MEMORANDUM

To: Donavan Corum

Robert Mochi CBM Consulting

From: Michael J. Workosky, PTP, TOPS, TSOS

William L. Zeid, P.E. Wells + Associates, Inc.

Date: December 21, 2020

Re: 105/113 W. Main Street

Traffic Assessment; New Market, Maryland



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Introduction

This memorandum summarizes a traffic assessment for the 105/113 W. Main Street property. The site is located on the north side of Main Street, between the New Market elementary and middle school driveways in the Town of New Market, Maryland as shown on Figure 1.

The site is currently occupied by the following uses:

- One Single Family Home
- 3,712 SF Arts and Crafts business
- 7,520 SF Tractor Supply and Repair business
- Eight Mobile Homes

The site is proposed to be redeveloped with the following uses and removal of all existing uses:

- 27 residential townhouses
- 3,270 S.F. Retail Use
- 4,105 S.F. Restaurant Use (Without Drive Through)
- 1,540 S.F. Small Office Use

Access to the redeveloped site would be consolidated to a single driveway located between the existing site driveways that would be removed. For purposes of this assessment, a buildout year of 2023 was selected. The proposed site plan is shown on Figure 2.

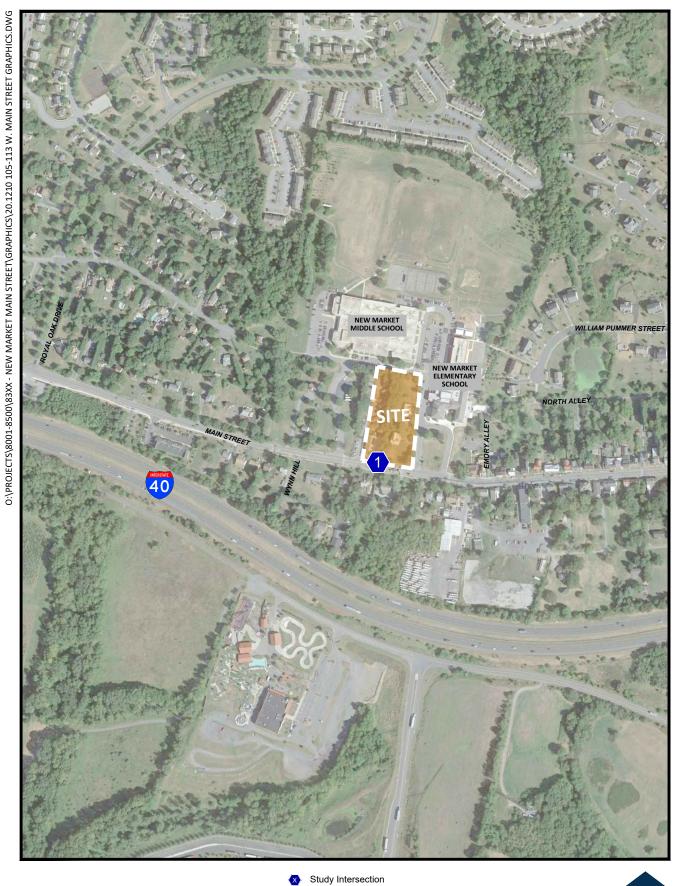


Figure 1
Site Location

NORTH

105/113 W. Main Street
Town of New Market, Maryland

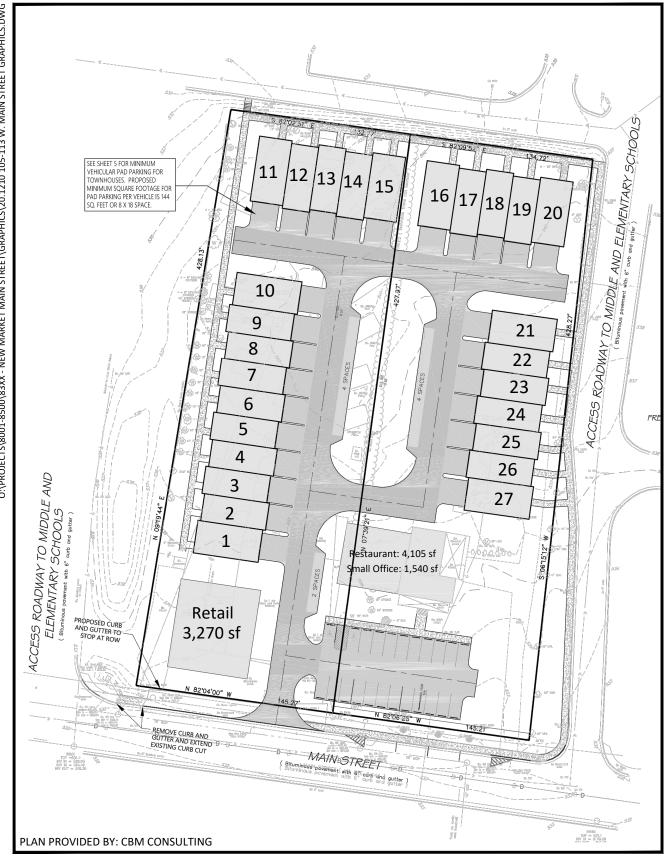


Figure 2 Site Plan

NORTH 105/113 W. Main Street Town of New Market, Maryland

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The purpose of this assessment is to review the proposed access scheme, estimate the number of new peak hour vehicle trips expected to be generated by the site, and evaluate the site driveway under future traffic conditions with the proposed redevelopment.

Roadway Network and Site Access

The proposed development is located along Main Street in the Town of New Market. Main Street is a two-lane local street with a posted speed limit of 30 miles per hour. The west Middle School driveway (located west of the subject property) operates under stop sign control and a pedestrian crosswalk is provided on Main Street on the east side of the intersection connecting to a paved trail located on the south side of Main Street. The center driveway (located east of the subject property) that serves both the elementary and middle schools operates under stop control and serves as part of the drop-off/pick-up loop for elementary school students.

