

To: Mr. William Scanlan Town Planner Town of Dudley 71 West Main Street Dudley MA, 01571 Date: February 21, 2022

Memorandum

Project #: 15303.00

From: Vinod K. Kalikiri, PE, PTOE Re: Response to 10

Re: Response to 10/20/21 Traffic Comments Stevens Mill Redevelopment – 8 Mill Street

Dudley, Massachusetts

VHB prepared the August 24, 2021 Traffic Impact Assessment (August 2021 TIA) to summarize the anticipated transportation impacts associated with the Stevens Mill Redevelopment project at 8 Mill Street in Dudley, Massachusetts. The Town of Dudley's traffic peer review consultant, Vanasse & Associates, Inc. (VAI), reviewed the traffic documentation and summarized their comments in an October 20, 2021 comment letter. VHB has reviewed the comments and suggestions from VAI, consulted with them on an approach to addressing some of the comments, and prepared this memorandum to respond to the review comments.

August 2021 TIA Comments and Responses

Comment T1

There are inconsistencies with the description of pedestrian facilities within the study area that should be corrected. Sidewalks are provided along the east side of Village Street and along the east side of Mill Street north of Village Street. In addition, pedestrian accommodations are provided at the Mill Street/Village Street (along both Village Street and Mill Street north of the intersection), West Main Street/Mill Street (along West Main Street) and West Main Street/Ardlock Place (along West Main Street) intersections. It is suggested that a graphic be prepared that shows the location of existing and proposed pedestrian facilities and trails be prepared.

Response: While sidewalks exist along the east side of Village Street and at the intersection of Village Street/Mill Street, they are in poor condition, and in several instances, as narrow as 1.5 to 2.5 feet wide, which does not meet ADA requirements for pedestrian travel. In response to the comment, a graphical exhibit is included in the attachments to this memorandum that depicts the current locations or sidewalks, their approximate paved widths, and a qualitative notation indicating their condition (classified as good, fair and poor). Also indicated on the exhibit are location and condition of pedestrian ramps, and locations of missing crosswalks. Some of these deficiencies have also been identified in the town's Complete Streets prioritization plan as outlined in response to comment T2.

Comment T2 A description of existing and proposed bicycle facilities/accommodations should be provided.

Response: There are currently no marked on-street bicycle accommodations within the study area. An off-road trail and bike-path system, which includes the Quinebaug River Bikeway (Rail Trail) and the French River Greenway, traverse portions of the towns of Dudley and Webster. The eastern section of the Quinebaug River Bikeway (Dudley-Chaseville section) has potential to connect to the French River Greenway in Webster. These in turn would become part of the Midstate Trail plan which will connect to a larger network that covers three states.

As discussed in the August 2021 TIA, CMRPC has conducted a corridor wide planning study in 2020 for the Main Street/West Main Street corridor between Dudley and Webster. The CMRPC study found that increased pedestrian, bicycle, and public transit facilities would benefit the communities. Specifically, the study contemplates the potential for bike lanes on West Main Street through the study area, among other multimodal enhancements.

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Supporting the goals of the corridor study, the Town of Dudley also completed its Complete Street Prioritization Plan in June 2021. The prioritization plan identifies, among other items, the following projects:

- Feasibility study for a multi-use path along the French River beginning on West Main Street to the right of the Dunkin Donuts and extending behind the mill property and connecting to the mill parking lot, with the continuation of the path or a sidewalk to the existing sidewalk at the Mill Street and Flaxfield Road intersection
- Construction of new sidewalks on Village Street from West Main Street to Ardlock Place and on Mill Street from West Main Street to the entrance of Tri-Valley Elder Services and removal of walking hazards that block pedestrian mobility, and to make the facilities ADA compliant for wheelchair accessibility.
- Potential safety improvements to the intersection of West Main Street/Schofield Avenue/ Village Street
- Dudley's ADA Self-Evaluation and Transition Plan found numerous instances of noncompliance along the entire stretch of West Main Street including insufficient widths, lack of crosswalks and ADA compliant curb ramps, deteriorating sidewalks, which require a comprehensive solution to address the deficiencies.

As part of the planned development, the Proponent proposes to perform site/utility work and landscaping enhancements to reconnect the community to the French River via a new recreational path. Additionally, current site plans depict a potential solution to addressing the pinch point in the sidewalk width on Mill Street that is caused by a building encroachment. The Proponent also plans to implement sidewalk improvements on Ardlock Place as part of the Project.

Comment T3

A review of public transportation services that will be accessible to residents of the Project should be undertaken. We note that the Worcester Regional Transit Authority (WRTA) provides fixed-route bus service to the Town of Dudley by way of the Webster-Dudley-Southbridge Shuttle, which includes service along West Main Street and will be accessible to residents of the Project.

Response: As noted in the TIA, and in comment T3, a new shuttle bus service has been implemented by WRTA that includes stops in Dudley, Webster and Southbridge. The stop closest to the site is located at the intersection of Main Street at Davis St in Webster, approximately 1,000 feet to the east of Ardlock Place. The shuttle in turn connects to WRTA routes 29 and 42 which provides Dudley residents access to job and educational opportunities and various amenities in Worcester and surrounding communities.

Comment T4

U.S. Census Journey-to-Work data should be reviewed to validate the trip distribution pattern that was used for the Project.

Response: Peak hour analysis included in the TIA was based on the traffic patterns observed in the existing conditions traffic volumes and generally confirmed with county level "place of work" population percentages that were available in the U.S. Census journey to work data. In response to Comments T4 and T5, a sensitivity analysis was performed to account for alternate route choices that may be made by the residents of the proposed development in response to the congestion on West Main Street during peak commute hours. Specifically, the use of Mill Street by the residents of the proposed development destined to the regional highway system was analyzed as part of the sensitivity analysis. The revised trip distribution analysis, along with certain changes to site access, as further discussed in response to Comment T5, were used to update the capacity analysis presented in the TIA.

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Comment T5 The trip distribution pattern for the Project should be reviewed given the constrained operating conditions and extended delay that are predicted along Ardlock Place, and the traffic operations analysis for the Build condition should be revised accordingly.

Response: Since the preparation of the original traffic evaluation and following feedback and discussions with the Town regarding improved site access, the Applicant has negotiated a shared access easement through the abutting Tri-Valley Inc. property (Tri-Valley) at 10 Mill Street. The revised site plans currently under development depict the new shared access for the Site that is slightly offset from the existing driveway for Tri-Valley. It is our understanding that a few different variations were considered by the Applicant for the location of the shared access driveway to address Tri-Valley's requirements. In addition to Tri-Valley's input, the location depicted on the site plans has been developed in consultation with the Town staff and VAI.

The availability of the shared access directly to Mill Street will help reduce the reliance on Ardlock Place and West Main Street by site traffic destined to/from regional highway system to the north. The new shared access, coupled with the peer review comment regarding constrained traffic operations along West Main Street, were used to develop an alternative trip distribution pattern that favors the use of Mill Street by a higher proportion of site traffic for travel to/from the north.

The revised trip distribution network, traffic volume network diagrams, and associated capacity analysis results are included in the attachment to this response memorandum. The revised analysis summary tables are included below. The revised analyses indicate that the use of the Mill Street shared driveway will reduce impacts on Ardlock Place and its intersections with West Main Street and Mill Street, without causing undue additional traffic impact to the traffic flow on Mill Street at the new driveway intersection. A review of the estimated revised traffic volume on Mill Street also indicates that the nominal increases in roadway traffic volume associated with the use of the new driveway would not result in negative impacts at other intersections along Mill Street.

Table 1 Signalized Intersection Capacity Analysis Summary

				202	8 No-B	uild			2028 E	Build-R	evised	
Location	Period	Movement	v/c	Delay	LOS	50 th Q	95 th Q	v/c	Delay	LOS	50 th Q	95 th Q
Village Street at Schofield Avenue	AM	EB L	0.63	32.7	C	61	#137	0.64	33.6	C	62	#140
and West Main Street		EB T/R	0.66	15.6	В	194	311	0.67	15.7	В	195	311
		WB L	0.41	37.4	D	25	59	0.41	37.5	D	25	59
		WB T/R	0.68	21.1	С	166	274	0.69	21.4	С	169	279
		NB L/T/R	0.77	34.1	С	99	#203	0.77	34.3	С	99	#204
		SB L/T/R	0.62	27.5	С	64	132	0.66	29.0	С	68	139
		Overall	0.80	23.6	С	-	-	0.81	24.1	С	-	-
	DM	FD I	0.46	20.5	_	20	82	0.50	20.0	_	42	87
	PM	EB L	0.46	29.5	C	39		0.50	29.8	C	42	
		EB T/R	0.79	22.2	C	231	#413	0.79	22.2	C	233	#418
		WB L	0.62	37.3	D	38	#102	0.62	37.2	D	38	#102
		WB T/R	0.88	31.7	C	238	#430	0.88	31.9	C	239	#434
		NB L/T/R	0.87	46.4	D	103	#235	0.90	51.0	D	104	#238
		SB L/T/R	0.62	24.1	C	91	179	0.65	24.9	C	95	185
		Overall	0.98	29.7	С	-	-	0.99	30.5	С	-	-

a volume-to-capacity ratio

b delay, in seconds/vehicle

c level of service

d 50th percentile queue length, in feet

e 95th percentile queue length, in feet

EB, WB eastbound, westbound

NB, SB northbound, southbound

L, T, R left turn, through-right turn

95th percentile volume exceeds capacity; queue may be longer

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Table 2 Unsignalized Intersection Capacity Analysis Summary

				2028 N	lo-Build			2028 Bui	ild-Revised	t
Location	Period	Movement	Dem	v/c	Delay	LOS	Dem	v/c	Delay	LOS
Mill Street at Village Street	Weekday Morning	EB-LTR	15	0.04	15.1	С	15	0.04	15.1	C
		WB-LTR	85	0.13	11.0	В	95	0.17	12.0	В
		NB-LTR	285	0.00	0.2	Α	288	0.00	0.2	Α
		SB-LTR	280	0.07	2.8	Α	280	0.07	2.8	Α
	Weekday Evening	EB-LTR	25	0.06	13.6	В	25	0.06	13.6	В
	, J	WB-LTR	90	0.12	10.2	В	97	0.15	11.0	В
		NB-LTR	190	0.00	0.2	Α	198	0.00	0.2	Α
		SB-LTR	390	0.04	1.5	Α	390	0.04	1.5	Α
Mill Street at West Main Street	Weekday Morning	EB-LTR	685	0.00	0.1	Α	690	0.00	0.1	Α
and Dollar General	, ,	WB-LTR	510	0.00	0.0	-	514	0.00	0.0	-
		NB-LTR	0	0.00	0.0	Α	0	0.00	0.0	Α
		SB-LTR	10	0.05	24.1	С	12	0.06	21.7	С
	Weekday Evening	EB-LTR	670	0.01	0.1	Α	667	0.01	0.1	Α
	rreenady Erennig	WB-LTR	665	0.01	0.2	A	667	0.01	0.2	Α
		NB-LTR	15	0.12	36.6	E	15	0.12	37.4	E
		SB-LTR	0	0.00	0.0	A	1	0.00	12.9	В
Ardlock Place at West Main	Weekday Morning	EB-LTR	680	0.00	0.0	_	681	0.00	0.0	Α
Street and Driveway		WB-LTR	590	0.00	0.0	_	593	0.00	0.0	_
		NB-LTR	0	0.00	0.0	Α	0	0.00	0.0	Α
		SB-LTR	100	0.96	147.1	F	108	1.03	164.0	F
	Weekday Evening	EB-LTR	660	0.00	0.0	_	664	0.00	0.1	Α
	Weekday Evening	WB-LTR	750	0.00	0.0	_	758	0.00	0.0	-
		NB-LTR	0	0.00	0.0	Α	0	0.00	0.0	Α
		SB-LTR	65	0.91	170.8	F	70	0.99	194.0	F
Ardlock Place at Site Drive 1	Weekday Morning	WB-LR					8	0.01	9.3	Α
Andrew Flace at Site Dilve 1	cckddy Morning	NB-TR					94	0.06	0.0	-
		SB-LT					103	0.00	0.0	Α
	Weekday Evening	WB-LR					6	0.01	9.2	Α
	vveekuay Everiing	NB-TR					99	0.01	0.0	A
		SB-LT					73	0.00	0.0	A
		3D-FI					13	0.00	0.2	Α

a demand in vehicles per hour for unsignalized intersections

EB, WB eastbound, westbound
NB, SB northbound, southbound
LTR left turn, through-right turn

b volume-to-capacity ratio for the critical movement

c delay of critical approach only

d level of service of the critical movement

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Table 2 **Unsignalized Intersection Capacity Analysis Summary (Continued)**

