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2022 Existing Traffic Conditions

2024 No-Build Traffic Conditions

2024 Build Traffic Conditions

INTRODUCTION

This Traffic Impact Study was prepared to investigate the potential impacts of the proposed multi-family residential development on the adjacent roadway network. The subject property is located along the northerly side of East Main Street (County Road 510) between Cold Hill Road and Heritage Manor Drive in the Borough of Mendham, Morris County, New Jersey. The site location is shown on appended **Figure 1**.

The subject property is designated as Block 801, Lot 20 as depicted on the Borough of Mendham Tax Map. The site has approximately 508 feet of frontage along East Main Street. The existing site is occupied by the Mendham Village Shopping Center, which consists of 80,472 square feet of retail space located on the southerly portion of the property and a 53,914-square-foot health and racquet club with six (6) tennis courts located on the northerly portion of the property. Access is presently provided via three (3) full-movement driveways along East Main Street. Under the proposed development program, the existing retail Mendham Village Shopping Center would remain as-is, and the racquet club would be demolished and replaced with a 75-unit multi-family residential building. Access is proposed via two (2) full-movement driveways along East Main Street, and one (1) ingress-only driveway along East Main Street.

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 (existing site driveways) 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, 6th Edition (HCM) and the Synchro 11 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.

2022 EXISTING CONDITION

2022 EXISTING ROADWAY CONDITIONS

The proposed mixed-use development is located along the northerly side of East Main Street (County Road 510) between Cold Hill Road and Heritage Manor Drive in the Borough of Mendham, Morris County, New Jersey. The subject property is designated as Block 801, Lot 20 as depicted on the Brough of Mendham Tax Map. The site has approximately 508 feet of frontage along East Main Street. Land uses in the area are a mix of commercial and residential uses.

East Main Street (a.k.a. CR 510) is classified as an Urban Minor Arterial roadway with a general east-west orientation and is under the jurisdiction of Morris County. Along the site frontage, the roadway provides one (I) lane of travel in each direction and has a posted speed limit of 35 mph. Curb and sidewalk are provided along both sides of the roadway, shoulders are not provided, and on-street parking is not permitted. East Main Street provides east-west mobility within the Borough of Mendham and neighboring municipalities for a mix of commercial, recreational, institutional, and residential uses along its length.

East Main Street and the existing three (3) site driveways intersect to form three (3) unsignalized T-intersections with the site driveway approaches operating under stop control. The easterly and westerly site driveways provide one (1) shared left-turn/right-turn egress lane and one (1) ingress lane. The ingress and egress lanes of the central site driveway are separated by a landscaped median and each provide approximately 24-feet of width. As such, the egress lane of the central site driveway operates as one (1) exclusive right-turn lane and one (1) exclusive left-turn lane. Crosswalks are provided across all three (3) site driveways.

2022 EXISTING TRAFFIC VOLUMES

Manual turning movement counts were collected during the typical weekday morning, weekday evening, and Saturday midday 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 locations:

- ♦ Intersection of East Main Street and the easterly site driveway
- ♦ Intersection of East Main Street and the central site driveway
- Intersection of East Main Street and the westerly site driveway

Specifically, counts were conducted on the following dates and during the following times:

- ♦ Thursday, March 7, 2019, from 7:00 a.m. to 9:00 a.m. and from 4:00 p.m. to 7:00 p.m.
- ♦ Saturday, March 9, 2019, from 11:00 a.m. to 2:00 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. 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 morning peak hour occurred from 7:15 a.m. to 8:15 a.m.; the weekday evening peak hour occurred from 4:45 p.m. to 5:45 p.m.; and the Saturday midday peak hour occurred from 11:45 a.m. to 12:45 p.m. The Technical Appendix contains a summary of the turning movement count data. The traffic count program also revealed the trip generation of the existing site. **Table I** provides the as-counted weekday morning, weekday evening, and Saturday midday peak-hour trip generation volumes associated with the existing 80,472 square feet of retail space and 53,914-square-foot health and racquet club.

TABLE I - AS-COUNTED TRIP GENERATION OF THE EXISTING SITE

		kday <mark>M</mark> ο eak Hοι	_		kday Eve Peak Hou	•		ırday Mid Peak Hou	•
Land Use	Enter	Exit	Total	Enter	Exit	Total	Enter	Exit	Total
Existing Site 80,472 SF Retail 53,914 SF H&R Club	119	123	242	212	278	490	188	251	439

It is noted that the 2019 original traffic volume data was grown to the current year 2022, in order to represent the existing traffic volumes. In accordance with industry guidelines, the original traffic volumes at the study intersections were increased by 1.00% annually for three (3) years. The 2022 Existing weekday morning, weekday evening, and Saturday midday peak-hour volumes are summarized on appended **Figure 2**. The 1.00% background growth rate was obtained from the New Jersey Department of Transportation (NJDOT) Annual Background Growth Rate Table.

2022 EXISTING LOS/CAPACITY ANALYSIS

A Level of Service and Volume/Capacity analysis was conducted for the 2022 Existing Condition during the weekday morning, weekday evening, and Saturday midday peak hours at the existing site driveways. Under the existing condition, the turning movements at the westerly site driveway are calculated to operate at Level of Service B or better during all peak hours studied. The turning movements at the central site driveway are calculated to operate at Level of Service E or better during all peak hours studied. The turning movements at the easterly site driveway are calculated to operate at Level of Service C or better during all peak hours studied.

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 multi-family residential development is expected to be fully constructed. In accordance with industry guidelines, the existing traffic volumes at the study intersections were increased by 1.00% annually for two (2) years. The 1.00% background growth rate was obtained from the 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 Zoning Director of the Borough of Mendham, there are no planned development projects within the area of the subject site.

It should be noted that while there are no planned developments, based on consultations with Morris County, an improvement project within the vicinity of the site is proposed. The roadway improvement plan includes restriping East Main Street to provide one (I) lane in each direction, and one (I) shared center-left-turn lane. 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 morning, weekday evening, and Saturday midday 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 morning, weekday evening, and Saturday midday peak hours at the existing site driveways. The turning movements at the easterly site driveway are calculated to operate generally consistently with the findings of the Existing Condition during all peak hours studied. The turning movements at the central site driveway are calculated to operate generally consistently with the findings of the Existing Condition during all peak hours studied. The turning movements at the westerly site driveway are calculated to operate generally consistently with the findings of the Existing Condition during all peak hours studied.

2024 BUILD CONDITION

The site-generated traffic volume of the proposed multi-family residential development 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 development were prepared utilizing the ITE's <u>Trip Generation Manual</u>, IIth Edition. Trip generation rates associated with Land Use 491 "Racquet/Tennis Club" were cited for the existing health and racquet club, and Land Use 221 "Multifamily Housing (Mid-Rise) were cited for the proposed 75-unit residential building. **Table 2** provides the trip generation volumes associated with the existing racquet club. It should be noted that ITE does not provide weekday morning or Saturday midday peak-hour trip generation rates for Land Use 491 "Racquet/Tennis Club." As such, no trip reduction was considered during the weekday morning peak hour, and the Saturday midday peak-hour trip generation was assumed to be the same as the weekday evening peak hour.

TABLE 2 – EXISTING HEALTH AND RACQUET CLUBTRIP GENERATION

		kday Mo eak Hou	•		kday Ev eak Hou	_		ırday <mark>M</mark> i eak Hou	•
Land Use	Enter	Exit	Total	Enter	Exit	Total	Enter	Exit	Total
Existing 53,914 SF / 6 courts Racquet/Tennis Club ITE Land Use 491				12	11	23	12	11	23
Difference				-12	-11	-23	-12	-11	-23

As shown in Table 2, the removal of the 53,914-square-foot health and racquet club would result in a reduction of 23 total trips during the weekday evening peak hour and 23 total trips during the Saturday midday peak hour. Trip generation rates associated with Land Use 221 "Multifamily Housing (Mid-Rise)" were cited for the proposed 75-unit residential building. **Table 3** provides the weekday morning, weekday evening, and Saturday midday peak-hour trip generation associated with the subject site.

TABLE 3 - EXISTING AND PROPOSED TRIP GENERATION COMPARISON

		kday Mo eak Hou			kday Eve eak Hou			rday Mi eak Hou	
Land Use	Enter	Exit	Total	Enter	Exit	Total	Enter	Exit	Total
Existing 6 Court Racquet/ Tennis Club ITE Land Use 491		1		12	11	23	12	11	23
Proposed 75-Unit Apartments ITE Land Use 221	6	22	28	18	П	29	15	14	29
Proposed Trip Increase	+6	+22	+28	+6	+0	+6	+3	+3	+6
Existing Site Trip Generation	119	123	242	212	278	490	188	251	439
Total Proposed Site Trip Generation	125	145	270	218	278	496	191	254	445

As shown in Table 3, the proposed multi-family residential development would result in 28, 6, and 6 additional trips accessing the subject site during the weekday morning, weekday evening, and Saturday midday peak hours, respectively. 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.

Additionally, Chapter 6 of ITE's <u>Trip Generation Handbook</u>, 3rd Edition states that internally captured trips can be a component of the travel patterns at mixed-use developments, such as the overall subject site. When combined within a single development, individual land uses tend to interact, and thus attract a portion of each other's trip generation, such as residents visiting the retail stores. Therefore, based on the nature of the proposed and existing uses, an internal capture credit would be applicable for this site. However, in order to conduct a conservative analysis, internally captured trips were not considered within this assessment.

TRIP ASSIGNMENT/DISTRIBUTION

The trips generated by the proposed development were distributed according to the existing travel pattern along East Main Street and the access management plan of the site. The "New" Site-Generated Traffic Volumes are illustrated on appended **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 morning, weekday evening, and Saturday midday peak hours at the site driveways. **Tables 4** through **12** compare the Existing, No-Build, and Build Conditions Level of Service and delay values. The turning movements at the westerly site driveway are calculated to operate at Level of Service B, or better, during all peak hours studied. The turning movements at the central site driveway are calculated to operate generally consistently with the findings of the No-Build Condition during all peak hours studied. The turning movements at the easterly site driveway are calculated to operate at Level of Service C, or better, during all peak hours studied.

COMPARATIVE LEVEL OF SERVICE (DELAY) TABLES

EAST MAIN STREET & WESTERLY SITE DRIVEWAY

EB (Eastbound) approach is the East Main Street approach SB (Southbound) approach is the westerly site driveway approach X(n) = Level of Service (seconds of delay)

TABLE 4 - WEEKDAY MORNING PEAK HOUR

Lane Group	2022 Existing	2024 No-Build	2024 Build
EB Left	A (8.4)	A (8.4)	A (8.4)

TABLE 5 - WEEKDAY EVENING PEAK HOUR

Lane Group	2022 Existing	2024 No-Build	2024 Build
EB Left	B (10.3)	B (10.4)	B (10.4)

TABLE 6 – SATURDAY MIDDAY PEAK HOUR

Lane Group	2022 Existing	2024 No-Build	2024 Build
EB Left	A (8.4)	A (8.4)	A (8.4)

EAST MAIN STREET & CENTRAL SITE DRIVEWAY

EB (Eastbound) approach is the East Main Street approach SB (Southbound) approach is the central site driveway approach X(n) = Level of Service (seconds of delay)

TABLE 7 - WEEKDAY MORNING PEAK HOUR

Lane Group	2022 Existing	2024 No-Build	2024 Build
EB Left	A (8.5)	A (8.5)	A (8.6)
SB Left	C (21.2)	C (21.7)	C (22.8)
SB Right	B (10.2)	B (10.3)	B (10.4)

TABLE 8 - WEEKDAY EVENING PEAK HOUR

Lane Group	2022 Existing	2024 No-Build	2024 Build
EB Left	B (10.6)	B (10.6)	B (10.7)
SB Left	E (44.9)	E (47.5)	E (49.0)
SB Right	B (14.5)	B (14.7)	B (15.2)

TABLE 9 – SATURDAY MIDDAY PEAK HOUR

Lane Group	2022 Existing	2024 No-Build	2024 Build
EB Left	A (8.5)	A (8.6)	A (8.6)
SB Left	C (20.0)	C (20.4)	C (20.8)
SB Right	B (10.5)	B (10.5)	B (10.6)

EAST MAIN STREET & EASTERLY SITE DRIVEWAY

EB (Eastbound) approach is the East Main Street approach SB (Southbound) approach is the easterly site driveway approach X(n) = Level of Service (seconds of delay)

TABLE 10 - WEEKDAY MORNING PEAK HOUR

Lane Group	2022 Existing	2024 No-Build	2024 Build
EB Left	A (8.4)	A (8.4)	A (8.4)
SB Left/Right	B (13.5)	B (13.7)	C (13.6)

TABLE II - WEEKDAY EVENING PEAK HOUR

Lane Group	2022 Existing	2024 No-Build	2024 Build
EB Left	B (10.1)	B (10.1)	B (10.2)
SB Left/Right	C (21.1)	C (21.7)	C (21.7)

TABLE 12 - SATURDAY MIDDAY PEAK HOUR

Lane Group	2022 Existing	2024 No-Build	2024 Build
EB Left	A (8.2)	A (8.2)	A (8.2)
SB Left/Right	B (12.5)	B (12.6)	B (12.6)

SITE CIRCULATION/PARKING SUPPLY

A review was conducted of the proposed multi-family residential development using the Site Plan prepared by Stonefield, dated October 20, 2022. In completing this review, particular attention was focused on the site access, circulation, and parking supply.

Under the proposed development program, the existing 80,472-square-foot retail space would remain asis, the existing health and racquet club would be demolished, and a five (5)-story, 75-unit residential building, with ground-floor parking garage, and a separate premium vehicle storage building, including bicycle storage, would be constructed. A new surface parking lot with a turnaround drop-off/pickup area would be constructed at center of the proposed residential development. Additionally, improvements to the existing parking area

for the retail area are proposed, including striping of new parking spaces, and shared residential visitor parking. The center driveway has been redesigned to provide one (I) ingress driveway providing direct access to the residential development, and one (I) right-turn lane, and one (I) left-turn lane at the egress. Vehicular circulation throughout the residential development would be facilitated via 24-foot-wide, two-way drive aisles. A 24-foot by 90-foot loading zone, would be provided along the northeasterly side of the proposed residential building. Access to the site is proposed via two (2) full-movement driveways along East Main Street, and one (I) ingress-only driveway along East Main Street.

Regarding the parking requirements for the proposed residential development, the New Jersey Administrative Code Residential Site Improvements Standards (RSIS) (NJAC 5:21) requires 1.8 parking spaces per one (1)-bedroom unit, two (2) spaces per two (2)-bedroom unit, and 2.1 spaces per three (3)-bedroom unit for mid-rise residential uses, and the Borough of Mendham requires one (1) space per employee for automobile service stations. For the proposed 75-unit residential development with 33 one (1)-bedroom units, 39 two (2)-bedroom units, and three (3) three (3)-bedroom units, this equates to 144 required residential parking spaces. For the premium parking garage with two (2) employees, this equates to two (2) parking spaces, for a total of 146 required parking spaces for the residential portion of the development. Regarding the parking requirements for the retail portion of the subject site, the Borough on Mendham Ordinance requires 3.5 parking spaces per 1,000 square feet of retail/commercial area. For the existing 80,472 square feet of retail area, this equates to 283 required retail parking spaces. The total parking requirement for the overall site is 428 spaces.

The parking garage would provide a total of 106 spaces for the exclusive use of the residents, with a minimum dimension of nine (9) feet wide by 18 feet deep, in accordance with industry standards. The residential surface parking lot would provide a total of 10 spaces for visitors, inclusive of two (2) ADA-accessible stalls, with a minimum dimension of nine (9) feet wide by 18 feet deep. As such, the parking supply within the residential development site would be 116 spaces. Restriping and improvements to the retail portion of the site would bring the retail parking supply to 341 spaces, inclusive of 28 residential visitor parking spaces, 15 of which would be marked and the remaining 13 visitor spaces being undesignated, but available for visitors to use. As such, the total parking supply for the overall site is 457 spaces, which meets the parking requirement and would be sufficient to support the overall site parking demand.