Two (2) existing driveways currently exist on Main Street that serve the uses occupying the subject property. These access points will be eliminated with the redevelopment of the site and consolidated to a single driveway located approximately 175 feet east of the west Middle School driveway. In addition, the site frontage will be upgraded to include a sidewalk and four (4) curb parking spaces.

The driveway serving the site would provide access to a dedicated parking area for the commercial uses, curb parking spaces, and a loop that will serve the townhouses. No vehicular connections to the elementary or middle school driveways are proposed. Single lanes for inbound and outbound traffic will be provided.

School Operations

Since traffic counts and observations could not be conducted under existing conditions, information was provided by Frederick County Public Schools (FCPS) regarding operations at each school. The following summarizes the school operations:

Elementary School:

- Drop-off occurs from 8:30 to 9:00 AM and pick-up occurs from 3:00 to 3:45 PM.
- Mode split: 69 percent bus, 12 percent drop-off, 19 percent walk.
- Elementary school buses and vehicles enter the drop-off/pick-up loop east of the site and exit via the East School Driveway on the east side of the subject property.
- Crossing Guards are not currently utilized at the Elementary School Crosswalk.

Middle School:

• Drop-off occurs from 7:30 to 8:00 AM and pick-up occurs from 2:45 to 3:15 PM.



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- Mode split: 68 percent bus, 12 percent drop-off, 20 percent walk.
- Buses and vehicles serving the Middle School enter using the east driveway and exit via the West School Driveway.
- Crossing Guards are not currently utilized at the Middle School Crosswalk.

A total of 19 buses are provided for each school. Based on information provided by FCPS, congestion occurs at the west Middle School driveway for traffic exiting the Middle School. In addition, the traffic data indicates that the schools generate traffic during the PM commuter peak hour generally consistent with the afternoon school pick-up period, likely resulting from after school activities.