				2028 N	lo-Build			2028 Bui	ild-Revise	ł
Location	Period	Movement	Dem	v/c	Delay	LOS	Dem	v/c	Delay	LOS
Ardlock Place at Site Drive 2	Weekday Morning	WB-LR					12	0.01	9.1	Α
		NB-TR					89	0.06	0.0	-
		SB-LT					106	0.00	0.1	Α
	Weekday Evening	WB-LR					8	0.01	9.1	Α
	, ,	NB-TR					102	0.07	0.0	-
		SB-LT					74	0.00	0.7	Α
Flaxfield Road at Mill Street	Weekday Morning	EB-LTR	16	0.03	11.2	В	16	0.03	10.9	В
	, ,	WB-LTR*	2	0.00	12.9	В	-	-	-	-
		NB-LTR	350	0.01	0.3	Α	354	0.01	0.3	Α
		SB-LTR	273	0.00	0.1	Α	270	0.17	0.0	-
	Weekday Evening	EB-LTR	13	0.02	11.4	В	13	0.02	11.3	В
		WB-LTR*	16	0.04	14.8	В	-	-	-	-
		NB-LTR	270	0.01	0.3	Α	270	0.01	0.3	Α
		SB-LTR	378	0.00	0.0	Α	389	0.25	1.8	-
Shared Site Driveway at Mill	Weekday Morning	WB-LR					22	0.04	10.7	В
Street	, ,	NB-TR					349	0.22	0.0	-
		SB-LT					280	0.01	0.4	Α
	Weekday Evening	WB-LR					30	0.06	12.1	В
	, ,	NB-TR					266	0.17	0.0	-
		SB-LT					399	0.02	0.6	Α

demand in vehicles per hour for unsignalized intersections а

NB, SB northbound, southbound

Comment T6

An assessment of both stopping sight distance and intersection sight distance should be provided for the Project site driveway intersections with Ardlock Place performed in accordance with the standards of the American Association of State Highway and Transportation Officials (AASHTO) and using the posted (or statutory) speed limit or the measured 85th percentile vehicle travel speed along Ardlock Place at the Project site driveways, whichever is higher. In addition, the stopping sight distance evaluation should consider the grade of Ardlock Place when establishing the required minimum sight distance for safe operation.

Response: The total length of Ardlock Place, between Village Street and West Main Street, is approximately 525 feet. A chain-link fence currently blocks access to a point 14.5 feet from the edge of the travel way that marks the location of the driver's eye for sight distance measurement purposes. Nonetheless, field observations from the edge of the roadway indicates that visibility extends to either end of Ardlock Place. A review of the site plan indicates that a new sidewalk is proposed along the entire length of the property frontage. The plan indicates that the driver of a vehicle exiting the site driveway will be able to see both to the left and right on Ardlock Place to existing intersections that would carry turning vehicles towards the site driveway. During construction, location of signs, fences and landscaping will be adjusted to ensure that sight lines will not be obstructed.

b volume-to-capacity ratio for the critical movement

delay of critical approach only C

level of service of the critical movement

EB. WB eastbound, westbound

I TR left turn, through-right turn

Under the Build Condition, this movement is offset from the original geometry and becomes a new shared driveway intersection

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Comment T7

The Applicant should commit to implementing the improvements that are listed on the "Draft" exhibit titled "Planned and Proposed Traffic Improvements near the Stevens Mill Redevelopment Project" that were listed as "To be implemented by Stevens Mill Owners (before 2024)". That being said, these improvements are necessary to afford safe and efficient access to the Project and should be completed prior to the issuance of a Certificate of Occupancy for the Project.

Response: A copy of the September 24, 2021 draft exhibit that outlined potential improvements in the area for further consideration by the Town, is included in the attachment to this memorandum. Sidewalk improvements along Mill Street and Ardlock Place identified in the exhibit are conceptually depicted on the revised site plan for construction as part of the project. The advance feedback speed sign on Mill Street can also be implemented as part of the project. Widening of Ardlock Place will likely be a longer term improvement that could be considered as a separate project. In lieu of widening the roadway, and as discussed in response to Comment T5 and analyzed in response to comment T6, a shared access driveway is being planned on the adjacent Tri-Valley property, which will help reduce the amount of site traffic that will need to use Ardlock Place.

The timing of the remaining longer term improvements listed in the September 2021 draft exhibit, including those shown in blue color as "potential future projects," will be the subject of further discussion and deliberation by the Town, independent of the Stevens Mill reuse project. It is noted that implementation of traffic signal control at area intersections, including mastarm mounted overhead pedestrian crossing signals such as pedestrian hybrid beacons (PHBs), is beyond the scope of the Stevens Mill redevelopment project. Such enhancements will need to be considered as part of future improvements in the area by others.

Comment T8

The transportation improvement program for the Project should be expanded to include the following improvements:

Response: Response to each of the listed additional improvement items is indicated following the item.

- 1. "Intersection Ahead" warning signs (graphic symbol) should be installed on Mill Street in advance (north) of the Mill Street/Village Street intersection.
 - Response: The advance warning signs will be implemented as part of the project.
- 2. Install "Do Not Block" signs and accompanying pavement markings on West Main Street at Mill Street and at Ardlock Place.
 - **Response:** The suggested signs and pavement markings will be implemented as part of the project.
- 3. Design and implement an optimal traffic signal timing and phasing plan for the West Main Street/Village Street/Schofield Avenue intersection prior to achieving 50 percent occupancy of the Project so that the timing changes reflect the traffic patterns resulting from the Project.
 - **Response:** Peak hour intersection traffic volumes will be collected, and the data will be used to optimize the intersection signal timing after 50 percent occupancy of the residential units is achieved.
- **4.** Implement a Transportation Demand Management (TDM) program inclusive of the following elements:
 - A transportation coordinator should be assigned for the Project to coordinate the TDM program;
 - Information regarding public transportation services, maps, schedules and fare information should be posted in a central location and/or otherwise made available to residents;

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- A "welcome packet" should be provided to residents detailing available public transportation services, bicycle and walking alternatives, and commuting options;
- Pedestrian accommodations should be incorporated within the Project site and extend to the planned sidewalks on Mill Street and Ardlock Place;
- Secure bicycle parking should be provided consisting of both weather protected bicycle parking and exterior bicycle racks; and
- A central mail drop should be provided within the Project.

Response: The suggested TDM measures will be reviewed by the Applicant for implementation as part of the site operations and management.

Site Layout Plan

Comment S1

A vehicle turning analysis should be provided using the AutoTurn© software for a single-unit truck (SU-30 design vehicle) and the Dudley Fire Department design vehicle. The turning analysis should depict all maneuvers required to enter and exit the Project site, as well as those required to access the location for trash/recycling and service/loading, and should demonstrate that the subject vehicles can access the Project site and circulate in an unimpeded manner.

Response: Vehicle turning analyses will be prepared and included in the revised site plan submittal package.

Comment S2

A STOP-sign and marked STOP-line should be added to the Project site driveways.

Response: Stop sign and stop line locations will be depicted in the revised site plan submittal package.

Comment S3

Americans with Disabilities Act (ADA) compliant wheelchair ramps should be provided for crossing the Project site driveways and at pedestrian crossings within the Project site. As an alternative for crossing the Project site driveways, the proposed sidewalk can be designed so as to be flush across the driveways (i.e., pan-type driveway).

Response: Sidewalks, accessible ramps and driveway details will be included in the revised site plan submittal.

Comment S4

A note should be added stating: "All Signs and pavement markings to be installed within the Project site shall conform to the applicable specifications of the Manual on Uniform Traffic Control Devices (MUTCD)."

Response: The suggested note will be included in the revised site plan submittal.

Comment S5

Bicycle rack(s) should be provided at an appropriate location(s) within the Project site and weather protected bicycle parking should be provided within the building. The Zoning Bylaw requires that 0.05 bicycle parking spaces be provided for every vehicle parking space required under the Zoning Bylaw, with a minimum of one (1) and a maximum of 20.

Response: Bicycle parking locations will be depicted in the revised site plan submittal.

Comment S6

The sight triangle areas for the Project site driveway intersections should be shown along with a note to indicate: "Signs, landscaping and other features located within sight triangle areas shall be designed, installed and maintained so as not to exceed 2.5-feet in height. Snow accumulation (windrows) located

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within sight triangle areas that exceed 3.5-feet in height or that would otherwise inhibit sight lines shall be promptly removed."

Response: Sight lines and related notes about maintaining clear sight lines will be included in the revised site plan submittal.

Comment S7

Consideration should be given to installing electric vehicle (EV) charging stations for use by residents of the Project.

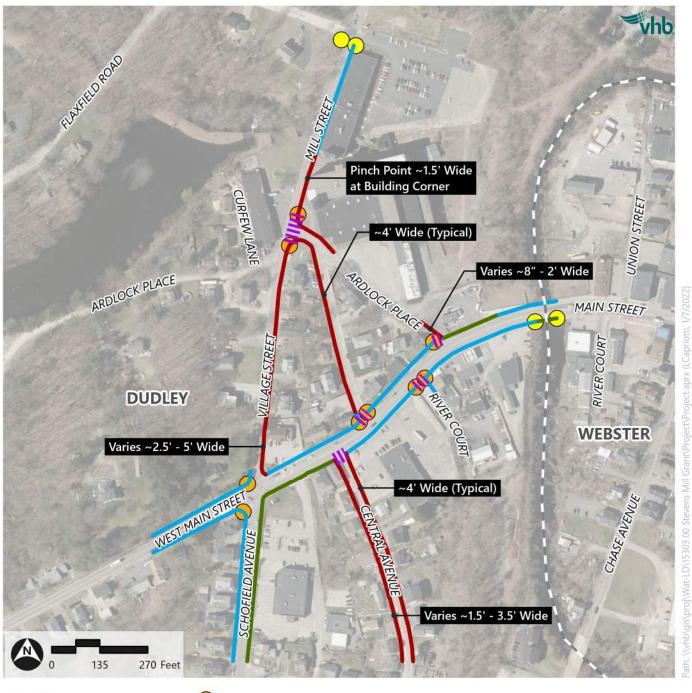
Response: EV charging station locations will be shown in the revised site plans.

Attachments

- > Existing sidewalk inventory
- > Turning movement counts for Mill Street/Flaxfield Road
- > Revised trip distribution and traffic volume diagrams
- > Revised capacity analysis worksheets
- > September 24, 2021 draft exhibit of potential improvements in the area

Figure 1: Existing Sidewalk Inventory

Mill Street | Dudley, Massachusetts



Sidewalk Inventory

Condition

Good
Fair
Poor

Missing Crosswalk Striping

Location: N: Mill Street S: Mill Street

Location: E: Tri Valley Driveway W: Flaxfield Road

City, State: **Dudley, MA**Client: **VHB/ V. Kalikiri**

Site Code: **15303.00**

Count Date: Wednesday, January 5, 2022

Start Time: 7:00 AM
End Time: 9:00 AM

Class:

PRECISION D A T A INDUSTRIES, LLC

157 Washington Street, Suite 2 Hudson, MA 01749 Office: 508-875-0100 Fax: 508-875-0118

Cars and Heavy Vehicles (Combined)