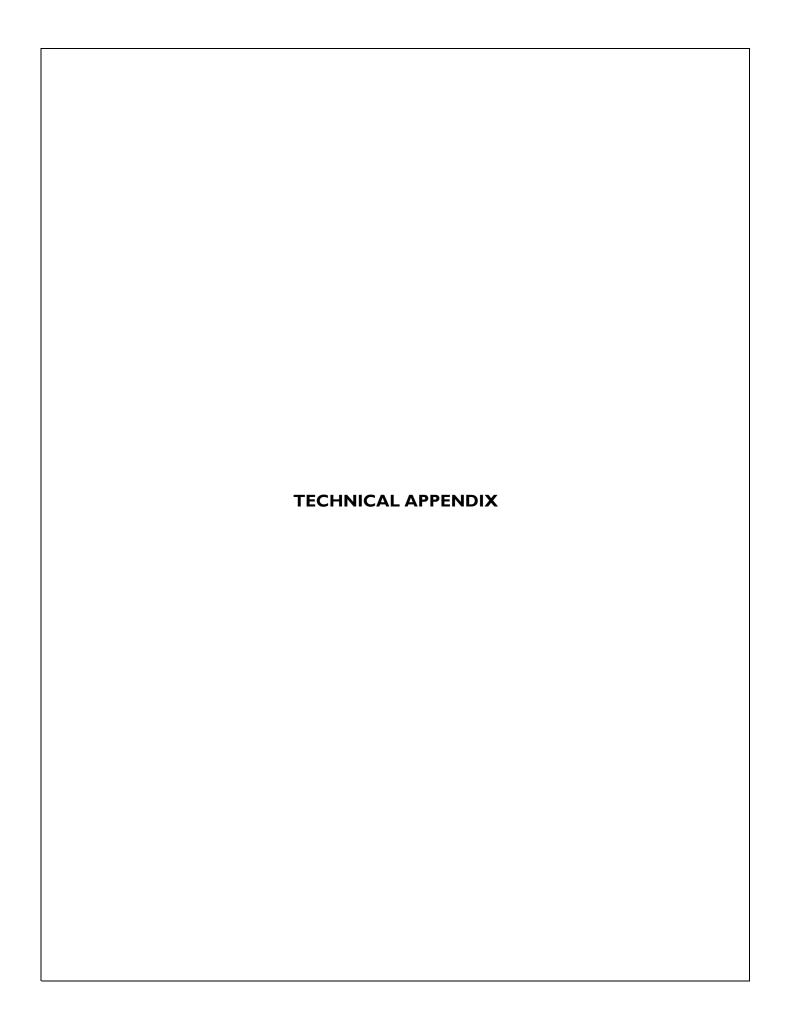
As per P.L. 2021, c.171 (C.40:55D-66.18 et al.), all projects involving multifamily dwellings with more than five (5) units must have 15% of the parking supply be pre-wired for electric vehicle charging stations ("makeready"). Of the make-ready spaces, 5% must be ADA compliant. For the proposed parking supply of 116 parking spaces, this equates to 17 make-ready spaces, with one (1) being ADA accessible. The electric vehicle requirements consider electric vehicle spaces as a minimum of two (2) parking spaces for the purpose of

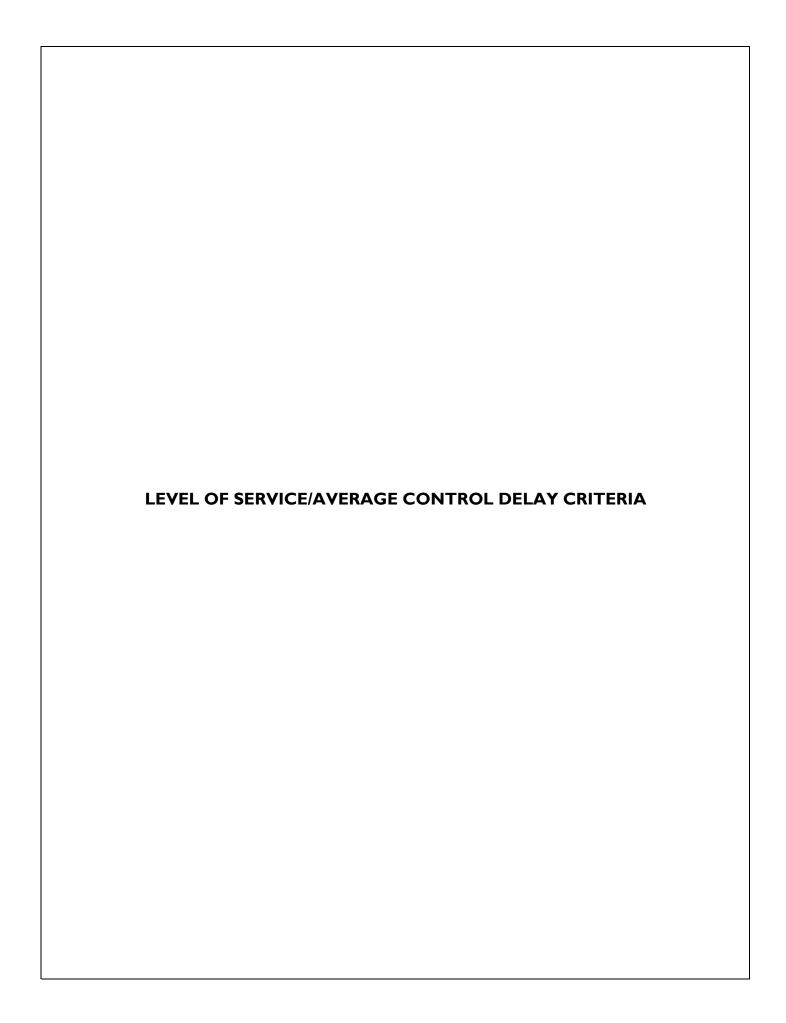
satisfying parking requirements, up to a 10% reduction of total requirement. As such, the residential development plan would be considered to provide 130 (116 +14) parking spaces.

CONCLUSIONS

This report was prepared to examine the potential traffic and parking impacts of the proposed multi-family residential development. 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 proposed parking supply would be sufficient to accommodate the anticipated demand for the proposed and existing developments within the mixed-use overall site. The site driveways and proposed on-site layout would provide for effective access to and from the subject property.

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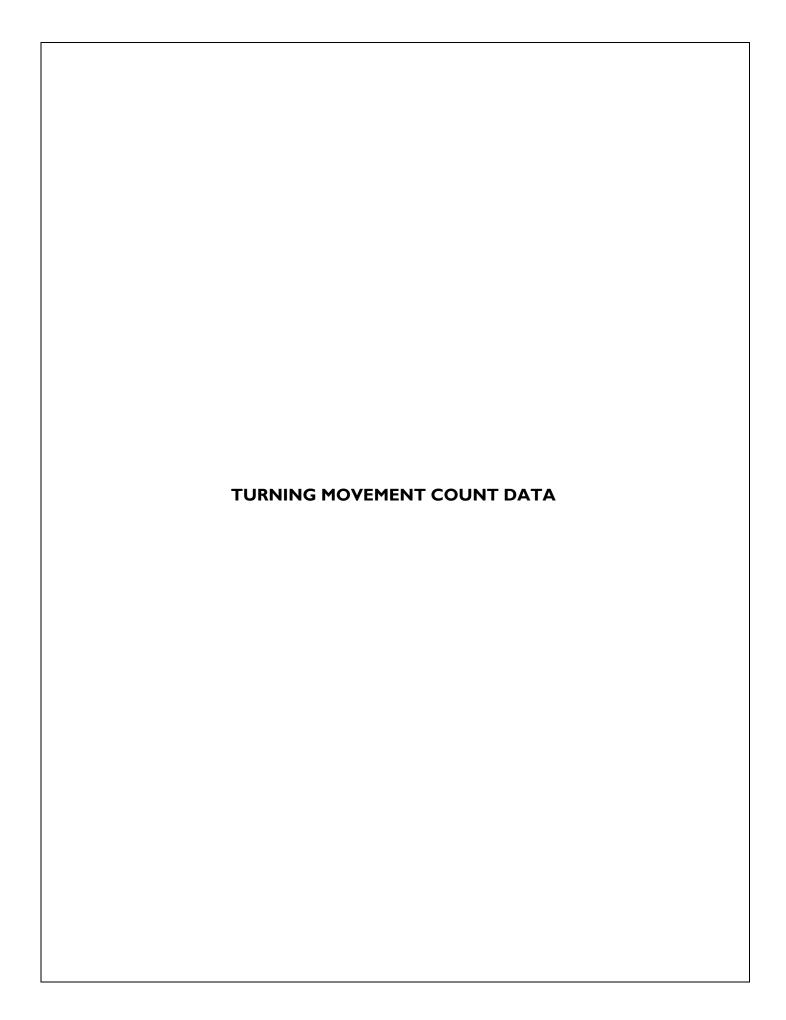
LEVEL OF SERVICE /AVERAGE CONTROL DELAY CRITERIA

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)
A	<=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



201.340.4468 t. 201.340.4472 f.

Intersection of East Main Street (E/W) and Easterly Site Driveway (N/S) Mendham, Morris County, New Jersey

Thursday, March 7, 2019

File Name: Not Named 1

Site Code : 00018203 Start Date : 3/7/2019

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Groups Printed- Auto - HV - Bus/SB

		East Mair	Street	- Gi	East Main Street Easterly Site Driveway								
		Eastbo				Westb			Lu.	South		29	
Start Time	Left	Thru	Right	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
07:00 AM	0	118	0	118	0	127	2	129	0	0	0	0	247
07:15 AM	0	146	0	146	0	134	4	138	0	0	0	0	284
07:30 AM	0	188	0	188	0	103	3	106	2	0	1	3	297
07:45 AM	0	173	0	173	0	121	6	127	1	0	1	2	302
Total	0	625	0	625	0	485	15	500	3	0	2	5	1130
08:00 AM	1	177	0	178	0	105	4	109	1	0	2	3	290
08:15 AM	0	157	0	157	0	92	1	93	3	0	0	3	253
08:30 AM	3	169	0	172	0	96	4	100	1	0	0	1	273
08:45 AM	1	155	0	156	0	107	11	118	5	0	1	6	280
Total	5	658	0	663	0	400	20	420	10	0	3	13	1096
*** BREAK ***													
04:00 PM	0	106	0	106	0	105	4	109	0	0	0	0	215
04:15 PM	0	116	0	116	0	146	9	155	2	0	5	7	278
04:30 PM	1	119	0	120	0	167	8	175	4	0	2	6	301
04:45 PM	4	121	0	125	0	238	8	246	6	0	2	8	379
Total	5	462	0	467	0	656	29	685	12	0	9	21	1173
05:00 PM	5	122	0	127	0	156	6	162	4	0	1	5	294
05:15 PM	1	131	0	132	0	215	1	216	4	0	1	5	353
05:30 PM	1	108	0	109	0	213	4	217	5	0	1	6	332
05:45 PM	1	125	0	126	0	205	5	210	3	0	0	3	339
Total	8	486	0	494	0	789	16	805	16	0	3	19	1318
06:00 PM	3	111	0	114	0	151	3	154	6	0	1	7	275
06:15 PM	0	102	0	102	0	177	2	179	0	0	2	2	283
06:30 PM	1	84	0	85	0	160	5	165	3	0	1	4	254
06:45 PM	1	73	0	74	0	156	2	158	2	0	0	2	234
Total	5	370	0	375	0	644	12	656	11	0	4	15	1046
Grand Total	23	2601	0	2624	0	2974	92	3066	52	0	21	73	5763
Apprch %	0.9	99.1	0		0	97	3		71.2	0	28.8		
Total %	0.4	45.1	0	45.5	0	51.6	1.6	53.2	0.9	0	0.4	1.3	
Auto	23	2573	0	2596	0	2933	92	3025	52	0	21	73	5694
% Auto	100	98.9	0	98.9	0	98.6	100	98.7	100	0	100	100	98.8
HV	0	9	0	9	0	10	0	10	0	0	0	0	19
% HV	0	0.3	0	0.3	0	0.3	0	0.3	0	0	0	0	0.3
Bus/SB	0	19	0	19	0	31	0	31	0	0	0	0	50
% Bus/SB	0	0.7	0	0.7	0	1	0	1	0	0	0	0	0.9

Stonefield Engineering & Design, LLC

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

Intersection of East Main Street (E/W) and Easterly Site Driveway (N/S)

Mendham, Morris County, New Jersey

Thursday, March 7, 2019

File Name: Not Named 1

Site Code : 00018203 Start Date : 3/7/2019

Page No : 2

	East Main Street Eastbound					East Mair	1 Street		Ea	sterly Site	Drivewa	ıy	
		Eastb	ound			Westb	ound			South	ound		
Start Time	Left	Thru	Right	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 07:													
Peak Hour for Entire	Intersection	n Begins at (07:15 AM										
07:15 AM	0	146	0	146	0	134	4	138	0	0	0	0	284
07:30 AM	0	188	0	188	0	103	3	106	2	0	1	3	297
07:45 AM	0	173	0	173	0	121	6	127	1	0	1	2	302
08:00 AM	1	177	0	178	0	105	4	109	1	0	2	3	290
Total Volume	1	684	0	685	0	463	17	480	4	0	4	8	1173
% App. Total	0.1	99.9	0		0	96.5	3.5		50	0	50		
PHF	.250	.910	.000	.911	.000	.864	.708	.870	.500	.000	.500	.667	.971
Auto	1	673	0	674	0	440	17	457	4	0	4	8	1139
% Auto	100	98.4	0	98.4	0	95.0	100	95.2	100	0	100	100	97.1
HV	0	3	0	3	0	5	0	5	0	0	0	0	8
% HV	0	0.4	0	0.4	0	1.1	0	1.0	0	0	0	0	0.7
Bus/SB	0	8	0	8	0	18	0	18	0	0	0	0	26
% Bus/SB	0	1.2	0	1.2	0	3.9	0	3.8	0	0	0	0	2.2
Peak Hour Analysis F	rom 12:00 P	PM to 06:45	PM - Peak	1 of 1									
Peak Hour for Entire													
04:45 PM	4	121	0	125	0	238	8	246	6	0	2	8	379
05:00 PM	5	122	0	127	0	156	6	162	4	0	1	5	294
05:15 PM	1	131	0	132	0	215	1	216	4	0	1	5	353
05:30 PM	1	108	0	109	0	213	4	217	5	0	1	6	332
Total Volume	11	482	0	493	0	822	19	841	19	0	5	24	1358
% App. Total	2.2	97.8	0		0	97.7	2.3		79.2	0	20.8		
PHF	.550	.920	.000	.934	.000	.863	.594	.855	.792	.000	.625	.750	.896
Auto	11	480	0	491	0	817	19	836	19	0	5	24	1351
% Auto	100	99.6	0	99.6	0	99.4	100	99.4	100	0	100	100	99.5
HV	0	2	0	2	0	0	0	0	0	0	0	0	2
% HV	0	0.4	0	0.4	0	0	0	0	0	0	0	0	0.1
Bus/SB	0	0	0	0	0	5	0	5	0	0	0	0	5
% Bus/SB	0	0	0	0	0	0.6	0	0.6	0	0	0	0	0.4

Stonefield Engineering & Design, LLC

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

Intersection of East Main Street (E/W) and Central Site Driveway (N/S)
Mendham, Morris County, New Jersey

Thursday, March 7, 2019

File Name: Not Named 1

Site Code : 00018203 Start Date : 3/7/2019

Page No : 1

Groups Printed- Auto - HV - Bus/SB

		East Mair	n Stroot	G	roups Prin		n Street	us/3D	Co	ntral Cita	e Drivewa	N/	
		East Mail				West			Ce	South		ıy	
Start Time	Left	Thru	Right	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
07:00 AM	0	118	0	118	Night	127	2	129	0	0	0	лир. тотат О	247
07:15 AM	0	146	0	146	0	134	4	138	0	0	0	0	284
07:30 AM	0	188	0	188	0	103	3	106	2	0	1	3	297
07:45 AM	0	173	0	173	0	121	6	127	1	0	1	2	302
Total	0	625	0	625	0	485	15	500	3	0	2	5	1130
ı				'				'				"	
08:00 AM	1	177	0	178	0	105	4	109	1	0	2	3	290
08:15 AM	0	157	0	157	0	92	1	93	3	0	0	3	253
08:30 AM	3	169	0	172	0	96	4	100	1	0	0	1	273
08:45 AM	1	155	0	156	0	107	11	118	5	0	1	6	280
Total	5	658	0	663	0	400	20	420	10	0	3	13	1096
*** BREAK ***													
04:00 PM	13	96	0	109	0	96	9	105	10	0	23	33	247
04:15 PM	21	104	0	125	0	139	12	151	12	0	45	57	333
04:30 PM	21	94	0	115	0	157	12	169	26	0	23	49	333
04:45 PM	24	107	0	131	0	212	17	229	18	0	38	56	416
Total	79	401	0	480	0	604	50	654	66	0	129	195	1329
ı				ı				ı				Į.	
05:00 PM	27	107	0	134	0	156	14	170	20	0	48	68	372
05:15 PM	34	102	0	136	0	203	12	215	30	0	33	63	414
05:30 PM	26	90	0	116	0	193	20	213	19	0	33	52	381
05:45 PM	23	107	0	130	0	185	20	205	19	0	30	49	384
Total	110	406	0	516	0	737	66	803	88	0	144	232	1551
06:00 PM	20	91	0	111	0	139	13	152	23	0	36	59	322
06:15 PM	16	82	0	98	0	167	12	179	20	0	30	50	327
06:30 PM	21	67	0	88	0	151	10	161	18	0	26	44	293
06:45 PM	15	62	0	77	0	145	11	156	12	0	21	33	266
Total	72	302	0	374	0	602	46	648	73	0	113	186	1208
,				'				'				,	
Grand Total	266	2392	0	2658	0	2828	197	3025	240	0	391	631	6314
Apprch %	10	90	0		0	93.5	6.5		38	0	62		
Total %	4.2	37.9	0	42.1	0	44.8	3.1	47.9	3.8	0	6.2	10	
Auto	266	2364	0	2630	0	2787	197	2984	240	0	391	631	6245
% Auto	100	98.8	0	98.9	0	98.6	100	98.6	100	0	100	100	98.9
HV	0	9	0	9	0	10	0	10	0	0	0	0	19
% HV	0	0.4	0	0.3	0	0.4	0	0.3	0	0	0	0	0.3
Bus/SB	0	19	0	19	0	31	0	31	0	0	0	0	50
% Bus/SB	0	0.8	0	0.7	0	1.1	0	1	0	0	0	0	0.8

201.340.4468 t. 201.340.4472 f.

Intersection of East Main Street (E/W) and Central Site Driveway (N/S)

Mendham, Morris County, New Jersey

Thursday, March 7, 2019

File Name: Not Named 1

Site Code : 00018203 Start Date : 3/7/2019

Page No : 2

			Main Street East Main Street Central Site Driveway astbound Westbound Southbound			ıy							
		Eastb				Westb				South			
Start Time	Left	Thru	Right	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 07:0													
Peak Hour for Entire		ŭ		1								1	
07:15 AM	0	146	0	146	0	134	4	138	0	0	0	0	284
07:30 AM	0	188	0	188	0	103	3	106	2	0	1	3	297
07:45 AM	0	173	0	173	0	121	6	127	1	0	1	2	302
MA 00:80	1	177	0	178	0	105	4	109	1	0	2	3	290
Total Volume	1	684	0	685	0	463	17	480	4	0	4	8	1173
% App. Total	0.1	99.9	0		0	96.5	3.5		50	0	50		
PHF	.250	.910	.000	.911	.000	.864	.708	.870	.500	.000	.500	.667	.971
Auto	1	673	0	674	0	440	17	457	4	0	4	8	1139
% Auto	100	98.4	0	98.4	0	95.0	100	95.2	100	0	100	100	97.1
HV	0	3	0	3	0	5	0	5	0	0	0	0	8
% HV	0	0.4	0	0.4	0	1.1	0	1.0	0	0	0	0	0.7
Bus/SB	0	8	0	8	0	18	0	18	0	0	0	0	26
% Bus/SB	0	1.2	0	1.2	0	3.9	0	3.8	0	0	0	0	2.2
Peak Hour Analysis Fr	rom 12:00 P	M to 06:45	PM - Peak	: 1 of 1									
Peak Hour for Entire	Intersection	Begins at (04:45 PM										
04:45 PM	24	107	0	131	0	212	17	229	18	0	38	56	416
05:00 PM	27	107	0	134	0	156	14	170	20	0	48	68	372
05:15 PM	34	102	0	136	0	203	12	215	30	0	33	63	414
05:30 PM	26	90	0	116	0	193	20	213	19	0	33	52	381
Total Volume	111	406	0	517	0	764	63	827	87	0	152	239	1583
% App. Total	21.5	78.5	0		0	92.4	7.6		36.4	0	63.6		
PHF	.816	.949	.000	.950	.000	.901	.788	.903	.725	.000	.792	.879	.951
Auto	111	404	0	515	0	759	63	822	87	0	152	239	1576
% Auto	100	99.5	0	99.6	0	99.3	100	99.4	100	0	100	100	99.6
HV	0	2	0	2	0	0	0	0	0	0	0	0	2
% HV	0	0.5	0	0.4	0	0	0	0	0	0	0	0	0.1
Bus/SB	0	0	0	0	0	5	0	5	0	0	0	0	5
% Bus/SB	0	0	0	0	0	0.7	0	0.6	0	0	0	0	0.3

201.340.4468 t. 201.340.4472 f.