Site Trip Generation

The number of AM and PM peak hour vehicle trips expected to be generated by the site for both approved and proposed conditions were calculated based on the standard rates and equations published in the Institute of Transportation Engineers' (ITE) *Trip Generation, 10th Edition.* The results are summarized on Table 1 and indicate that the approved uses on site could generate up to approximately 32 AM peak hour trips and 40 PM peak hour trips as a combination of inbound and outbound vehicles based on the most recent use categories. These potential site trips for existing approved uses are shown on Figure 3 at the existing site driveways. Further, the proposed redevelopment is expected to generate 62 AM peak hour trips (30 in and 32 out) and 108 PM peak hour trips (59 in and 49 out) subsequent to full buildout and occupancy. This represents an overall potential net change of 30 additional trips during the AM peak hour and 68 additional trips during the PM peak hour as a result of the redevelopment.

Table 1: Trip Generation Summary

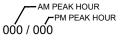
			Ħ	AN	1 Peak	Hour	PΝ	/I Peak	Hour
Land Use	LUC	Amount	Unit	In	Out	Total	In	Out	Total
Existing/Approved Uses									
Single Family Home	210 ⁽²⁾	1	DU	0	1	1	1	0	1
Arts and Crafts Store	879	3712	SF	9	9	18	11	13	24
Tractor Supply Store	810	7,520	SF	7	3	10	5	6	11
Mobile Homes	240	<u>8</u>	DU	1	2	<u>3</u>	<u>2</u>	2	4
Subtotal				17	15	32	19	21	40
Proposed Uses									
Small Office Building	712	1,540	SF	2	1	3	1	3	4
Restaurant	932	4,105	SF	23	18	41	25	16	41
Retail ⁽⁴⁾	820	3,270	SF	2	2	4	21	23	44
Townhomes	220	<u>27</u>	DU	3	<u>11</u>	<u>14</u>	<u>12</u>	7	<u>19</u>
Subtotal				30	32	62	59	49	108
Net Difference - Approved vs	Proposed			13	17	30	40	28	68

Note:

- 1. Trip generation based on ITE Trip Generation Manual 10th Edition
- 2. Given the small size of units, the rates for all peak periods were used.
- 3. No AM data published, therefore, the ratio of PM:AM peak hour trips for Auto Parts Sales and Service (LUC 943) was used to estimate AM peak hour using the PM peak hour estimate.
- 4. Given the small size of the retail use in comparison to the average size for LUC 820, the AM rate was used.



Figure 3
Existing Lane Use, 2020 Existing Volumes, Proposed Lane Use, Background Growth 2020-2023, Site Trip Assignments, Total Future Volumes





105/113 W. Main Street Town of New Market, Maryland

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Future Conditions Traffic Assessment

An assessment of future traffic conditions was prepared based on existing traffic volumes (prepandemic), growth expected along Main Street, and the site generated trips. Future traffic forecasts were prepared for the site driveway and capacity analyses were prepared for the site buildout. Supporting information is contained in the Appendix and a summary of lane use and volumes for existing and future conditions are provided on Figure 3.

The results and conclusions of the analysis are summarized below:

 The results of the future capacity analyses at the site driveway indicate that all of the turning movements would operate at acceptable levels of service during both the AM and PM peak hours (see Table 2). The critical southbound approach would operate at LOS "C" during each period studied with minimal queuing. This indicates that the site development would have only a minor impact to the roadway network.

Table 2: Capacity & Queue Analyses Summary

				2023 Tota	al Fu	ture Build (Conditio	ns
				HCM Delay	An	alyses ⁽¹⁾		Queue vses ⁽¹⁾
Intersection	Traffic Control	Future Lane Group/Approach	P	AM eak Hour	P	PM eak Hour	AM Peak	PM Peak
			SOT	Delay (veh/s)	SOT	Delay (veh/s)	95th Qu	%-ile eue
1. Main Street / Future Site Driveway	Unsignalized	EB Left-Through Lane	Α	0.4	Α	1.1	<1 veh	<1 veh
		WB Through-Right Lane	Α	0.0	Α	0.0	0 veh	0 veh
		SB Left-Right Lane	С	16.1	С	20.0	<1 veh	<1 veh
		Overall	В	0.8	Α	1.4		

Notes: 1. 2000 HCM capacity analysis based on Highway Capacity Manual methodology, using Synchro 10.

