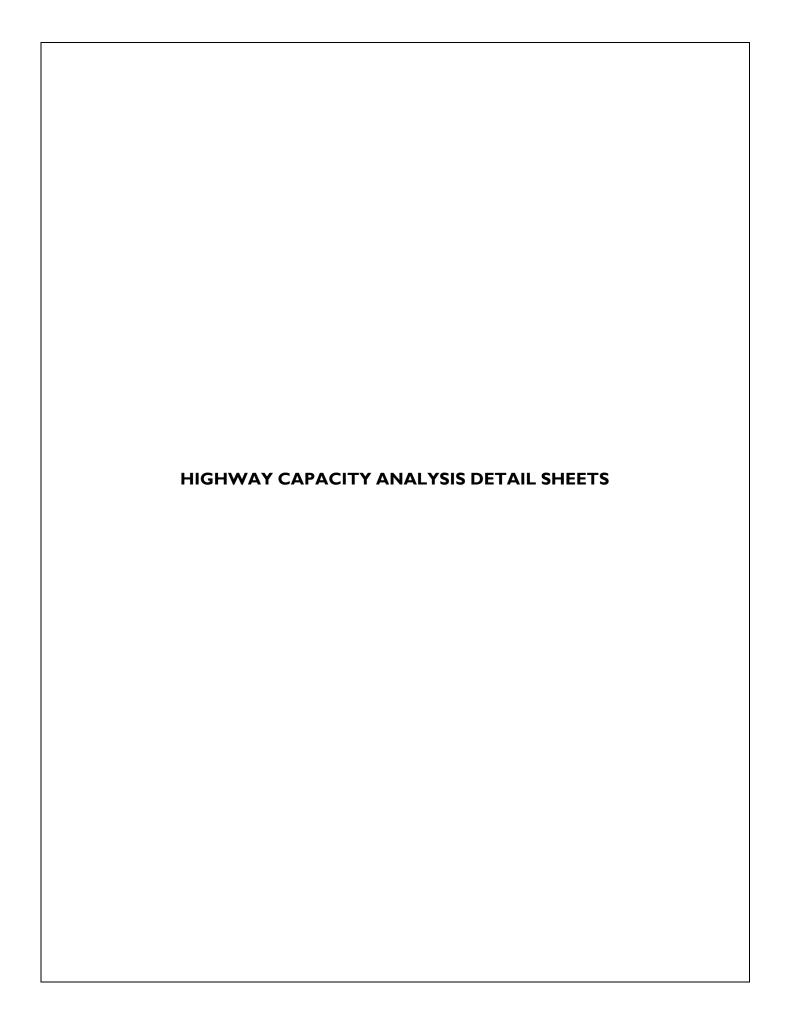












	۶	<b>→</b>	*	•	<b>←</b>	4	1	<b>†</b>	<b>/</b>	<b>&gt;</b>	Ţ	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Volume (veh/h)	76	152	39	4	108	7	63	301	29	20	241	89
Future Volume (veh/h)	76	152	39	4	108	7	63	301	29	20	241	89
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	0.98		0.98	0.99		0.98	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	2051	2051	2034	2100	2018	1936	2067	1969	2100	2100	1985	2034
Adj Flow Rate, veh/h	112	224	41	6	159	9	93	443	37	29	354	47
Peak Hour Factor	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68
Percent Heavy Veh, %	3	3	4	0	5	10	2	8	0	0	7	4
Cap, veh/h	167	274	47	47	453	25	187	875	70	87	994	127
Arrive On Green	0.24	0.24	0.24	0.24	0.24	0.24	0.62	0.62	0.62	0.62	0.62	0.62
Sat Flow, veh/h	472	1130	196	22	1866	103	224	1408	113	70	1599	205
Grp Volume(v), veh/h	377	0	0	174	0	0	573	0	0	430	0	0
Grp Sat Flow(s),veh/h/ln	1798	0	0	1991	0	0	1745	0	0	1874	0	0
Q Serve(g_s), s	11.2	0.0	0.0	0.0	0.0	0.0	4.6	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	17.6	0.0	0.0	6.4	0.0	0.0	14.8	0.0	0.0	9.5	0.0	0.0
Prop In Lane	0.30		0.11	0.03		0.05	0.16		0.06	0.07		0.11
Lane Grp Cap(c), veh/h	489	0	0	526	0	0	1132	0	0	1208	0	0
V/C Ratio(X)	0.77	0.00	0.00	0.33	0.00	0.00	0.51	0.00	0.00	0.36	0.00	0.00
Avail Cap(c_a), veh/h	714	0	0	779	0	0	1132	0	0	1208	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	31.7	0.0	0.0	27.8	0.0	0.0	9.0	0.0	0.0	8.1	0.0	0.0
Incr Delay (d2), s/veh	3.1	0.0	0.0	0.4	0.0	0.0	0.4	0.0	0.0	0.2	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	12.3	0.0	0.0	5.4	0.0	0.0	8.6	0.0	0.0	6.0	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	34.9	0.0	0.0	28.1	0.0	0.0	9.4	0.0	0.0	8.3	0.0	0.0
LnGrp LOS	С	Α	Α	С	Α	Α	Α	Α	Α	Α	Α	A
Approach Vol, veh/h		377			174			573			430	
Approach Delay, s/veh		34.9			28.1			9.4			8.3	
Approach LOS		С			С			Α			Α	
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		61.0		27.5		61.0		27.5				
Change Period (Y+Rc), s		6.0		6.0		6.0		6.0				
Max Green Setting (Gmax), s		55.0		33.0		55.0		33.0				
Max Q Clear Time (g_c+l1), s		16.8		19.6		11.5		8.4				
Green Ext Time (p_c), s		4.3		1.9		2.9		0.9				
Intersection Summary												
HCM 6th Ctrl Delay			17.4									
HCM 6th LOS			В									

Intersection						
Int Delay, s/veh	0.8					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	LDL	4	1∌	וטיי	₩.	אופט
Traffic Vol, veh/h	20	253	214	18	12	6
Future Vol, veh/h	20	253	214	18	12	6
Conflicting Peds, #/hr	4	0	0	4	0	2
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None		None	- Stop	None
Storage Length	_	-	_	-	0	-
Veh in Median Storage		0	0	_	0	_
Grade, %	, π -	0	0	<u> </u>	0	_
Peak Hour Factor	68	68	68	68	68	68
Heavy Vehicles, %	0	3	4	00	0	0
Mvmt Flow	29	372	315	26	18	9
IVIVIIIL FIOW	29	312	313	20	10	9
Major/Minor N	Major1	N	Major2	N	Minor2	
Conflicting Flow All	345	0	-	0	762	334
Stage 1	-	_	-	-	332	-
Stage 2	-	-	-	-	430	-
Critical Hdwy	4.1	-	-	-	6.6	5.7
Critical Hdwy Stg 1	_	_	-	_	5.4	_
Critical Hdwy Stg 2	-	_	-	-	5.4	_
Follow-up Hdwy	2.2	_	_	_	3.5	3.3
Pot Cap-1 Maneuver	1225	_	_	_	360	746
Stage 1	-	_	_	_	731	-
Stage 2	_	_	_	_	660	_
Platoon blocked, %	_	_	_	_	000	_
Mov Cap-1 Maneuver	1220	-	-		346	742
Mov Cap-1 Maneuver		-	_	_	346	142
	-	-	-			
Stage 1	-	_	-	-	706	-
Stage 2	-	-	-	-	657	-
Approach	EB		WB		SB	
HCM Control Delay, s	0.6		0		14.1	
HCM LOS					В	
J 200						
				=		
Minor Lane/Major Mvm	t	EBL	EBT	WBT	WBR:	
Capacity (veh/h)		1220	-	-	-	
HCM Lane V/C Ratio		0.024	-	-		0.063
HCM Control Delay (s)		8	0	-	-	14.1
HCM Lane LOS		Α	Α	-	-	В
HCM 95th %tile Q(veh)		0.1	-	-	-	0.2
. 13111 3311 701113 ((1011)		J. 1				J. <u>L</u>

Intersection													
Int Delay, s/veh	0.9												
Movement		EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations			4			4			4				
Traffic Vol, veh/h		0	253	45	7	213	0	15	0	20	0	0	0
Future Vol, veh/h		0	253	45	7	213	0	15	0	20	0	0	0
Conflicting Peds, #/hr		0	0	0	0	0	0	0	0	0	0	0	0
Sign Control		Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized		-	-	None	-	-	None	-	-	None	-	-	None
Storage Length		-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	#	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %		-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor		92	68	68	68	68	92	68	92	68	92	92	92
Heavy Vehicles, %		2	0	3	4	0	2	0	2	0	2	2	2
Mvmt Flow		0	372	66	10	313	0	22	0	29	0	0	0
Major/Minor	١	/lajor1		١	Major2		1	Minor1					
Conflicting Flow All		313	0	0	438	0	0	738	738	405			
Stage 1		-	-	-	-	-	-	405	405	-			
Stage 2		-	-	-	-	-	-	333	333	-			
Critical Hdwy		4.12	-	-	4.14	-	-	6.4	6.52	6.2			
Critical Hdwy Stg 1		-	-	-	-	-	-	5.4	5.52	-			
Critical Hdwy Stg 2		-	-	-	-	-	-	5.4	5.52	-			
Follow-up Hdwy		2.218	-	-	2.236	-	-	3.5	4.018	3.3			
Pot Cap-1 Maneuver		1247	-	-	1111	-	-	388	346	650			
Stage 1		-	-	-	-	-	-	678	598	-			
Stage 2		-	-	-	-	-	-	731	644	-			
Platoon blocked, %			-	-		-	-						
Mov Cap-1 Maneuver		1247	-	-	1111	-	-	384	0	650			
Mov Cap-2 Maneuver		-	-	-	-	-	-	384	0	-			
Stage 1		-	-	-	-	-	-	678	0	-			
Stage 2		-	-	-	-	-	-	723	0	-			
Approach		EB			WB			NB					
HCM Control Delay, s		0			0.3			13					
HCM LOS								В					
Minor Lane/Major Mvmt	N	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR					
Capacity (veh/h)		501	1247	-	-	1111		-					
HCM Lane V/C Ratio		0.103	-	-		0.009	-	-					
HCM Control Delay (s)		13	0	-	-	8.3	0	-					
HCM Lane LOS		В	Α	-	-	Α	Α	-					
HCM 95th %tile Q(veh)		0.3	0	-	-	0	-	-					
<u> </u>													