Intersection of East Main Street (E/W) and Westerly Site Driveway (N/S) Mendham, Morris County, New Jersey

Thursday, March 7, 2019 Page No : 1

Groups	Printed-	Auto -	HV -	Bus/SB
--------	----------	--------	------	--------

		East Maii	n Street	G	East Main Street Westerly Site Driveway								
		Eastbe				West			VVC	South		ау	
Start Time	Left	Thru	Right	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
07:00 AM	1	125	0	126	0	129	0	129	0	0	0	0	255
07:15 AM	2	159	0	161	0	129	0	129	0	0	2	2	292
07:30 AM	1	186	0	187	0	111	0	111	0	0	6	6	304
07:45 AM	2	162	0	164	0	129	2	131	0	0	1	1	296
Total	6	632	0	638	0	498	2	500	0	0	9	9	1147
08:00 AM	1	175	0	176	0	105	0	105	1	0	1	2	283
08:15 AM	2	177	0	179	0	98	2	100	0	0	1	1	280
08:30 AM	1	178	0	179	0	106	0	106	0	0	1	1	286
08:45 AM	8	160	0	168	0	120	2	122	0	0	2	2	292
Total	12	690	0	702	0	429	4	433	1	0	5	6	1141
*** BREAK ***													
04:00 PM	4	108	0	112	0	116	3	119	1	0	1	2	233
04:15 PM	1	125	0	126	0	182	2	184	0	0	0	0	310
04:30 PM	5	115	0	120	0	179	1	180	0	0	1	1	301
04:45 PM	2	130	0	132	0	257	4	261	1	0	3	4	397
Total	12	478	0	490	0	734	10	744	2	0	5	7	1241
05:00 PM	0	134	0	134	0	190	1	191	0	0	4	4	329
05:15 PM	0	136	0	136	0	237	0	237	0	0	2	2	375
05:30 PM	1	116	0	117	0	227	0	227	0	0	5	5	349
05:45 PM	1	130	0	131	0	215	0	215	0	0	1	1	347
Total	2	516	0	518	0	869	1	870	0	0	12	12	1400
06:00 PM	1	111	0	112	0	173	2	175	0	0	2	2	289
06:15 PM	2	98	0	100	0	196	1	197	0	0	5	5	302
06:30 PM	1	88	0	89	0	177	0	177	0	0	1	1	267
06:45 PM	1	77	0	78	0	165	1	166	0	0	1	1	245
Total	5	374	0	379	0	711	4	715	0	0	9	9	1103
Grand Total	37	2690	0	2727	0	3241	21	3262	3	0	40	43	6032
Apprch %	1.4	98.6	0		0	99.4	0.6		7	0	93		
Total %	0.6	44.6	0	45.2	0	53.7	0.3	54.1	0	0	0.7	0.7	
Auto	37	2662	0	2699	0	3200	21	3221	3	0	40	43	5963
% Auto	100	99	0	99	0	98.7	100	98.7	100	0	100	100	98.9
HV	0	9	0	9	0	10	0	10	0	0	0	0	19
% HV	0	0.3	0	0.3	0	0.3	0	0.3	0	0	0	0	0.3
Bus/SB	0	19	0	19	0	31	0	31	0	0	0	0	50
% Bus/SB	0	0.7	0	0.7	0	1	0	1	0	0	0	0	0.8

File Name: Not Named 1

Site Code : 00018203

Start Date : 3/7/2019

201.340.4468 t. 201.340.4472 f.

Intersection of East Main Street (E/W) and Westerly Site Driveway (N/S)

Page No : 2

File Name: Not Named 1

Site Code : 00018203 Start Date : 3/7/2019

Mendham, Morris County, New Jersey		
Thursday, March 7, 2019		

		East Mai				East Mair Westb			We	esterly Sit	te Drivew	ay	
Start Time	Left	Thru	Right	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 07:0				нрр. тогат	Rigiit	IIIIu	Leit	нрр. тогат	Rigitt	IIIIu	Leit	Арр. тогат	IIIL. IULAI
Peak Hour for Entire													
07:15 AM	2	159	0	161	0	129	0	129	0	0	2	2	292
07:30 AM	1	186	0	187	0	111	0	111	0	0	6	6	304
07:45 AM	2	162	0	164	0	129	2	131	0	0	1	1	296
08:00 AM	1	175	0	176	0	105	0	105	1	0	1	2	283
Total Volume	6	682	0	688	0	474	2	476	1	0	10	11	1175
% App. Total	0.9	99.1	0		0	99.6	0.4		9.1	0	90.9		
PHF	.750	.917	.000	.920	.000	.919	.250	.908	.250	.000	.417	.458	.966
Auto	6	671	0	677	0	451	2	453	1	0	10	11	1141
% Auto	100	98.4	0	98.4	0	95.1	100	95.2	100	0	100	100	97.1
HV	0	3	0	3	0	5	0	5	0	0	0	0	8
% HV	0	0.4	0	0.4	0	1.1	0	1.1	0	0	0	0	0.7
Bus/SB	0	8	0	8	0	18	0	18	0	0	0	0	26
% Bus/SB	0	1.2	0	1.2	0	3.8	0	3.8	0	0	0	0	2.2
Peak Hour Analysis Fi	rom 12:00 P	M to 06:45	i PM - Peak	1 of 1									
Peak Hour for Entire													
04:45 PM	2	130	0	132	0	257	4	261	1	0	3	4	397
05:00 PM	0	134	0	134	0	190	1	191	0	0	4	4	329
05:15 PM	0	136	0	136	0	237	0	237	0	0	2	2	375
05:30 PM	1	116	0	117	0	227	0	227	0	0	5	5	349
Total Volume	3	516	0	519	0	911	5	916	1	0	14	15	1450
% App. Total	0.6	99.4	0		0	99.5	0.5		6.7	0	93.3		
PHF	.375	.949	.000	.954	.000	.886	.313	.877	.250	.000	.700	.750	.913
Auto	3	514	0	517	0	906	5	911	1	0	14	15	1443
% Auto	100	99.6	0	99.6	0	99.5	100	99.5	100	0	100	100	99.5
HV	0	2	0	2	0	0	0	0	0	0	0	0	2
% HV	0	0.4	0	0.4	0	0	0	0	0	0	0	0	0.1
Bus/SB	0	0	0	0	0	5	0	5	0	0	0	0	5
% Bus/SB	0	0	0	0	0	0.5	0	0.5	0	0	0	0	0.3

201.340.4468 t. 201.340.4472 f.

Intersection of East Main Street (E/W) and Easterly Site Driveway (N/S) Mendham, Morris County, New Jersey

Saturday, March 9, 2019 Page No : 1

Groups Printed- Auto - HV - Bus/SB

		East Main	Stroot	T	очрот тит	East Mair	Stroot		Гоо	torly Cita	e Drivewa		
									Eas	Southb		y	
		Eastbo			1	Westb			1				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
11:00 AM	0	81	0	81	0	69	0	69	1	0	0	1	151
11:15 AM	3	81	0	84	0	59	4	63	8	0	4	12	159
11:30 AM	0	99	0	99	0	86	5	91	2	0	5	7	197
11:45 AM	1	91	0	92	0	106	1	107	3	0	1	4	203
Total	4	352	0	356	0	320	10	330	14	0	10	24	710
12:00 PM	1	96	0	97	0	91	2	93	4	0	2	6	196
12:15 PM	1	101	0	102	0	93	0	93	1	0	0	1	196
12:30 PM	3	109	0	112	0	101	0	101	1	0	0	1	214
12:45 PM	2	109	0	111	0	81	0	81	0	0	0	0	192
Total	7	415	0	422	0	366	2	368	6	0	2	8	798
01:00 PM	1	83	0	84	0	106	0	106	1	0	0	1	191
01:15 PM	2	93	0	95	0	98	0	98	1	0	0	1	194
01:30 PM	0	103	0	103	0	97	0	97	1	0	0	1	201
01:45 PM	1	86	0	87	0	113	0	113	1	0	0	1	201
Total	4	365	0	369	0	414	0	414	4	0	0	4	787
Grand Total	15	1132	0	1147	0	1100	12	1112	24	0	12	36	2295
Apprch %	1.3	98.7	0		0	98.9	1.1		66.7	0	33.3		
Total %	0.7	49.3	0	50	0	47.9	0.5	48.5	1	0	0.5	1.6	
Auto	15	1126	0	1141	0	1092	12	1104	24	0	12	36	2281
% Auto	100	99.5	0	99.5	0	99.3	100	99.3	100	0	100	100	99.4
HV	0	6	0	6	0	8	0	8	0	0	0	0	14
% HV	0	0.5	0	0.5	0	0.7	0	0.7	0	0	0	0	0.6
Bus/SB	0	0	0	0	0	0	0	0	0	0	0	0	0
% Bus/SB	0	0	0	0	0	0	0	0	0	0	0	0	0

		East Mai	n Street			East Mair	Street		Eas	sterly Site	Drivewa	ıy	
		Eastb	ound			Westb	ound			Southb	ound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 11:0													
Peak Hour for Entire	Intersection	Begins at 1	11:45 AM										
11:45 AM	1	91	0	92	0	106	1	107	3	0	1	4	203
12:00 PM	1	96	0	97	0	91	2	93	4	0	2	6	196
12:15 PM	1	101	0	102	0	93	0	93	1	0	0	1	196
12:30 PM	3	109	0	112	0	101	0	101	1	0	0	1	214
Total Volume	6	397	0	403	0	391	3	394	9	0	3	12	809
% App. Total	1.5	98.5	0		0	99.2	0.8		75	0	25		
PHF	.500	.911	.000	.900	.000	.922	.375	.921	.563	.000	.375	.500	.945
Auto	6	396	0	402	0	387	3	390	9	0	3	12	804
% Auto	100	99.7	0	99.8	0	99.0	100	99.0	100	0	100	100	99.4
HV	0	1	0	1	0	4	0	4	0	0	0	0	5
% HV	0	0.3	0	0.2	0	1.0	0	1.0	0	0	0	0	0.6
Bus/SB	0	0	0	0	0	0	0	0	0	0	0	0	0
% Bus/SB	0	0	0	0	0	0	0	0	0	0	0	0	0

File Name: Not Named 2

Site Code : 00018203

Start Date : 3/9/2019

201.340.4468 t. 201.340.4472 f.

Intersection of East Main Street (E/W) and Central Site Driveway (N/S) Mendham, Morris County, New Jersey

Saturday, March 9, 2019 Page No : 1

Groups Printed- Auto - HV - Bus/SB

		East Main	Street		r -	East Mair	Street	-	Ce	ntral Site	Drivewa	y	
		Eastbo				Westb				Southb			
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
11:00 AM	20	61	0	81	0	61	8	69	20	0	30	50	200
11:15 AM	27	54	0	81	0	50	13	63	30	0	29	59	203
11:30 AM	36	77	0	113	0	69	22	91	22	0	41	63	267
11:45 AM	21	69	0	90	0	95	12	107	23	0	25	48	245
Total	104	261	0	365	0	275	55	330	95	0	125	220	915
12:00 PM	30	73	0	103	0	78	15	93	24	0	33	57	253
12:15 PM	26	73	0	99	0	70	23	93	29	0	28	57	249
12:30 PM	29	80	0	109	0	89	12	101	32	0	34	66	276
12:45 PM	14	84	0	98	0	60	21	81	27	0	21	48	227
Total	99	310	0	409	0	297	71	368	112	0	116	228	1005
01:00 PM	31	55	0	86	0	92	14	106	29	0	30	59	251
01:15 PM	26	77	0	103	0	84	14	98	18	0	26	44	245
01:30 PM	28	82	0	110	0	77	20	97	21	0	22	43	250
01:45 PM	20	58	0	78	0	96	17	113	29	0	29	58	249
Total	105	272	0	377	0	349	65	414	97	0	107	204	995
Grand Total	308	843	0	1151	0	921	191	1112	304	0	348	652	2915
Apprch %	26.8	73.2	0		0	82.8	17.2		46.6	0	53.4		
Total %	10.6	28.9	0	39.5	0	31.6	6.6	38.1	10.4	0	11.9	22.4	
Auto	308	837	0	1145	0	913	191	1104	304	0	348	652	2901
% Auto	100	99.3	0	99.5	0	99.1	100	99.3	100	0	100	100	99.5
HV	0	6	0	6	0	8	0	8	0	0	0	0	14
% HV	0	0.7	0	0.5	0	0.9	0	0.7	0	0	0	0	0.5
Bus/SB	0	0	0	0	0	0	0	0	0	0	0	0	0
% Bus/SB	0	0	0	0	0	0	0	0	0	0	0	0	0

		East Mai	n Street			East Mair	Street		Ce	ntral Site	Drivewa	y	
		Eastb	ound			Westb	ound			Southb	ound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 11:0													
Peak Hour for Entire	Intersection	Begins at 1	11:45 AM										
11:45 AM	21	69	0	90	0	95	12	107	23	0	25	48	245
12:00 PM	30	73	0	103	0	78	15	93	24	0	33	57	253
12:15 PM	26	73	0	99	0	70	23	93	29	0	28	57	249
12:30 PM	29	80	0	109	0	89	12	101	32	0	34	66	276
Total Volume	106	295	0	401	0	332	62	394	108	0	120	228	1023
% App. Total	26.4	73.6	0		0	84.3	15.7		47.4	0	52.6		
PHF	.883	.922	.000	.920	.000	.874	.674	.921	.844	.000	.882	.864	.927
Auto	106	294	0	400	0	328	62	390	108	0	120	228	1018
% Auto	100	99.7	0	99.8	0	98.8	100	99.0	100	0	100	100	99.5
HV	0	1	0	1	0	4	0	4	0	0	0	0	5
% HV	0	0.3	0	0.2	0	1.2	0	1.0	0	0	0	0	0.5
Bus/SB	0	0	0	0	0	0	0	0	0	0	0	0	0
% Bus/SB	0	0	0	0	0	0	0	0	0	0	0	0	0

File Name: Not Named 2

Site Code : 00018203 Start Date : 3/9/2019

201.340.4468 t. 201.340.4472 f.

Intersection of East Main Street (E/W) and Westerly Site Driveway (N/S) Mendham, Morris County, New Jersey Saturday, March 9, 2019

File Name: Not Named 2

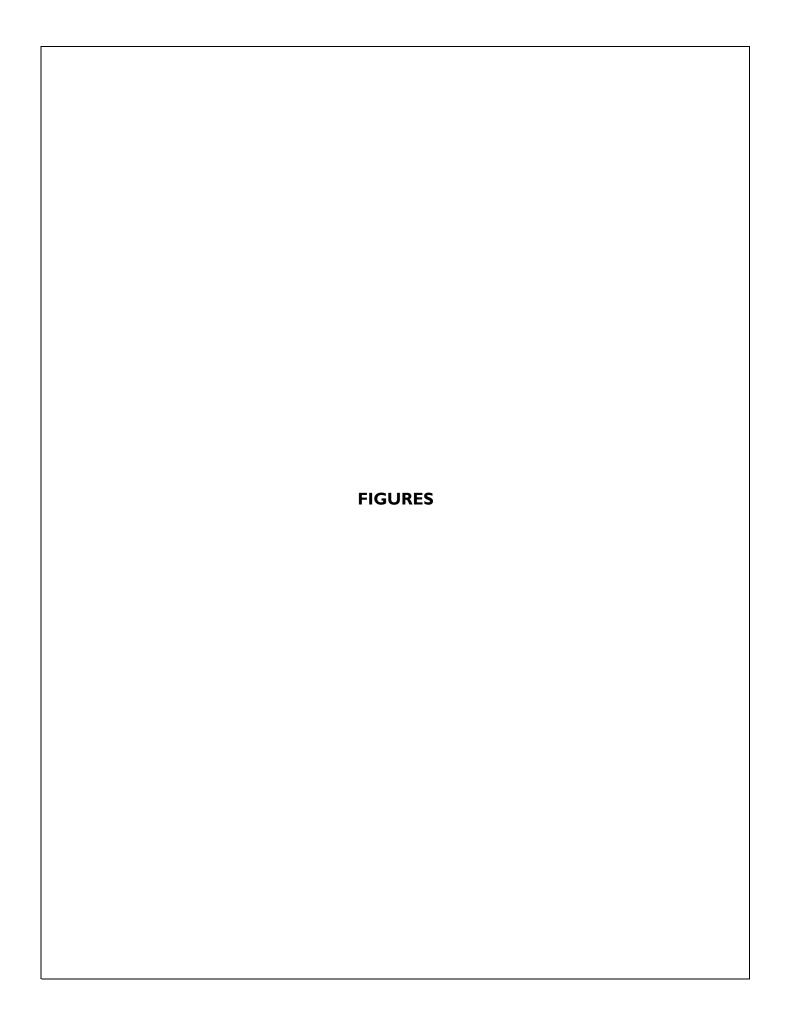
Site Code : 00018203 Start Date : 3/9/2019