		М	ill Stre	et			Tri Va	lley Dri	veway				1ill Stre	et			Fla	kfield Ro	oad		
		fro	m Nor	th			fı	rom Eas	st			fr	om Sou	ıth			fr	om We	st		
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:00 AM	1	35	0	0	36	0	0	0	0	0	0	68	2	0	70	2	0	0	0	2	108
7:15 AM	0	33	0	0	33	0	0	0	0	0	0	59	1	0	60	4	0	1	0	5	98
7:30 AM	0	44	2	0	46	0	0	1	0	1	4	55	1	0	60	1	0	0	0	1	108
7:45 AM	1	59	2	0	62	1	0	0	0	1	4	46	0	0	50	1	0	3	0	4	117
Total	2	171	4	0	177	1	0	1	0	2	8	228	4	0	240	8	0	4	0	12	431
8:00 AM	1	29	2	0	32	0	0	0	0	0	2	51	0	0	53	1	0	0	0	1	86
8:15 AM	0	28	2	0	30	0	0	0	0	0	0	60	0	0	60	0	0	0	0	0	90
8:30 AM	0	57	2	0	59	0	0	1	0	1	2	50	1	0	53	2	0	3	0	5	118
8:45 AM	1	33	3	0	37	0	0	1	0	1	4	42	0	0	46	0	0	0	0	0	84
Total	2	147	9	0	158	0	0	2	0	2	8	203	1	0	212	3	0	3	0	6	378
Grand Total	4	318	13	0	335	1	0	3	0	4	16	431	5	0	452	11	0	7	0	18	809
Approach %	1.2	94.9	3.9	0.0		25.0	0.0	75.0	0.0		3.5	95.4	1.1	0.0		61.1	0.0	38.9	0.0		
Total %	0.5	39.3	1.6	0.0	41.4	0.1	0.0	0.4	0.0	0.5	2.0	53.3	0.6	0.0	55.9	1.4	0.0	0.9	0.0	2.2	
Exiting Leg Total					439					29					332					9	809
Cars	4	297	12	0	313	0	0	2	0	2	15	413	5	0	433	11	0	7	0	18	766
% Cars	100.0	93.4	92.3	0.0	93.4	0.0	0.0	66.7	0.0	50.0	93.8	95.8	100.0	0.0	95.8	100.0	0.0	100.0	0.0	100.0	94.7
Exiting Leg Total					420					27					310					9	766
Heavy Vehicles	0	21	1	0	22	1	0	1	0	2	1	18	0	0	19	0	0	0	0	0	43
% Heavy Vehicles	0.0	6.6	7.7	0.0	6.6	100.0	0.0	33.3	0.0	50.0	6.3	4.2	0.0	0.0	4.2	0.0	0.0	0.0	0.0	0.0	5.3
Exiting Leg Total					19					2					22					0	43

7:00 AM		N	III Stree	et			Tri Va	lley Driv	eway			N	ill Stre	et			Flax	dield Ro	oad		1
		fro	m Nor	th			fr	om Eas	t			fr	om Sou	th			fr	om We	st		
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:00 AM	1	35	0	0	36	0	0	0	0	0	0	68	2	0	70	2	0	0	0	2	108
7:15 AM	0	33	0	0	33	0	0	0	0	0	0	59	1	0	60	4	0	1	0	5	98
7:30 AM	0	44	2	0	46	0	0	1	0	1	4	55	1	0	60	1	0	0	0	1	108
7:45 AM	1	59	2	0	62	1	0	0	0	1	4	46	0	0	50	1	0	3	0	4	117
Total Volume	2	171	4	0	177	1	0	1	0	2	8	228	4	0	240	8	0	4	0	12	431
% Approach Total	1.1	96.6	2.3	0.0		50.0	0.0	50.0	0.0		3.3	95.0	1.7	0.0		66.7	0.0	33.3	0.0		
PHF	0.500	0.725	0.500	0.000	0.714	0.250	0.000	0.250	0.000	0.500	0.500	0.838	0.500	0.000	0.857	0.500	0.000	0.333	0.000	0.600	0.921
C		460			460					ا م	_	224		•	225					4.0	44.6
Cars	400.0	162	4	0	168	0	0	1	0	1	/	224	4	0	235	8	0	4	0	12	416
Cars % Heavy Vehicles	100.0	94.7	100.0	0.0	94.9	0.0	0.0	100.0	0.0	50.0		98.2	100.0	0.0	97.9	100.0	0.0	100.0	0.0	100.0	96.5
	0	9	0	0	9	1	0	0	0	50.0	1	4	0	0	5	0	0	0	0	0	15
Heavy Vehicles %	0.0	5.3	0.0	0.0	5.1	100.0	0.0	0.0	0.0	50.0	12.5	1.8	0.0	0.0	2.1	0.0	0.0	0.0	0.0	0.0	3.5
Cars Enter Leg	2	162	4	0	168	0	0	1	0	1	7	224	4	0	235	8	0	4	0	12	416
 Heavy Enter Leg	0	9	0	0	9	1	0	0	0	1	1	4	0	0	5	0	0	0	0	0	15
 Total Entering Leg	2	171	4	0	177	1	0	1	0	2	8	228	4	0	240	8	0	4	0	12	431
Cars Exiting Leg					228					11					171					6	416
Heavy Exiting Leg					5					1					9					0	15
Total Exiting Leg					233					12					180					6	431

Location: N: Mill Street S: Mill Street

Location: E: Tri Valley Driveway W: Flaxfield Road

City, State: **Dudley, MA**Client: **VHB/ V. Kalikiri**

Site Code: **15303.00**

Count Date: Wednesday, January 5, 2022

Start Time: **7:00 AM**End Time: **9:00 AM**



157 Washington Street, Suite 2 Hudson, MA 01749 Office: 508-875-0100 Fax: 508-875-0118

Class:										Ca	ars										
		M	ill Stre	et			Tri Va	lley Dri	veway			N	ill Streا	et			Fla	xfield R	oad		Ī
		fro	om Nor	th			fı	rom Eas	st			fr	om Sou	uth			fr	om We	st		<u> </u>
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:00 AM	1	35	0	0	36	0	0	0	0	0	0	64	2	0	66	2	0	0	0	2	104
7:15 AM	0	33	0	0	33	0	0	0	0	0	0	59	1	0	60	4	0	1	0	5	98
7:30 AM	0	41	2	0	43	0	0	1	0	1	4	55	1	0	60	1	0	0	0	1	105
7:45 AM	1	53	2	0	56	0	0	0	0	0	3	46	0	0	49	1	0	3	0	4	109
Total	2	162	4	0	168	0	0	1	0	1	7	224	4	0	235	8	0	4	0	12	416
8:00 AM	1	28	1	0	30	0	0	0	0	0	2	50	0	0	52	1	0	0	0	1	83
8:15 AM	0	26	2	0	28	0	0	0	0	0	0	56	0	0	56	0	0	0	0	0	84
8:30 AM	0	48	2	0	50	0	0	0	0	0	2	42	1	0	45	2	0	3	0	5	100
8:45 AM	1	33	3	0	37	0	0	1	0	1	4	41	0	0	45	0	0	0	0	0	83
Total	2	135	8	0	145	0	0	1	0	1	8	189	1	0	198	3	0	3	0	6	350
Grand Total	4	297	12	0	313	0	0	2	0	2	15	413	5	0	433	11	0	7	0	18	766
Approach %	1.3	94.9	3.8	0.0		0.0	0.0	100.0	0.0		3.5	95.4	1.2	0.0		61.1	0.0	38.9	0.0		
Total %	0.5	38.8	1.6	0.0	40.9	0.0	0.0	0.3	0.0	0.3	2.0	53.9	0.7	0.0	56.5	1.4	0.0	0.9	0.0	2.3	
Exiting Leg Total					420					27					310					9	766

	•					•																
	7:00 AM		M	Iill Stree	et			Tri Val	ley Driv	eway			N	Iill Stree	et			Flax	field Ro	ad		
			fro	om Nort	th			fr	om Eas	t			fr	om Sou	th			fro	om Wes	st		
		Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
	7:00 AM	1	35	0	0	36	0	0	0	0	0	0	64	2	0	66	2	0	0	0	2	104
	7:15 AM	0	33	0	0	33	0	0	0	0	0	0	59	1	0	60	4	0	1	0	5	98
	7:30 AM	0	41	2	0	43	0	0	1	0	1	4	55	1	0	60	1	0	0	0	1	105
	7:45 AM	1	53	2	0	56	0	0	0	0	0	3	46	0	0	49	1	0	3	0	4	109
	Total Volume	2	162	4	0	168	0	0	1	0	1	7	224	4	0	235	8	0	4	0	12	416
%	Approach Total	1.2	96.4	2.4	0.0		0.0	0.0	100.0	0.0		3.0	95.3	1.7	0.0		66.7	0.0	33.3	0.0		
	PHF	0.500	0.764	0.500	0.000	0.750	0.000	0.000	0.250	0.000	0.250	0.438	0.875	0.500	0.000	0.890	0.500	0.000	0.333	0.000	0.600	0.954
	Entering Leg	2	162	4	0	168	0	0	1	0	1	7	224	4	0	235	8	0	4	0	12	416
	Exiting Leg					228					11					171					6	416
	Total					396					12					406					18	832

Location: N: Mill Street S: Mill Street

Location: E: Tri Valley Driveway W: Flaxfield Road

City, State: **Dudley, MA**Client: **VHB/ V. Kalikiri**

Site Code: **15303.00**

Count Date: Wednesday, January 5, 2022

Start Time: 7:00 AM
End Time: 9:00 AM

Class:



157 Washington Street, Suite 2 Hudson, MA 01749 Office: 508-875-0100 Fax: 508-875-0118

Heavy Vehicles-Combined (Buses, Single-Unit Trucks, Articulated Trucks)

		Ν	1ill Stre	et			Tri Va	lley Dri	veway			N	1ill Stre	et			Fla	xfield R	oad		
		fr	om Nor	th			fı	rom Eas	st			fr	om Soı	ıth			fr	om We	st		
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	4
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
7:45 AM	0	6	0	0	6	1	0	0	0	1	1	0	0	0	1	0	0	0	0	0	8
Total	0	9	0	0	9	1	0	0	0	1	1	4	0	0	5	0	0	0	0	0	15
8:00 AM	0	1	1	0	2	0	0	0	0	0	0	1	0	0	1	0	0	0	0	o	3
8:15 AM	0	2	0	0	2	0	0	0	0	0	0	4	0	0	4	0	0	0		0	6
8:30 AM	0	9	0	0	9	0	0	1	0	1	0	8	0	0	8	0	0	0		0	18
8:45 AM	0	0	0		0	0	0	0		0	0	1	0		1	0	0			0	1
Total	0	12	1	0	13	0	0	1		1	0	14	0		14	0	0			0	28
	! -			_		! !	_		_	_			_	_	1		_		_	_1	
Grand Total	0	21	1	0	22	1	0	1	0	2	1	18	0		19	0	0			0	43
Approach %	0.0	95.5	4.5	0.0		50.0	0.0	50.0	0.0		5.3	94.7	0.0			0.0	0.0				
Total %	0.0	48.8	2.3	0.0	51.2	2.3	0.0	2.3	0.0	4.7	2.3	41.9	0.0	0.0	44.2	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total					19					2					22					0	43
Buses	0	17	0	0	17	0	0	0	0	0	0	16	0	0	16	0	0	0	0	0	33
% Buses	0.0	81.0	0.0	0.0	77.3	0.0	0.0	0.0	0.0	0.0	0.0	88.9	0.0	0.0	84.2	0.0	0.0	0.0	0.0	0.0	76.7
Exiting Leg Total					16					0					17					0	33
Single-Unit Trucks	0	4	1	0	5	1	0	1	0	2	1	2	0	0	3	0	0	0	0	0	10
% Single-Unit	0.0	19.0	100.0	0.0	22.7	100.0	0.0	100.0	0.0	100.0	100.0	11.1	0.0	0.0	15.8	0.0	0.0	0.0	0.0	0.0	23.3
Exiting Leg Total					3					2					5					0	10
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Articulated	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Exiting Leg Total					0					0					0					0	0