Intersection						
Int Delay, s/veh	6.9					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	W		7		<u> </u>	<u> </u>
Traffic Vol, veh/h	69	32	128	200	127	290
Future Vol, veh/h	69	32	128	200	127	290
Conflicting Peds, #/hr	1	0	0	5	5	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-		-	None
Storage Length	0	-	<u>-</u>	-	100	-
Veh in Median Storage		_	0	_	-	0
Grade, %	5, # 0 0	_	0	_	_	0
Peak Hour Factor	68	25	68	68	68	68
Heavy Vehicles, %	2	11	5	1	4	4
Mvmt Flow	101	128	188	294	187	426
Major/Minor I	Minor1	Ŋ	Major1	1	Major2	
Conflicting Flow All	1141	340	0	0	487	0
Stage 1	340	_	_	_	_	_
Stage 2	801	_	_	_	_	_
Critical Hdwy	5.9	5.8	_	_	4.14	_
Critical Hdwy Stg 1	5.42	-	_	_	T. IT	_
	5.42	_			-	
Critical Hdwy Stg 2			-	-		
Follow-up Hdwy	3.518		-			-
Pot Cap-1 Maneuver	262	716	-	-	1066	-
Stage 1	721	-	-		_	-
Stage 2	442	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	215	713	-	-	1061	-
Mov Cap-2 Maneuver	215	-	-	-	-	-
Stage 1	717	_	-	-	_	_
Stage 2	364	_	_	_	_	_
G						
	) A / D		NID		0.0	
Approach	WB		NB		SB	
HCM Control Delay, s	32.5		0		2.8	
HCM LOS	D					
Minor Lane/Major Mvm	nt	NBT	NRRV	VBLn1	SBL	SBT
Capacity (veh/h)	ic .	IIDI	INDIN	352	1061	ODT
HCM Lane V/C Ratio		-	-	0.652		-
						-
HCM Control Delay (s)		-	-	32.5	9.1	-
		-	_	D	Α	-
HCM Lane LOS HCM 95th %tile Q(veh)				4.4	0.6	

	٠	<b>→</b>	•	•	•	•	1	<b>†</b>	<b>/</b>	<b>&gt;</b>	<b>↓</b>	-√
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Volume (veh/h)	80	98	21	13	92	21	39	381	28	11	241	45
Future Volume (veh/h)	80	98	21	13	92	21	39	381	28	11	241	45
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	0.98		0.96	0.98		0.96	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	2100	2067	1772	2100	2084	2100	2051	2100	2034	2100	2002	2100
Adj Flow Rate, veh/h	90	110	12	15	103	23	44	428	27	12	271	-13
Peak Hour Factor	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Percent Heavy Veh, %	0	2	20	0	1	0	3	0	4	0	6	0
Cap, veh/h	167	153	15	67	233	49	129	1244	76	73	1067	0
Arrive On Green	0.15	0.15	0.15	0.15	0.15	0.15	0.70	0.70	0.70	0.70	0.70	0.00
Sat Flow, veh/h	685	1026	103	109	1563	326	113	1782	108	38	2038	-95
Grp Volume(v), veh/h	212	0	0	141	0	0	499	0	0	0	0	0
Grp Sat Flow(s),veh/h/ln	1813	0	0	1998	0	0	2004	0	0	0	0	0
Q Serve(g_s), s	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	8.6	0.0	0.0	5.1	0.0	0.0	7.5	0.0	0.0	0.0	0.0	0.0
Prop In Lane	0.42		0.06	0.11		0.16	0.09		0.05	0.04		-0.05
Lane Grp Cap(c), veh/h	336	0	0	349	0	0	1449	0	0	0	0	0
V/C Ratio(X)	0.63	0.00	0.00	0.40	0.00	0.00	0.34	0.00	0.00	0.00	0.00	0.00
Avail Cap(c_a), veh/h	788	0	0	864	0	0	1449	0	0	0	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d), s/veh	32.0	0.0	0.0	30.6	0.0	0.0	4.7	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	2.0	0.0	0.0	0.8	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	7.0	0.0	0.0	4.4	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0
Unsig. Movement Delay, s/veh		0.0	0.0	24.4	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0
LnGrp Delay(d),s/veh	33.9	0.0	0.0	31.4	0.0	0.0	4.9	0.0	0.0	0.0	0.0	0.0
LnGrp LOS	С	A 040	A	С	A 444	A	A	A 400	A	A	A	A
Approach Vol, veh/h		212			141			499			0	
Approach LOC		33.9			31.4			4.9			0.0	
Approach LOS		С			С			Α				
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		61.0		17.8		61.0		17.8				
Change Period (Y+Rc), s		6.0		6.0		6.0		6.0				
Max Green Setting (Gmax), s		55.0		33.0		55.0		33.0				
Max Q Clear Time (g_c+l1), s		9.5		10.6		0.0		7.1				
Green Ext Time (p_c), s		3.4		1.2		0.0		0.7				
Intersection Summary												
HCM 6th Ctrl Delay			16.5									
HCM 6th LOS			В									

Intersection						
Int Delay, s/veh	0.8					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		4	<u></u>		W	
Traffic Vol, veh/h	14	273	221	8	10	18
Future Vol, veh/h	14	273	221	8	10	18
Conflicting Peds, #/hr	4	0	0	4	0	2
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-		-	None
Storage Length	_	-	_	-	0	-
Veh in Median Storage	e.# -	0	0	_	0	_
Grade, %	-, π	0	0	_	0	_
Peak Hour Factor	89	89	89	89	89	89
			3			
Heavy Vehicles, %	0	2		0	10	0
Mvmt Flow	16	307	248	9	11	20
Major/Minor	Major1	ı	Major2		Minor2	
Conflicting Flow All	261	0	-	0	596	259
Stage 1	_	-	-	-	257	-
Stage 2	_	_	_	_	339	_
Critical Hdwy	4.1	_	_	_	6.6	5.7
Critical Hdwy Stg 1	-	_	_	_	5.5	-
Critical Hdwy Stg 2	_	_	_	_	5.5	_
Follow-up Hdwy	2.2	_	_	_	3.59	3.3
Pot Cap-1 Maneuver	1315	_	_	_	446	813
Stage 1	1010	_	_	_	768	- 013
Stage 2		_	_	_	704	_
Platoon blocked, %	_	_			704	_
	1210	-	-	-	100	000
Mov Cap-1 Maneuver	1310	-	-	-	436	808
Mov Cap-2 Maneuver	-	-	-	-	436	-
Stage 1	-	-	-	-	753	-
Stage 2	-	-	-	-	701	-
Approach	EB		WB		SB	
HCM Control Delay, s	0.4		0		11.1	
HCM LOS	0.4		U		В	
TIOW LOO					U	
Minor Lane/Major Mvm	nt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)		1310	-	-	-	619
HCM Lane V/C Ratio		0.012	-	-	-	0.051
HCM Control Delay (s)		7.8	0	-	-	11.1
HCM Lane LOS		Α	Α	-	-	В
HCM 95th %tile Q(veh	)	0	-	_	-	0.2
	,					

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				
Traffic Vol, veh/h		0	276	77	14	225	0	7	0	11	0	0	0
Future Vol, veh/h		0	276	77	14	225	0	7	0	11	0	0	0
Conflicting Peds, #/hr		0	0	0	0	0	0	0	0	0	0	0	0
Sign Control		Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized		-	-	None	-	-	None	-	-	None	-	-	None
Storage Length		-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	‡	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %		-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor		92	89	89	89	89	92	89	92	89	92	92	92
Heavy Vehicles, %		2	2	1	0	3	2	0	2	0	2	2	2
Mvmt Flow		0	310	87	16	253	0	8	0	12	0	0	0
Major/Minor	M	ajor1		I	Major2		N	Minor1					
Conflicting Flow All		253	0	0	397	0	0	639	639	354			
Stage 1		-	-	-	-	-	-	354	354	-			
Stage 2		-	-	-	-	-	-	285	285	-			
Critical Hdwy		4.12	-	-	4.1	-	-	6.4	6.52	6.2			
Critical Hdwy Stg 1		-	-	-	-	-	-	5.4	5.52	-			
Critical Hdwy Stg 2		-	-	-	-	-	-	5.4	5.52	-			
Follow-up Hdwy	2	2.218	-	-	2.2	-	-	3.5	4.018	3.3			
Pot Cap-1 Maneuver		1312	-	-	1173	-	-	443	394	694			
Stage 1		-	-	-	-	-	-	715	630	-			
Stage 2		-	-	-	-	-	-	768	676	-			
Platoon blocked, %			-	-		-	-						
Mov Cap-1 Maneuver		1312	-	-	1173	-	-	436	0	694			
Mov Cap-2 Maneuver		-	-	-	-	-	-	436	0	-			
Stage 1		-	-	-	-	-	-	715	0	-			
Stage 2		-	-	-	-	-	-	756	0	-			
Approach		EB			WB			NB					
HCM Control Delay, s		0			0.5			11.6					
HCM LOS								В					
Minor Lane/Major Mvmt	NI	BLn1	EBL	EBT	EBR	WBL	WBT	WBR					
Capacity (veh/h)		564	1312	-		1173	-	-					
HCM Lane V/C Ratio	(	0.036	-	_		0.013	-	-					
HCM Control Delay (s)		11.6	0	-	-	8.1	0	-					
HCM Lane LOS		В	Α	-	-	Α	Α	-					
HCM 95th %tile Q(veh)		0.1	0	-	-	0	-	-					