- 2. The AM commuter peak hour generally coincides with the AM peak hour of the Middle School. During this period, the commercial uses on the site generate fewer trips that will reduce potential conflicts with school buses and student drop-off trips that exit via the west Middle School driveway. The site would generate minimal trips during the early afternoon school peaks.
- 3. Consolidating the existing driveways to a single entrance should provide an improvement over current conditions by reducing turning movement conflicts along Main Street as well as providing additional separation between the west Middle School driveway and the site entrance that would allow for improved sight distance.

Questions regarding this document should be directed to Wells + Associates.

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1: Royal Oak Drive/Main Street Trip Distribution					
Traffic Component		Southbound Royal Oak Drive	Westbound Main Street	Northbound Post Office	Eastbound Main Street
		Right Through Left	Right Through Left	Right Through Left	Right Through Left
Site Developments					
Site 1: Small Office	Inbound Outbound		50%		50%
Site 2: Retail	Inbound Outbound		50%		50%
Site 3: Residential	Inbound Outbound		50%		50%

1: Royal Oak Drive/Main Street																
AM Peak Hour																
					So	uthbou	nd	W	estboun/	d	No	orthboun	d	E	astbound	d
Traffic Component						al Oak D			1ain Stree			ost Offic			ain Stree	
					Right 7	Through	Left	Right	Through	Left	Right 1	Through	Left	Right	Through	Left
2007 Traffic Data		AM			48	6	116	30	133	12	10	1	9	11	466	3
		PM			35	0	57	97	428	18	18	2	15	10	310	67
October 2019 Traffic Data		AM			56	1	115	28	162	6	6	0	3	9	477	13
		PM			30	Ū	58	78	462	16	15	3	16	19	238	69
- ·					_	_	_				_			_		
Growth		AM PM			8 -5	- 5	-1 1	- 2 -19	29 34	-6 -2	-4 -3	-1 1	-6 1	- 2 9	11 -72	10
		1 141			-3	U	1	-13	34	-2	-3	-	1	3	-/2	2
East-West Through Movement Growth		AM							1.7%						0.2%	
Compounded annually		PM							0.6%							
2020 Estimated Traffic Volume		AM			56	1	115	28	165	6	6	0	3	9	478	13
		PM			30	0	58	78	465	16	15	3	16	19	238	69
2023 Buildout Year with Traffic Growth		AM							174						481	
	2,023	PM							474						238	
Background Future		AM			8	(5)	(1)	(2)	29	(6)	(4)	(1)	(6)	(2)	11	10
		PM			(5)	-	1	(19)	34	(2)	(3)	1	1	9	(72)	2
					I											
Proposed Site Development			IN	OUT												
Site 1: Small Office		AM	2	1	-	-	-	-	1	-	-	-	-	-	1	-
Site 2: Retail		PM	25	20	-	-	-	-	2 10	-	-	-	-	-	13	-
Site 2: Retail		AM PM	46	39	-	-	-	-	20	-	-	-	-	-	23	-
Site 3: Residential		AM	3	11	-	-	-	-	6	-	-	-	-	-	2	-
Cultural Days and Cita Dayslawaya		PM	12	7	-	-	-	-	4	-	-	-	-	-	6	-
Subtotal Proposed Site Development		AM PM	30 59	32 49	-	-	-	-	17 26	-	-	-	-	-	16 30	-
			- 33			_			20						30	
Proposed Total Future Build Scenario		AM			8	(5)	(1)	(2)	46	(6)	(4)	(1)	(6)	(2)	27	10
		PM			(5)	-	1	(19)	60	(2)	(3)	1	1	9	(42)	2
														-		

2: Middle School West/Main Street Trip Distribution					
Traffic Component		Southbound Middle School West	Westbound Main Street	Northbound No Road	Eastbound Main Street
		Right Through Left	Right Through Left	Right Through Left	Right Through Left
Site Developments					
Site 1: Small Office	Inbound Outbound		50%		50%
Site 2: Retail	Inbound Outbound		50%		50%
Site 3: Residential	Inbound Outbound		50%		50%