7:45 AM		M	ill Stree	et			Tri Val	ley Driv	eway			N	Iill Stre	et			Flax	field Ro	oad		
		fro	m Nor	th			fr	om Eas	t			fr	om Sou	th			fro	om We	st		
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:45 AM	0	6	0	0	6	1	0	0	0	1	1	0	0	0	1	0	0	0	0	0	8
8:00 AM	0	1	1	0	2	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	3
8:15 AM	0	2	0	0	2	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	6
8:30 AM	0	9	0	0	9	0	0	1	0	1	0	8	0	0	8	0	0	0	0	0	18
Total Volume	0	18	1	0	19	1	0	1	0	2	1	13	0	0	14	0	0	0	0	0	35
% Approach Total	0.0	94.7	5.3	0.0		50.0	0.0	50.0	0.0		7.1	92.9	0.0	0.0		0.0	0.0	0.0	0.0		
PHF	0.000	0.500	0.250	0.000	0.528	0.250	0.000	0.250	0.000	0.500	0.250	0.406	0.000	0.000	0.438	0.000	0.000	0.000	0.000	0.000	0.486
	- 1																				
Buses	0	16	0	0	16	0	0	0	0	0	0	11	0	0	11	0	0	0	0	0	27
Buses %	0.0	88.9	0.0	0.0	84.2	0.0	0.0	0.0	0.0	0.0	0.0	84.6	0.0	0.0	78.6	0.0	0.0	0.0	0.0	0.0	77.1
Single-Unit Trucks	0	2	1	0	3	1	0	1	0	2	1	2	0	0	3	0	0	0	0	0	8
Single-Unit %	0.0	11.1	100.0	0.0	15.8	100.0	0.0	100.0	0.0	100.0	100.0	15.4	0.0	0.0	21.4	0.0	0.0	0.0	0.0	0.0	22.9
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Articulated %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Buses	0	16	0	0	16	0	0	0	0	0	0	11	0	0	11	0	0	0	0	0	27
Single-Unit Trucks	0	2	1	0	3	1	0	1	0	2	1	2	0	0	3	0	0	0	0	0	8
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Entering Leg	0	18	1	0	19	1	0	1	0	2	1	13	0	0	14	0	0	0	0	0	35
Buses	1				11					0					16					0	27
Single-Unit Trucks					3					2					3					0	8
Articulated Trucks					0					0					0					0	0
Total Exiting Leg					14					2					19					0	35

N: Mill Street S: Mill Street Location:

Location: E: Tri Valley Driveway W: Flaxfield Road

City, State: Dudley, MA Client: VHB/ V. Kalikiri

Site Code: 15303.00

Count Date: Wednesday, January 5, 2022

Start Time: 7:00 AM End Time: 9:00 AM



157 Washington Street, Suite 2 Hudson, MA 01749 Office: 508-875-0100 Fax: 508-875-0118

Buses

Class:										Bu	ses										
		М	ill Stre	et			Tri Val	ley Driv	veway			N	۱ill Stre	et			Flax	kfield R	oad		
		fro	m Nor	th			fr	om Eas	st			fr	om Sou	ıth			fr	om We	st		·
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	4
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
7:45 AM	0	5	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Total	0	6	0	0	6	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	10
8:00 AM	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
8:15 AM	0	1	0	0	1	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	5
8:30 AM	0	9	0	0	9	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	15
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
Total	0	11	0	0	11	0	0	0	0	0	0	12	0	0	12	0	0	0	0	0	23
											•				1						
Grand Total	0	17	0	0	17	0	0	0	0	0	0	16	0	0	16	0	0	0	0	0	33
Approach %	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		
Total %	0.0	51.5	0.0	0.0	51.5	0.0	0.0	0.0	0.0	0.0	0.0	48.5	0.0	0.0	48.5	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total					16					0					17					0	33

	7:45 AM		M	ill Stree	et			Tri Val	ley Driv	eway			N	Iill Stree	et			Flax	field Ro	ad		
			fro	m Nor	th			fr	om Eas	t			fr	om Sou	th			fro	om Wes	st		
		Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
	7:45 AM	0	5	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
	8:00 AM	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
	8:15 AM	0	1	0	0	1	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	5
	8:30 AM	0	9	0	0	9	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	15
	Total Volume	0	16	0	0	16	0	0	0	0	0	0	11	0	0	11	0	0	0	0	0	27
	% Approach Total	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		
	PHF	0.000	0.444	0.000	0.000	0.444	0.000	0.000	0.000	0.000	0.000	0.000	0.458	0.000	0.000	0.458	0.000	0.000	0.000	0.000	0.000	0.450
	Entering Leg	0	16	0	0	16	0	0	0	0	0	0	11	0	0	11	0	0	0	0	0	27
_	Exiting Leg					11					0					16					0	27
	Total					27					0					27					0	54

Location: N: Mill Street S: Mill Street

Location: E: Tri Valley Driveway W: Flaxfield Road

City, State: Dudley, MA Client: VHB/ V. Kalikiri

Site Code: 15303.00

Count Date: Wednesday, January 5, 2022

Start Time: 7:00 AM End Time: 9:00 AM



157 Washington Street, Suite 2 Hudson, MA 01749 Office: 508-875-0100 Fax: 508-875-0118

Class:									Sin	gle-Uı	nit Tru	cks									
		М	ill Stre	et			Tri Va	lley Dri	veway			N	ill Streر	et			Flax	dield Ro	oad		
		fro	m Nor	th			fı	rom Eas	st			fr	om Sou	th			fr	om We	st		
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
7:45 AM	0	1	0	0	1	1	0	0	0	1	1	0	0	0	1	0	0	0	0	0	3
Total	0	3	0	0	3	1	0	0	0	1	1	0	0	0	1	0	0	0	0	0	5
8:00 AM	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
8:15 AM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
8:30 AM	0	0	0	0	0	0	0	1	0	1	0	2	0	0	2	0	0	0	0	0	3
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	1	1	0	2	0	0	1	0	1	0	2	0	0	2	0	0	0	0	0	5
	Ī				ĺ	ı					ī					ı				ĺ	Ī
Grand Total	0	4	1	0	5	1	0	1	0	2	1	2	0	0	3	0	0	0	0	0	10
Approach %	0.0	80.0	20.0	0.0		50.0	0.0	50.0	0.0		33.3	66.7	0.0	0.0		0.0	0.0	0.0	0.0		
Total %	0.0	40.0	10.0	0.0	50.0	10.0	0.0	10.0	0.0	20.0	10.0	20.0	0.0	0.0	30.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total		•	•		3		•			2		•	•		5		•	•		0	10

7:45 AM		M	III Stree	et			Tri Val	ley Driv	eway			N	Iill Stree	et			Flax	field Ro	ad		ì
		fro	m Nor	th			fr	om Eas	t			fr	om Sou	th			fro	om Wes	st		
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:45 AM	0	1	0	0	1	1	0	0	0	1	1	0	0	0	1	0	0	0	0	0	3
8:00 AM	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
8:15 AM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
 8:30 AM	0	0	0	0	0	0	0	1	0	1	0	2	0	0	2	0	0	0	0	0	3
Total Volume	0	2	1	0	3	1	0	1	0	2	1	2	0	0	3	0	0	0	0	0	8
 % Approach Total	0.0	66.7	33.3	0.0		50.0	0.0	50.0	0.0		33.3	66.7	0.0	0.0		0.0	0.0	0.0	0.0		
PHF	0.000	0.500	0.250	0.000	0.750	0.250	0.000	0.250	0.000	0.500	0.250	0.250	0.000	0.000	0.375	0.000	0.000	0.000	0.000	0.000	0.667
Entering Leg	0	2	1	0	3	1	0	1	0	2	1	2	0	0	3	0	0	0	0	0	8
Exiting Leg					3					2					3					0	8
Total					6					4					6					0	16

Location: N: Mill Street S: Mill Street

Location: E: Tri Valley Driveway W: Flaxfield Road

City, State: Dudley, MA Client: VHB/ V. Kalikiri

Site Code: 15303.00

Count Date: Wednesday, January 5, 2022

Start Time: 7:00 AM End Time: 9:00 AM



157 Washington Street, Suite 2 Hudson, MA 01749 Office: 508-875-0100 Fax: 508-875-0118

Articulated Trucks

Class:									Arti	iculat	ed Tru	cks									
		M	ill Stre	et			Tri Va	lley Dri	veway			N	1ill Stre	et			Flax	dield R	oad		,
		fro	m Nor	th			fı	rom Eas	st			fr	om Sou	ith			fr	om We	st		
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1 -				_1	1 _	_	_		_1	1 _		_		_	1 -		_	_	_1	l _
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Approach %	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total					0					0					0					0	0

7:00 AM		M	ill Stree	et			Tri Val	ley Driv	eway			N	III Stree	et			Flax	field Ro	ad		
		fro	m Nor	th			fr	om Eas	t			fr	om Sou	th			fro	om Wes	it		
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Approach Total	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Entering Leg	0	0	0	0	o	0	0	0	0	0	0	0	0	0	o	0	0	0	0	0	0
Exiting Leg					0					0					0					0	0
 Total					0					0					0					0	0

N: Mill Street S: Mill Street Location:

Location: E: Tri Valley Driveway W: Flaxfield Road

City, State: Dudley, MA Client: VHB/ V. Kalikiri

Site Code: 15303.00

Count Date: Wednesday, January 5, 2022

Start Time: 7:00 AM End Time: 9:00 AM



157 Washington Street, Suite 2 Hudson, MA 01749 Office: 508-875-0100 Fax: 508-875-0118

Bicycles (on Roadway and Crosswalks)

Class:										Bicy	cles	s (on	Roa	adw	ay aı	nd C	ross	walk	s)										
			Mil	l Stre	et				Tr	i Valle	y Dri	vewa	у				Mil	l Stre	et					Flaxfi	ield F	Road			
			fror	n Nor	th					fro	m Ea	st					fron	n Sou	th					fror	n We	est			
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	Total
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Approach %	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total							0							0							0							0	0

7:00 AM			Mi	II Str	eet				Tr	i Vall	ey Dr	ivew	ау				Mi	II Stre	et					Flaxf	ield R	load			
			fro	m No	rth					fro	om Ea	ist					fro	n Sou	ıth					fro	m We	est			
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	Total
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Approach Total	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Entering Leg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Exiting Leg							0							0							0							0	0
Total							0							0							0							0	0

Location: N: Mill Street S: Mill Street

Location: E: Tri Valley Driveway W: Flaxfield Road

City, State: Dudley, MA Client: VHB/ V. Kalikiri

Site Code: 15303.00

Count Date: Wednesday, January 5, 2022

Start Time: 7:00 AM End Time: 9:00 AM



157 Washington Street, Suite 2 Hudson, MA 01749 Office: 508-875-0100 Fax: 508-875-0118

Pedestrians

Class:													Pe	edes	triar	าร													
			Mil	l Stree	et				Tr	i Vall	ey Dri	vewa	у				Mil	l Stre	et					Flaxfi	eld R	oad			
			fror	n Nor	th					fro	om Ea	st					fror	n Sou	ith					fror	n We	st			
	Right	Thru	Left	U-Turn (CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn (CW-NB	CW-SB	Total	Total
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Grand Total	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	٥	0	0	1
Approach %	0	0	0	0	0	0	U	0	0	0	0	100	0	1	0	0	0	0	0	0	U	0	0	0	0	0	0	U	1
Total %	0	0	0	0	0	0	0	0	0	0	0	100	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Exiting Leg Total	0	U	U	U	0	U	0		U	0	U	100	U	100	U	U	U	U	U	U	_	U	U	U	U	U	0	0	
LAILING LEG TOTAL	l						0							1							0							U	1

8:00 AM			Mi	II Stre	eet				Tr	i Vall	ey Dr	ivewa	ау				Mi	II Stre	et					Flaxi	ield F	Road			
			fro	m No	rth					fro	om Ea	st					fro	m Soı	uth					fro	m W	est			
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	Total
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total Volume	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
% Approach Total	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	100.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250
		•				•			•	•	•		•				•	•			اء			•	•			0	
Entering Leg	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Exiting Leg							0							1							0							0	1
Total							0							2							0							0	2

Location: N: Mill Street S: Mill Street

Location: E: Tri Valley Driveway W: Flaxfield Road

City, State: Dudley, MA Client: VHB/ V. Kalikiri

15303.00 Site Code:

Count Date: Wednesday, January 5, 2022

Start Time: 4:00 PM End Time: 6:00 PM



157 Washington Street, Suite 2 Hudson, MA 01749 Office: 508-875-0100 Fax: 508-875-0118

Cars and Heavy Vehicles (Combined)