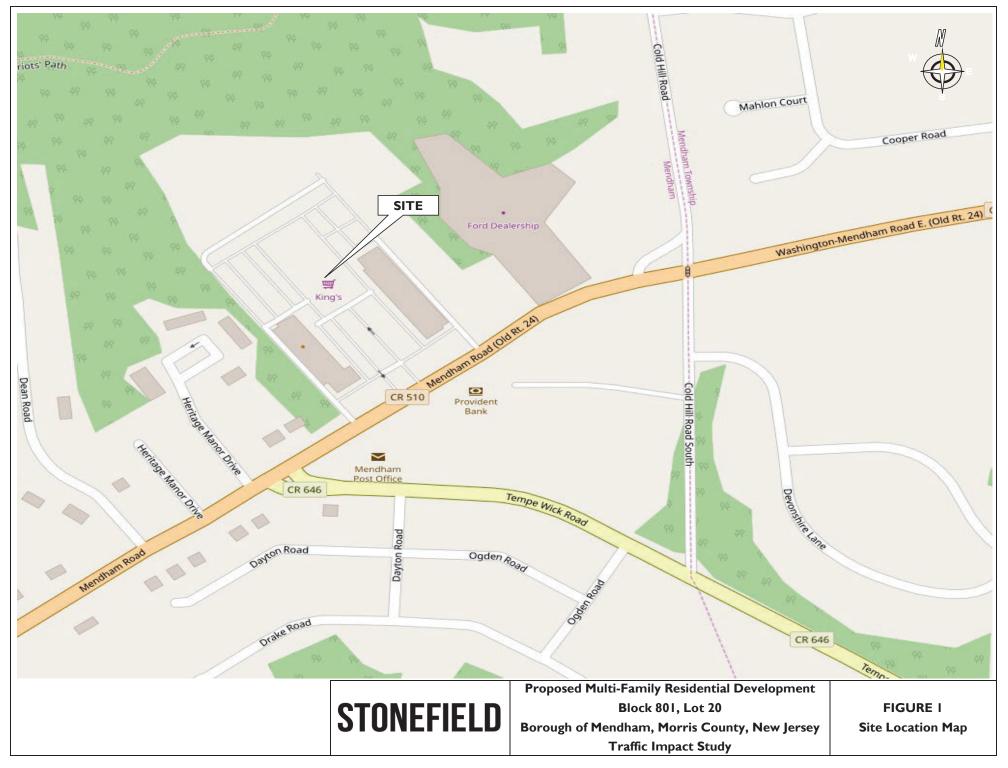
Page No : 1

Groups Printed- Auto - HV - Bus/SB

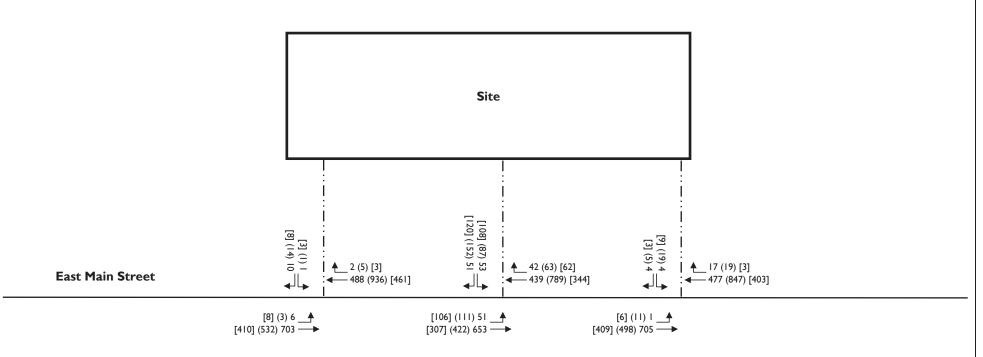
		East Main	Street		-	East Mair	Street		Wes	sterly Sit	e Drivewa	ay	
		Eastbo	ound			Westb	ound			Southb	ound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
11:00 AM	4	81	0	85	0	87	4	91	0	0	3	3	179
11:15 AM	2	81	0	83	0	75	4	79	0	0	1	1	163
11:30 AM	4	113	0	117	0	105	5	110	0	0	4	4	231
11:45 AM	2	89	0	91	0	119	1	120	1	0	0	1	212
Total	12	364	0	376	0	386	14	400	1	0	8	9	785
12:00 PM	4	102	0	106	0	110	1	111	1	0	3	4	221
12:15 PM	0	98	0	98	0	97	1	98	1	0	5	6	202
12:30 PM	2	109	0	111	0	123	0	123	0	0	0	0	234
12:45 PM	2	98	0	100	0	81	0	81	0	0	4	4	185
Total	8	407	0	415	0	411	2	413	2	0	12	14	842
01:00 PM	0	86	0	86	0	122	0	122	0	0	1	1	209
01:15 PM	1	103	0	104	0	108	2	110	0	0	5	5	219
01:30 PM	1	110	0	111	0	99	0	99	0	0	2	2	212
01:45 PM	2	77	0	79	0	125	0	125	1	0	2	3	207
Total	4	376	0	380	0	454	2	456	1	0	10	11	847
Grand Total	24	1147	0	1171	0	1251	18	1269	4	0	30	34	2474
Apprch %	2	98	0		0	98.6	1.4		11.8	0	88.2		
Total %	1	46.4	0	47.3	0	50.6	0.7	51.3	0.2	0	1.2	1.4	
Auto	24	1141	0	1165	0	1243	18	1261	4	0	30	34	2460
% Auto	100	99.5	0	99.5	0	99.4	100	99.4	100	0	100	100	99.4
HV	0	6	0	6	0	8	0	8	0	0	0	0	14
% HV	0	0.5	0	0.5	0	0.6	0	0.6	0	0	0	0	0.6
Bus/SB	0	0	0	0	0	0	0	0	0	0	0	0	0
% Bus/SB	0	0	0	0	0	0	0	0	0	0	0	0	0

		East Mai	n Street			East Mair	n Street		We	sterly Sit	e Drivew	ay	
		Eastb	ound			Westb	ound			Southb	ound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 11:0													
Peak Hour for Entire	Intersection	Begins at 7	11:45 AM										
11:45 AM	2	89	0	91	0	119	1	120	1	0	0	1	212
12:00 PM	4	102	0	106	0	110	1	111	1	0	3	4	221
12:15 PM	0	98	0	98	0	97	1	98	1	0	5	6	202
12:30 PM	2	109	0	111	0	123	0	123	0	0	0	0	234
Total Volume	8	398	0	406	0	449	3	452	3	0	8	11	869
% App. Total	2	98	0		0	99.3	0.7		27.3	0	72.7		
PHF	.500	.913	.000	.914	.000	.913	.750	.919	.750	.000	.400	.458	.928
Auto	8	397	0	405	0	445	3	448	3	0	8	11	864
% Auto	100	99.7	0	99.8	0	99.1	100	99.1	100	0	100	100	99.4
HV	0	1	0	1	0	4	0	4	0	0	0	0	5
% HV	0	0.3	0	0.2	0	0.9	0	0.9	0	0	0	0	0.6
Bus/SB	0	0	0	0	0	0	0	0	0	0	0	0	0
% Bus/SB	0	0	0	0	0	0	0	0	0	0	0	0	0









Existing Roadway

-··- Existing Private Driveway

AM (PM) [SAT] Peak Hour Volumes

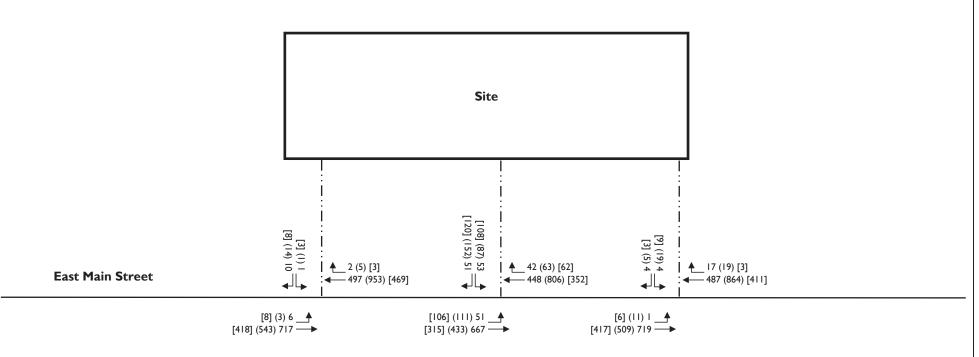
STONEFIELD

Proposed Multi-Family Residential Development
Block 801, Lot 20
Borough of Mendham, Morris County, New Jersey
Traffic Impact Study

FIGURE 2
2022 Existing Traffic
Volumes

not to scale





not to scale

Existing Roadway

-··- Existing Private Driveway

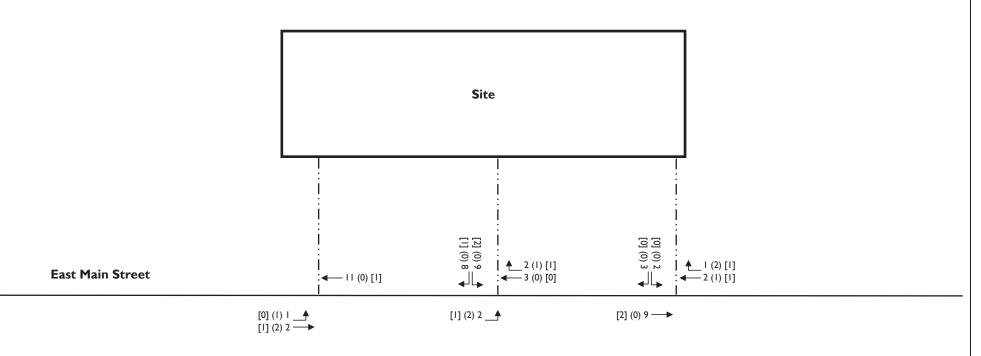
AM (PM) [SAT] Peak Hour Volumes

STONEFIELD

Proposed Multi-Family Residential Development
Block 801, Lot 20
Borough of Mendham, Morris County, New Jersey
Traffic Impact Study

FIGURE 3 2024 No-Build Traffic Volumes





Existing Roadway

-··- Existing Private Driveway

◆ AM (PM) [SAT] Peak Hour Volumes

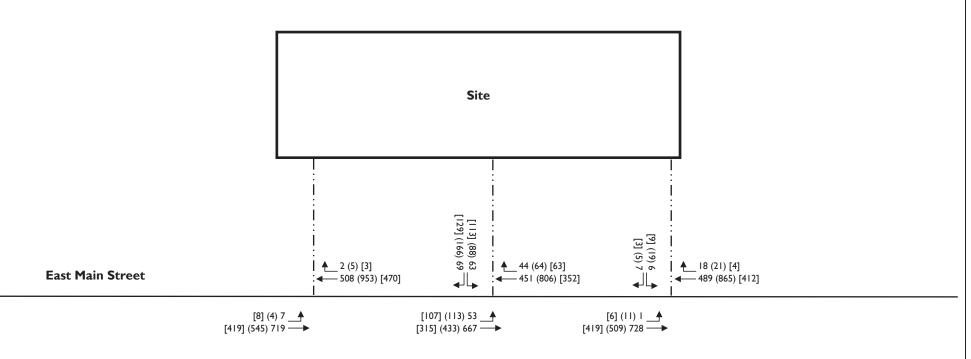
STONEFIELD

Proposed Multi-Family Residential Development
Block 801, Lot 20
Borough of Mendham, Morris County, New Jersey
Traffic Impact Study

FIGURE 4
"New" Site-Generated
Traffic Volumes

not to scale





not to scale

----- Existing Roadway

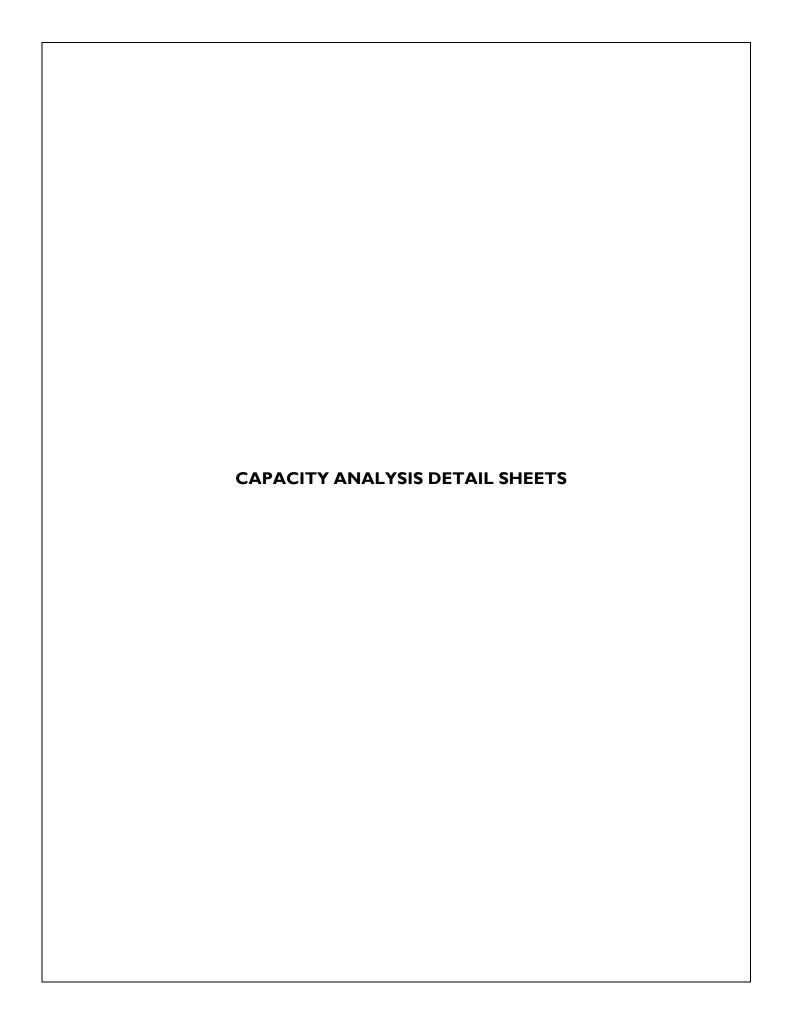
—··- Existing Private Driveway

AM (PM) [SAT] Peak Hour Volumes

STONEFIELD

Proposed Multi-Family Residential Development
Block 801, Lot 20
Borough of Mendham, Morris County, New Jersey
Traffic Impact Study

FIGURE 5
2024 Build Traffic Volumes



Intersection						
Int Delay, s/veh	0.2					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	LUL	4	1 3√	W DIX	₩.	אופט
Traffic Vol, veh/h	6	703	488	2	'' '	10
•						
Future Vol, veh/h	6	703	488	2	1	10
Conflicting Peds, #/hr	_ 0	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	,# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	97	97	97	97	97	97
Heavy Vehicles, %	0	2	5	0	0	0
Mvmt Flow	6	725	503	2	1	10
		. 20	000		-	- 10
Major/Minor N	Major1	I	Major2	N	Minor2	
Conflicting Flow All	505	0	-	0	1241	504
Stage 1	-	-	-	-	504	-
Stage 2	-	-	-	-	737	-
Critical Hdwy	4.1	-	-	_	5.1	4.5
Critical Hdwy Stg 1	-	_	_	_	5.4	
Critical Hdwy Stg 2	_		_	_	5.4	_
	2.2	_			3.5	3.3
Follow-up Hdwy		-	-	-		
Pot Cap-1 Maneuver	1070	-	_	-	305	726
Stage 1	-	-	-	-	611	-
Stage 2	-	-	-	-	477	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1070	-	-	-	302	726
Mov Cap-2 Maneuver	-	-	-	-	302	-
Stage 1	-	-	-	-	606	-
Stage 2	-	_	-	_	477	_
2.0.30 2						
Approach	EB		WB		SB	
HCM Control Delay, s	0.1		0		10.7	
HCM LOS					В	
				MOT	14/55	201 4
Minor Lane/Major Mvm	<u>it</u>	EBL	EBT	WBT	WBR :	
Capacity (veh/h)		1070	-	-	-	644
HCM Lane V/C Ratio		0.006	-	-	-	0.018
HCM Control Delay (s)		8.4	0	-	-	10.7
HCM Lane LOS		Α	Α	-	-	В
HCM 95th %tile Q(veh))	0	-	-	_	0.1
2 22 70 2(1011)						

Intersection							_
Int Delay, s/veh	1.6						
Movement	EBL	EBT	WBT	WBR	SBL	SBR	
Lane Configurations		4	13-		ሻ	7	
Traffic Vol, veh/h	51	653	439	42	53	51	
Future Vol, veh/h	51	653	439	42	53	51	
Conflicting Peds, #/hr	0	0	0	0	0	0	
Sign Control	Free	Free	Free	Free	Stop	Stop	
RT Channelized	-	None	-	None	-	None	
Storage Length	-	-	-	-	0	0	
Veh in Median Storag	e,# -	0	0	-	0	-	
Grade, %	-	0	0	-	0	-	
Peak Hour Factor	97	97	97	97	97	97	
Heavy Vehicles, %	0	2	5	0	0	0	
Mvmt Flow	53	673	453	43	55	53	
Major/Miner	Maiart		Mais 2		/incr0		
Major/Minor	Major1		Major2		Minor2	475	
Conflicting Flow All	496	0	-	0	1254	475	
Stage 1	-	-	-	-	475	-	
Stage 2	-	-	-	-	779	-	
Critical Hdwy	4.1	-	-	-	5.1	4.5	
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	1078	-	-	-	301	743	
Stage 1	-	-	-	-	630	-	
Stage 2	-	-	-	-	456	-	
Platoon blocked, %	4070	-	-	-	077	7.40	
Mov Cap-1 Maneuver		-	-	-	277	743	
Mov Cap-2 Maneuver		-	-	-	277	-	
Stage 1	-	-	-	-	580	-	
Stage 2	-	-	-	-	456	-	
Approach	EB		WB		SB		
HCM Control Delay, s	0.6		0		15.8		
HCM LOS					С		
NA: 1 (NA - 1 - NA	1	ED!	ГОТ	MET	MPP	ODL 4 (201 2
Minor Lane/Major Mvi	nt	EBL	EBT	WBT	WRK :	SBLn1	
Capacity (veh/h)		1078	-	-	-	277	743
HCM Lane V/C Ratio		0.049	-	-	-	0.197	
HCM Control Delay (s	s)	8.5	0	-	-	21.2	10.2
HCM Lane LOS		Α	Α	-	-	С	В
HCM 95th %tile Q(vel	1)	0.2	-	-	-	0.7	0.2

Intersection						
Int Delay, s/veh	0.1					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		4	1		W	
Traffic Vol, veh/h	1	705	477	17	4	4
Future Vol., veh/h	1	705	477	17	4	4
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-		-	None
Storage Length	_	-	_	-	0	-
Veh in Median Storage	.# -	0	0	_	0	_
Grade, %	-, "	0	0	_	0	_
Peak Hour Factor	97	97	97	97	97	97
Heavy Vehicles, %	0	2	5	0	0	0
Mvmt Flow	1	727	492	18	4	4
IVIVIIIL FIOW	ı	121	492	10	4	4
Major/Minor I	Major1	N	Major2	N	Minor2	
Conflicting Flow All	510	0	-	0	1230	501
Stage 1	-	-	-	-	501	-
Stage 2	-	-	-	-	729	-
Critical Hdwy	4.1	-	_	-	5.1	4.5
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	1065	_	_	_	309	727
Stage 1	-	_	_	<u>-</u>	613	-
Stage 2	_		_	_	481	_
Platoon blocked, %	_	_	_	_	1 01	_
Mov Cap-1 Maneuver	1065		_	-	308	727
					308	
Mov Cap-2 Maneuver	-	-	-	-		-
Stage 1	-	-	-	-	612	-
Stage 2	-	-	-	-	481	-
Approach	EB		WB		SB	
HCM Control Delay, s	0		0		13.5	
HCM LOS			•		В	
110111 200						
Minor Lane/Major Mvm	nt	EBL	EBT	WBT	WBR:	SBLn1
Capacity (veh/h)		1065	-	-	-	433
HCM Lane V/C Ratio		0.001	-	-	-	0.019
HCM Control Delay (s)		8.4	0	-	-	13.5
HCM Lane LOS		Α	Α	-	-	В
HCM 95th %tile Q(veh))	0	-	-	-	0.1