2: Middle School West/Main Street																
AM Peak Hour																
					So	uthbour	nd	V	Vestboun	d	N	orthbour	nd	E	astbound	ł
Traffic Component					Middle	e School	West	ľ	∕lain Stree	et		No Road		N	lain Stree	et
					Right 7	Through	Left	Right	Through	Left	Right	Through	Left	Right	Through	Left
2007 Traffic Data		AM			21	0	25	34	130	0	0	0	0	0	539	29
		PM			19	0	24	47	468	0	0	0	0	0	292	69
	_															
Growth rate from Main Street/Royal Oak Drive Data		AM							1.7%						0.2%	
		PM							0.6%							
2020 Estimated Traffic Volume		AM			21	0	25	34	161	0	0	0	0	0	553	29
	1	PM			19	0	24	47	509	0	0	0	0	0	292	69
2023 Buildout Year with Traffic Growth		AM							170						557	
	2,023	PM							519						292	
Background Future		AM				_	_	_	0		_	_		_	0	
Background Future		PM			-	-	-	_	0	-	-	-	-	_	-	-
					=' 											
Proposed Site Development			IN	OUT												
Site 1: Small Office		AM	2	1	_	_	_	_	1	_	_	_	_	_	1	_
		PM	1	3	-	-	-	-	2	-	-	-	-	-	1	-
Site 2: Retail		AM	25	20	-	-	-	-	10	-	-	-	-	-	13	-
Site 3: Residential		PM AM	46 3	39 11	-	-	-	-	20 6	-	-	-	-	-	23	-
Site 3. Nesidential		PM	12	7	-	-	-	-	4	-	-	-	-	-	6	-
Subtotal Proposed Site Development		AM	30	32	-	-	-	-	17	-	-	-	-	-	16	-
		PM	59	49	-	-	-	-	26	-	-	-	-	-	30	-
Proposed Total Future Build Scenario		AM			_			-	17		-	_		_	16	
		PM			-	-	-	-	26	-	-	-	-	-	30	-
		_										•			•	

3: Middle School East/Main Street Trip Distribution					
Traffic Component		Southbound Middle School East	Westbound Main Street	Northbound No Road	Eastbound Main Street
		Right Through Left	Right Through Left	Right Through Left	Right Through Left
Site Developments					
Site 1: Small Office	Inbound Outbound		50%		50%
Site 2: Retail	Inbound Outbound		50%		50%
Site 3: Residential	Inbound Outbound		50%		50%

3: Middle School East/Main Street																
AM Peak Hour																
					So	uthbour	nd	W	estboun/	d	N	Iorthboun	d	E	astbound	i
Traffic Component						le Schoo			lain Stree			No Road			ain Stree	
					Right	Through	Left	Right	Through	Left	Right	Through	Left	Right	Through	Left
2007 Traffic Data		AM			16	0	45	100	217	0	0	0	0	0	568	61
		PM			8	0	19	53	537	0	0	0	0	0	327	29
	-															
Growth rate from Main Street/Royal Oak Drive Data		AM							1.7%						0.2%	
		PM							0.6%							
2020 Estimated Traffic Volume		AM			16	0	45	100	269	0	0	0	0	0	583	61
		PM			8	0	19	53	584	0	0	0	0	0	327	29
2023 Buildout Year with Traffic Growth		AM							283						587	
	2,023	PM							596						327	
Background Future		AM				_		_	0					_	0	
background ruture		PM			-	-	-	-	0	-	-	-	-	-	-	-
					=' 											
Proposed Site Development			IN	OUT												
Site 1: Small Office		AM	2	1	_	_	_	_	1	_	_	_	_	_	1	_
		PM	1	3	-	-	-	-	1	-	-	-	-	-	2	-
Site 2: Retail		AM	25	20	-	-	-	-	13	-	-		-	-	10	-
Site 3: Residential		PM AM	46 3	39 11	-	-	-	-	23 2	-	-		-	-	20 6	-
Site 3. Residential		PM	12	7	-	-	-	-	6	-	-		-	-	4	-
Subtotal Proposed Site Development		AM	30	32	-	-	-	-	16	-	-		-	-	17	-
		PM	59	49	-	-	-	-	30	-	-	-	-	-	26	-
Proposed Total Future Build Scenario		AM			_	_		_	16	_	_		_	-	17	_
		PM			-	-	-	-	30	-	-		-	-	26	-