Class:							C	ars a	nd Hea	ıvy Ve	hicles	(Com	bined	l)							
		М	ill Stre	et			Tri Val	lley Dri	veway			N	1ill Stre	et			Flax	rfield R	oad		
		fro	m Nor	th			fr	om Eas	st			fr	om Sou	ıth			fr	om We	st		
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
4:00 PM	0	65	0	0	65	0	0	0	0	0	0	43	4	0	47	2	0	2	0	4	116
4:15 PM	2	60	0	0	62	1	0	1	0	2	0	61	2	0	63	2	0	0	0	2	129
4:30 PM	2	67	0	0	69	1	0	2	0	3	1	47	1	0	49	0	0	1	0	1	122
4:45 PM	2	49	0	0	51	0	0	4	0	4	1	50	1	0	52	1	0	1	0	2	109
Total	6	241	0	0	247	2	0	7	0	9	2	201	8	0	211	5	0	4	0	9	476
5:00 PM	3	58	1	0	62	2	0	4	0	6	0	54	1	0	55	0	0	0	0	0	123
5:15 PM	4	39	1	0	44	0	0	0	0	0	0	38	1	0	39	3	0	1	0	4	87
5:30 PM	0	62	0	0	62	1	0	2	0	3	1	34	1	0	36	0	0	1	0	1	102
5:45 PM	1	28	0	0	29	0	0	0	0	0	0	34	1	0	35	1	0	1	0	2	66
Total	8	187	2	0	197	3	0	6	0	9	1	160	4	0	165	4	0	3	0	7	378
Grand Total	14	428	2	0	444	5	0	13	0	18	3	361	12	0	376	9	0	7	0	16	854
Approach %	3.2	96.4	0.5	0.0		27.8	0.0	72.2	0.0		0.8	96.0	3.2	0.0		56.3	0.0	43.8	0.0		
Total %	1.6	50.1	0.2	0.0	52.0	0.6	0.0	1.5	0.0	2.1	0.4	42.3	1.4	0.0	44.0	1.1	0.0	0.8	0.0	1.9	
Exiting Leg Total					373					5					450					26	854
Cars	14	424	2	0	440	5	0	13	0	18	3	359	12	0	374	9	0	7	0	16	848
% Cars	100.0	99.1	100.0	0.0	99.1	100.0	0.0	100.0	0.0	100.0	100.0	99.4	100.0	0.0	99.5	100.0	0.0	100.0	0.0	100.0	99.3
Exiting Leg Total					371					5					446					26	848
Heavy Vehicles	0	4	0	0	4	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	6
% Heavy Vehicles	0.0	0.9	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.7
Exiting Leg Total					2					0					4					0	6

4:15 PM		M	ill Stree	et			Tri Val	ley Driv	veway			N	1ill Stre	et			Flax	dield Ro	oad		
		fro	m Nor	th			fr	om Eas	it			fr	om Sou	ıth			fr	om We	st		
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
4:15 PM	2	60	0	0	62	1	0	1	0	2	0	61	2	0	63	2	0	0	0	2	129
4:30 PM	2	67	0	0	69	1	0	2	0	3	1	47	1	0	49	0	0	1	0	1	122
4:45 PM	2	49	0	0	51	0	0	4	0	4	1	50	1	0	52	1	0	1	0	2	109
5:00 PM	3	58	1	0	62	2	0	4	0	6	0	54	1	0	55	0	0	0	0	0	123
Total Volume	9	234	1	0	244	4	0	11	0	15	2	212	5	0	219	3	0	2	0	5	483
% Approach Total	3.7	95.9	0.4	0.0		26.7	0.0	73.3	0.0		0.9	96.8	2.3	0.0		60.0	0.0	40.0	0.0		
PHF	0.750	0.873	0.250	0.000	0.884	0.500	0.000	0.688	0.000	0.625	0.500	0.869	0.625	0.000	0.869	0.375	0.000	0.500	0.000	0.625	0.936
	- I																				
Cars	9	233	1	0	243	4	0	11	0	15	2	211	5	0	218		0	2	0	5	481
Cars %	100.0	99.6	100.0	0.0	99.6	100.0	0.0	100.0	0.0	100.0		99.5	100.0		99.5	100.0	0.0	100.0	0.0	100.0	99.6
Heavy Vehicles	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
Heavy Vehicles %	0.0	0.4	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.4
Cars Enter Leg	9	233	1	0	243	4	0	11	0	15	2	211	5	0	218	3	0	2	0	5	481
Heavy Enter Leg	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
Total Entering Leg	9	234	1	0	244	4	0	11	0	15	2	212	5	0	219	3	0	2	0	5	483
Cars Exiting Leg	Ī				217					3					247					14	481
Heavy Exiting Leg					1					0					1					0	2
Total Exiting Leg					218					3					248					14	483

N: Mill Street S: Mill Street Location:

Location: E: Tri Valley Driveway W: Flaxfield Road

City, State: Dudley, MA Client: VHB/ V. Kalikiri

Site Code: 15303.00

Count Date: Wednesday, January 5, 2022

Start Time: 4:00 PM End Time: 6:00 PM



157 Washington Street, Suite 2 Hudson, MA 01749 Office: 508-875-0100 Fax: 508-875-0118

Class:										Ca	irs										_
		M	ill Stree	et			Tri Val	ley Driv	eway			N	1ill Stre	et			Flax	rfield R	oad		
		fro	m Nor	th			fr	om Eas	t			fr	om Sou	ıth			fr	om We	st		Ī
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
4:00 PM	0	63	0	0	63	0	0	0	0	0	0	43	4	0	47	2	0	2	0	4	114
4:15 PM	2	60	0	0	62	1	0	1	0	2	0	60	2	0	62	2	0	0	0	2	128
4:30 PM	2	67	0	0	69	1	0	2	0	3	1	47	1	0	49	0	0	1	0	1	122
4:45 PM	2	48	0	0	50	0	0	4	0	4	1	50	1	0	52	1	0	1	0	2	108
Total	6	238	0	0	244	2	0	7	0	9	2	200	8	0	210	5	0	4	0	9	472
5:00 PM	3	58	1	0	62	2	0	4	0	6	0	54	1	0	55	0	0	0	0	0	123
5:15 PM	4	39	1	0	44	0	0	0	0	0	0	37	1	0	38	3	0	1	0	4	86
5:30 PM	0	61	0	0	61	1	0	2	0	3	1	34	1	0	36	0	0	1	0	1	101
5:45 PM	1	28	0	0	29	0	0	0	0	0	0	34	1	0	35	1	0	1	0	2	66
Total	8	186	2	0	196	3	0	6	0	9	1	159	4	0	164	4	0	3	0	7	376
Grand Total	14	424	2	0	440	5	0	13	0	18	3	359	12	0	374	9	0	7	0	16	848
Approach %	3.2	96.4	0.5	0.0		27.8	0.0	72.2	0.0		0.8	96.0	3.2	0.0		56.3	0.0	43.8	0.0		
Total %	1.7	50.0	0.2	0.0	51.9	0.6	0.0	1.5	0.0	2.1	0.4	42.3	1.4	0.0	44.1	1.1	0.0	0.8	0.0	1.9	
Exiting Leg Total					371					5					446					26	848

•					-																
4:15 PM		N	1ill Stree	et			Tri Val	ley Driv	eway			N	Iill Stree	et			Flax	rfield Ro	oad		
		fro	om Nor	th			fr	om Eas	t			fr	om Sou	th			fro	om Wes	st		
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
4:15 PM	2	60	0	0	62	1	0	1	0	2	0	60	2	0	62	2	0	0	0	2	128
4:30 PM	2	67	0	0	69	1	0	2	0	3	1	47	1	0	49	0	0	1	0	1	122
4:45 PM	2	48	0	0	50	0	0	4	0	4	1	50	1	0	52	1	0	1	0	2	108
5:00 PM	3	58	1	0	62	2	0	4	0	6	0	54	1	0	55	0	0	0	0	0	123
Total Volume	9	233	1	0	243	4	0	11	0	15	2	211	5	0	218	3	0	2	0	5	481
% Approach Total	3.7	95.9	0.4	0.0		26.7	0.0	73.3	0.0		0.9	96.8	2.3	0.0		60.0	0.0	40.0	0.0		l
PHF	0.750	0.869	0.250	0.000	0.880	0.500	0.000	0.688	0.000	0.625	0.500	0.879	0.625	0.000	0.879	0.375	0.000	0.500	0.000	0.625	0.939
Entering Leg	9	233	1	0	243	4	0	11	0	15	2	211	5	0	218	3	0	2	0	5	481
Exiting Leg					217					3					247					14	481
Total					460					18					465					19	962

Location: N: Mill Street S: Mill Street

Location: E: Tri Valley Driveway W: Flaxfield Road

City, State: **Dudley, MA**Client: **VHB/ V. Kalikiri**

Site Code: **15303.00**

Count Date: Wednesday, January 5, 2022

Start Time: 4:00 PM
End Time: 6:00 PM

Class:



157 Washington Street, Suite 2 Hudson, MA 01749 Office: 508-875-0100 Fax: 508-875-0118

Heavy Vehicles-Combined (Buses, Single-Unit Trucks, Articulated Trucks)

		N	Iill Stree	et			Tri Va	lley Dri	veway			N	1ill Stre	et			Fla	xfield R	oad		
		fro	om Nor	th			f	rom Eas	st			fr	om Sou	ıth			fr	om We	st		
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
4:00 PM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	0	3	0	0	3	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	4
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
5:30 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
Grand Total	0	4	0	0	4	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	6
Approach %	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		l
Total %	0.0	66.7	0.0	0.0	66.7	0.0	0.0	0.0	0.0	0.0	0.0	33.3	0.0	0.0	33.3	0.0	0.0	0.0	0.0	0.0	l
Exiting Leg Total					2					0					4					0	6
Buses	0	2	0	0	2	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	4
% Buses	0.0	50.0	0.0	0.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	66.7
Exiting Leg Total					2					0					2					0	4
Single-Unit Trucks	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
% Single-Unit	0.0	50.0	0.0	0.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.3
Exiting Leg Total					0					0					2					0	2
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Articulated	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Exiting Leg Total					0					0					0					0	0

4:00 PM		M	Iill Stree	et			Tri Val	ley Driv	eway			N	1ill Stre	et			Flax	field Ro	oad		
		fro	m Nor	th			fr	om Eas	t			fr	om Sou	th			fro	om We	st		
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
4:00 PM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total Volume	0	3	0	0	3	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	4
% Approach Total	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		
PHF	0.000	0.375	0.000	0.000	0.375	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.500
	- 1																				
Buses	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
Buses %	0.0	33.3	0.0	0.0	33.3	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	50.0
Single-Unit Trucks	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Single-Unit %	0.0	66.7	0.0	0.0	66.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Articulated %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Buses	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
Single-Unit Trucks	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Entering Leg	0	3	0	0	3	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	4
Buses	I				1					0					1					0	2
Single-Unit Trucks					0					0					2					0	2
Articulated Trucks					0					0					0					0	0
Total Exiting Leg		·	·	·	1			·		0	·	·			3		·		·	0	4

N: Mill Street S: Mill Street Location:

Location: E: Tri Valley Driveway W: Flaxfield Road

City, State: Dudley, MA Client: VHB/ V. Kalikiri

Site Code: 15303.00

Count Date: Wednesday, January 5, 2022

Start Time: 4:00 PM End Time: 6:00 PM



157 Washington Street, Suite 2 Hudson, MA 01749 Office: 508-875-0100 Fax: 508-875-0118

Buses

Class:										Bu	ses										
		М	ill Stre	et			Tri Val	ley Driv	veway			N	۱ill Stre	et			Flax	kfield R	oad		
		fro	m Nor	th			fr	om Eas	st			fr	om Sou	ıth			fr	om We	st		·
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
4:00 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
5:30 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
Grand Total	0	2	0	0	2	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	4
Approach %	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		
Total %	0.0	50.0	0.0	0.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0	0.0	0.0	50.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total					2					0					2					0	4

4:00 PM		M	III Stree	et			Tri Val	ley Driv	eway			N	III Stree	et .			Flax	field Ro	ad		
		fro	m Nor	th			fr	om East	t			fr	om Sou	th			fro	om Wes	it		
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
4:00 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
% Approach Total	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		
PHF	0.000	0.250	0.000	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.500
Entering Leg	l n	1	0	0			0	0	0	o	0	4	0	0	4	0	0	0	0	ol	2
	U	1	U	0	1	0	0	0	0	U	U	1	U	U	1	U	0	0	0	U	2
 Exiting Leg					1					0					1					0	2
Total					2					0					2					0	4

N: Mill Street S: Mill Street Location:

Location: E: Tri Valley Driveway W: Flaxfield Road

City, State: Dudley, MA Client: VHB/ V. Kalikiri

Site Code: 15303.00

Count Date: Wednesday, January 5, 2022

Start Time: 4:00 PM End Time: 6:00 PM



157 Washington Street, Suite 2 Hudson, MA 01749 Office: 508-875-0100 Fax: 508-875-0118

Single-Unit Trucks

Class:									Sin	gle-Ur	nit Tru	cks									
		M	ill Stre	et			Tri Va	lley Dri	veway			N	1ill Stre	et			Flax	dield Ro	oad		,
		fro	m Nor	th			fı	rom Eas	st			fr	om Sou	ıth			fr	om We	st		
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
4:00 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	_					_					_					_					
Grand Total	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Approach %	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		
Total %	0.0	100.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total					0		•	•	•	0		•		•	2			•		0	2