Intersection						
Int Delay, s/veh	0.2					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	LDL	4	7∌	VVDIX	₩.	אופט
Traffic Vol, veh/h	3	532	936	5	T	14
Future Vol, veh/h	3	532	936	5		14
					1	
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-		-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage	e,# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	91	91	91	91	91	91
Heavy Vehicles, %	0	0	1	0	0	0
Mvmt Flow	3	585	1029	5	1	15
WWW	Ū	000	1020		•	10
Major/Minor I	Major1	N	Major2	1	Minor2	
Conflicting Flow All	1034	0	-	0	1623	1032
Stage 1	_	-	_	-	1032	-
Stage 2	_	_	_	_	591	_
Critical Hdwy	4.1	_	_	_	5.1	4.5
Critical Hdwy Stg 1	-	_	_	_	5.4	
Critical Hdwy Stg 1		-			5.4	
	-	-	-	-		-
Follow-up Hdwy	2.2	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	680	-	-	-	205	464
Stage 1	-	-	-	-	347	-
Stage 2	-	-	-	-	557	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	680	-	_	-	204	464
Mov Cap-2 Maneuver	-	-	-	-	204	-
Stage 1	_	_	_	_	345	_
Stage 2	_	_	_	_	557	_
Stage 2	_	-	_	_	337	_
Approach	EB		WB		SB	
HCM Control Delay, s	0.1		0		13.7	
HCM LOS	0.1				В	
TIOWI LOO						
Minor Lane/Major Mvm	nt	EBL	EBT	WBT	WBR :	SBLn1
Capacity (veh/h)		680	-	_	-	428
			-	_	_	0.039
		เมเมเว				
HCM Lane V/C Ratio)	0.005	Ω	_		
HCM Lane V/C Ratio HCM Control Delay (s)		10.3	0	-	-	
HCM Lane V/C Ratio			0 A	- -	-	13.7 B

Intersection							
Int Delay, s/veh	4.5						
Movement	EBL	EBT	WBT	WBR	SBL	SBR	
Lane Configurations	LUL	<u>- ₽</u>	₩ <u>₩</u>	VIOIN	SDL T	7 JUIC	
Traffic Vol, veh/h	111	422	789	63	87	152	
Future Vol, veh/h	111	422	789	63	87	152	
Conflicting Peds, #/hr		422	0	03	0	0	
Sign Control	Free	Free	Free	Free	Stop	Stop	
RT Channelized	riee -	None	riee -	None	Stop -	None	
	_					50	
Storage Length		-	-	-	0		
Veh in Median Storag	e,# -	0	0	-	0	-	
Grade, %	-	0	0	-	0	-	
Peak Hour Factor	95	95	95	95	95	95	
Heavy Vehicles, %	0	1	1	0	0	0	
Mvmt Flow	117	444	831	66	92	160	
Major/Minor	Major1	N	Major2	N	Minor2		
Conflicting Flow All	897	0	viajuiz -	0	1542	864	
		U					
Stage 1	-	-	-	-	864	-	
Stage 2	-	-	-	-	678	- 4 F	
Critical Hdwy	4.1	-	-	-	5.1	4.5	
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	765	-	-	-	223	536	
Stage 1	-	-	-	-	416	-	
Stage 2	-	-	-	-	508	-	
Platoon blocked, %		-	-	-			
Mov Cap-1 Maneuver	765	-	-	-	178	536	
Mov Cap-2 Maneuver	· -	-	-	-	178	-	
Stage 1	-	-	-	-	332	-	
Stage 2	-	_	_	_	508	_	
2.5.30 2							
Approach	EB		WB		SB		
HCM Control Delay, s	2.2		0		25.6		
HCM LOS					D		
Minor Long/Marion NA		EDI	EDT	WDT	WDD	CDL 4 4	CDI
Minor Lane/Major Mvr	mt	EBL	EBT	WBT		SBLn1	
Capacity (veh/h)		765	-	-	-	178	53
HCM Lane V/C Ratio		0.153	-	-	-	0.514	
HCM Control Delay (s	s)	10.6	0	-	-	44.9	14.
HCM Lane LOS		В	Α	-	-	Е	
HCM 95th %tile Q(veh	n)	0.5	-	-	-	2.6	1.
	,						

Intersection						
Int Delay, s/veh	0.4					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	LUL	4	7∌	VVDIX	₩.	אופט
Traffic Vol, veh/h	11	498	847	19	19	5
Future Vol, veh/h	11	498	847	19	19	5
-						
Conflicting Peds, #/hr		0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-		-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storag	e,# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	0	1	0	0	0	0
Mvmt Flow	12	553	941	21	21	6
Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	962	0	-	0	1529	952
Stage 1	-	-	-	-	952	-
Stage 2	-	_	-	-	577	-
Critical Hdwy	4.1	-	-	-	5.1	4.5
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	724	_	_	-	226	497
Stage 1	-	<u>-</u>	_	<u>-</u>	378	-
Stage 2	_		_	_	566	_
Platoon blocked, %	_	-			500	-
	704	-	-	-	224	497
Mov Cap-1 Maneuver		-	-	-	221	
Mov Cap-2 Maneuver		-	-	-	221	-
Stage 1	-	-	-	-	369	-
Stage 2	-	-	-	-	566	-
Approach	EB		WB		SB	
HCM Control Delay, s	0.2		0		21.1	
HCM LOS					С	
Minor Lane/Major Mvr	mt	EBL	EBT	WBT	WBR :	SBLn1
Capacity (veh/h)		724		-	-	250
HCM Lane V/C Ratio		0.017	_	<u>-</u>		0.107
		10.1	0		<u>-</u>	
UCM Control Doloy (a	• 1		U	-	-	
HCM Control Delay (s	s)					^
HCM Control Delay (s HCM Lane LOS HCM 95th %tile Q(veh	•	B 0.1	A	-	-	0.4

Intersection						
Int Delay, s/veh	0.2					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	LDL	<u>€</u>	₩D1	MOR	SDL	SDR
Traffic Vol, veh/h	8	410	461	3	T	8
Future Vol, veh/h	8	410	461	3	3	8
Conflicting Peds, #/hr	0	410	401	0	0	0
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	93	93	93	93	93	93
Heavy Vehicles, %	0	0	1	0	0	0
Mvmt Flow	9	441	496	3	3	9
Major/Minor N	//ajor1	N	Major2	ľ	Minor2	
Conflicting Flow All	499	0		0	957	498
Stage 1	-	-	_	-	498	-
Stage 2	_	_	_	<u>-</u>	459	_
Critical Hdwy	4.1	_	_	_	5.1	4.5
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	1075	-	-	_	407	729
		-	-		615	129
Stage 1	-	-	-	-		
Stage 2	-	-	-	-	641	-
Platoon blocked, %	4075	-	-	-	400	700
Mov Cap-1 Maneuver	1075	-	-	-	403	729
Mov Cap-2 Maneuver	-	-	-	-	403	-
Stage 1	-	-	-	-	608	-
Stage 2	-	-	-	-	641	-
Approach	EB		WB		SB	
HCM Control Delay, s	0.2		0		11.2	
	0.2		U		_	
HCM LOS					В	
Minor Lane/Major Mvm	t	EBL	EBT	WBT	WBR S	SBL _{n1}
Capacity (veh/h)		1075	_	-	-	597
HCM Lane V/C Ratio		0.008	_	_	-	0.02
HCM Control Delay (s)		8.4	0	-	-	
HCM Lane LOS		Α	A	_	-	В
HCM 95th %tile Q(veh)		0	_	-	-	0.1

Intersection							
Int Delay, s/veh	4.1						
Movement	EBL	EBT	WBT	WBR	SBL	SBR	
Lane Configurations		4	1≽		ሻ	7	
Traffic Vol, veh/h	106	307	344	62	108	120	
Future Vol, veh/h	106	307	344	62	108	120	
Conflicting Peds, #/hr	0	0	0	0	0	0	
Sign Control	Free	Free	Free	Free	Stop	Stop	
RT Channelized	-	None	-	None	-	None	
Storage Length	-	-	-	-	0	0	
Veh in Median Storage,	# -	0	0	-	0	-	
Grade, %	-	0	0	-	0	-	
Peak Hour Factor	93	93	93	93	93	93	
Heavy Vehicles, %	0	0	1	0	0	0	
Mvmt Flow	114	330	370	67	116	129	
Major/Minor M	lajor1	N	Major2	N	Minor2		
Conflicting Flow All	437	0	_	0	962	404	
Stage 1	-	-	-	-	404	-	
Stage 2	-	-	-	-	558	-	
Critical Hdwy	4.1	-	-	-	5.1	4.5	
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	1134	-	-	-	405	788	
Stage 1	-	-	-	-	679	-	
Stage 2	-	-	-	-	577	-	
Platoon blocked, %		-	-	-			
Mov Cap-1 Maneuver	1134	-	-	-	355	788	
Mov Cap-2 Maneuver	-	-	-	-	355	-	
Stage 1	-	-	-	-	595	-	
Stage 2	-	-	-	-	577	-	
Approach	EB		WB		SB		
HCM Control Delay, s	2.2		0		15		
HCM LOS	۷.۷		U		C		
TION LOS					U		
Minor Lane/Major Mvmt		EBL	EBT	WBT	WBR :	SBLn1	
Capacity (veh/h)		1134	-	-	-	355	788
HCM Lane V/C Ratio		0.101	-	-	-	0.327	
HCM Control Delay (s)		8.5	0	-	-	20	10.5
HCM Lane LOS		Α	Α	-	-	С	В
HCM 95th %tile Q(veh)		0.3	-	-	-	1.4	0.6

Intersection						
Int Delay, s/veh	0.2					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
	EDL			WDIN	SDL W	SDN
Lane Configurations Traffic Vol, veh/h	6	4 1 409	1 → 403	3	'T'	3
Future Vol, veh/h	6	409	403	3	9	3
	0	409		0	0	0
Conflicting Peds, #/hr			0			
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	95	95	95	95	95	95
Heavy Vehicles, %	0	0	1	0	0	0
Mvmt Flow	6	431	424	3	9	3
Major/Minor N	Major1	N	Major2	N	Minor2	
Conflicting Flow All	427	0	-	0	869	426
Stage 1	-	_	_	_	426	-
Stage 2	_	_	_	_	443	_
Critical Hdwy	4.1	_	_	_	5.1	4.5
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	1143	_	-	_	445	774
•	1143	-	-		663	
Stage 1	-	-	-	-		-
Stage 2	-	_	-	-	651	-
Platoon blocked, %	4440	-	-	-	4.40	4
Mov Cap-1 Maneuver	1143	-	-	-	442	774
Mov Cap-2 Maneuver	-	-	-	-	442	-
Stage 1	-	-	-	-	658	-
Stage 2	-	-	-	-	651	-
Approach	EB		WB		SB	
HCM Control Delay, s	0.1		0		12.5	
	0.1		U		_	
HCM LOS					В	
Minor Lane/Major Mvm	t	EBL	EBT	WBT	WBR S	SBL _{n1}
Capacity (veh/h)		1143	-	-	-	495
HCM Lane V/C Ratio		0.006	-	_	-	0.026
HCM Control Delay (s)		8.2	0	-		12.5
HCM Lane LOS		Α	A	_	-	В
HCM 95th %tile Q(veh)		0	_	-	-	0.1

Intersection						
Int Delay, s/veh	0.2					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		4	1>		¥	02.1
Traffic Vol, veh/h	6	717	497	2	1	10
Future Vol, veh/h	6	717	497	2	1	10
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-		-		-	None
Storage Length	_	-	_	-	0	-
Veh in Median Storage,		0	0	_	0	_
Grade, %	, π -	0	0	<u>-</u>	0	<u>-</u>
Peak Hour Factor	97	97	97	97	97	97
Heavy Vehicles, %	0	2	5	0	0	0
Mvmt Flow	6	739	512	2	1	10
IVIVIIIL FIOW	U	139	312	2	- 1	10
Major/Minor M	/lajor1	N	Major2	ľ	Minor2	
Conflicting Flow All	514	0	-	0	1264	513
Stage 1	-	-	-	-	513	-
Stage 2	-	-	-	-	751	-
Critical Hdwy	4.1	-	-	-	5.1	4.5
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	1062	_	_	_	298	720
Stage 1	-	_	_	_	605	-
Stage 2	_	_	_	-	470	-
Platoon blocked, %		_	_	_	710	
Mov Cap-1 Maneuver	1062	_	_	_	295	720
Mov Cap-1 Maneuver	1002	<u>-</u>	_	<u> </u>	295	-
Stage 1		_	_	_	599	-
					470	
Stage 2	-	-	-	-	4/0	-
Approach	EB		WB		SB	
HCM Control Delay, s	0.1		0		10.8	
HCM LOS					В	
NA: 1 (NA : NA :		EDI	БРТ	MOT	WDD	0DL 4
Minor Lane/Major Mvmt	i .	EBL	EBT	WBT	WBR:	
Capacity (veh/h)		1062	-	-	-	637
		0.006	-	-	-	0.018
HCM Lane V/C Ratio						400
HCM Lane V/C Ratio HCM Control Delay (s)		8.4	0	-	-	10.8
HCM Lane V/C Ratio		8.4 A 0	0 A	-	-	10.8 B