Intersection						
Int Delay, s/veh	5.1					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥		1>		<u> </u>	<u> </u>
Traffic Vol, veh/h	114	73	202	153	95	265
Future Vol, veh/h	114	73	202	153	95	265
Conflicting Peds, #/hr	1	0	0	5	5	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	_	-	100	-
Veh in Median Storage		_	0	-	-	0
Grade, %	0	_	0	_	_	0
Peak Hour Factor	89	89	89	89	89	89
Heavy Vehicles, %	0	2	3	2	2	0
Mymt Flow	128	82	227	172	107	298
IVIVIII( I IOVV	120	02	221	112	107	230
	Minor1	<u> </u>	Major1	<u> </u>	Major2	
Conflicting Flow All	831	318	0	0	404	0
Stage 1	318	-	-	-	-	-
Stage 2	513	-	-	-	-	-
Critical Hdwy	5.9	5.8	-	-	4.12	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	384	750	-	-	1155	-
Stage 1	742	_	_	_	_	_
Stage 2	605	_	-	-	_	-
Platoon blocked, %			_	_		_
Mov Cap-1 Maneuver	346	746	_	-	1150	_
Mov Cap-2 Maneuver	346	-	_	_	-	_
Stage 1	738	_	_	_	_	_
Stage 2	548	_	_	_	<u>-</u>	_
Olage 2	340		<del>-</del>		_	_
Approach	WB		NB		SB	
HCM Control Delay, s	20.6		0		2.2	
HCM LOS	С					
Minor Long (Maior M	.4	NDT	NDDV	VDI 4	CDI	CDT
Minor Lane/Major Mvn	nt	NBT	NRKA	VBLn1	SBL	SBT
Capacity (veh/h)		-	-	438	1150	-
HCM Lane V/C Ratio		-	-		0.093	-
HCM Control Delay (s)		-	-	20.6	8.4	-
HCM Lane LOS		-	-	С	Α	-
HCM 95th %tile Q(veh	)	-	-	2.5	0.3	-

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Volume (veh/h)	78	155	40	4	110	7	64	307	30	20	246	91
Future Volume (veh/h)	78	155	40	4	110	7	64	307	30	20	246	91
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	0.99		0.98	0.99		0.98	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	2051	2051	2034	2100	2018	1936	2067	1969	2100	2100	1985	2034
Adj Flow Rate, veh/h	115	228	43	6	162	9	94	451	38	29	362	50
Peak Hour Factor	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68
Percent Heavy Veh, %	3	3	4	0	5	10	2	8	0	0	7	4
Cap, veh/h	170	278	50	47	464	25	184	868	70	85	984	131
Arrive On Green	0.25	0.25	0.25	0.25	0.25	0.25	0.62	0.62	0.62	0.62	0.62	0.62
Sat Flow, veh/h	474	1117	199	21	1869	101	222	1407	114	67	1594	212
Grp Volume(v), veh/h	386	0	0	177	0	0	583	0	0	441	0	0
Grp Sat Flow(s),veh/h/ln	1791	0	0	1991	0	0	1742	0	0	1874	0	0
Q Serve(g_s), s	11.7	0.0	0.0	0.0	0.0	0.0	5.3	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	18.2	0.0	0.0	6.5	0.0	0.0	15.6	0.0	0.0	10.0	0.0	0.0
Prop In Lane	0.30		0.11	0.03		0.05	0.16	_	0.07	0.07		0.11
Lane Grp Cap(c), veh/h	497	0	0	537	0	0	1122	0	0	1199	0	0
V/C Ratio(X)	0.78	0.00	0.00	0.33	0.00	0.00	0.52	0.00	0.00	0.37	0.00	0.00
Avail Cap(c_a), veh/h	707	0	0	774	0	0	1122	0	0	1199	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	31.8	0.0	0.0	27.6	0.0	0.0	9.4	0.0	0.0	8.5	0.0	0.0
Incr Delay (d2), s/veh	3.5	0.0	0.0	0.4	0.0	0.0	0.4	0.0	0.0	0.2	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	12.7	0.0	0.0	5.5	0.0	0.0	9.0	0.0	0.0	6.4	0.0	0.0
Unsig. Movement Delay, s/veh		0.0	0.0	00.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LnGrp Delay(d),s/veh	35.3	0.0	0.0	28.0	0.0	0.0	9.8	0.0	0.0	8.6	0.0	0.0
LnGrp LOS	D	Α	Α	С	A	A	A	A	Α	A	A	A
Approach Vol, veh/h		386			177			583			441	
Approach Delay, s/veh		35.3			28.0			9.8			8.6	
Approach LOS		D			С			А			Α	
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		61.0		28.2		61.0		28.2				
Change Period (Y+Rc), s		6.0		6.0		6.0		6.0				
Max Green Setting (Gmax), s		55.0		33.0		55.0		33.0				
Max Q Clear Time (g_c+l1), s		17.6		20.2		12.0		8.5				
Green Ext Time (p_c), s		4.4		1.9		3.0		0.9				
Intersection Summary												
HCM 6th Ctrl Delay			17.7									
HCM 6th LOS			В									

Intersection						
Int Delay, s/veh	0.8					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		4	7.		W	
Traffic Vol, veh/h	20	258	218	18	12	6
Future Vol, veh/h	20	258	218	18	12	6
Conflicting Peds, #/hr	4	0	0	4	0	2
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-		-		-	None
Storage Length	_	-	_	-	0	-
Veh in Median Storage	.# -	0	0	_	0	_
Grade, %	-	0	0	_	0	_
Peak Hour Factor	68	68	68	68	68	68
Heavy Vehicles, %	0	3	4	0	0	0
Mvmt Flow	29	379	321	26	18	9
IVIVIII( I IOW	23	313	JZI	20	10	9
Major/Minor I	Major1	N	Major2	N	Minor2	
Conflicting Flow All	351	0	-	0	775	340
Stage 1	-	-	-	-	338	-
Stage 2	-	-	-	-	437	-
Critical Hdwy	4.1	-	-	-	6.6	5.7
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.2	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	1219	-	_	-	354	741
Stage 1	-	_	_	_	727	-
Stage 2	_	_	_	_	655	_
Platoon blocked, %		_	_	<u>-</u>	000	
Mov Cap-1 Maneuver	1214	_	_	_	341	737
Mov Cap-1 Maneuver	1217	_	_	<u>-</u>	341	-
Stage 1	_		_	_	702	_
	_	_	_	_	652	_
Stage 2	_	_	-	_	032	_
Approach	EB		WB		SB	
HCM Control Delay, s	0.6		0		14.3	
HCM LOS					В	
NA: I /NA		ED!	COT	MOT	MES	2DL 4
Minor Lane/Major Mvm	ΙŢ	EBL	EBT	WBT	WBR:	
Capacity (veh/h)		1214	-	-	-	415
HCM Lane V/C Ratio		0.024	-	-	-	0.064
HCM Control Delay (s)		8	0	-	-	14.3
						D
HCM Lane LOS HCM 95th %tile Q(veh)		0.1	Α	-	-	0.2

Intersection													
Int Delay, s/veh	0.9												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		4			4			4					
Traffic Vol, veh/h	0	258	46	7	217	0	15	0	20	0	0	0	
Future Vol, veh/h	0	258	46	7	217	0	15	0	20	0	0	0	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop	
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None	
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-	
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	92	68	68	68	68	92	68	92	68	92	92	92	
Heavy Vehicles, %	2	0	3	4	0	2	0	2	0	2	2	2	
Mvmt Flow	0	379	68	10	319	0	22	0	29	0	0	0	
Major/Minor	Major1		N	/lajor2		- 1	Minor1						
Conflicting Flow All	319	0	0	447	0	0	752	752	413				
Stage 1	-	-	-		-	-	413	413	-				
Stage 2	-	_	-	_	_	_	339	339	-				
Critical Hdwy	4.12	-	_	4.14	-	-	6.4	6.52	6.2				
Critical Hdwy Stg 1	_	-	-	_	-	-	5.4	5.52	-				
Critical Hdwy Stg 2	-	_	-	_	_	_	5.4	5.52	-				
Follow-up Hdwy	2.218	-	-	2.236	-	_		4.018	3.3				
Pot Cap-1 Maneuver	1241	-	-	1103	_	-	381	339	643				
Stage 1	-	-	-	-	-	-	672	594	-				
Stage 2	-	-	-	-	_	-	726	640	-				
Platoon blocked, %		-	-		-	-							
Mov Cap-1 Maneuver	1241	-	-	1103	-	-	377	0	643				
Mov Cap-2 Maneuver	-	-	-	-	-	-	377	0	-				
Stage 1	-	-	-	-	-	-	672	0	-				
Stage 2	-	-	_	-	-	-	718	0	-				
J													
Approach	EB			WB			NB						
HCM Control Delay, s	0			0.3			13.1						
HCM LOS				3.0			В						
Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR						
Capacity (veh/h)	494	1241		-	1103		_						
HCM Lane V/C Ratio	0.104	-	_		0.009	_	<u>-</u>						
HCM Control Delay (s)	13.1	0	_	_	8.3	0	_						
HCM Lane LOS	В	A	_	_	Α	A	_						
HCM 95th %tile Q(veh)	0.3	0	_	_	0	-	_						
110111 00til 70tilo Q(VOII)	0.0	U											

Intersection						
Int Delay, s/veh	7.5					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	WDL	WDIX		NDIX	JDL T	<u>361</u>
Traffic Vol, veh/h	70	33	<b>Љ</b> 131	204	130	<b>T</b> 296
Future Vol, veh/h	70	33	131	204	130	296
	1	0	0	204	5	290
Conflicting Peds, #/hr			Free	Free	Free	Free
Sign Control RT Channelized	Stop -	Stop None	riee -		riee -	None
Storage Length	0	INOHE -	_	NONE -	100	NOHE -
Veh in Median Storage		-	0	-	-	0
	e, # 0 0	-	0			0
Grade, %				-	-	
Peak Hour Factor	68	25	68	68	68	68
Heavy Vehicles, %	2	11	5	1	4	4
Mvmt Flow	103	132	193	300	191	435
Major/Minor I	Minor1	N	Major1		Major2	
Conflicting Flow All	1166	348	0	0	498	0
Stage 1	348	-	_	-	-	-
Stage 2	818	_	-	_	_	_
Critical Hdwy	5.9	5.8	_	_	4.14	_
Critical Hdwy Stg 1	5.42	-	_	_	-	_
Critical Hdwy Stg 2	5.42	_	_	_	_	_
Follow-up Hdwy	3.518	3 399	_	_	2.236	_
Pot Cap-1 Maneuver	254	709	_	_	1056	_
Stage 1	715	-	_	_	-	_
Stage 2	434	_	_		_	_
Platoon blocked, %	707		_	_		_
Mov Cap-1 Maneuver	207	706	_	_	1051	_
Mov Cap-1 Maneuver	207	700	_	_	1001	_
Stage 1	711		_	_	_	_
Stage 2	355	-	_	_	_	-
Staye 2	333		_	_	_	
Approach	WB		NB		SB	
HCM Control Delay, s	35.5		0		2.8	
HCM LOS	Е					
Minor Long/Major Myr	<b>.</b> +	NBT	NDDV	WBLn1	SBL	SBT
Minor Lane/Major Mvm	IL					ODI
Capacity (veh/h)		-	-	• • •	1051	-
HCM Caretral Dalay (a)		-		0.685		-
HCM Control Delay (s)		-	-		9.2	-
HCM Lane LOS		-	-		Α	-
HCM 95th %tile Q(veh)	١		_	4.8	0.7	_