4:00 PM		M	III Stree	et			Tri Val	ley Driv	eway			N	Iill Stree	et			Flax	field Ro	ad		
		fro	m Nor	th			fr	om Eas	t			fr	om Sou	th			fro	om Wes	it		
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
4:00 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total Volume	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
% Approach Total	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		
PHF	0.000	0.500	0.000	0.000	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.500
Entering Log	0	2	0	0	اء	0	0	0	0	ام	0	0	0	0	0	0	0	0	0	٥	
Entering Leg	U	2	0	0	2	0	0	0	0	0	0	0	U	0	U	U	0	0	0	0	2
Exiting Leg					0					0					2					0	2
 Total					2					0					2				· · · · ·	0	4

N: Mill Street S: Mill Street Location:

Location: E: Tri Valley Driveway W: Flaxfield Road

City, State: Dudley, MA Client: VHB/ V. Kalikiri

Site Code: 15303.00

Count Date: Wednesday, January 5, 2022

Start Time: 4:00 PM End Time: 6:00 PM



157 Washington Street, Suite 2 Hudson, MA 01749 Office: 508-875-0100 Fax: 508-875-0118

Articulated Trucks

Class:									Arti	iculat	ed Tru	cks									
		M	Iill Stre	et			Tri Va	lley Dri	veway			N	1ill Stre	et			Flax	dield R	oad		,
		fro	om Nor	th			fı	rom Eas	st			fr	om Sou	ith			fr	om We	st		
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	_					_					-					_					
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Approach %	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total		•	•		0		•	•	•	0		•	•	•	0					0	0

	4:00 PM		М	ill Stree	et			Tri Val	ley Driv	eway			M	III Stree	et			Flax	field Ro	ad		
			fro	m Nor	th			fr	om Eas	t			fr	om Sou	th			fro	om Wes	it		
		Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
_	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
_	% Approach Total	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		
	PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Entering Leg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
_	Exiting Leg					0					0					0					0	0
	Total					0					0					0					0	0

N: Mill Street S: Mill Street Location:

Location: E: Tri Valley Driveway W: Flaxfield Road

City, State: Dudley, MA Client: VHB/ V. Kalikiri

Site Code: 15303.00

Count Date: Wednesday, January 5, 2022

Start Time: 4:00 PM End Time: 6:00 PM



157 Washington Street, Suite 2 Hudson, MA 01749 Office: 508-875-0100 Fax: 508-875-0118

Bicycles (on Roadway and Crosswalks)

Class:										Bicy	cles	s (on	Roa	adw	ay aı	nd C	ross	walk	s)										
			Mil	l Stre	et				Tr	i Valle	y Dri	vewa	у				Mil	l Stre	et					Flaxfi	ield F	Road			
			fror	n Nor	th					fro	m Ea	st					fron	n Sou	th					fror	n We	est			
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	Total
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Approach %	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	<u></u>
Exiting Leg Total							0							0							0							0	0

4:00 PM			Mi	ill Str	eet				Tr	i Vall	ey Dr	ivewa	ay				Mi	II Str	eet					Flax	field F	Road			
			fro	m No	rth					fro	om Ea	st					fro	m So	uth					fro	m We	est			
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	Total
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Approach Total	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Entering Leg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Exiting Leg							0							0							0							0	0
Total							0							0							0							0	0

Location: N: Mill Street S: Mill Street

Location: E: Tri Valley Driveway W: Flaxfield Road

City, State: Dudley, MA Client: VHB/ V. Kalikiri

Site Code: 15303.00

Wednesday, January 5, 2022 Count Date:

Start Time: 4:00 PM End Time: 6:00 PM

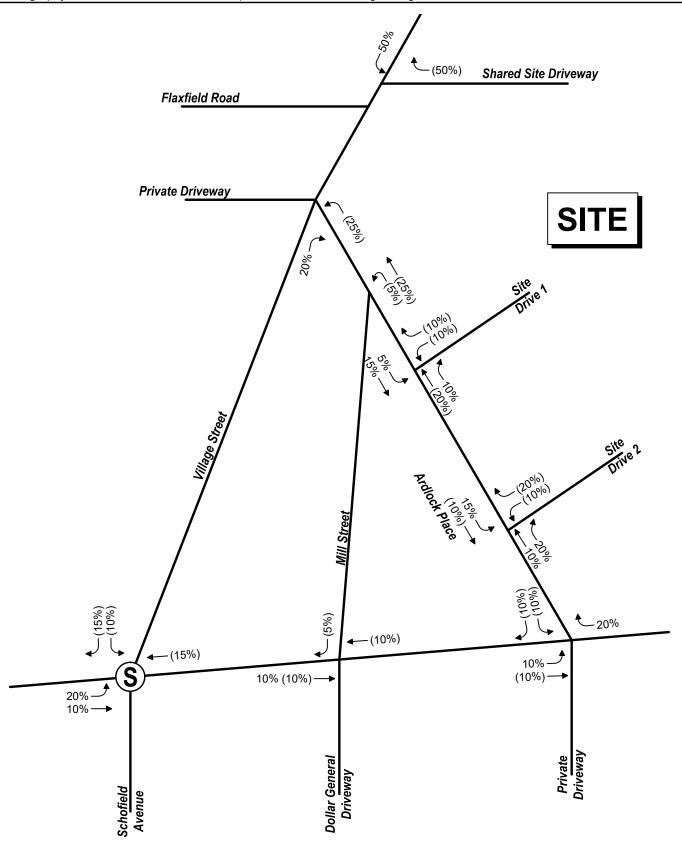


157 Washington Street, Suite 2 Hudson, MA 01749 Office: 508-875-0100 Fax: 508-875-0118

Pedestrians

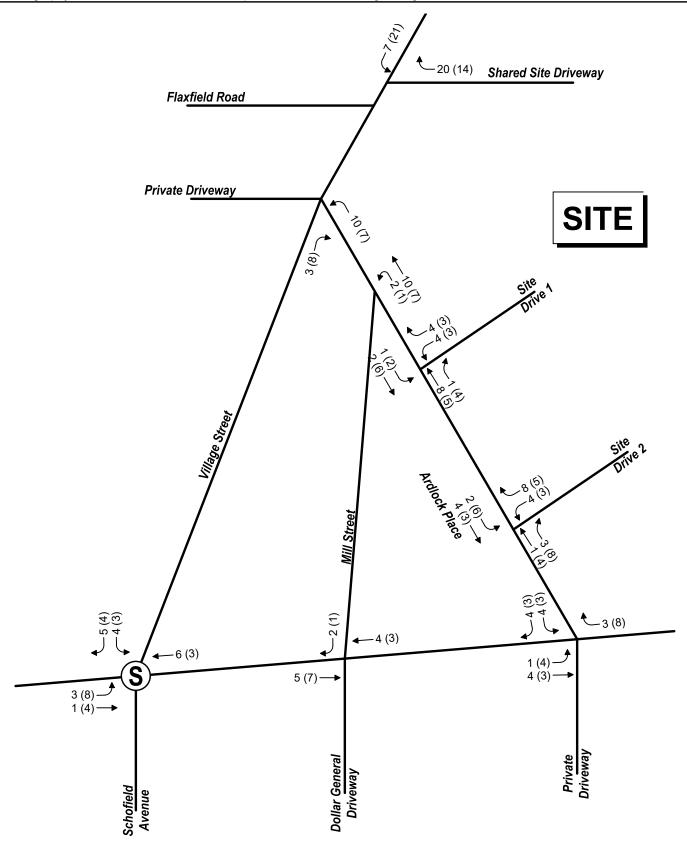
Class:													Pe	des	triar	ıs													
			Mi	II Stre	et				Tr	i Valle	y Driv	vewa	у				Mil	l Stree	et					Flaxf	ield F	Road			
			froi	m Nor	th					fro	m Eas	st					fron	n Sou	th					fro	n We	est			
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left I	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn C	W-WB	CW-EB	otal	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	Total
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Approach %	0	0	0	0	0	0		0	0	0	0	0	0		0	0	0	0	0	0		0	0	0	0	0	0		
Total %	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Exiting Leg Total							0							0							0							0	0

4:00 PM			Mi	II Stre	eet				Tr	ri Vall	ey Dr	ivewa	ау				Mi	ll Stre	et					Flaxf	ield F	Road			
			fro	m No	rth					fro	om Ea	st					fro	m Soı	ıth					fro	m We	est			
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	Total
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Approach Total	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Entering Leg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Exiting Leg							0							0							0							0	0
Total							0							0							0							0	0









Legend

XX → Weekday Morning Traffic Volume

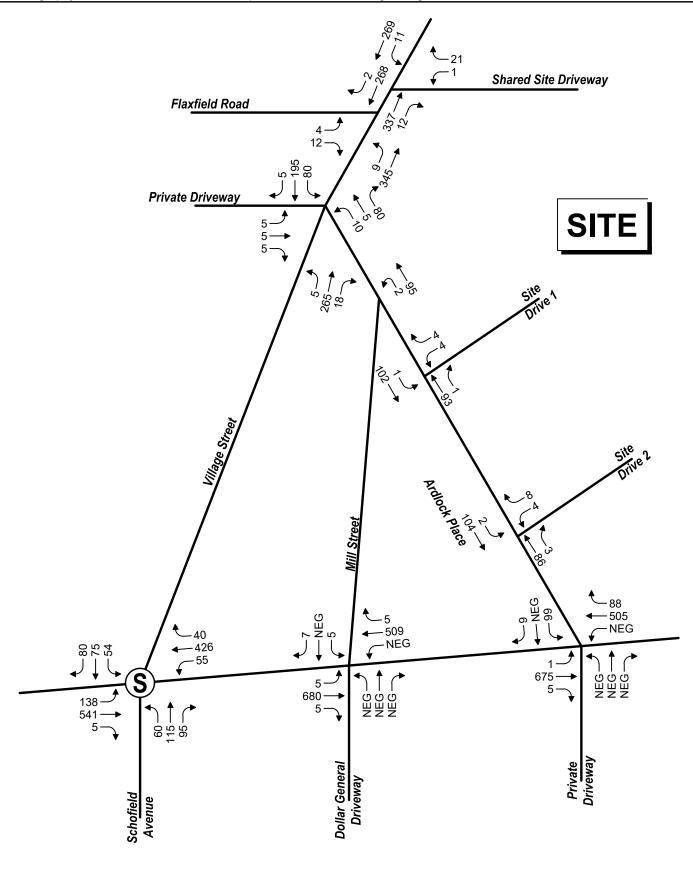
(XX) → Weekday Evening
Traffic Volume
NOT TO SCALE



Dudley, MA

Proposed Mill Redevelopment Site Generated Traffic Figure





Legend

Traffic Volumes XX --

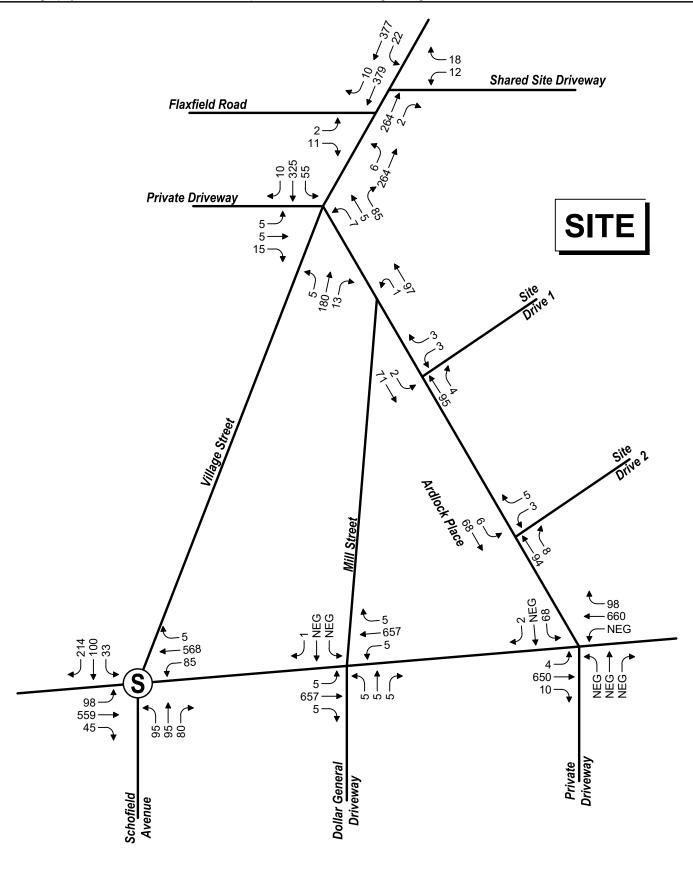
NEG Negligible

NOT TO SCALE



Figure 6

Proposed Mill Redevelopment 2028 Build Conditions Weekday Morning Peak Hour Traffic Volumes Dudley, MA