4: Elementary School East/Main Street Trip Distribution					
Traffic Component		Southbound Elementary School East	Westbound Main Street	Northbound No Road	Eastbound Main Street
		Right Through Left	Right Through Left	Right Through Left	Right Through Left
Site Developments					
Site 1: Small Office	Inbound Outbound		50%		50%
Site 2: Retail	Inbound Outbound		50%		50%
Site 3: Residential	Inbound Outbound		50%		50%

4: Elementary School East/Main Street																
AM Peak Hour																
					So	uthbour	nd	v	/estboun	d	N	Iorthboun	d	Е	astbound	ł
Traffic Component					Elemen	tary Sch	ool East	N	1ain Stree	et		No Road		N	lain Stree	et
					Right	Through	Left	Right	Through	Left	Right	Through	Left	Right	Through	Left
2007 Traffic Data		AM			0	0	0	2	267	0	0	0	0	0	642	3
		PM			0	ō	0	30	556	ŏ	0	0	0	Ö	378	1
	-															
Growth rate from Main Street/Royal Oak Drive Data		AM							1.7%						0.2%	
Growth rate from Main Street/Royal Oak Drive Data		PM							0.6%						0.2%	
									0.070							
2020 Estimated Traffic Volume		AM PM			0	0 0	0	2 30	331 605	0 0	0	0	0 0	0	659 378	3
		PIVI			U	U	U	30	605	U	U	U	U	U	3/8	1
2023 Buildout Year with Traffic Growth		AM							348						663	
	2,023	PM							617						378	
Background Future		AM			_	_	_	_	0	_	_	_	_	_	0	_
		PM			-	-	-	-	0	-	-	-	-	-	-	-
Proposed Site Development			IN	OUT												
Site 1: Small Office	_	AM	2	1	_	_	_	_	1	_	_	_	_	_	1	_
		PM	1	3	-	-	-	-	1	-	-	-	-	-	2	-
Site 2: Retail		AM	25	20	-	-	-	-	13	-	-	-	-	-	10	-
Site 3: Residential		PM AM	46 3	39 11	-	-	-	-	23	-	-		-	-	20 6	-
Site S. nesidefitidi		PM	12	7	-	-	-	-	6	-	-		-	-	4	-
Subtotal Proposed Site Development		AM	30	32	-	-	-	-	16	-	-		-	-	17	-
		PM	59	49	-	-	-	-	30	-	-	-	-	-	26	-
Proposed Total Future Build Scenario		AM							16						17	
Proposeu Total Future Bullo Scenario		PM			-	-	-	-	30	-	-		-	-	26	-
							_		- 30						20	
	_															