	۶	<b>→</b>	*	•	<b>←</b>	1	1	<b>†</b>	^	<b>/</b>	<b>↓</b>	1
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Volume (veh/h)	82	100	21	13	94	21	40	389	29	11	246	46
Future Volume (veh/h)	82	100	21	13	94	21	40	389	29	11	246	46
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	0.98		0.96	0.98		0.96	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	2100	2067	1772	2100	2084	2100	2051	2100	2034	2100	2002	2100
Adj Flow Rate, veh/h	92	112	12	15	106	23	45	437	29	12	276	-12
Peak Hour Factor	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Percent Heavy Veh, %	0	2	20	0	1	0	3	0	4	0	6	0
Cap, veh/h	169	155	15	67	240	49	128	1235	79	72	1062	0
Arrive On Green	0.15	0.15	0.15	0.15	0.15	0.15	0.70	0.70	0.70	0.70	0.70	0.00
Sat Flow, veh/h	685	1019	100	106	1574	319	113	1776	114	37	2029	-86
Grp Volume(v), veh/h	216	0	0	144	0	0	511	0	0	0	0	0
Grp Sat Flow(s),veh/h/ln	1804	0	0	2000	0	0	2002	0	0	0	0	0
Q Serve(g_s), s	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	8.9	0.0	0.0	5.2	0.0	0.0	7.8	0.0	0.0	0.0	0.0	0.0
Prop In Lane	0.43		0.06	0.10		0.16	0.09		0.06	0.04		-0.04
Lane Grp Cap(c), veh/h	340	0	0	355	0	0	1443	0	0	0	0	0
V/C Ratio(X)	0.64	0.00	0.00	0.41	0.00	0.00	0.35	0.00	0.00	0.00	0.00	0.00
Avail Cap(c_a), veh/h	784	0	0	863	0	0	1443	0	0	0	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d), s/veh	32.0	0.0	0.0	30.6	0.0	0.0	4.8	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	2.0	0.0	0.0	0.7	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	7.1	0.0	0.0	4.5	0.0	0.0	4.2	0.0	0.0	0.0	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	33.9	0.0	0.0	31.3	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0
LnGrp LOS	С	Α	Α	С	Α	Α	Α	Α	Α	Α	Α	<u>A</u>
Approach Vol, veh/h		216			144			511			0	
Approach Delay, s/veh		33.9			31.3			5.0			0.0	
Approach LOS		С			С			Α				
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		61.0		18.0		61.0		18.0				
Change Period (Y+Rc), s		6.0		6.0		6.0		6.0				
Max Green Setting (Gmax), s		55.0		33.0		55.0		33.0				
Max Q Clear Time (g_c+l1), s		9.8		10.9		0.0		7.2				
Green Ext Time (p_c), s		3.5		1.2		0.0		0.7				
Intersection Summary												
HCM 6th Ctrl Delay			16.5									
HCM 6th LOS			В									