Legend

Traffic Volumes XX --

NEG Negligible

NOT TO SCALE



Figure 7

Proposed Mill Redevelopment 2028 Build Conditions Weekday Evening Peak Hour Traffic Volumes Dudley, MA

	Þ	-	•		1	1	/	ţ		
Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT	Ø2	
Lane Configurations	7	1	7	13		4		4		
Traffic Volume (vph)	138	541	55	426	60	115	54	75		
Future Volume (vph)	138	541	55	426	60	115	54	75		
Lane Group Flow (vph)	150	593	59	501	0	293	0	225		
Turn Type	Prot	NA	Prot	NA	Perm	NA	Perm	NA		
Protected Phases	1	12	3	23		4		4	2	
Permitted Phases					4		4			
Detector Phase	1	12	3	23	4	4	4	4		
Switch Phase										
Minimum Initial (s)	5.0		5.0		5.0	5.0	5.0	5.0	5.0	
Minimum Split (s)	11.0		11.0		11.0	11.0	11.0	11.0	9.5	
Total Split (s)	14.0		11.0		23.0	23.0	23.0	23.0	22.0	
Total Split (%)	20.0%		15.7%		32.9%	32.9%	32.9%	32.9%	31%	
Yellow Time (s)	4.0		4.0		4.0	4.0	4.0	4.0	3.5	
All-Red Time (s)	1.0		1.0		1.0	1.0	1.0	1.0	1.0	
Lost Time Adjust (s)	0.0		0.0			0.0		0.0		
Total Lost Time (s)	5.0		5.0			5.0		5.0		
Lead/Lag	Lead		Lead		Lag	Lag	Lag	Lag	Lag	
Lead-Lag Optimize?										
Recall Mode	None		Max		None	None	None	None	Max	
v/c Ratio	0.64	0.68	0.41	0.68		0.79		0.70		
Control Delay	43.4	19.7	39.4	21.9		37.8		31.3		
Queue Delay	0.0	0.0	0.0	0.0		0.0		0.0		
Total Delay	43.4	19.7	39.4	21.9		37.8		31.3		
Queue Length 50th (ft)	62	195	25	169		99		68		
Queue Length 95th (ft)	#140	311	59	279		#204		139		
Internal Link Dist (ft)		572		291		483		677		
Turn Bay Length (ft)	65		80							
Base Capacity (vph)	233	877	143	737		435		377		
Starvation Cap Reductn	0	0	0	0		0		0		
Spillback Cap Reductn	0	0	0	0		0		0		
Storage Cap Reductn	0	0	0	0		0		0		
Reduced v/c Ratio	0.64	0.68	0.41	0.68		0.67		0.60		

Intersection Summary

Cycle Length: 70

Actuated Cycle Length: 67.3

Natural Cycle: 60

Control Type: Actuated-Uncoordinated

95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

Splits and Phases: 3: Schofield Ave/Village St & W Main St



Steven's Mill Apartments

Synchro 10 Report

Dudley, MA

Page 1

	٠	-	*	1	3	•	1	t	~	1	1	1
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	1	T.		7	1			4			4	
Traffic Volume (vph)	138	541	5	55	426	40	60	115	95	54	75	80
Future Volume (vph)	138	541	5	55	426	40	60	115	95	54	75	80
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width	11	12	12	10	11	11	14	14	14	12	12	12
Grade (%)		-4%			0%			2%			0%	
Total Lost time (s)	5.0	5.0		5.0	4.5			5.0			5.0	
Lane Util. Factor	1.00	1.00		1.00	1.00			1.00			1.00	
Frt	1.00	1.00		1.00	0.99			0.95			0.95	
Flt Protected	0.95	1.00		0.95	1.00			0.99			0.99	
Satd. Flow (prot)	1745	1898		1604	1727			1783			1663	
FIt Permitted	0.95	1.00		0.95	1.00			0.84			0.77	
Satd. Flow (perm)	1745	1898		1604	1727			1519			1290	
Peak-hour factor, PHF	0.92	0.92	0.92	0.93	0.93	0.93	0.92	0.92	0.92	0.93	0.93	0.93
Adj. Flow (vph)	150	588	5	59	458	43	65	125	103	58	81	86
RTOR Reduction (vph)	0	1	0	0	5	0	0	29	0	0	33	0
Lane Group Flow (vph)	150	592	0	59	496	0	0	264	0	0	192	0
Heavy Vehicles (%)	2%	2%	2%	5%	5%	5%	6%	6%	6%	7%	7%	7%
Turn Type	Prot	NA		Prot	NA		Perm	NA		Perm	NA	
Protected Phases	1	12		3	23			4			4	
Permitted Phases							4			4		
Actuated Green, G (s)	9.0	31.5		6.0	28.0			15.2			15.2	
Effective Green, g (s)	9.0	31.5		6.0	28.0			15.2			15.2	
Actuated g/C Ratio	0.13	0.47		0.09	0.42			0.23			0.23	
Clearance Time (s)	5.0			5.0				5.0			5.0	
Vehicle Extension (s)	3.0			3.0				3.0			3.0	
Lane Grp Cap (vph)	233	889		143	719			343			291	
v/s Ratio Prot	0.09	c0.31		0.04	c0.29							
v/s Ratio Perm								c0.17			0.15	
v/c Ratio	0.64	0.67		0.41	0.69			0.77			0.66	
Uniform Delay, d1	27.6	13.8		28.9	16.0			24.4			23.6	
Progression Factor	1.00	1.00		1.00	1.00			1.00			1.00	
Incremental Delay, d2	6.0	1.9		8.6	5.4			9.9			5.3	
Delay (s)	33.6	15.7		37.5	21.4			34.3			29.0	
Level of Service	С	В		D	С			С			С	
Approach Delay (s)		19.3			23.1			34.3			29.0	
Approach LOS		В			С			С			С	
Intersection Summary												
HCM 2000 Control Delay			24.1	H	CM 2000	Level of	Service		С			
HCM 2000 Volume to Capac	ity ratio		0.81									
Actuated Cycle Length (s)			67.2		um of lost				19.5			
Intersection Capacity Utilizat	ion		64.7%	IC	U Level o	of Service			С			
Analysis Period (min)			15									
c Critical Lane Group												

	•	-	•	1		•	1	1	1	1	1	1
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Volume (veh/h)	1	675	5	0	505	88	0	0	0	99	0	9
Future Volume (Veh/h)	1	675	5	0	505	88	0	0	0	99	0	9
Sign Control		Free			Free			Stop			Stop	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	1	734	5	0	549	96	0	0	0	108	0	10
Pedestrians												
Lane Width (ft)												
Walking Speed (ft/s)												
Percent Blockage												
Right turn flare (veh)												
Median type		None			None							
Median storage veh)												
Upstream signal (ft)		678										
pX, platoon unblocked				0.75			0.75	0.75	0.75	0.75	0.75	
vC, conflicting volume	645			739			1346	1384	736	1336	1338	597
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	645			480			1293	1344	477	1280	1283	597
tC, single (s)	4.1			4.1			7.1	6.5	6.2	7.1	6.5	6.2
tC, 2 stage (s)												
tF (s)	2.2			2.2			3.5	4.0	3.3	3.5	4.0	3.3
p0 queue free %	100			100			100	100	100	0	100	98
cM capacity (veh/h)	935			800			103	114	442	107	124	505
Direction, Lane #	EB 1	WB 1	NB 1	SB 1								
Volume Total	740	645	0	118								
Volume Left	1	0	0	108								
Volume Right	5	96	0	10								
cSH	935	800	1700	115								
Volume to Capacity	0.00	0.00	0.00	1.03								
Queue Length 95th (ft)	0	0	0	172								
Control Delay (s)	0.0	0.0	0.0	164.0								
Lane LOS	Α		Α	F								
Approach Delay (s)	0.0	0.0	0.0	164.0								
Approach LOS			Α	F								
Intersection Summary												
Average Delay			12.9									
Intersection Capacity Utiliza	ition		49.3%	IC	U Level c	of Service			Α			
Analysis Period (min)			15									