5: Future Site Driveway/Main Street Trip Distribution														
					Sout	hbound		We	estbound	No	rthbound		astbound	ı
Traffic Component					Future Si	te Drive	way		ain Street	1	lo Road		∕lain Stree	
					Right Th	ough I	Left	Right T	hrough Left	Right T	hrough Left	Right	Through	Left
Site Developments														
Site 1: Small Office			Inboun					50%						50%
Site 2: Retail	-		utbour Inboun		50%		50%	50%						50%
	=	O	utbour	nd	50%		50%							
Site 3: Residential	=		Inboun Outbour		50%		50%	50%						50%
5: Future Site Driveway/Main Street														
atane and a memay, main attect					1					1		1		
					Sout	hbound		We	estbound	No	rthbound	E	Eastbound	I
Traffic Component					Future Si				ain Street	_	lo Road		Лаin Stree	
					Right Th	ough I	Left	Right T	hrough Left	Right T	hrough Left	Right	Through	Left
2020 Estimated East-West Through Traffic from East		AM PM							285				644	
	,	- IVI							592				356	
2020 Estimated East-West Through Traffic from West		AM							195				578	
	P	M							556				316	
Max Combination of the East or West Feeds	A	AM							285				644	
		PM							592				356	
Growth rate from Main Street/Royal Oak Drive Data		AM							1.7%				0.2%	
Growth rate from Main Street, Royal Oak Drive Data		PM							0.6%				0.276	
2023 Buildout Year with Traffic Growth	Д	AM							300				648	
	2,023 P								604				356	
Background Future	A	AM			-	_	_	-	300 -			_	648	_
	P	PM			-	-	-	-	604 -	-		-	356	-
					_									
Proposed Site Development			IN	OUT										
Site 1: Small Office		AM PM	2	1 3	1 2	-	1 2	1 1		-		-	-	1 1
Site 2: Retail	Δ	AM	25	20	10	-	10	13		-			-	13
Site 3: Residential	Δ.	AM	46 3	39 11	20 6	-	20 6	23		-		-	-	23
Subtotal Proposed Site Development	Α	PM AM	12 30	7 32	<u>4</u> 17	-	4 17	6 16		-		-	-	16
	P	PM	59	49	26	-	26	30		-		-	-	30
Proposed Total Future Build Scenario		AM			17	-	17	16	300 -	-		-	648	16
	P	PM			26	-	26	30	604 -	-		-	356	30
												1		
												1		

	٠	→	+	4	/	4
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		ર્ન	1>		W	
Traffic Volume (veh/h)	16	648	300	16	17	17
Future Volume (Veh/h)	16	648	300	16	17	17
Sign Control		Free	Free		Stop	
Grade		0%	0%		0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	17	704	326	17	18	18
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type		None	None			
Median storage veh)						
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	343				1072	334
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	343				1072	334
tC, single (s)	4.1				6.4	6.2
tC, 2 stage (s)						
tF (s)	2.2				3.5	3.3
p0 queue free %	99				93	97
cM capacity (veh/h)	1216				241	707
Direction, Lane #	EB 1	WB 1	SB 1			
Volume Total	721	343	36			
Volume Left	17	0	18			
Volume Right	0	17	18			
cSH	1216	1700	359			
Volume to Capacity	0.01	0.20	0.10			
Queue Length 95th (ft)	1	0	8			
Control Delay (s)	0.4	0.0	16.1			
Lane LOS	Α		С			
Approach Delay (s)	0.4	0.0	16.1			
Approach LOS			С			
Intersection Summary						
Average Delay			0.8			
Intersection Capacity Utiliz	zation		57.0%	IC	U Level o	of Service
Analysis Period (min)			15			
J = = = = (·····)						

	•	_ -	—	•	\	4
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		4	1	,,,	W	OBIT
Traffic Volume (veh/h)	30	356	604	30	26	26
Future Volume (Veh/h)	30	356	604	30	26	26
Sign Control		Free	Free		Stop	
Grade		0%	0%		0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	33	387	657	33	28	28
Pedestrians	- 00	001	001			
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type		None	None			
Median storage veh)		TAOHC	TVOITE			
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	690				1126	674
vC1, stage 1 conf vol	030				1120	014
vC2, stage 2 conf vol						
vCu, unblocked vol	690				1126	674
tC, single (s)	4.1				6.4	6.2
tC, 2 stage (s)	7.1				0.4	0.2
tF (s)	2.2				3.5	3.3
p0 queue free %	96				87	94
cM capacity (veh/h)	905				218	455
		M/D 4	OD 4		210	400
Direction, Lane #	EB 1	WB 1	SB 1			
Volume Total	420	690	56			
Volume Left	33	0	28			
Volume Right	0	33	28			
cSH	905	1700	295			
Volume to Capacity	0.04	0.41	0.19			
Queue Length 95th (ft)	3	0	17			
Control Delay (s)	1.1	0.0	20.0			
Lane LOS	Α		С			
Approach Delay (s)	1.1	0.0	20.0			
Approach LOS			С			
Intersection Summary						
Average Delay			1.4			
Intersection Capacity Utiliz	zation		53.5%	IC	U Level o	of Service
Analysis Period (min)			15			
			.0			