Traffic Vol, veh/h	Intersection						
Traffic Vol, veh/h	Int Delay, s/veh	0.8					
Traffic Vol, veh/h	Movement	EBI	EBT	WBT	WBR	SBL	SBR
Traffic Vol, veh/h         14         278         225         8         10           Future Vol, veh/h         14         278         225         8         10           Conflicting Peds, #/hr         4         0         0         4         0           Sign Control         Free         Free         Free         Free         Free         Stop							
Future Vol, veh/h Conflicting Peds, #/hr A Conflicting Peds, #/hr A Sign Control Free Free Free Free Free Free Free Fre		14			8		18
Conflicting Peds, #/hr         4         0         0         4         0           Sign Control         Free         Free         Free         Free         Stop							18
Sign Control         Free         Free         Free         Free         Stop Storage Length         None         None <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>2</td></t<>							2
RT Channelized         None							Stop
Storage Length         -         -         -         0           Veh in Median Storage, #         -         0         0         -         0           Grade, %         -         0         0         -         0           Peak Hour Factor         89         89         89         89         89         89           Heavy Vehicles, %         0         2         3         0         10           Mvmt Flow         16         312         253         9         11           Major/Minor         Major1         Major2         Minor2           Conflicting Flow All         266         0         -         0         606           Stage 1         -         -         -         262         2         344         2         -         -         262         344         2         -         -         -         262         344         2         -							None
Veh in Median Storage, #         -         0         0         -         0           Grade, %         -         0         0         -         0           Peak Hour Factor         89         89         89         89         89         89           Heavy Vehicles, %         0         2         3         0         10           Mvmt Flow         16         312         253         9         11           Major/Minor         Major1         Major2         Minor2           Conflicting Flow All         266         0         -         0         606           Stage 1         -         -         -         262         2         -         -         262         344         -         -         -         262         344         -         -         -         -         262         344         -		_		_			-
Grade, %         -         0         0         -         0           Peak Hour Factor         89         10         10           Moritical Hows         All         66         0         -         -         66         66         60         -         -         5.5         5.5         5.5         5.5         5.5         5.5         5.5         5.5         5.5         5.5         5.5		ne # -	0	0			_
Peak Hour Factor         89         80         10         10           Mow result of the production of the produc							_
Heavy Vehicles, %							89
Mount Flow         16         312         253         9         11           Major/Minor         Major1         Major2         Minor2           Conflicting Flow All         266         0         -         0         606           Stage 1         -         -         -         262           Stage 2         -         -         -         344           Critical Hdwy         4.1         -         -         6.6           Critical Hdwy Stg 1         -         -         -         5.5           Critical Hdwy Stg 2         -         -         -         5.5           Follow-up Hdwy         2.2         -         -         3.59           Pot Cap-1 Maneuver         1310         -         -         440         440           Stage 1         -         -         -         700         -							0
Major/Minor         Major1         Major2         Minor2           Conflicting Flow All         266         0         -         0         606           Stage 1         -         -         -         262           Stage 2         -         -         -         344           Critical Hdwy         4.1         -         -         6.6           Critical Hdwy Stg 1         -         -         -         5.5           Critical Hdwy Stg 2         -         -         -         5.5           Follow-up Hdwy         2.2         -         -         3.59           Pot Cap-1 Maneuver         1310         -         -         440           Stage 1         -         -         -         764           Stage 2         -         -         -         700           Platoon blocked, %         -         -         -         -         430           Mov Cap-1 Maneuver         1305         -         -         430           Mov Cap-2 Maneuver         -         -         -         697           Approach         EB         WB         SB           HCM Control Delay, s         0.4         0							20
Conflicting Flow All         266         0         -         0         606           Stage 1         -         -         -         262           Stage 2         -         -         -         262           Stage 2         -         -         -         3.44           Critical Hdwy         4.1         -         -         6.6           Critical Hdwy Stg 1         -         -         -         5.5           Critical Hdwy Stg 2         -         -         -         5.5           Follow-up Hdwy         2.2         -         -         3.59           Pot Cap-1 Maneuver         1310         -         -         440         40           Stage 1         -         -         -         -         700           Platoon blocked, %         -         -         -         -           Mov Cap-1 Maneuver         1305         -         -         430           Mov Cap-2 Maneuver         -         -         -         430           Stage 1         -         -         -         -         697           Approach         EB         WB         SB           HCM Control Delay, s	IVIVIIILI IOVV	10	312	200	9	- 11	20
Conflicting Flow All         266         0         -         0         606           Stage 1         -         -         -         262           Stage 2         -         -         -         262           Stage 2         -         -         -         3.44           Critical Hdwy         4.1         -         -         6.6           Critical Hdwy Stg 1         -         -         -         5.5           Critical Hdwy Stg 2         -         -         -         5.5           Follow-up Hdwy         2.2         -         -         3.59           Pot Cap-1 Maneuver         1310         -         -         440         40           Stage 1         -         -         -         -         700           Platoon blocked, %         -         -         -         -           Mov Cap-1 Maneuver         1305         -         -         430           Mov Cap-2 Maneuver         -         -         -         430           Stage 1         -         -         -         -         697           Approach         EB         WB         SB           HCM Control Delay, s							
Stage 1       -       -       -       262         Stage 2       -       -       -       344         Critical Hdwy       4.1       -       -       6.6         Critical Hdwy Stg 1       -       -       -       5.5         Critical Hdwy Stg 2       -       -       -       5.5         Follow-up Hdwy       2.2       -       -       3.59         Pot Cap-1 Maneuver       1310       -       -       440         Stage 1       -       -       -       764         Stage 2       -       -       -       700         Platoon blocked, %       -       -       -       -         Mov Cap-1 Maneuver       1305       -       -       430         Mov Cap-2 Maneuver       -       -       -       430         Stage 1       -       -       -       -       697         Approach       EB       WB       SB         HCM Control Delay, s       0.4       0       11.2         Approach       EB       B       B         Minor Lane/Major Mvmt       EBL       EBT       WBT       WBR SB         Capacity (veh/	Major/Minor	Major1	1	Major2	1	Minor2	
Stage 2       -       -       -       344         Critical Hdwy Stg 1       -       -       -       5.5         Critical Hdwy Stg 2       -       -       -       5.5         Follow-up Hdwy       2.2       -       -       3.59         Pot Cap-1 Maneuver 1310       -       -       440       -         Stage 1       -       -       -       764         Stage 2       -       -       -       700         Platoon blocked, %       -       -       -       -         Mov Cap-1 Maneuver 1305       -       -       -       430         Mov Cap-2 Maneuver	Conflicting Flow All	266	0	-	0	606	264
Critical Hdwy       4.1       -       -       6.6         Critical Hdwy Stg 1       -       -       -       5.5         Critical Hdwy Stg 2       -       -       -       5.5         Follow-up Hdwy       2.2       -       -       3.59         Pot Cap-1 Maneuver       1310       -       -       440         Stage 1       -       -       -       764         Stage 2       -       -       -       -       700         Platoon blocked, %       -       -       -       -       -       430         Mov Cap-1 Maneuver       1305       -       -       -       430       -       -       -       430       -	Stage 1	-	-	-	-	262	-
Critical Hdwy       4.1       -       -       6.6         Critical Hdwy Stg 1       -       -       -       5.5         Critical Hdwy Stg 2       -       -       -       5.5         Follow-up Hdwy       2.2       -       -       3.59         Pot Cap-1 Maneuver       1310       -       -       440         Stage 1       -       -       -       764         Stage 2       -       -       -       -       700         Platoon blocked, %       -       -       -       -       -       430         Mov Cap-1 Maneuver       1305       -       -       -       430       -       -       -       430       -	Stage 2	-	-	-	-	344	-
Critical Hdwy Stg 1 5.5  Critical Hdwy Stg 2 5.5  Follow-up Hdwy 2.2 3.59  Pot Cap-1 Maneuver 1310 440  Stage 1 764  Stage 2 700  Platoon blocked, % 430  Mov Cap-1 Maneuver 1305 430  Mov Cap-2 Maneuver 430  Stage 1 749  Stage 2 697  Approach EB WB SB  HCM Control Delay, s 0.4 0 11.2  HCM LOS B  Minor Lane/Major Mvmt EBL EBT WBT WBR SB  Capacity (veh/h) 1305		4.1	-	-	-	6.6	5.7
Critical Hdwy Stg 2       -       -       -       5.5         Follow-up Hdwy       2.2       -       -       3.59         Pot Cap-1 Maneuver       1310       -       -       440         Stage 1       -       -       -       764         Stage 2       -       -       -       -       -         Platoon blocked, %       -       -       -       -       -         Mov Cap-1 Maneuver       1305       -       -       430         Mov Cap-2 Maneuver       -       -       -       430         Stage 1       -       -       -       697         Approach       EB       WB       SB         HCM Control Delay, s       0.4       0       11.2         HCM LOS       B     Minor Lane/Major Mvmt  EBL  EBT  WBT  WBR SB  Capacity (veh/h)  1305		-	-	-	-	5.5	-
Follow-up Hdwy 2.2 3.59 Pot Cap-1 Maneuver 1310 440 Stage 1 764 Stage 2 700 Platoon blocked, %  Mov Cap-1 Maneuver 1305 430 Mov Cap-2 Maneuver 430 Stage 1 749 Stage 2 697  Approach EB WB SB HCM Control Delay, s 0.4 HCM LOS B  Minor Lane/Major Mvmt EBL EBT WBT WBR SB Capacity (veh/h) 1305 1 HCM Lane V/C Ratio 0.012 0.4 HCM Control Delay (s) 7.8 0 1		_	-	_	-	5.5	-
Pot Cap-1 Maneuver         1310         -         -         440           Stage 1         -         -         -         764           Stage 2         -         -         -         700           Platoon blocked, %         -         -         -         -           Mov Cap-1 Maneuver         1305         -         -         430           Mov Cap-2 Maneuver         -         -         -         430           Stage 1         -         -         -         697           Approach         EB         WB         SB           HCM Control Delay, s         0.4         0         11.2           HCM LOS         B    Minor Lane/Major Mvmt  EBL  EBT  WBT  WBR SB  Capacity (veh/h)  1305		2.2	_	-	_		3.3
Stage 1       -       -       -       764         Stage 2       -       -       -       700         Platoon blocked, %       -       -       -       -         Mov Cap-1 Maneuver       1305       -       -       430         Mov Cap-2 Maneuver       -       -       -       -       430         Stage 1       -       -       -       -       697         Approach       EB       WB       SB         HCM Control Delay, s       0.4       0       11.2         HCM LOS       B         Minor Lane/Major Mvmt       EBL       EBT       WBT       WBR SB         Capacity (veh/h)       1305       -       -       -       0.4         HCM Lane V/C Ratio       0.012       -       -       0.4         HCM Control Delay (s)       7.8       0       -       -       1			-	_	-		809
Stage 2       -       -       -       700         Platoon blocked, %       -       -       -       -         Mov Cap-1 Maneuver 1305       -       -       -       430         Mov Cap-2 Maneuver -       -       -       -       430         Stage 1       -       -       -       -       697         Approach       EB       WB       SB         HCM Control Delay, s 0.4       0       11.2         HCM LOS       B         Minor Lane/Major Mvmt       EBL       EBT       WBT       WBR SB         Capacity (veh/h)       1305       -       -       -       0         HCM Lane V/C Ratio       0.012       -       -       0       -       1         HCM Control Delay (s)       7.8       0       -       -       1			_	_	_		-
Platoon blocked, %         -         -         -           Mov Cap-1 Maneuver         1305         -         -         430           Mov Cap-2 Maneuver         -         -         -         -         430           Stage 1         -         -         -         -         749           Stage 2         -         -         -         697           Approach         EB         WB         SB           HCM Control Delay, s         0.4         0         11.2           HCM LOS         B    Minor Lane/Major Mvmt  EBL  EBT  WBT  WBR SB  Capacity (veh/h)  1305		_	_	_	_		_
Mov Cap-1 Maneuver         1305         -         -         430           Mov Cap-2 Maneuver         -         -         -         430           Stage 1         -         -         -         -         749           Stage 2         -         -         -         697           Approach         EB         WB         SB           HCM Control Delay, s         0.4         0         11.2           HCM LOS         B             Minor Lane/Major Mvmt         EBL         EBT         WBT         WBR SB           Capacity (veh/h)         1305         -         -         -           HCM Lane V/C Ratio         0.012         -         -         0.012           HCM Control Delay (s)         7.8         0         -         -			_	_		700	
Mov Cap-2 Maneuver         -         -         -         430           Stage 1         -         -         -         -         749           Stage 2         -         -         -         697           Approach         EB         WB         SB           HCM Control Delay, s         0.4         0         11.2           HCM LOS         B         B    Minor Lane/Major Mvmt  EBL  EBT  WBT  WBR SB  Capacity (veh/h)  1305		r 1305	_			430	804
Stage 1         -         -         -         749           Stage 2         -         -         -         697           Approach         EB         WB         SB           HCM Control Delay, s         0.4         0         11.2           HCM LOS         B           Minor Lane/Major Mvmt         EBL         EBT         WBT         WBR SB           Capacity (veh/h)         1305         -         -         -           HCM Lane V/C Ratio         0.012         -         -         0.012           HCM Control Delay (s)         7.8         0         -         -			_				- 00
Stage 2         -         -         -         697           Approach         EB         WB         SB           HCM Control Delay, s         0.4         0         11.2           HCM LOS         B           Minor Lane/Major Mvmt         EBL         EBT         WBT         WBR SB           Capacity (veh/h)         1305         -         -         -         -         0.4           HCM Lane V/C Ratio         0.012         -         -         -         0.4           HCM Control Delay (s)         7.8         0         -         -         1			_				_
Approach         EB         WB         SB           HCM Control Delay, s         0.4         0         11.2           HCM LOS         B           Minor Lane/Major Mvmt         EBL         EBT         WBT         WBR SB           Capacity (veh/h)         1305         -         -         -         -         0.4           HCM Lane V/C Ratio         0.012         -         -         -         0.4           HCM Control Delay (s)         7.8         0         -         -         1			_				_
HCM Control Delay, s         0.4         0         11.2           HCM LOS         B           Minor Lane/Major Mvmt         EBL         EBT         WBT         WBR SB           Capacity (veh/h)         1305         -         -         -         -           HCM Lane V/C Ratio         0.012         -         -         -         0.0           HCM Control Delay (s)         7.8         0         -         -         1	Slaye 2	-	<u>-</u>	-	<u>-</u>	097	-
HCM Control Delay, s         0.4         0         11.2           HCM LOS         B           Minor Lane/Major Mvmt         EBL         EBT         WBT         WBR SB           Capacity (veh/h)         1305         -         -         -         -           HCM Lane V/C Ratio         0.012         -         -         -         0.0           HCM Control Delay (s)         7.8         0         -         -         1							
Minor Lane/Major Mvmt         EBL         EBT         WBT         WBR SB           Capacity (veh/h)         1305         -         -         -         -         0.012         -         -         -         0.012         -         -         -         1.012         -         -         -         1.012         -         -         -         1.012         -         -         -         1.012         -         -         -         -         1.012         -	Approach	EB		WB		SB	
Minor Lane/Major Mvmt         EBL         EBT         WBT         WBR SB           Capacity (veh/h)         1305         -         -         -           HCM Lane V/C Ratio         0.012         -         -         -         0.012           HCM Control Delay (s)         7.8         0         -         -         1		s 0.4		0		11.2	
Minor Lane/Major Mvmt  EBL EBT WBT WBR SB  Capacity (veh/h)  1305  HCM Lane V/C Ratio  0.012 0.012  HCM Control Delay (s)  7.8  0 1						В	
Capacity (veh/h) 1305							
Capacity (veh/h) 1305	NA: 1 (NA: 34		ED!	EDT	MADT	MDD	ODI 4
HCM Lane V/C Ratio 0.012 0.1 HCM Control Delay (s) 7.8 0 1		mt		FBI	WBT	WBR :	
HCM Control Delay (s) 7.8 0 1				-	-	-	613
				-	-	-	0.051
		s)			-	-	11.2
HCM Lane LOS A A				Α	-	-	В
HCM 95th %tile Q(veh) 0	HCM 95th %tile Q(ve	eh)	0	-	-	-	0.2