Int Delay, s/veh	Intersection							
Lane Configurations	Int Delay, s/veh	1.6						
Lane Configurations	Movement	EBL	EBT	WBT	WBR	SBL	SBR	
Traffic Vol, veh/h 51 667 448 42 53 51 Future Vol, veh/h 51 667 448 42 53 51 Conflicting Peds, #/hr 0 0 0 0 0 0 0 0 Sign Control Free Free Free Free Free Stop Stop RT Channelized - None - None - None Storage Length 0 0 0 Veh in Median Storage, # - 0 0 0 - 0 - 0 Grade, % - 0 0 0 - 0 - 0 Peak Hour Factor 97 97 97 97 97 97 97 Heavy Vehicles, % 0 2 5 0 0 0 Mvmt Flow 53 688 462 43 55 53 Major/Minor Major1 Major2 Minor2 Conflicting Flow All 505 0 - 0 1278 484 Stage 1 484 - 844 Stage 2 794 - 794 Critical Hdwy 4.1 5.1 4.5 Critical Hdwy Stg 1 5.4 - 794 Critical Hdwy Stg 2 5.4 - 794 Follow-up Hdwy 2.2 3.5 3.3 Pot Cap-1 Maneuver 1070 - 294 738 Stage 1 294 738 Stage 1 294 738 Stage 2 449 - Platoon blocked, % Mov Cap-1 Maneuver 1070 - 270 738 Mov Cap-2 Maneuver 270 738 McMor Cap-2 Maneuver 270 738 McMinor Lane/Major Mvmt EBL EBT WBT WBR SBLn1 SBLn2 Capacity (veh/h) 1070 270 738 HCM Lane V/C Ratio 0.049 0.202 0.071 HCM Control Delay (s) 8.5 0 - 21.7 10.3 HCM Lane LOS A A A C B								
Future Vol, veh/h Conflicting Peds, #/hr O O O O O O O O O O O O O O O O O O O		51			42			
Conflicting Peds, #/hr O O O O O O O O O O O O O O O Stop Stop RT Channelized - None - O O O O O O O O O O O O O O O O O O D D D D								
Sign Control Free RTC hannelized Free None Free None Free None Stop None Stop None Storage Length - - - - 0 0 0 - None - 0 0 - 0 - <td< td=""><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	-							
RT Channelized								
Storage Length - - - 0 0 Veh in Median Storage, # - 0 0 - 0 - Grade, % - 0 0 - 0 - Peak Hour Factor 97 97 97 97 97 97 Heavy Vehicles, % 0 2 5 0 0 0 0 Mwmt Flow 53 688 462 43 55 53 Minor Park Hows Stage 1								
Veh in Median Storage, # - 0 0 - Grade, % - 0 0 0 - 0 0 - 0 - 0 - 0 - 0 - 0 - 0		_		_				
Grade, % - 0 0 - 0 - Peak Hour Factor 97 97 97 97 97 97 Heavy Vehicles, % 0 2 5 0 0 0 Mymt Flow 53 688 462 43 55 53 Major/Minor Major/Minor Major Minor2 Conflicting Flow All 505 0 - 0 1278 484 Stage 1 - - - 484 - Stage 1 - - - 484 - Stage 1 -		,# -	0	0	-			
Peak Hour Factor 97	•	•			_		_	
Heavy Vehicles, %		97						
Mymit Flow 53 688 462 43 55 53 Major/Minor Major1 Major2 Minor2 Conflicting Flow All 505 0 - 0 1278 484 Stage 1 - - - 484 - Stage 2 - - - 794 - Critical Hdwy Stg 1 - - - 5.4 - Critical Hdwy Stg 2 - - - 5.4 - Critical Hdwy Stg 2 - - - 5.4 - Follow-up Hdwy 2.2 - - - 294 738 Stage 1 - - - - 270 738 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
Major/Minor Major1 Major2 Minor2 Conflicting Flow All 505 0 - 0 1278 484 Stage 1 - - - 484 - - - 484 - - - - 484 - </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
Conflicting Flow All 505 0 - 0 1278 484 Stage 1 - - - 484 - Stage 2 - - - 794 - Critical Hdwy 4.1 - - 5.1 4.5 Critical Hdwy Stg 1 - - - 5.4 - Critical Hdwy Stg 2 - - - 5.4 - Critical Hdwy Stg 2 - - - 5.4 - Follow-up Hdwy 2.2 - - - 5.4 - Follow-up Hdwy 2.2 - - - 3.5 3.3 Pot Cap-1 Maneuver 1070 - - 294 738 Stage 1 - - - 270 738 Mov Cap-1 Maneuver 1070 - - 270 738 Mov Cap-2 Maneuver - - - 574 - Stage 2 - - - 574 - Stage 1 -	WWW.	- 00	000	702	70	- 00	00	
Conflicting Flow All 505 0 - 0 1278 484 Stage 1 - - - 484 - Stage 2 - - - 794 - Critical Hdwy 4.1 - - 5.1 4.5 Critical Hdwy Stg 1 - - - 5.4 - Critical Hdwy Stg 2 - - - 5.4 - Critical Hdwy Stg 2 - - - 5.4 - Follow-up Hdwy 2.2 - - - 5.4 - Follow-up Hdwy 2.2 - - - 3.5 3.3 Pot Cap-1 Maneuver 1070 - - 294 738 Stage 2 - - - 270 738 Mov Cap-1 Maneuver 1070 - - 270 - Stage 1 - - - 574 - Stage 2 - - - 574 - Stage 1 - -<								
Stage 1 - - - 484 - Stage 2 - - - 794 - Critical Hdwy 4.1 - - 5.1 4.5 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 1070 - - 294 738 Stage 1 - - - - - Stage 2 - - - - - - - Mov Cap-2 Maneuver - <				Major2				
Stage 2 - - - 794 - Critical Hdwy 4.1 - - 5.1 4.5 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 1070 - - 294 738 Stage 1 - - - 624 - Stage 2 - - - - 449 - Nov Cap-2 Maneuver 1070 - - 270 738 Mov Cap-2 Maneuver 1070 - - 270 - Stage 1 - - - 574 - Stage 2 - - - 449 - Approach EB WB SB HCM Control Delay, s 0.6 0 16.1 HCM Control Delay, s 0.6 0 16.1		505	0		0		484	
Critical Hdwy 4.1 - - 5.1 4.5 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 1070 - - 294 738 Stage 1 - - - 624 - Stage 2 - - - - 624 - Platoon blocked, % - <		-	-	-	-	484	-	
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 1070 - - 294 738 Stage 1 - - - 624 - Stage 2 - - - - 449 - Platoon blocked, % - - - - - - - - - - - - <td< td=""><td>Stage 2</td><td></td><td>-</td><td>-</td><td>-</td><td></td><td></td><td></td></td<>	Stage 2		-	-	-			
Critical Hdwy Stg 2 - - - 5.4 - Follow-up Hdwy 2.2 - - 3.5 3.3 Pot Cap-1 Maneuver 1070 - - 294 738 Stage 1 - - - 624 - Stage 2 - - - 449 - Platoon blocked, % - - - - 270 738 Mov Cap-1 Maneuver 1070 - - 270 - Stage 1 - - - 270 - Stage 2 - - - 574 - Stage 2 - - - 449 - Approach EB WB SB HCM Control Delay, s O 16.1 HCM Lane/Major Mvmt EBL EBT WBT WBR SBLn1 SBLn2 Capacity (veh/h) 1070 - - - 270 738 HCM Lane V/C Ratio 0.049 - - 0.202 0.071 HCM Control Delay (s) 8.5 0 - 21.7 10.3 HCM Lane LOS A A - - C	Critical Hdwy	4.1	-	-	-	5.1	4.5	
Follow-up Hdwy 2.2 3.5 3.3 Pot Cap-1 Maneuver 1070 294 738 Stage 1 624 - 624 - 624 Stage 2 449 - 738 Mov Cap-1 Maneuver 1070 270 738 Mov Cap-2 Maneuver 270 - 574 - 574 - 574 - 574 Stage 2 449 - 775 Stage 1 574 - 574 - 574 - 775 Stage 2 1624 - 775 Approach EB WB SB HCM Control Delay, s 0.6 0 16.1 HCM LOS C Minor Lane/Major Mvmt EBL EBT WBT WBR SBLn1 SBLn2 Capacity (veh/h) 1070 270 738 HCM Lane V/C Ratio 0.049 0.202 0.071 HCM Control Delay (s) 8.5 0 - 21.7 10.3 HCM Lane LOS A A C B	Critical Hdwy Stg 1	-	-	-	-	5.4	-	
Follow-up Hdwy 2.2 3.5 3.3 Pot Cap-1 Maneuver 1070 294 738 Stage 1 624 - 624 - 624 Stage 2 449 - 738 Mov Cap-1 Maneuver 1070 270 738 Mov Cap-2 Maneuver 270 - 574 - 574 - 574 - 574 Stage 2 449 - 674 Approach EB WB SB HCM Control Delay, s 0.6 0 16.1 HCM LOS C Minor Lane/Major Mvmt EBL EBT WBT WBR SBLn1 SBLn2 Capacity (veh/h) 1070 270 738 HCM Lane V/C Ratio 0.049 0.202 0.071 HCM Control Delay (s) 8.5 0 - 21.7 10.3 HCM Lane LOS A A A - C B		-	-	-	-	5.4	-	
Pot Cap-1 Maneuver		2.2	-	-	-	3.5	3.3	
Stage 1 - - - 624 - Stage 2 - - - 449 - Platoon blocked, % - - - - Mov Cap-1 Maneuver 1070 - - 270 - Stage 1 - - - 574 - Stage 2 - - - 449 - Approach EB WB SB HCM Control Delay, s 0.6 0 16.1 HCM LOS C Minor Lane/Major Mvmt EBL EBT WBT WBR SBLn1 SBLn2 Capacity (veh/h) 1070 - - - 270 738 HCM Lane V/C Ratio 0.049 - - 0.202 0.071 HCM Control Delay (s) 8.5 0 - 21.7 10.3 HCM Lane LOS A A - - C		1070	-	-	-	294	738	
Stage 2 - - - 449 - Platoon blocked, % Mov Cap-1 Maneuver 1070 - - - 270 738 Mov Cap-2 Maneuver - - - - 574 - Stage 1 - - - 574 - Stage 2 - - - 449 - Approach EB WB SB HCM Control Delay, s 0.6 0 16.1 HCM Lane/Major Mvmt EBL EBT WBT WBR SBLn1 SBLn2 Capacity (veh/h) 1070 - - - 270 738 HCM Lane V/C Ratio 0.049 - - 0.202 0.071 HCM Control Delay (s) 8.5 0 - 21.7 10.3 HCM Lane LOS A A - - C B	•		-	-	-		-	
Platoon blocked, %		-	-	-	-		-	
Mov Cap-1 Maneuver 1070 - - 270 738 Mov Cap-2 Maneuver - - - 270 - Stage 1 - - - 574 - Stage 2 - - - 449 - Approach EB WB SB HCM Control Delay, s 0.6 0 16.1 HCM LOS C Minor Lane/Major Mvmt EBL EBT WBT WBR SBLn1 SBLn2 Capacity (veh/h) 1070 - - 270 738 HCM Lane V/C Ratio 0.049 - - 0.202 0.071 HCM Control Delay (s) 8.5 0 - 21.7 10.3 HCM Lane LOS A A - C B	•		-	-	-			
Mov Cap-2 Maneuver - - - 270 - Stage 1 - - - 574 - Stage 2 - - - 449 - Approach EB WB SB HCM Control Delay, s 0.6 0 16.1 HCM LOS C C Minor Lane/Major Mvmt EBL EBT WBT WBR SBLn1 SBLn2 Capacity (veh/h) 1070 - 270 738 HCM Lane V/C Ratio 0.049 - 0.0202 0.071 HCM Control Delay (s) 8.5 0 - 21.7 10.3 HCM Lane LOS A A - C B		1070	-	-	-	270	738	
Stage 1 - - - 574 - Stage 2 - - - - 449 - Approach EB WB SB HCM Control Delay, s 0.6 0 16.1 HCM LOS C Minor Lane/Major Mvmt EBL EBT WBT WBR SBLn1 SBLn2 Capacity (veh/h) 1070 - - 270 738 HCM Lane V/C Ratio 0.049 - - 0.202 0.071 HCM Control Delay (s) 8.5 0 - 21.7 10.3 HCM Lane LOS A A - C B	•		-	_	-			
Stage 2 - - - 449 - Approach EB WB SB HCM Control Delay, s 0.6 0 16.1 HCM LOS C Minor Lane/Major Mvmt EBL EBT WBT WBR SBLn1 SBLn2 Capacity (veh/h) 1070 270 738 HCM Lane V/C Ratio 0.049 0.202 0.071 HCM Control Delay (s) 8.5 0 - 21.7 10.3 HCM Lane LOS A A - C B			_		_			
Approach EB WB SB HCM Control Delay, s 0.6 0 16.1 HCM LOS C Minor Lane/Major Mvmt EBL EBT WBT WBR SBLn1 SBLn2 Capacity (veh/h) 1070 - - 270 738 HCM Lane V/C Ratio 0.049 - - 0.202 0.071 HCM Control Delay (s) 8.5 0 - - 21.7 10.3 HCM Lane LOS A A - C B			_	_	_			
HCM Control Delay, s 0.6 0 16.1	2.5.30 2							
HCM Control Delay, s 0.6 0 16.1 HCM LOS C Minor Lane/Major Mvmt EBL EBT WBT WBR SBLn1 SBLn2 Capacity (veh/h) 1070 270 738 HCM Lane V/C Ratio 0.049 0.202 0.071 HCM Control Delay (s) 8.5 0 - 21.7 10.3 HCM Lane LOS A A - C B	A I			14/5		0.0		
Minor Lane/Major Mvmt EBL EBT WBT WBR SBLn1 SBLn2 Capacity (veh/h) 1070 - - 270 738 HCM Lane V/C Ratio 0.049 - - 0.202 0.071 HCM Control Delay (s) 8.5 0 - 21.7 10.3 HCM Lane LOS A A - C B								
Minor Lane/Major Mvmt EBL EBT WBT WBR SBLn1 SBLn2 Capacity (veh/h) 1070 - - 270 738 HCM Lane V/C Ratio 0.049 - - 0.202 0.071 HCM Control Delay (s) 8.5 0 - - 21.7 10.3 HCM Lane LOS A A - C B		0.6		0				
Capacity (veh/h) 1070 270 738 HCM Lane V/C Ratio 0.049 0.202 0.071 HCM Control Delay (s) 8.5 0 - 21.7 10.3 HCM Lane LOS A A - C B	HCM LOS					С		
Capacity (veh/h) 1070 270 738 HCM Lane V/C Ratio 0.049 0.202 0.071 HCM Control Delay (s) 8.5 0 - 21.7 10.3 HCM Lane LOS A A - C B								
Capacity (veh/h) 1070 270 738 HCM Lane V/C Ratio 0.049 0.202 0.071 HCM Control Delay (s) 8.5 0 - 21.7 10.3 HCM Lane LOS A A - C B	Minor Lane/Major Mym	nt	FRI	FRT	WRT	WRR	SBI n1.9	SBI n2
HCM Lane V/C Ratio 0.049 - - 0.202 0.071 HCM Control Delay (s) 8.5 0 - - 21.7 10.3 HCM Lane LOS A A - C B								
HCM Control Delay (s) 8.5 0 21.7 10.3 HCM Lane LOS A A C B								
HCM Lane LOS A A C B								
		\						
	HOW SOUT WILL W(VEI)		0.2	-	-	-	0.7	0.2

Intersection						
Int Delay, s/veh	0.1					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
	EDL			WDIN		SDN
Lane Configurations	1	710	1 97	17	Y	1
Traffic Vol, veh/h	1	719	487	17	4	4
Future Vol, veh/h	1	719	487	17	4	4
Conflicting Peds, #/hr	_ 0	_ 0	0	0	0	0
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	97	97	97	97	97	97
Heavy Vehicles, %	0	2	5	0	0	0
Mvmt Flow	1	741	502	18	4	4
Major/Minor M	lajor1	N	Major2	N	Minor2	
	520	0		0	1254	511
Conflicting Flow All			-			
Stage 1	-	-	-	-	511	-
Stage 2	-	-	-	-	743	-
Critical Hdwy	4.1	-	-	-	5.1	4.5
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	1056	-	-	-	301	721
Stage 1	-	-	-	-	606	-
Stage 2	-	-	-	-	474	-
Platoon blocked, %		_	-	_		
	1056	_	_	_	300	721
Mov Cap-2 Maneuver	-	_	_	_	300	-
Stage 1	_	_	_	_	605	_
•	_	_	_	_	474	_
Stage 2	-	-	-	-	4/4	-
Approach	EB		WB		SB	
HCM Control Delay, s	0		0		13.7	
HCM LOS					В	
NA' 1 /NA - ' NA 1		EDI	ЕПТ	WDT	MDD	0DL .4
Minor Lane/Major Mvmt		EBL	EBT	WBT	WBR:	
Capacity (veh/h)		1056	-	-	-	424
HCM Lane V/C Ratio		0.001	-	-	-	0.019
		8.4	0	-	-	13.7
HCM Control Delay (s)						
		Α	Α	-	-	В
HCM Control Delay (s)			A -	-	-	0.1

Intersection						
Int Delay, s/veh	0.2					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
	LDL			MOL	SDL	אמט
Lane Configurations	^	4	^}	-		4.4
Traffic Vol, veh/h	3	543	953	5	1	14
Future Vol, veh/h	3	543	953	5	1	14
Conflicting Peds, #/hr	0	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,	# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	91	91	91	91	91	91
Heavy Vehicles, %	0	0	1	0	0	0
Mymt Flow	3	597	1047	5	1	15
IVIVIIILI IOW	J	331	1041	J	Į.	10
Major/Minor N	lajor1	N	//ajor2	N	Minor2	
Conflicting Flow All	1052	0	_	0	1653	1050
Stage 1	_	_	_	_	1050	_
Stage 2	_	_	_	_	603	_
Critical Hdwy	4.1	_	_	_	5.1	4.5
Critical Hdwy Stg 1		_	_	_	5.4	- .5
Critical Hdwy Stg 2		-	-			
	-	-	-	-	5.4	-
Follow-up Hdwy	2.2	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	669	-	-	-	199	457
Stage 1	-	-	-	-	340	-
Stage 2	-	-	-	-	550	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	669	-	-	_	198	457
Mov Cap-2 Maneuver	_	-	_	-	198	-
Stage 1	_	_	_	_	338	_
Stage 2	_	_	_	_	550	_
Olago Z					000	
Approach	EB		WB		SB	
HCM Control Delay, s	0.1		0		13.9	
HCM LOS					В	
Minor Lane/Major Mvmt		EBL	EBT	WBT	WBR :	SBLn1
Capacity (veh/h)		669	-	-	-	420
HCM Lane V/C Ratio		0.005	-	-	-	0.039
HCM Control Delay (s)		10.4	0	-	_	
HCM Lane LOS		В	A	-	-	В
HCM 95th %tile Q(veh)		0	_	_	_	0.1

Intersection							
Int Delay, s/veh	4.6						
Movement	EBL	EBT	WBT	WBR	SBL	SBR	
Lane Configurations		4	<u></u>		7	7	
Traffic Vol, veh/h	111	433	806	63	87	152	
Future Vol, veh/h	111	433	806	63	87	152	
Conflicting Peds, #/hr		0	0	0	0	0	
Sign Control	Free	Free	Free	Free	Stop	Stop	
RT Channelized	-	None	-		-	None	
Storage Length	-	-	-	-	0	50	
Veh in Median Storag	e,# -	0	0	-	0	-	
Grade, %	-	0	0	-	0	-	
Peak Hour Factor	95	95	95	95	95	95	
Heavy Vehicles, %	0	1	1	0	0	0	
Mvmt Flow	117	456	848	66	92	160	
Maiay/Mina	Maired		1-i0		Aim s = O		
	Major1		Major2		Minor2	004	
Conflicting Flow All	914	0	-	0	1571	881	
Stage 1	-	-	-	-	881	-	
Stage 2	-	-	-	-	690	-	
Critical Hdwy	4.1	-	-	-	5.1	4.5	
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	754	-	-	-	217	529	
Stage 1	-	-	-	-	408	-	
Stage 2	-	-	-	-	502	-	
Platoon blocked, %		-	-	-	4=0		
Mov Cap-1 Maneuver		-	-	-	172	529	
Mov Cap-2 Maneuver	-	-	-	-	172	-	
Stage 1	-	-	-	-	323	-	
Stage 2	-	-	-	-	502	-	
Approach	EB		WB		SB		
HCM Control Delay, s			0		26.6		
HCM LOS			J		D		
Minor Lane/Major Mvr	mt	EBL	EBT	WBT	WBR	SBLn1	
Capacity (veh/h)		754	-	-	-		529
HCM Lane V/C Ratio		0.155	-	-	-	0.532	
HCM Control Delay (s	s)	10.6	0	-	-		14.7
HCM Lane LOS		В	Α	-	-	Е	В
HCM 95th %tile Q(veh	n)	0.5	-	-	-	2.7	1.3

Intersection						
Int Delay, s/veh	0.4					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	LDL	4	7∌	WDIX	₩.	SDIX
Traffic Vol, veh/h	11	509	864	19	19	5
Future Vol, veh/h	11	509	864	19	19	5
Conflicting Peds, #/hr	0	0	004	0	0	0
		Free				
Sign Control	Free		Free	Free	Stop	Stop
RT Channelized	-		-		-	None
Storage Length	<u>-</u>	-	-	-	0	-
Veh in Median Storage,		0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	0	1	0	0	0	0
Mvmt Flow	12	566	960	21	21	6
Major/Minor N	1ajor1	N	Major2	1	Minor2	
Conflicting Flow All	981	0	-	0	1561	971
Stage 1	-	-	_	-	971	-
Stage 2	_	_	_	-	590	_
Critical Hdwy	4.1	_	_	-	5.1	4.5
Critical Hdwy Stg 1	7.1	_	_	_	5.4	
Critical Hdwy Stg 2	_	_	_	_	5.4	_
	2.2	<u>-</u>		_	3.5	3.3
Follow-up Hdwy	712		-			489
Pot Cap-1 Maneuver		-	-	-	219	
Stage 1	-	-	-	-	370	-
Stage 2	-	-	-	-	558	-
Platoon blocked, %	740	-	-	-	044	400
Mov Cap-1 Maneuver	712	-	-	-	214	489
Mov Cap-2 Maneuver	-	-	-	-	214	-
Stage 1	-	-	-	-	361	-
Stage 2	-	-	-	-	558	-
Approach	EB		WB		SB	
HCM Control Delay, s	0.2		0		21.7	
HCM LOS	0.2		U		C C	
I IOW LOS					U	
Minor Lane/Major Mvmt		EBL	EBT	WBT	WBR S	SBLn1
Capacity (veh/h)		712	-	-	-	242
HCM Lane V/C Ratio		0.017	-	-	-	0.11
HCM Control Delay (s)		10.1	0	-	-	21.7
HCM Lane LOS		В	Α	-	-	С
HCM 95th %tile Q(veh)		0.1	-	-	-	0.4

Intersection						
Int Delay, s/veh	0.2					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
	LDL			וטייי	SDL ₩	אומט
Lane Configurations	0	410	1	2		0
Traffic Vol, veh/h	8	418	469	3	3	8
Future Vol, veh/h	8	418	469	3	3	8
Conflicting Peds, #/hr	0	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,	,# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	93	93	93	93	93	93
Heavy Vehicles, %	0	0	1	0	0	0
Mymt Flow	9	449	504	3	3	9
IVIVIIIL I IOW	9	443	JU4	J	J	9
Major/Minor M	/lajor1	N	Major2	N	Minor2	
Conflicting Flow All	507	0		0	973	506
Stage 1	-	-	-	-	506	-
Stage 2	_	_	_	_	467	_
Critical Hdwy	4.1	_	_	-	5.1	4.5
Critical Hdwy Stg 1	7.1	_	_	_	5.4	- .5
		-	-			
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.2	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	1068	-	-	-	401	724
Stage 1	-	-	-	-	610	-
Stage 2	-	-	-	-	635	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1068	_	-	-	397	724
Mov Cap-2 Maneuver	_	_	_	_	397	_
Stage 1	_	_	_	_	603	_
Stage 2	_	_	_	_	635	_
Staye 2	-	_	-	-	033	
Approach	EB		WB		SB	
HCM Control Delay, s	0.2		0		11.2	
HCM LOS	V		•		В	
HOW LOO						
Minor Lane/Major Mvmt	t	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)		1068	-	-	-	591
HCM Lane V/C Ratio		0.008	_	-	-	0.02
HCM Control Delay (s)		8.4	0	_	-	11.2
HCM Lane LOS		A	A	_	_	В
HCM 95th %tile Q(veh)		0	-	_	_	0.1
HOW JOHN JUNIO Q(VEII)		U				0.1