Intersection												
Int Delay, s/veh	0.5											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		44			4			4				
Traffic Vol, veh/h	0	282	79	14	230	0	7	0	11	0	0	0
Future Vol, veh/h	0	282	79	14	230	0	7	0	11	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	_	None	-	-	None	<u>-</u>	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	<u> </u>	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	89	89	89	89	92	89	92	89	92	92	92
Heavy Vehicles, %	2	2	1	0	3	2	0	2	0	2	2	2
Mvmt Flow	0	317	89	16	258	0	8	0	12	0	0	0
Major/Minor	Major1		N	//ajor2		ľ	Minor1					
Conflicting Flow All	258	0	0	406	0	0	652	652	362			
Stage 1	-	-	-	-	-	-	362	362	-			
Stage 2	-	-	-	-	-	-	290	290	-			
Critical Hdwy	4.12	-	-	4.1	-	-	6.4	6.52	6.2			
Critical Hdwy Stg 1	-	-	-	-	-	-	5.4	5.52	-			
Critical Hdwy Stg 2	-	_	_	-	-	-	5.4	5.52	_			
Follow-up Hdwy	2.218	-	-	2.2	-	-	3.5	4.018	3.3			
Pot Cap-1 Maneuver	1307	-	-	1164	-	-	436	387	687			
Stage 1	-	-	-	-	-	-	709	625	-			
Stage 2	-	-	-	-	-	-	764	672	-			
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1307	-	-	1164	-	-	429	0	687			
Mov Cap-2 Maneuver	-	-	-	-	-	-	429	0	-			
Stage 1	-	-	-	-	-	-	709	0	-			
Stage 2	-	-	-	-	-	-	752	0	-			
Approach	EB			WB			NB					
HCM Control Delay, s	0			0.5			11.7					
HCM LOS							В					
Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR					
Capacity (veh/h)	557	1307	-	-	1164	-	-					
HCM Lane V/C Ratio	0.036	-	-	-	0.014	-	-					
HCM Control Delay (s)	11.7	0	-	-	8.1	0	-					
HCM Lane LOS	В	Α	-	-	Α	Α	-					
HCM 95th %tile Q(veh)	0.1	0	-	-	0	-	-					

Intersection						
Int Delay, s/veh	5.3					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	W	TTDI C	<b>1</b>	HUDIT	<u> </u>	<u> </u>
Traffic Vol. veh/h	116	74	206	156	97	270
Future Vol, veh/h	116	74	206	156	97	270
Conflicting Peds, #/hr	1	0	0	5	5	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-		-	None
Storage Length	0	-	_	-	100	-
Veh in Median Storage,	-	_	0	_	-	0
Grade, %	0	_	0	_	_	0
Peak Hour Factor	89	89	89	89	89	89
Heavy Vehicles, %	09	2	3	2	2	09
					109	
Mvmt Flow	130	83	231	175	109	303
Major/Minor N	/linor1	N	Major1		Major2	
Conflicting Flow All	846	324	0	0	411	0
Stage 1	324	_	_	-	_	_
Stage 2	522	_	_	_	_	_
Critical Hdwy	5.9	5.8	_	_	4.12	_
Critical Hdwy Stg 1	5.4	-	_	<u>-</u>	- 1.12	<u>-</u>
Critical Hdwy Stg 2	5.4	_	_	_	_	_
Follow-up Hdwy		3.318	_	_	2.218	_
Pot Cap-1 Maneuver	377	745	_	_	1148	_
•	738				1140	_
Stage 1		-	-	-	-	
Stage 2	599	-	-	-	-	-
Platoon blocked, %	220	711	-	-	1110	-
Mov Cap-1 Maneuver	339	741	-	-	1143	-
Mov Cap-2 Maneuver	339	-	-	-	-	-
Stage 1	734	-	-	-	-	-
Stage 2	541	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s	21.3		0		2.2	
HCM LOS	C C		U		۷.۷	
HCWI LOS	U					
Minor Lane/Major Mvm		NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)			-	430	1143	_
HCM Lane V/C Ratio		-	-	0.496		-
HCM Control Delay (s)		_	_	21.3	8.5	_
HCM Lane LOS		_	_	С	A	_
HCM 95th %tile Q(veh)		-	_	2.7	0.3	-
					0.0	

	•	<b>→</b>	•	•	+	4	4	<b>†</b>	~	<b>\</b>	<del> </del>	1
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Volume (veh/h)	80	156	44	4	112	7	75	307	30	20	246	98
Future Volume (veh/h)	80	156	44	4	112	7	75	307	30	20	246	98
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	0.99		0.98	0.99		0.98	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	2051	2051	2034	2100	2018	1936	2067	1969	2100	2100	1985	2034
Adj Flow Rate, veh/h	118	229	49	6	165	9	110	451	38	29	362	60
Peak Hour Factor	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68
Percent Heavy Veh, %	3	3	4	0	5	10	2	8	0	0	7	4
Cap, veh/h	173	277	56	47	477	25	205	826	67	82	952	152
Arrive On Green	0.25	0.25	0.25	0.25	0.25	0.25	0.61	0.61	0.61	0.61	0.61	0.61
Sat Flow, veh/h	474	1087	220	21	1872	100	258	1350	109	65	1556	249
Grp Volume(v), veh/h	396	0	0	180	0	0	599	0	0	451	0	0
Grp Sat Flow(s),veh/h/ln	1781	0	0	1992	0	0	1717	0	0	1870	0	0
Q Serve(g_s), s	12.3	0.0	0.0	0.0	0.0	0.0	6.2	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	19.0	0.0	0.0	6.6	0.0	0.0	16.8	0.0	0.0	10.6	0.0	0.0
Prop In Lane	0.30		0.12	0.03		0.05	0.18		0.06	0.06		0.13
Lane Grp Cap(c), veh/h	506	0	0	549	0	0	1098	0	0	1187	0	0
V/C Ratio(X)	0.78	0.00	0.00	0.33	0.00	0.00	0.55	0.00	0.00	0.38	0.00	0.00
Avail Cap(c_a), veh/h	699	0	0	768	0	0	1098	0	0	1187	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	31.8	0.0	0.0	27.4	0.0	0.0	9.9	0.0	0.0	8.8	0.0	0.0
Incr Delay (d2), s/veh	4.0	0.0	0.0	0.3	0.0	0.0	0.6	0.0	0.0	0.2	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	13.2	0.0	0.0	5.6	0.0	0.0	9.6	0.0	0.0	6.8	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	35.7	0.0	0.0	27.8	0.0	0.0	10.4	0.0	0.0	9.0	0.0	0.0
LnGrp LOS	D	Α	Α	С	Α	Α	В	Α	Α	Α	Α	<u>A</u>
Approach Vol, veh/h		396			180			599			451	
Approach Delay, s/veh		35.7			27.8			10.4			9.0	
Approach LOS		D			С			В			Α	
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		61.0		28.9		61.0		28.9				
Change Period (Y+Rc), s		6.0		6.0		6.0		6.0				
Max Green Setting (Gmax), s		55.0		33.0		55.0		33.0				
Max Q Clear Time (g_c+l1), s		18.8		21.0		12.6		8.6				
Green Ext Time (p_c), s		4.6		1.9		3.1		0.9				
Intersection Summary												
HCM 6th Ctrl Delay			18.1									
HCM 6th LOS			В									

Intersection						
Int Delay, s/veh	0.8					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		4	<u></u>		W	
Traffic Vol, veh/h	21	265	238	18	12	8
Future Vol, veh/h	21	265	238	18	12	8
Conflicting Peds, #/hr	4	0	0	4	0	2
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-		-	None
Storage Length	_	-	_	-	0	-
Veh in Median Storage	2.# -	0	0	_	0	_
Grade, %	, π - -	0	0	<u>-</u>	0	_
Peak Hour Factor	68	68	68	68	68	68
	00	3	4	00	00	00
Heavy Vehicles, %	31					12
Mvmt Flow	31	390	350	26	18	12
Major/Minor	Major1	N	Major2	N	Minor2	
Conflicting Flow All	380	0	-	0	819	369
Stage 1	-	-	_	-	367	-
Stage 2	-	-	_	-	452	-
Critical Hdwy	4.1	_	_	-	6.6	5.7
Critical Hdwy Stg 1	-	_	_	_	5.4	-
Critical Hdwy Stg 2	_	_	_	_	5.4	_
Follow-up Hdwy	2.2	<u>-</u>	_	<u>-</u>	3.5	3.3
Pot Cap-1 Maneuver	1190	_	_	_	332	717
Stage 1	-	_	_	_	705	- ' ' '
Stage 2	_	_	_	_	645	_
Platoon blocked, %	_	-			045	_
	1105	-	-	-	240	740
Mov Cap-1 Maneuver	1185	-	-	-	318	713
Mov Cap-2 Maneuver	-	-	-	-	318	-
Stage 1	-	-	-	-	679	-
Stage 2	-	-	-	-	642	-
Approach	EB		WB		SB	
HCM Control Delay, s	0.6		0		14.5	
HCM LOS	0.0		U		В	
TIOW LOO					U	
Minor Lane/Major Mvn	nt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)		1185	-	-	-	409
HCM Lane V/C Ratio		0.026	-	-	-	0.072
HCM Control Delay (s)		8.1	0	-	-	14.5
HCM Lane LOS		Α	A	_	_	В
HCM 95th %tile Q(veh	)	0.1	-	-	-	0.2

Intersection													
Int Delay, s/veh	1												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		4			4			4					
Traffic Vol, veh/h	11	266	47	7	217	22	15	2	20	0	0	0	
Future Vol, veh/h	11	266	47	7	217	22	15	2	20	0	0	0	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop	
RT Channelized	-	-	None	-	-	None	-	-	None	_	-	None	
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-	
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	92	68	68	68	68	92	68	92	68	92	92	92	
Heavy Vehicles, %	2	0	3	4	0	2	0	2	0	2	2	2	
Mvmt Flow	12	391	69	10	319	24	22	2	29	0	0	0	
Major/Minor	Major1		N	/lajor2			Minor1						
Conflicting Flow All	343	0	0	460	0	0	801	813	426				
Stage 1	-	-	-	-	-	-	450	450	-				
Stage 2	_	_	_	_	_	_	351	363	_				
Critical Hdwy	4.12	_	_	4.14	_	_	6.4	6.52	6.2				
Critical Hdwy Stg 1	-	_	_	-	_	_	5.4	5.52	-				
Critical Hdwy Stg 2	-	_	-	-	_	_	5.4	5.52	-				
Follow-up Hdwy	2.218	_	_	2.236	_	_		4.018	3.3				
Pot Cap-1 Maneuver	1216	-	_	1091	_	-	356	313	633				
Stage 1	-	_	-	_	-	-	647	572	-				
Stage 2	-	-	-	-	-	-	717	625	-				
Platoon blocked, %		-	-		-	-							
Mov Cap-1 Maneuver	1216	-	-	1091	_	-	347	0	633				
Mov Cap-2 Maneuver	-	-	-	-	-	-	347	0	-				
Stage 1	-	-	-	-	-	-	639	0	-				
Stage 2	-	-	-	-	-	-	709	0	-				
Approach	EB			WB			NB						
HCM Control Delay, s	0.2			0.2			13.7						
HCM LOS	0.2			0.2			В						
Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR						
Capacity (veh/h)	468	1216	-	-	1091	-	-						
HCM Lane V/C Ratio	0.115	0.01	_		0.009	_	_						
HCM Control Delay (s)	13.7	8	0	_	8.3	0	_						
HCM Lane LOS	13.7 B	A	A	_	0.5 A	A	_						
HCM 95th %tile Q(veh)	0.4	0	-		0		_						
110111 00111 /01110 ((1011)	0.7	- 0			- 0								

Intersection						
Int Delay, s/veh	8.3					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	W		<b>1</b>		<u> </u>	<u> </u>
Traffic Vol, veh/h	72	34	131	211	134	296
Future Vol, veh/h	72	34	131	211	134	296
Conflicting Peds, #/hr	1	0	0	5	5	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-		-	None
Storage Length	0	-	_	-	100	-
Veh in Median Storage		_	0	_	-	0
Grade, %	0	_	0	_	_	0
Peak Hour Factor	68	25	68	68	68	68
Heavy Vehicles, %	2	11	5	1	4	4
Mvmt Flow	106	136	193	310	197	435
IVIVIIILI IUW	100	130	133	310	131	400
	Minor1	N	Major1	ا	Major2	
Conflicting Flow All	1183	353	0	0	508	0
Stage 1	353	-	-	-	-	-
Stage 2	830	-	-	-	-	-
Critical Hdwy	5.9	5.8	-	-	4.14	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	_	-	-	-
Follow-up Hdwy		3.399	-	_	2.236	_
Pot Cap-1 Maneuver	248	705	_	_	1047	-
Stage 1	711	-	-	_	-	_
Stage 2	428	_	_	_	_	-
Platoon blocked, %	0		_	_		_
Mov Cap-1 Maneuver	200	702	_	_	1042	_
Mov Cap-2 Maneuver	200	-	_	_	-	_
Stage 1	707	_	_	_	_	_
Stage 2	347	_	_	_	_	_
Olage 2	J+1	_	_	_	_	_
Approach	WB		NB		SB	
HCM Control Delay, s	39.5		0		2.9	
HCM LOS	Е					
Minor Lane/Major Mvm	nt	NBT	NRRV	VBLn1	SBL	SBT
	IC .	INDI	אוטוזי	334	1042	001
Capacity (veh/h) HCM Lane V/C Ratio		_		0.724		
		-	-	39.5	9.3	-
HCM Control Dolay (a)					7.1	-
HCM Control Delay (s)		_	_			
HCM Control Delay (s) HCM Lane LOS HCM 95th %tile Q(veh)		-		5.4	A 0.7	-

Intersection						
Int Delay, s/veh	0.3					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	LDL	<u> </u>	<u>₩</u>	וטיי	₩.	אופט
Traffic Vol, veh/h	0	315	232	0	<b>T</b>	3
Future Vol, veh/h	0	315	232	0	9	3
•						0
Conflicting Peds, #/hr	0	0	0	0	0	
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage	e,# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	68	68	68	68	68	68
Heavy Vehicles, %	0	3	4	0	0	0
Mvmt Flow	0	463	341	0	13	4
N.A. '. (N.A.)					4: 0	
	Major1		Major2		Minor2	
Conflicting Flow All	-	0	-	0	804	341
Stage 1	-	-	-	-	341	-
Stage 2	-	-	-	-	463	-
Critical Hdwy	-	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	-	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	0	-	_	0	355	706
Stage 1	0	_	_	0	725	-
Stage 2	0	_	_	0	638	_
Platoon blocked, %	J	_	_		000	
Mov Cap-1 Maneuver	_	_	_	_	355	706
			_	<u>-</u>	355	700
Mov Cap-2 Maneuver	-	-				
Stage 1	-	-	-	-	725	-
Stage 2		-	-	-	638	-
Approach	EB		WB		SB	
HCM Control Delay, s	0		0		14.3	
HCM LOS	U		U		В	
I IOW LOS					D	
Minor Lane/Major Mvn	nt	EBT	WBT :	SBLn1		
Capacity (veh/h)		_	_	405		
HCM Lane V/C Ratio		_	_	0.044		
TION Land V/O Hado	١	_	_			
HCM Control Delay (s)				1-7.0		
HCM Lane LOS	)	_	_	R		
HCM Control Delay (s) HCM Lane LOS HCM 95th %tile Q(veh		-	-	B 0.1		

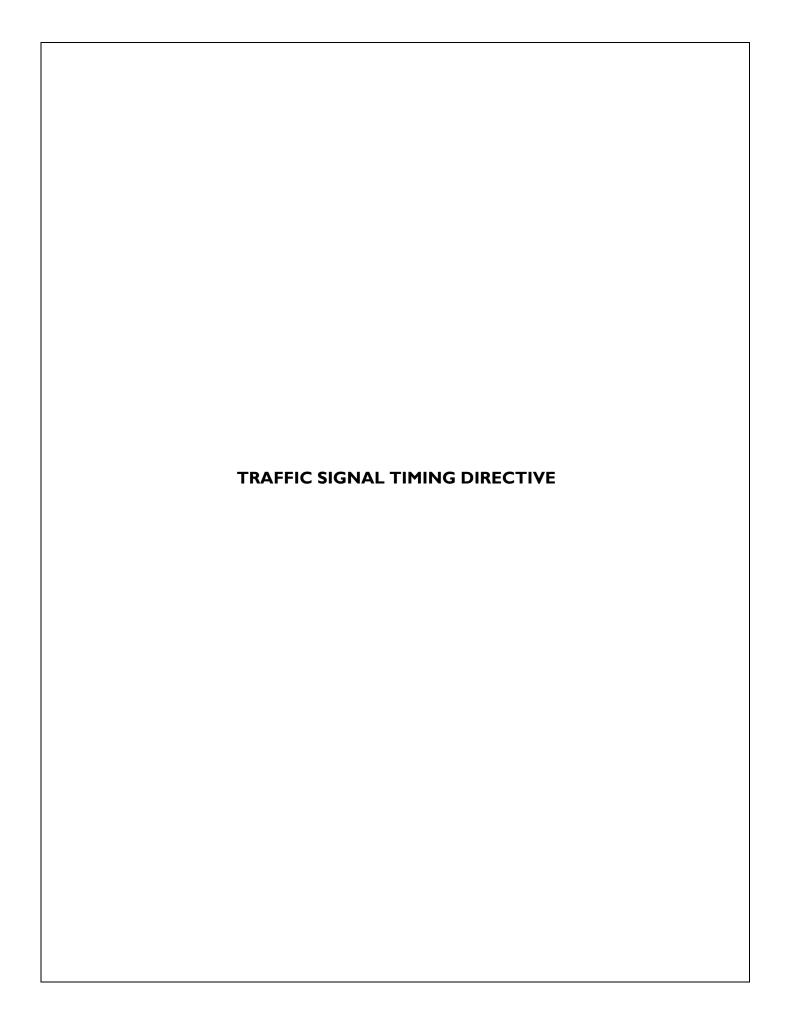
	۶	<b>→</b>	•	•	•	•	•	<b>†</b>	<b>/</b>	<b>&gt;</b>	ţ	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Volume (veh/h)	89	102	32	13	95	21	44	389	29	11	246	48
Future Volume (veh/h)	89	102	32	13	95	21	44	389	29	11	246	48
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	0.98		0.97	0.98		0.97	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	- /	No			No			No			No	
Adj Sat Flow, veh/h/ln	2100	2067	1772	2100	2084	2100	2051	2100	2034	2100	2002	2100
Adj Flow Rate, veh/h	100	115	24	15	107	23	49	437	29	12	276	-10
Peak Hour Factor	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Percent Heavy Veh, %	0	2	20	0	1	0	3	0	4	0	6	0
Cap, veh/h	175	156	30	67	264	53	135	1201	77	72	1054	0
Arrive On Green	0.17	0.17	0.17	0.17	0.17	0.17	0.68	0.68	0.68	0.68	0.68	0.00
Sat Flow, veh/h	671	938	180	103	1582	318	126	1755	112	36	2013	-71
Grp Volume(v), veh/h	239	0	0	145	0	0	515	0	0	0	0	0
Grp Sat Flow(s),veh/h/ln	1789	0	0	2002	0	0	1993	0	0	0	0	0
Q Serve(g_s), s	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	10.1	0.0	0.0	5.2	0.0	0.0	8.4	0.0	0.0	0.0	0.0	0.0
Prop In Lane	0.42		0.10	0.10		0.16	0.10		0.06	0.04		-0.04
Lane Grp Cap(c), veh/h	362	0	0	383	0	0	1412	0	0	0	0	0
V/C Ratio(X)	0.66	0.00	0.00	0.38	0.00	0.00	0.36	0.00	0.00	0.00	0.00	0.00
Avail Cap(c_a), veh/h	768	0	0	850	0	0	1412	0	0	0	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d), s/veh	31.9	0.0	0.0	30.1	0.0	0.0	5.3	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	2.1	0.0	0.0	0.6	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0 7.9	0.0	0.0	0.0	0.0	0.0	0.0 4.7	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln		0.0	0.0	4.5	0.0	0.0	4.7	0.0	0.0	0.0	0.0	0.0
Unsig. Movement Delay, s/veh	34.0	0.0	0.0	30.7	0.0	0.0	5.5	0.0	0.0	0.0	0.0	0.0
LnGrp Delay(d),s/veh LnGrp LOS	34.0 C	0.0 A	0.0 A	30.7 C	0.0 A		5.5 A	0.0 A	0.0 A		0.0 A	
			^		145	A	^	515		A	0	A
Approach Vol, veh/h		239 34.0			30.7			5.5			0.0	
Approach LOS					30.7 C			٨			0.0	
Approach LOS		С			C			А				
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		61.0		19.4		61.0		19.4				
Change Period (Y+Rc), s		6.0		6.0		6.0		6.0				
Max Green Setting (Gmax), s		55.0		33.0		55.0		33.0				
Max Q Clear Time (g_c+l1), s		10.4		12.1		0.0		7.2				
Green Ext Time (p_c), s		3.5		1.3		0.0		0.8				
Intersection Summary												
HCM 6th Ctrl Delay			17.1									
HCM 6th LOS			В									