Intersection							
Int Delay, s/veh	4.1						
Movement	EBL	EBT	WBT	WBR	SBL	SBR	Į
Lane Configurations		4	1		ሻ	7	1
Traffic Vol, veh/h	106	315	352	62	108	120	
Future Vol, veh/h	106	315	352	62	108	120	
Conflicting Peds, #/hr	0	0	0	0	0	0	
Sign Control	Free	Free	Free	Free	Stop	Stop	
RT Channelized	-		-		- Olop	None	
Storage Length	_	-	_	-	0	0	
Veh in Median Storage		0	0	_	0	-	
Grade, %	·, π -	0	0	<u>-</u>	0		
Peak Hour Factor	93	93	93	93	93	93	
Heavy Vehicles, %	0	0	1	0	0	0	
Mvmt Flow	114	339	378	67	116	129	
Major/Minor I	Major1	1	Major2	1	Minor2		I
Conflicting Flow All	445	0	-	0	979	412	•
Stage 1	-	-	_	-	412	-	
Stage 2	_	_	_	_	567	_	
Critical Hdwy	4.1	_	_	_	5.1	4.5	
Critical Hdwy Stg 1	T. I	_	_	_	5.4		
Critical Hdwy Stg 2	_		_	_	5.4	_	
Follow-up Hdwy	2.2		_	-	3.5	3.3	
Pot Cap-1 Maneuver	1126	_	_	-	398	783	
	1120	-	-		673	703	
Stage 1	-	-		-			
Stage 2	-	-	-	-	572	-	
Platoon blocked, %	4400	-	-	-	0.40	700	
Mov Cap-1 Maneuver	1126	-	-	-	348	783	
Mov Cap-2 Maneuver	-		-	-	348	-	
Stage 1	-	-	-	-	589	-	
Stage 2	-	-	-	-	572	-	
Approach	EB		WB		SB		
	2.2		0		15.2		
HCM Control Delay, s	2.2		U				
HCM LOS					С		
Minor Lane/Major Mvm	ıt	EBL	EBT	WBT	WBR S	SBLn1	SE
Capacity (veh/h)		1126	-	-	-		
HCM Lane V/C Ratio		0.101	_	-	_	0.334	
HCM Control Delay (s)		8.6	0	_	_		
HCM Lane LOS		Α	A	_	_	20.4 C	
HCM 95th %tile Q(veh)		0.3	-		_	1.4	
HUIVI YATIN YATIID UUVAN		(1.5	_				0.6

Intersection						
Int Delay, s/veh	0.2					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	LUL	4	₩	וטייי	₩.	אופט
Traffic Vol, veh/h	6	417	411	3	'T'	3
Future Vol, veh/h	6	417	411	3	9	3
	0			0	0	0
Conflicting Peds, #/hr		0	0			
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	95	95	95	95	95	95
Heavy Vehicles, %	0	0	1	0	0	0
Mvmt Flow	6	439	433	3	9	3
	/lajor1		Major2		Minor2	
Conflicting Flow All	436	0	-	0	886	435
Stage 1	-	-	-	_	435	-
Stage 2	-	-	-	-	451	-
Critical Hdwy	4.1	-	-	_	5.1	4.5
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	1134	_	_	_	437	768
Stage 1	-	_	_	<u>-</u>	657	-
		-	-			
Stage 2	-	-	-	-	646	-
Platoon blocked, %		-	-	-	101	
Mov Cap-1 Maneuver	1134	-	-	-	434	768
Mov Cap-2 Maneuver	-	-	-	-	434	-
Stage 1	-	-	-	_	652	-
Stage 2	-	-	-	-	646	-
A	- ED		WD		OD.	
Approach	EB		WB		SB	
HCM Control Delay, s	0.1		0		12.6	
HCM LOS					В	
Minor Lane/Major Mvm	t	EBL	EBT	WRT	WBR	SBI n1
Capacity (veh/h)		1134	-	1101	- 1001	
				-		
HCM Lane V/C Ratio		0.006	-	-		0.026
HCM Control Delay (s)		8.2	0	-	-	
HCM Lane LOS		Α	Α	-	-	В
HCM 95th %tile Q(veh)		0	-	-	-	0.1

Grade, % Peak Hour Factor Heavy Vehicles, % Mvmt Flow Major/Minor Conflicting Flow All Stage 1 Stage 2 Critical Hdwy Critical Hdwy Stg 1 Critical Hdwy Stg 2 Follow-up Hdwy Pot Cap-1 Maneuver Stage 1 Stage 2 Platoon blocked, % Mov Cap-1 Maneuve Mov Cap-2 Maneuve Stage 1 Stage 2 Approach HCM Control Delay, selections	ntersection						
Lane Configurations Traffic Vol, veh/h Future Vol, veh/h Future Vol, veh/h Conflicting Peds, #/h Sign Control RT Channelized Storage Length Veh in Median Storag Grade, % Peak Hour Factor Heavy Vehicles, % Mvmt Flow Major/Minor Conflicting Flow All Stage 1 Stage 2 Critical Hdwy Stg 1 Critical Hdwy Stg 2 Follow-up Hdwy Pot Cap-1 Maneuver Stage 1 Stage 2 Platoon blocked, % Mov Cap-1 Maneuve Mov Cap-2 Maneuve Stage 1 Stage 2 Approach HCM Control Delay, s HCM LOS Minor Lane/Major Mv Capacity (veh/h)	nt Delay, s/veh	0.1					
Lane Configurations Traffic Vol, veh/h Future Vol, veh/h Future Vol, veh/h Conflicting Peds, #/h Sign Control RT Channelized Storage Length Veh in Median Storag Grade, % Peak Hour Factor Heavy Vehicles, % Mvmt Flow Major/Minor Conflicting Flow All Stage 1 Stage 2 Critical Hdwy Stg 1 Critical Hdwy Stg 2 Follow-up Hdwy Pot Cap-1 Maneuver Stage 1 Stage 2 Platoon blocked, % Mov Cap-1 Maneuve Mov Cap-2 Maneuve Stage 1 Stage 2 Approach HCM Control Delay, s HCM LOS Minor Lane/Major Mv Capacity (veh/h)	Movement	EBL	EBT	WBT	WBR	SBL	SBR
Traffic Vol, veh/h Future Vol, veh/h Conflicting Peds, #/h Sign Control RT Channelized Storage Length Veh in Median Storag Grade, % Peak Hour Factor Heavy Vehicles, % Mvmt Flow Major/Minor Conflicting Flow All Stage 1 Stage 2 Critical Hdwy Critical Hdwy Stg 1 Critical Hdwy Stg 2 Follow-up Hdwy Pot Cap-1 Maneuver Stage 1 Stage 2 Platoon blocked, % Mov Cap-1 Maneuve Mov Cap-2 Maneuve Mov Cap-2 Maneuve Stage 1 Stage 2 Approach HCM Control Delay, s HCM LOS Minor Lane/Major Mv Capacity (veh/h)		LUL			אפאי) j	OBIN
Future Vol, veh/h Conflicting Peds, #/h Sign Control RT Channelized Storage Length Veh in Median Storag Grade, % Peak Hour Factor Heavy Vehicles, % Mvmt Flow Major/Minor Conflicting Flow All Stage 1 Stage 2 Critical Hdwy Critical Hdwy Stg 1 Critical Hdwy Stg 2 Follow-up Hdwy Pot Cap-1 Maneuver Stage 1 Stage 2 Platoon blocked, % Mov Cap-1 Maneuve Mov Cap-2 Maneuve Stage 1 Stage 2 Platoon blocked, % Mov Cap-1 Maneuve Mov Cap-2 Maneuve Stage 1 Stage 2 Approach HCM Control Delay, shed LOS Minor Lane/Major Mv Capacity (veh/h)		7	€	1	2		0
Conflicting Peds, #/hi Sign Control RT Channelized Storage Length Veh in Median Storag Grade, % Peak Hour Factor Heavy Vehicles, % Mvmt Flow Major/Minor Conflicting Flow All Stage 1 Stage 2 Critical Hdwy Critical Hdwy Stg 1 Critical Hdwy Stg 2 Follow-up Hdwy Pot Cap-1 Maneuver Stage 1 Stage 2 Platoon blocked, % Mov Cap-1 Maneuve Mov Cap-2 Maneuve Stage 1 Stage 2 Platoon blocked, % Mov Cap-2 Maneuve Stage 1 Stage 2 Approach HCM Control Delay, s HCM LOS Minor Lane/Major Mv Capacity (veh/h)		7	719	508	2	0	0
Sign Control RT Channelized Storage Length Veh in Median Storage Grade, % Peak Hour Factor Heavy Vehicles, % Mvmt Flow Major/Minor Conflicting Flow All Stage 1 Stage 2 Critical Hdwy Critical Hdwy Stg 1 Critical Hdwy Stg 2 Follow-up Hdwy Pot Cap-1 Maneuver Stage 1 Stage 2 Platoon blocked, % Mov Cap-1 Maneuver Stage 1 Stage 2 Platoon blocked, % Mov Cap-1 Maneuve Mov Cap-2 Maneuve Stage 1 Stage 2 Approach HCM Control Delay, selection of the co		7	719	508	2	0	0
RT Channelized Storage Length Veh in Median Storag Grade, % Peak Hour Factor Heavy Vehicles, % Mvmt Flow Major/Minor Conflicting Flow All Stage 1 Stage 2 Critical Hdwy Stg 1 Critical Hdwy Stg 2 Follow-up Hdwy Pot Cap-1 Maneuver Stage 1 Stage 2 Platoon blocked, % Mov Cap-1 Maneuve Mov Cap-2 Maneuve Stage 1 Stage 2 Platoon blocked, % Hov Cap-2 Maneuve Stage 1 Stage 2 Approach HCM Control Delay, shed LOS Minor Lane/Major Mv Capacity (veh/h)			_ 0	_ 0	_ 0	0	0
Storage Length Veh in Median Storag Grade, % Peak Hour Factor Heavy Vehicles, % Mvmt Flow Major/Minor Conflicting Flow All Stage 1 Stage 2 Critical Hdwy Critical Hdwy Stg 1 Critical Hdwy Stg 2 Follow-up Hdwy Pot Cap-1 Maneuver Stage 1 Stage 2 Platoon blocked, % Mov Cap-1 Maneuve Mov Cap-1 Maneuve Stage 1 Stage 2 Platoon blocked, % Mov Cap-1 Maneuve Mov Cap-2 Maneuve Stage 1 Stage 2 Approach HCM Control Delay, shed LOS Minor Lane/Major Mv Capacity (veh/h)		Free	Free	Free	Free	Stop	Stop
Veh in Median Storage Grade, % Peak Hour Factor Heavy Vehicles, % Mvmt Flow Major/Minor Conflicting Flow All Stage 1 Stage 2 Critical Hdwy Critical Hdwy Stg 1 Critical Hdwy Stg 2 Follow-up Hdwy Pot Cap-1 Maneuver Stage 1 Stage 2 Platoon blocked, % Mov Cap-1 Maneuve Mov Cap-2 Maneuve Stage 1 Stage 2 Approach HCM Control Delay, selection of the cont		-	None	-	None	-	None
Grade, % Peak Hour Factor Heavy Vehicles, % Mvmt Flow Major/Minor Conflicting Flow All Stage 1 Stage 2 Critical Hdwy Critical Hdwy Stg 1 Critical Hdwy Stg 2 Follow-up Hdwy Pot Cap-1 Maneuver Stage 1 Stage 2 Platoon blocked, % Mov Cap-1 Maneuve Mov Cap-2 Maneuve Stage 1 Stage 2 Approach HCM Control Delay, s HCM LOS Minor Lane/Major Mv Capacity (veh/h)		-	-	-	-	0	-
Peak Hour Factor Heavy Vehicles, % Mvmt Flow Major/Minor Conflicting Flow All Stage 1 Stage 2 Critical Hdwy Critical Hdwy Stg 1 Critical Hdwy Stg 2 Follow-up Hdwy Pot Cap-1 Maneuver Stage 2 Platoon blocked, % Mov Cap-1 Maneuve Mov Cap-2 Maneuve Stage 1 Stage 2 Approach HCM Control Delay, selection of the Control Del	Veh in Median Storag	je,# -	0	0	-	0	-
Peak Hour Factor Heavy Vehicles, % Mvmt Flow Major/Minor Conflicting Flow All Stage 1 Stage 2 Critical Hdwy Critical Hdwy Stg 1 Critical Hdwy Stg 2 Follow-up Hdwy Pot Cap-1 Maneuver Stage 2 Platoon blocked, % Mov Cap-1 Maneuve Mov Cap-2 Maneuve Stage 1 Stage 2 Approach HCM Control Delay, selection of the Control Del	Grade, %	-	0	0	-	0	-
Major/Minor Conflicting Flow All Stage 1 Stage 2 Critical Hdwy Critical Hdwy Stg 1 Critical Hdwy Stg 2 Follow-up Hdwy Pot Cap-1 Maneuver Stage 1 Stage 2 Platoon blocked, % Mov Cap-1 Maneuve Mov Cap-2 Maneuve Stage 1 Stage 2 Approach HCM Control Delay, s HCM LOS Minor Lane/Major Mv Capacity (veh/h)		97	97	97	97	97	97
Major/Minor Conflicting Flow All Stage 1 Stage 2 Critical Hdwy Critical Hdwy Stg 1 Critical Hdwy Stg 2 Follow-up Hdwy Pot Cap-1 Maneuver Stage 1 Stage 2 Platoon blocked, % Mov Cap-1 Maneuve Mov Cap-2 Maneuve Stage 1 Stage 2 Approach HCM Control Delay, s HCM LOS Minor Lane/Major Mv Capacity (veh/h)		0	2	5	0	0	0
Major/Minor Conflicting Flow All Stage 1 Stage 2 Critical Hdwy Critical Hdwy Stg 1 Critical Hdwy Stg 2 Follow-up Hdwy Pot Cap-1 Maneuver Stage 1 Stage 2 Platoon blocked, % Mov Cap-1 Maneuve Mov Cap-2 Maneuve Stage 1 Stage 2 Approach HCM Control Delay, s HCM LOS Minor Lane/Major Mv Capacity (veh/h)		7	741	524	2	0	0
Conflicting Flow All Stage 1 Stage 2 Critical Hdwy Critical Hdwy Stg 1 Critical Hdwy Stg 2 Follow-up Hdwy Pot Cap-1 Maneuver Stage 1 Stage 2 Platoon blocked, % Mov Cap-1 Maneuve Mov Cap-2 Maneuve Stage 1 Stage 2 Approach HCM Control Delay, s HCM LOS Minor Lane/Major Mv Capacity (veh/h)	WINDER TOWN	I	171	ULT		U	U
Conflicting Flow All Stage 1 Stage 2 Critical Hdwy Critical Hdwy Stg 1 Critical Hdwy Stg 2 Follow-up Hdwy Pot Cap-1 Maneuver Stage 1 Stage 2 Platoon blocked, % Mov Cap-1 Maneuve Mov Cap-2 Maneuve Stage 1 Stage 2 Approach HCM Control Delay, s HCM LOS Minor Lane/Major Mv Capacity (veh/h)							
Stage 1 Stage 2 Critical Hdwy Critical Hdwy Stg 1 Critical Hdwy Stg 2 Follow-up Hdwy Pot Cap-1 Maneuver Stage 1 Stage 2 Platoon blocked, % Mov Cap-1 Maneuve Mov Cap-2 Maneuve Stage 1 Stage 2 Approach HCM Control Delay, S	Major/Minor	Major1	N	Major2	<u> </u>	Minor2	
Stage 1 Stage 2 Critical Hdwy Critical Hdwy Stg 1 Critical Hdwy Stg 2 Follow-up Hdwy Pot Cap-1 Maneuver Stage 1 Stage 2 Platoon blocked, % Mov Cap-1 Maneuve Mov Cap-2 Maneuve Stage 1 Stage 2 Approach HCM Control Delay, S	Conflicting Flow All	526	0	-	0	1280	-
Stage 2 Critical Hdwy Critical Hdwy Stg 1 Critical Hdwy Stg 2 Follow-up Hdwy Pot Cap-1 Maneuver Stage 1 Stage 2 Platoon blocked, % Mov Cap-1 Maneuve Mov Cap-2 Maneuve Stage 1 Stage 2 Approach HCM Control Delay, SHCM LOS Minor Lane/Major Mv Capacity (veh/h)		-	-	-	-	525	-
Critical Hdwy Critical Hdwy Stg 1 Critical Hdwy Stg 2 Follow-up Hdwy Pot Cap-1 Maneuver Stage 1 Stage 2 Platoon blocked, % Mov Cap-1 Maneuve Mov Cap-2 Maneuve Stage 1 Stage 2 Approach HCM Control Delay, SHCM LOS Minor Lane/Major Mv Capacity (veh/h)		_	_	_	-	755	-
Critical Hdwy Stg 1 Critical Hdwy Stg 2 Follow-up Hdwy Pot Cap-1 Maneuver Stage 1 Stage 2 Platoon blocked, % Mov Cap-1 Maneuve Mov Cap-2 Maneuve Stage 1 Stage 2 Approach HCM Control Delay, SHCM LOS Minor Lane/Major Mv Capacity (veh/h)		4.1	-	_	_	5.1	_
Critical Hdwy Stg 2 Follow-up Hdwy Pot Cap-1 Maneuver Stage 1 Stage 2 Platoon blocked, % Mov Cap-1 Maneuve Mov Cap-2 Maneuve Stage 1 Stage 2 Approach HCM Control Delay, s HCM LOS Minor Lane/Major Mv Capacity (veh/h)		-	_	_	_	5.4	_
Follow-up Hdwy Pot Cap-1 Maneuver Stage 1 Stage 2 Platoon blocked, % Mov Cap-1 Maneuve Mov Cap-2 Maneuve Stage 1 Stage 2 Approach HCM Control Delay, s HCM LOS Minor Lane/Major Mv Capacity (veh/h)						5.4	
Pot Cap-1 Maneuver Stage 1 Stage 2 Platoon blocked, % Mov Cap-1 Maneuve Mov Cap-2 Maneuve Stage 1 Stage 2 Approach HCM Control Delay, SHCM LOS Minor Lane/Major Mv Capacity (veh/h)		-	-	-	-		-
Stage 1 Stage 2 Platoon blocked, % Mov Cap-1 Maneuve Mov Cap-2 Maneuve Stage 1 Stage 2 Approach HCM Control Delay, SHCM LOS Minor Lane/Major Mv Capacity (veh/h)		2.2	-	-	-	3.5	-
Stage 2 Platoon blocked, % Mov Cap-1 Maneuve Mov Cap-2 Maneuve Stage 1 Stage 2 Approach HCM Control Delay, SHCM LOS Minor Lane/Major Mv Capacity (veh/h)		1051	-	-	-	293	0
Platoon blocked, % Mov Cap-1 Maneuve Mov Cap-2 Maneuve Stage 1 Stage 2 Approach HCM Control Delay, SHCM LOS Minor Lane/Major Mv Capacity (veh/h)		-	-	-	-	598	0
Mov Cap-1 Maneuve Mov Cap-2 Maneuve Stage 1 Stage 2 Approach HCM Control Delay, HCM LOS Minor Lane/Major Mv Capacity (veh/h)	Stage 2	-	-	-	-	468	0
Mov Cap-2 Maneuve Stage 1 Stage 2 Approach HCM Control Delay, SHCM LOS Minor Lane/Major Mv Capacity (veh/h)	Platoon blocked, %		-	-	-		
Mov Cap-2 Maneuve Stage 1 Stage 2 Approach HCM Control Delay, SHCM LOS Minor Lane/Major Mv Capacity (veh/h)	Mov Cap-1 Maneuver	1051	_	-	-	290	-
Stage 1 Stage 2 Approach HCM Control Delay, SHCM LOS Minor Lane/Major Mv Capacity (veh/h)			_	_	_	290	_
Stage 2 Approach HCM Control Delay, HCM LOS Minor Lane/Major Mv Capacity (veh/h)		_	_	_	_	591	_
Approach HCM Control Delay, s HCM LOS Minor Lane/Major Mv Capacity (veh/h)		_	_	_	_	468	_
HCM Control Delay, HCM LOS Minor Lane/Major Mv Capacity (veh/h)	Stage 2	_		_	_	400	_
HCM Control Delay, HCM LOS Minor Lane/Major Mv Capacity (veh/h)							
HCM Control Delay, HCM LOS Minor Lane/Major Mv Capacity (veh/h)	Approach	EB		WB		SB	
HCM LOS Minor Lane/Major Mv Capacity (veh/h)		0.1		0		0	
Minor Lane/Major Mv Capacity (veh/h)		0.1				A	
Capacity (veh/h)	TOW LOO						
Capacity (veh/h)							
	Minor Lane/Major Mv	mt	EBL	EBT	WBT	WBR S	SBLn1
	Capacity (veh/h)		1051	-	-	-	-
			0.007	_	-	-	_
HCM Control Delay (HCM Control Delay (s	3)	8.4	0	-	_	0
HCM Lane LOS		7	A	A	_	_	A
	HCM 95th %tile Q(vel	h)	0	-	-	_	-
HOW SOUT MILE Q(VE	TOWN JOHN /OHIE Q(VE)	11)	U	_	_	_	_

Int Delay, s/veh	1.9						
Movement	EBL	EBT	WBT	WBR	SBL	SBR	
Lane Configurations	LUL	4	13₩	۱۱۵۰۱	SDL T	JDIK	
Traffic Vol, veh/h	53	667	451	44	63	69	
Future Vol, veh/h	53	667	451	44	63	69	
Conflicting Peds, #/hr	0	007	451	0	03	09	
Sign Control	Free	Free	Free	Free	Stop	Stop	
RT Channelized	riee -	None	riee -	None	Stop -	None	
Storage Length				NONE			
	- #	_	-	-	0	0	
Veh in Median Storage	•	0	0	-	0	-	
Grade, %	- 07	0	0	- 07	0	- 07	
Peak Hour Factor	97	97	97	97	97	97	
Heavy Vehicles, %	0	2	5	0	0	0	
Mvmt Flow	55	688	465	45	65	71	
Major/Minor	Major1	N	Major2	N	Minor2		
Conflicting Flow All	510	0	viajuiz -	0	1286	488	
Stage 1	510	-		-	488	400	
	-	•	-	-	798	-	
Stage 2 Critical Hdwy	4.1	-			5.1	4.5	
	4.1	-	-	-	5.1		
Critical Hdwy Stg 1	-	-	-	-		-	
Critical Hdwy Stg 2	-	-	-	-	5.4	-	
Follow-up Hdwy	2.2	-	-	-	3.5	3.3	
Pot Cap-1 Maneuver	1065	-	-	-	291	735	
Stage 1	-	-	-	-	621	-	
Stage 2	-	-	-	-	447	-	
Platoon blocked, %		-	-	-			
Mov Cap-1 Maneuver	1065	-	-	-	267	735	
Mov Cap-2 Maneuver	-	-	-	-	267	-	
Stage 1	-	-	-	-	569	-	
Stage 2	-	-	-	-	447	-	
Annroach	EB		WB		CD		
Approach					SB		
HCM Control Delay, s	0.6		0		16.3		
HCM LOS					С		
Minor Lane/Major Mvr	nt	EBL	EBT	WBT	WBR :	SBLn1	SBLn2
Capacity (veh/h)		1065			-	267	735
HCM Lane V/C Ratio		0.051				0.243	
HCM Control Delay (s)	8.6	0	-	-		10.4
HCM Lane LOS	1	6.0 A	A	_		22.0 C	10.4 B
	.)	0.2	- A	-	-	0.9	0.3
HCM 95th %tile Q(veh				_		U.S	U.J

Intersection						
Int Delay, s/veh	0.1					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	LUL	4	13₩	ופייי	N/	אופט
Traffic Vol, veh/h	1	728	489	18	T	7
Future Vol, veh/h	1	728	489	18	6	7
,						
Conflicting Peds, #/hr	0	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	,# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	97	97	97	97	97	97
Heavy Vehicles, %	0	2	5	0	0	0
Mvmt Flow	1	751	504	19	6	7
Maiar/Minar	10:04		Maia#0		Aire and	
	Major1		Major2		Minor2	544
Conflicting Flow All	523	0	-	0	1267	514
Stage 1	-	-	-	-	514	-
Stage 2	-	-	-	-	753	-
Critical Hdwy	4.1	-	-	-	5.1	4.5
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	1054	-	-	-	297	720
Stage 1	-	-	-	-	605	-
Stage 2	-	-	-	-	469	-
Platoon blocked, %		_	_	_		
Mov Cap-1 Maneuver	1054	_	_	_	296	720
Mov Cap-2 Maneuver	-	_	_	<u>-</u>	296	-
Stage 1	_		_	_	604	_
	_	_	_	-	469	_
Stage 2	-	-	-	-	409	-
Approach	EB		WB		SB	
HCM Control Delay, s	0		0		13.6	
HCM LOS					В	
Minor Lane/Major Mvm	t	EBL	EBT	WBT	WBR:	
Capacity (veh/h)		1054	-	-	-	100
HCM Lane V/C Ratio		0.001	-	-	-	0.031
HCM Control Delay (s)		8.4	0	_	-	
HCM Lane LOS		Α	Α	-	-	В
HCM 95th %tile Q(veh)		0	_	-	_	0.1

Intersection						
Int Delay, s/veh	0					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
	EDL			WDK		SDR
Lane Configurations Traffic Vol, veh/h	4	€ 1 545	1 → 953	5	Y	0
				5	0	
Future Vol, veh/h	4	545	953	5	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-			None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage,		0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	91	91	91	91	91	91
Heavy Vehicles, %	0	0	1	0	0	0
Mvmt Flow	4	599	1047	5	0	0
Major/Minor N	/lajor1	N	Major2		Minor2	
Conflicting Flow All	1052	0	-	0	1657	1050
					1057	
Stage 1	-	-	-	-		-
Stage 2	-	-	-	-	607	-
Critical Hdwy	4.1	-	-	-	5.1	4.5
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	669	-	-	-	198	457
Stage 1	-	-	-	-	340	-
Stage 2	-	-	-	-	548	-
Platoon blocked, %		-	-	_		
Mov Cap-1 Maneuver	669	_	_	-	196	457
Mov Cap-2 Maneuver	-	_	_	-	196	-
Stage 1	_	_	_	-	337	-
Stage 2	_	_	_	_	548	<u>-</u>
Stage 2	_	_	-		J 4 0	_
Approach	EB		WB		SB	
HCM Control Delay, s	0.1		0		0	
HCM LOS					Α	
N.4' /N.4 ' N.4 '	•	EDI	БОТ	MOT	WDD	2DL 4
Minor Lane/Major Mvmt	i .	EBL	EBT	WBT	WBR :	SBLn1
Capacity (veh/h)		669	-	-	-	-
HCM Lane V/C Ratio		0.007	-	-	-	-
HCM Control Delay (s)		10.4	0	-	-	0
HCM Lane LOS		В	Α	-	-	Α
HCM 95th %tile Q(veh)		0	-	-	-	-

Intersection							
Int Delay, s/veh	4.8						
		FDT	WOT	MPP	ODI	ODD	
Movement	EBL	EBT	WBT	WBR	SBL	SBR	
Lane Configurations	140	422	1	0.4	<u>ች</u>	100	
Traffic Vol, veh/h	113	433	806	64	88	166	
Future Vol, veh/h	113	433	806	64	88	166	
Conflicting Peds, #/hr	0 Eroo	0 Free	0 Free	0 Free		O Stop	
Sign Control RT Channelized	Free -				Stop -	Stop None	
Storage Length	-	ivone -	-	ivone -	0	50	
Veh in Median Storage,		0	0		0	50	
Grade, %	# - -	0	0	-	0	-	
Peak Hour Factor	95	95	95	95	95	95	
Heavy Vehicles, %	95	95	95	95	95	95	
Mvmt Flow	119	456	848	67	93	175	
IVIVIIIL FIUW	119	400	040	UI	93	175	
	lajor1	N	Major2		Minor2		
Conflicting Flow All	915	0	-	0	1576	882	
Stage 1	-	-	-	-	882	-	
Stage 2	-	-	-	-	694	-	
Critical Hdwy	4.1	-	-	-	5.1	4.5	
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	754	-	-	-	216	528	
Stage 1	-	-	-	-	408	-	
Stage 2	-	-	-	-	499	-	
Platoon blocked, %	 :	-	-	-	4=0		
Mov Cap-1 Maneuver	754	-	-	-	170	528	
Mov Cap-2 Maneuver	-	-	-	-	170	-	
Stage 1	-	-	-	-	322	-	
Stage 2	-	-	-	-	499	-	
Approach	EB		WB		SB		
HCM Control Delay, s	2.2		0		26.9		
HCM LOS	2.2		U		D		
1.0111 200							
Minor Long/Maiar M		EDI	EDT	MOT	MDD	ODL 4. C	ים בי
Minor Lane/Major Mvmt		EBL	EBT	WBT		SBLn1 S	
Capacity (veh/h)		754	-	-	-		528
HCM Lane V/C Ratio		0.158	-	-		0.545	
HCM Control Delay (s)		10.7	0	-	-	49	15.2
HCM Lane LOS		В	Α	-	-	E	C
HCM 95th %tile Q(veh)		0.6	-	-	-	2.8	1.4

Intersection						
Int Delay, s/veh	0.4					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		4	1	7751	Y	USIN
Traffic Vol, veh/h	11	509	865	21	19	5
Future Vol, veh/h	11	509	865	21	19	5
Conflicting Peds, #/hr	0	0	000	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-		- Olop	None
Storage Length	_	-	_	-	0	-
Veh in Median Storage	# -	0	0	_	0	_
Grade, %	, π -	0	0	<u>-</u>	0	_
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	0	1	0	90	0	0
					21	
Mvmt Flow	12	566	961	23	21	6
Major/Minor N	Major1	N	Major2	N	Minor2	
Conflicting Flow All	984	0		0	1563	973
Stage 1	_	_	-	_	973	_
Stage 2	_	_	_	_	590	_
Critical Hdwy	4.1	_	_	_	5.1	4.5
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	710		_	_	219	489
Stage 1	7 10	_	<u> </u>		370	409
		-	-	-		
Stage 2	-	-	-	-	558	-
Platoon blocked, %	740	-	-	-	04.4	400
Mov Cap-1 Maneuver	710	-	-	-	214	489
Mov Cap-2 Maneuver	-	-	-	-	214	-
Stage 1	-	-	-	-	361	-
Stage 2	-	-	-	-	558	-
Approach	EB		WB		SB	
HCM Control Delay, s	0.2		0		21.7	
HCM LOS	0.2		U		C	
TIOWI LOG					U	
Minor Lane/Major Mvm	t	EBL	EBT	WBT	WBR S	SBLn1
Capacity (veh/h)		710	-	-	-	242
HCM Lane V/C Ratio		0.017	-	-	-	0.11
HCM Control Delay (s)		10.2	0	-	-	21.7
HCM Lane LOS		В	A	_	-	С
HCM 95th %tile Q(veh)		0.1	-	-	-	0.4

Intersection						
Int Delay, s/veh	0.1					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	LDL	4		ופייי	JDL T	אופט
Traffic Vol, veh/h	8	419	1 → 470	3		٥
					0	0
Future Vol, veh/h	8	419	470	3	0	0
Conflicting Peds, #/hr	0	_ 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	93	93	93	93	93	93
Heavy Vehicles, %	0	0	1	0	0	0
Mvmt Flow	9	451	505	3	0	0
	J	101	000			
Major/Minor I	Major1	N	Major2	N	Minor2	
Conflicting Flow All	508	0	-	0	976	-
Stage 1	-	-	_	-	507	-
Stage 2	-	-	-	-	469	-
Critical Hdwy	4.1	_	_	_	5.1	_
Critical Hdwy Stg 1		_	_	_	5.4	_
Critical Hdwy Stg 2	_	_	_	_	5.4	-
		-				
Follow-up Hdwy	2.2	-	-	-	3.5	-
Pot Cap-1 Maneuver	1067	-	-	-	400	0
Stage 1	-	-	-	-	609	0
Stage 2	-	-	-	-	634	0
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1067	-	-	_	396	-
Mov Cap-2 Maneuver	_	_	_	_	396	_
Stage 1	_	_	_	_	602	_
Stage 2	_	_	_	<u>-</u>	634	_
Olage 2	_		_		004	
Approach	EB		WB		SB	
HCM Control Delay, s	0.2		0		0	
HCM LOS	V				A	
TIOM LOO					,,	
Minor Lane/Major Mvm	nt	EBL	EBT	WBT	WBR S	SBLn1
Capacity (veh/h)		1067	_	-	-	-
HCM Lane V/C Ratio			_	_	-	_
LICIVI LAHE VICE DANCE		บ.บบก				
		0.008		_	_	n
HCM Control Delay (s)		8.4	0	-	-	0
				- -	-	0 A

Intersection							
Int Delay, s/veh	4.3						
Movement	EBL	EBT	WBT	WBR	SBL	SBR	
Lane Configurations	LUL	4	1∌	ופוז)	7	
Traffic Vol, veh/h	107	315	352	63	113	129	
Future Vol, veh/h	107	315	352	63	113	129	
Conflicting Peds, #/hr	0	0	0	0	0	0	
Sign Control	Free	Free	Free	Free	Stop	Stop	
RT Channelized	-			None	- -	None	
Storage Length	_	-	_	-	0	0	
Veh in Median Storage		0	0	_	0	-	
Grade, %	, π - -	0	0	<u>-</u>	0	_	
Peak Hour Factor	93	93	93	93	93	93	
Heavy Vehicles, %	0	0	1	0	0	0	
Mvmt Flow	115	339	378	68	122	139	
IVIVIIIL FIOW	115	339	310	00	122	139	
Major/Minor I	Major1	l N	Major2	I	Minor2		
Conflicting Flow All	446	0	-	0	981	412	
Stage 1	-	-	-	-	412	-	
Stage 2	-	-	-	-	569	-	
Critical Hdwy	4.1	-	-	-	5.1	4.5	
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	1125	-	-	-	398	783	
Stage 1	-	-	-	-	673	-	
Stage 2	-	-	-	-	570	-	
Platoon blocked, %		-	-	_			
Mov Cap-1 Maneuver	1125	_	_	_	348	783	
Mov Cap-2 Maneuver	-	_	_	_	348	-	
Stage 1	_	_	_	_	588	_	
Stage 2	_	_	_	_	570	_	
Olage 2					310		
Approach	EB		WB		SB		
HCM Control Delay, s	2.2		0		15.4		
HCM LOS					С		
Minor Lane/Major Mvm	nt	EBL	EBT	WBT	WRR	SBLn1 S	S
	it.	1125	LUI	1101		0.10	اد
Capacity (veh/h)			-	-	-		1
HCM Control Doloy (a)		0.102	-	-		0.349	(
HCM Long LOS		8.6	0		-		
HCM Lane LOS HCM 95th %tile Q(veh)		Α	Α	-	-	С	
	\	0.3	_	_	_	1.5	

Intersection						
Int Delay, s/veh	0.2					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		4	1		¥	
Traffic Vol. veh/h	6	419	412	4	9	3
Future Vol, veh/h	6	419	412	4	9	3
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-		-	None
Storage Length	-	-	_	-	0	-
Veh in Median Storage	,# -	0	0	-	0	-
Grade, %	-	0	0	_	0	_
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	0	1	0	0	0
Mvmt Flow	6	441	434	4	9	3
NA=:==/NA:===	1-:1		4-:0		Air 0	
	Major1		Major2		Minor2	400
Conflicting Flow All	438	0	-	0	889	436
Stage 1	-	-	-	-	436	-
Stage 2	-	-	-	-	453	-
Critical Hdwy	4.1	-	-	-	5.1	4.5
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	1133	-	-	-	436	767
Stage 1	-	-	-	-	656	-
Stage 2	-	-	-	-	645	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1133	-	-	-	433	767
Mov Cap-2 Maneuver	-	-	-	-	433	-
Stage 1	-	-	-	-	651	-
Stage 2	-	-	-	-	645	-
Approach	EB		WB		SB	
HCM Control Delay, s	0.1		0		12.6	
HCM LOS	0.1		U		12.0 B	
TICIVI LOS					D	
Minor Lane/Major Mvm	t	EBL	EBT	WBT	WBR S	SBLn1
Capacity (veh/h)		1133	-	-	-	486
HCM Lane V/C Ratio		0.006	-	-	-	0.026
HCM Control Delay (s)		8.2	0	-	-	12.6
HCM Lane LOS		Α	Α	-	-	В
HCM 95th %tile Q(veh)		0	-	-	-	0.1