Intersection						
Int Delay, s/veh	8.0					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	LDL	4	₩ <u>₽</u>	ופויי	₩.	אופט
Traffic Vol, veh/h	16	298	232	8	10	19
Future Vol, veh/h						
,	16	298	232	8	10	19
Conflicting Peds, #/hr	_ 4	_ 0	_ 0	_ 4	0	2
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage	,# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	89	89	89	89	89	89
Heavy Vehicles, %	0	2	3	0	10	0
Mvmt Flow	18	335	261	9	11	21
IVIVIII( I IOW	10	000	201	3		21
Major/Minor N	/lajor1	N	Major2	N N	Minor2	
Conflicting Flow All	274	0	-	0	641	272
Stage 1	-	-	_	-	270	-
Stage 2	_	_	_	_	371	_
Critical Hdwy	4.1	_	_	_	6.6	5.7
Critical Hdwy Stg 1	7.1	_	_	<u>-</u>	5.5	J.1 -
	-	_				
Critical Hdwy Stg 2	-	_	-	-	5.5	-
Follow-up Hdwy	2.2	-	-	-	3.59	3.3
Pot Cap-1 Maneuver	1301	-	-	-	419	801
Stage 1	-	-	-	-	757	-
Stage 2	-	-	-	-	681	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1296	_	_	-	409	796
Mov Cap-2 Maneuver	_	_	_	_	409	-
Stage 1	_	_	_	_	741	_
Stage 2	_	_	_	<u>-</u>	678	_
Staye 2	-	-			070	
Approach	EB		WB		SB	
HCM Control Delay, s	0.4		0		11.3	
HCM LOS	V		•		В	
TIOWI LOO					<u></u>	
Minor Lane/Major Mvm	t	EBL	EBT	WBT	WBR S	SBLn1
Capacity (veh/h)		1296	-	-	-	600
HCM Lane V/C Ratio		0.014	_	-	-	0.054
HCM Control Delay (s)		7.8	0	_	_	
HCM Lane LOS		Α.	A	_	_	11.3 B
		$\neg$		-	-	
HCM 95th %tile Q(veh)		0	_	_	_	0.2

Intersection												
Int Delay, s/veh	0.6											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4				
Traffic Vol, veh/h	3	304	81	14	230	8	7	1	11	0	0	0
Future Vol, veh/h	3	304	81	14	230	8	7	1	11	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	<b>#</b> -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	89	89	89	89	92	89	92	89	92	92	92
Heavy Vehicles, %	2	2	1	0	3	2	0	2	0	2	2	2
Mvmt Flow	3	342	91	16	258	9	8	1	12	0	0	0
Major/Minor	Major1		N	Major2		ı	Minor1					
Conflicting Flow All	267	0	0	433	0	0	689	693	388			
Stage 1	-	_	-	_	-	_	394	394	_			
Stage 2	-	_	_	-	-	-	295	299	_			
Critical Hdwy	4.12	_	-	4.1	-	_	6.4	6.52	6.2			
Critical Hdwy Stg 1	-	_	_	-	-	-	5.4	5.52	-			
Critical Hdwy Stg 2	-	_	_	-	_	-	5.4	5.52	_			
Follow-up Hdwy	2.218	-	_	2.2	-	-		4.018	3.3			
Pot Cap-1 Maneuver	1297	_	_	1137	_	-	415	367	665			
Stage 1	-	-	_	-	-	-	686	605	-			
Stage 2	-	_	_	-	_	-	760	666	_			
Platoon blocked, %		_	_		-	_						
Mov Cap-1 Maneuver	1297	-	_	1137	_	_	407	0	665			
Mov Cap-2 Maneuver	-	-	_	-	-	-	407	0	-			
Stage 1	_	-	-	-	-	-	684	0	-			
Stage 2	-	-	-	-	-	-	747	0	-			
,												
Approach	EB			WB			NB					
HCM Control Delay, s	0.1			0.5			12					
HCM LOS							В					
Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR					
Capacity (veh/h)	533	1297	-	-	1137	-	-					
HCM Lane V/C Ratio	0.04	0.003	-	-	0.014	-	-					
HCM Control Delay (s)	12	7.8	0	-	8.2	0	-					
HCM Lane LOS	В	Α	Α	-	Α	Α	-					
HCM 95th %tile Q(veh)	0.1	0	-	-	0	-	-					

Intersection						
Int Delay, s/veh	5.7					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥	1,51	7	, tort	ሻ	<u> </u>
Traffic Vol, veh/h	123	78	206	158	98	270
Future Vol, veh/h	123	78	206	158	98	270
Conflicting Peds, #/hr	123	0	0	5	5	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	Stop -	None	-		-	None
	0	-	-	-	100	-
Storage Length			0		100	
Veh in Median Storage		-	0	-		0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	89	89	89	89	89	89
Heavy Vehicles, %	0	2	3	2	2	0
Mvmt Flow	138	88	231	178	110	303
Major/Minor N	Minor1	N	Major1	P	Major2	
Conflicting Flow All	849	325	0	0	414	0
	325			U	414	
Stage 1		-	-	-	-	-
Stage 2	524	-	-	-	- 4.40	-
Critical Hdwy	5.9	5.8	-	-	4.12	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	376	744	-	_	1145	-
Stage 1	737	-	-	-	-	-
Stage 2	598	_	_	-	-	-
Platoon blocked, %			_	_		_
Mov Cap-1 Maneuver	338	740	_	_	1140	_
Mov Cap-2 Maneuver	338	-	_		1170	_
•	733	_	-	_	_	
Stage 1		-	-	-	-	-
Stage 2	540	-	-	-	_	-
Approach	WB		NB		SB	
HCM Control Delay, s	22.4		0		2.3	
HCM LOS	С				2.0	
TIOW EOO						
Minor Lane/Major Mvm	t	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		-	-	428	1140	-
HCM Lane V/C Ratio		-	-	0.528		-
HCM Control Delay (s)		_	_		8.5	_
HCM Lane LOS		_	_	C	A	_
HCM 95th %tile Q(veh)		_	_	3	0.3	_
1.311 33th 70th Q(VOII)					3.0	

Intersection						
Int Delay, s/veh	0.7					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		<u> </u>	<u>₩</u>	אופוז	W	אפט
Traffic Vol, veh/h	0	363	237	0	24	11
Future Vol, veh/h	0	363	237	0	24	11
Conflicting Peds, #/hr	0	0	0	0	0	0
		Free	Free	Free	Stop	
Sign Control	Free					Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage	e,# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	89	89	89	89	89	89
Heavy Vehicles, %	0	2	3	0	0	0
Mvmt Flow	0	408	266	0	27	12
Main -/Min	NA=:A		Ma:0		A: O	
	Major1		Major2		Minor2	
Conflicting Flow All	-	0	-	0	674	266
Stage 1	-	-	-	-	266	-
Stage 2	-	-	-	-	408	-
Critical Hdwy	-	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	-	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	0	-	-	0	423	778
Stage 1	0	_	_	0	783	_
Stage 2	0	_	-	0	676	_
Platoon blocked, %		_	_		0.0	
Mov Cap-1 Maneuver	_	_	_	_	423	778
Mov Cap-1 Maneuver	_	<u>-</u>	_	<u>-</u>	423	-
Stage 1		_	_	_	783	_
	_	_				
Stage 2		-	-	-	676	-
Approach	EB		WB		SB	
HCM Control Delay, s	0		0		12.9	
HCM LOS	U		U		12.3 B	
TIOWI LOO					D	
Minor Lane/Major Mvn	nt	EBT	WBT S	SBLn1		
Capacity (veh/h)		-	-	494		
HCM Lane V/C Ratio		_	_	0.08		
			_	12.9		
				12.0		
HCM Control Delay (s)	)	_				
		-	-	B 0.3		



## TRAFFIC SIGNAL TIMING

# **BOULEVARD (CR ALT 511) & SUNSET ROAD**

# TOWNSHIP OF PEQUANNOCK

	SIG	TIN	ME			
					I	II
PHASE	2,3,6,7	<u>1,4,5,8</u>	<u>B,D,F,G</u>	<u>A,C,E,H</u>		
VEHICLE ACTUATED						
A – Boulevard (ROW)	G	R	W	DW	40	8
Ped Clearance	G	R	FDW	DW	15	15
Change	Y	R	DW	DW	4	4
Clearance	R	R	DW	DW	2	2
B – Sunset (ROW)	R	G	DW	DW	7-33	7-65
Change	R	Y	DW	DW	4	4
Clearance	R	R	DW	DW	2	2
PEDESTRIAN ACTIVATED						
A – Boulevard (ROW)	G	R	W	DW	40	8
Ped Clearance	G	R	FDW	DW	15	15
Change	Y	R	DW	DW	4	4
Clearance	R	R	DW	DW	2	2
B – Sunset (ROW)	R	G	DW	W	16	16
Ped Clearance	R	G	DW	FDW	16	16
Vehicle Extension	R	G	DW	DW	0-2	0-34
Change	R	Y	DW	DW	4	4
Clearance	R	R	DW	DW	2	2
FLASHING OPERATION	Y	R	DARK	DARK		

### NOTES:

- 1. Phase **B** memory and recall "Off".
- 2. Controller to rest in Phase A green.
- 3. Manual Control to be disconnected.
- 4. Vehicle Extension to be set at 2 seconds.

## Hours of Operation / Cycle Length

Time I - ALL OTHER TIMES, C = Variable

Time II - 2:30 P.M. - 3:30 P.M., Monday – Friday / C = Variable

09/16/02 Rev. 01/14/03 **Rev. 03/25/2010**