Lane Configurations		۶	-	•	1		•	1	1	1	1	1	1
Traffic Volume (vehrh) 5 5 5 5 10 5 80 5 265 18 80 195 Fiture Volume (Vehrh) 5 5 5 5 10 5 80 5 265 18 80 195 Fiture Volume (Vehrh) 5 5 5 5 10 5 80 5 265 18 80 195 Sign Control Stop Stop Stop Stop Stop Stop Stop Stop	Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Traffic Volume (veh/h) 5 5 5 5 10 5 80 5 265 18 80 195 Fluture Volume (veh/h) 5 5 5 5 10 5 80 5 265 18 80 195 Sign Control Stop Stop Free Grade 0 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0	Lane Configurations		4			4			4			4	
Sign Control Stop	Traffic Volume (veh/h)	5		5	10		80	5	265	18	80	195	5
Crade		5	5	5	10	5	80	5	265	18	80	195	5
Peak Hour Factor 0.92 0.	Sign Control		Stop			Stop			Free			Free	
Hourly flow rate (vph) 5 5 5 5 5 11 5 87 5 288 20 87 212	Grade		0%			0%			0%			0%	
Pedestrians Lane Width (ff)	Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Lane Width (ft) Walking Speed (ft/s) Percent Blockage Right turn flare (veh) Median storage veh) Upstream signal (ft) Dystream signal (ft) VC2, platoon unblocked VC2, conflicting volume VC3, stage 1 conf vol VC2, stage 2 conf vol VC3, stage 1 conf vol VC4, stage 1 conf vol VC5, stage 2 conf vol VC6, stage 2 conf vol VC7, stage 1 conf vol VC8, stage 2 conf vol VC9, stage 3 conf vol VC9, stage 4 conf vol VC9, stage 5 conf vol VC9, stage 6 conf vol VC9, stage 6 conf vol VC9, stage 7 conf vol VC9, stage 8 conf vol VC9, stage 1 conf vol VC9, stage 2 conf vol VC9, stage 1 conf vol VC9, stage 2 conf vol VC9, stage 1 conf vol VC9, stage 2 conf vol VC9, stage 2 conf vol VC9, stage 1 conf vol VC9, stage 2	Hourly flow rate (vph)	5	5	5	11	5	87	5	288	20	87	212	5
Walking Speed (ft/s) Percent Blockage Right turn flare (veh) Median storage veh) Upstream signal (ft) Dystream signal (ft) VC, conflicting volume VC, conflictin	Pedestrians												
Percent Blockage Right furn flare (veh) Median type None None Median type None None Median storage veh Upstream signal (ft) 757	Lane Width (ft)												
Right turn flare (veh) Median type None None None	Walking Speed (ft/s)												
Median type None None None Median storage veh													
Median type None None None Median storage veh	Right turn flare (veh)												
Median storage veh) Upstream signal (ft) 757 pX, platoon unblocked vC, conflicting volume 786 706 214 704 699 298 217 308 vC1, stage 1 conf vol vCQ, unblocked vol 786 706 214 704 699 298 217 308 tC, single (s) 7.1 6.5 6.2 7.1 6.5 6.2 4.1 4.2 tC, 2 stage (s) tF (s) 3.5 4.0 3.3 3.5 4.0 3.3 2.2 2.3 p0 queue free % 98 99 99 97 99 88 100 93 cM capacity (veh/h) 257 336 831 325 335 739 1347 1214 Direction, Lane # EB 1 WB 1 NB 1 SB 1 SB 1 Volume Left 5 11 5 87 20 5 5 5 5 4 4 4 4 4 4 4 4									None			None	
Upstream signal (ft)													
pX, platoon unblocked vC, conflicting volume 786 706 214 704 699 298 217 308 vC1, stage 1 conf vol vC2, stage 2 conf vol vC2, stage 2 conf vol vCu, unblocked vol 786 706 214 704 699 298 217 308 tC, single (s) 7.1 6.5 6.2 7.1 6.5 6.2 4.1 4.2 tC, 2 stage (s) tF (s) 3.5 4.0 3.3 3.5 4.0 3.3 2.2 2.3 p0 queue free % 98 99 99 97 99 88 100 93 cM capacity (veh/h) 257 336 831 325 335 739 1347 1214 Direction, Lane # EB 1 WB 1 NB 1 SB 1									757				
vC, conflicting volume 786 706 214 704 699 298 217 308 vC1, stage 1 conf vol vC2, stage 2 conf vol vCu, unblocked vol 786 706 214 704 699 298 217 308 tC, single (s) 7.1 6.5 6.2 7.1 6.5 6.2 4.1 4.2 tC, 2 stage (s) tF (s) 3.5 4.0 3.3 3.5 4.0 3.3 2.2 2.3 p0 queue free % 98 99 99 97 99 88 100 93 cM capacity (veh/h) 257 336 831 325 335 739 1347 1214 Direction, Lane # EB1 WB1 NB1 SB1													
VC1, stage 1 conf vol VC2, stage 2 conf vol VCU, unblocked vol 786 706 214 704 699 298 217 308 tC, single (s) 7.1 6.5 6.2 7.1 6.5 6.2 4.1 4.2 tC, 2 stage (s) tF (s) 3.5 4.0 3.3 3.5 4.0 3.3 2.2 2.3 p0 queue free % 98 99 99 97 99 88 100 93 cM capacity (veh/h) 257 336 831 325 335 739 1347 1214 Direction, Lane # EB 1 WB 1 NB 1 SB 1 Volume Total 15 103 313 304 Volume Left 5 11 5 87 Volume Right 5 87 20 5 cSH 371 619 1347 1214 Volume to Capacity 0.04 0.17 0.00 0.07 Queue Length 95th (ft) 3 15 0 6 Control Delay (s) 15.1 12.0 0.2 2.8 Lane LOS C B A A Approach Delay (s) 15.1 12.0 0.2 2.8 Approach LOS C B Intersection Summary Average Delay 3.2 Intersection Capacity Utilization 46.4% ICU Level of Service A		786	706	214	704	699	298	217			308		
vC2, stage 2 conf vol vCu, unblocked vol 786 706 214 704 699 298 217 308 tC, single (s) 7.1 6.5 6.2 7.1 6.5 6.2 4.1 4.2 tC, 2 stage (s) tF (s) 3.5 4.0 3.3 3.5 4.0 3.3 2.2 2.3 p0 queue free % 98 99 99 97 99 88 100 93 cM capacity (veh/h) 257 336 831 325 335 739 1347 1214 Direction, Lane # EB 1 WB 1 NB 1 SB 1 SB 1 Volume Collage (s) 1347 1214 Volume Total 15 103 313 304 Volume Right 5 87 20 5 87 20 5 88 7 20 5 88 7 20 5 88 7 20 5 88 7 20 2 2 8													
vCu, unblocked vol 786 706 214 704 699 298 217 308 tC, single (s) 7.1 6.5 6.2 7.1 6.5 6.2 4.1 4.2 tC, 2 stage (s) tF (s) 3.5 4.0 3.3 3.5 4.0 3.3 2.2 2.3 p0 queue free % 98 99 99 97 99 88 100 93 cM capacity (veh/h) 257 336 831 325 335 739 1347 1214 Direction, Lane # EB 1 WB 1 NB 1 SB													
tC, single (s) 7.1 6.5 6.2 7.1 6.5 6.2 4.1 4.2 tC, 2 stage (s) tF (s) 3.5 4.0 3.3 3.5 4.0 3.3 2.2 2.3 p0 queue free % 98 99 99 97 99 88 100 93 cM capacity (veh/h) 257 336 831 325 335 739 1347 1214 Direction, Lane # EB 1 WB 1 NB 1 SB 1 Volume Total 15 103 313 304 Volume Left 5 11 5 87 Volume Right 5 87 20 5 cSH 371 619 1347 1214 Volume to Capacity 0.04 0.17 0.00 0.07 Queue Length 95th (ft) 3 15 0 6 Control Delay (s) 15.1 12.0 0.2 2.8 Lane LOS C B A A A Approach Delay (s) 15.1 12.0 0.2 2.8 Intersection Summary Average Delay Intersection Capacity Utilization 46.4% ICU Level of Service A		786	706	214	704	699	298	217			308		
tC, 2 stage (s) tF (s)													
tF (s)				<u> </u>			<u> </u>						
p0 queue free % 98 99 99 97 99 88 100 93 cM capacity (veh/h) 257 336 831 325 335 739 1347 1214 Direction, Lane # EB 1 WB 1 NB 1 SB 1		3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.3		
CM capacity (veh/h) 257 336 831 325 335 739 1347 1214 Direction, Lane # EB 1 WB 1 NB 1 SB 1 Volume Total 15 103 313 304 Volume Left 5 11 5 87 Volume Right 5 87 20 5 cSH 371 619 1347 1214 Volume to Capacity 0.04 0.17 0.00 0.07 Queue Length 95th (ft) 3 15 0 6 Control Delay (s) 15.1 12.0 0.2 2.8 Lane LOS C B A A Approach Delay (s) 15.1 12.0 0.2 2.8 Approach LOS C B A A Average Delay 3.2 Intersection Capacity Utilization 46.4% ICU Level of Service A													
Direction, Lane # EB 1 WB 1 NB 1 SB 1													
Volume Total 15 103 313 304 Volume Left 5 11 5 87 Volume Right 5 87 20 5 cSH 371 619 1347 1214 Volume to Capacity 0.04 0.17 0.00 0.07 Queue Length 95th (ft) 3 15 0 6 Control Delay (s) 15.1 12.0 0.2 2.8 Lane LOS C B A A Approach Delay (s) 15.1 12.0 0.2 2.8 Approach LOS C B Intersection Summary Average Delay Intersection Capacity Utilization 46.4% ICU Level of Service A							7 00	.0					
Volume Left 5 11 5 87 Volume Right 5 87 20 5 cSH 371 619 1347 1214 Volume to Capacity 0.04 0.17 0.00 0.07 Queue Length 95th (ft) 3 15 0 6 Control Delay (s) 15.1 12.0 0.2 2.8 Lane LOS C B A A Approach Delay (s) 15.1 12.0 0.2 2.8 Approach LOS C B A A Intersection Summary 3.2 ICU Level of Service A													
Volume Right 5 87 20 5 cSH 371 619 1347 1214 Volume to Capacity 0.04 0.17 0.00 0.07 Queue Length 95th (ft) 3 15 0 6 Control Delay (s) 15.1 12.0 0.2 2.8 Lane LOS C B A A Approach Delay (s) 15.1 12.0 0.2 2.8 Approach LOS C B Intersection Summary Average Delay Intersection Capacity Utilization 46.4% ICU Level of Service A													
CSH 371 619 1347 1214 Volume to Capacity 0.04 0.17 0.00 0.07 Queue Length 95th (ft) 3 15 0 6 Control Delay (s) 15.1 12.0 0.2 2.8 Lane LOS C B A A Approach Delay (s) 15.1 12.0 0.2 2.8 Approach LOS C B Intersection Summary Average Delay Intersection Capacity Utilization 46.4% ICU Level of Service A													
Volume to Capacity 0.04 0.17 0.00 0.07 Queue Length 95th (ft) 3 15 0 6 Control Delay (s) 15.1 12.0 0.2 2.8 Lane LOS C B A A Approach Delay (s) 15.1 12.0 0.2 2.8 Approach LOS C B Intersection Summary Average Delay Intersection Capacity Utilization 46.4% ICU Level of Service A													
Queue Length 95th (ft) 3 15 0 6 Control Delay (s) 15.1 12.0 0.2 2.8 Lane LOS C B A A Approach Delay (s) 15.1 12.0 0.2 2.8 Approach LOS C B Intersection Summary Average Delay 3.2 Intersection Capacity Utilization 46.4% ICU Level of Service A													
Control Delay (s) 15.1 12.0 0.2 2.8 Lane LOS C B A A Approach Delay (s) 15.1 12.0 0.2 2.8 Approach LOS C B Intersection Summary Average Delay 3.2 Intersection Capacity Utilization 46.4% ICU Level of Service A													
Lane LOS C B A A Approach Delay (s) 15.1 12.0 0.2 2.8 Approach LOS C B Intersection Summary Average Delay 3.2 Intersection Capacity Utilization 46.4% ICU Level of Service A													
Approach Delay (s) 15.1 12.0 0.2 2.8 Approach LOS C B Intersection Summary Average Delay 3.2 Intersection Capacity Utilization 46.4% ICU Level of Service A													
Approach LOS C B Intersection Summary Average Delay 3.2 Intersection Capacity Utilization 46.4% ICU Level of Service A													
Intersection Summary Average Delay Intersection Capacity Utilization 3.2 Intersection Capacity Utilization 46.4% ICU Level of Service A				0.2	2.8								
Average Delay 3.2 Intersection Capacity Utilization 46.4% ICU Level of Service A	Approach LOS	С	В										
Intersection Capacity Utilization 46.4% ICU Level of Service A	Intersection Summary												
				3.2									
Analysis Period (min) 15	Intersection Capacity Utiliza	tion		46.4%	IC	CU Level	of Service			Α			
10	Analysis Period (min)			15									

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Volume (veh/h)	5	680	5	0	509	5	0	0	0	5	0	7
Future Volume (Veh/h)	5	680	5	0	509	5	0	0	0	5	0	7
Sign Control		Free			Free			Stop			Stop	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.95	0.95	0.95	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	5	716	5	0	553	5	0	0	0	5	0	8
Pedestrians												
Lane Width (ft)												
Walking Speed (ft/s)												
Percent Blockage												
Right turn flare (veh)												
Median type		None			None							
Median storage veh)												
Upstream signal (ft)		371										
pX, platoon unblocked				0.75			0.75	0.75	0.75	0.75	0.75	
vC, conflicting volume	558			721			1292	1286	718	1284	1286	556
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	558			457			1222	1214	454	1211	1214	556
tC, single (s)	4.1			4.1			7.1	6.5	6.2	7.1	6.5	6.2
tC, 2 stage (s)												
tF (s)	2.2			2.2			3.5	4.0	3.3	3.5	4.0	3.3
p0 queue free %	100			100			100	100	100	96	100	99
cM capacity (veh/h)	1008			817			116	136	456	120	136	535
Direction, Lane #	EB 1	WB 1	NB 1	SB 1								
Volume Total	726	558	0	13								
Volume Left	5	0	0	5								
Volume Right	5	5	0	8								
cSH	1008	817	1700	229								
Volume to Capacity	0.00	0.00	0.00	0.06								
Queue Length 95th (ft)	0	0	0	4								
Control Delay (s)	0.1	0.0	0.0	21.7								
Lane LOS	Α		Α	С								
Approach Delay (s)	0.1	0.0	0.0	21.7								
Approach LOS			Α	С								
Intersection Summary												
Average Delay			0.3									
Intersection Capacity Utiliza	ation		50.1%	IC	U Level	of Service			Α			
Analysis Period (min)			15									

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Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	Y		ĵ.			र्स
Traffic Volume (veh/h)	4	8	86	3	2	104
Future Volume (Veh/h)	4	8	86	3	2	104
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	4	9	93	3	2	113
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	212	94			96	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	212	94			96	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)						
tF (s)	3.5	3.3			2.2	
p0 queue free %	99	99			100	
cM capacity (veh/h)	776	962			1498	
Direction, Lane #	WB 1	NB 1	SB 1			
Volume Total	13	96	115			
Volume Left	4	0	2			
Volume Right	9	3	0			
cSH	896	1700	1498			
Volume to Capacity	0.01	0.06	0.00			
Queue Length 95th (ft)	1	0	0			
Control Delay (s)	9.1	0.0	0.1			
Lane LOS	A		Α			
Approach Delay (s)	9.1	0.0	0.1			
Approach LOS	A					
Intersection Summary						
Average Delay			0.6			
Intersection Capacity Utili	zation		17.1%	IC	U Level o	of Service
Analysis Period (min)			15			
,						

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Movement	EBL	EBR	NBL	NBT	SBT	SBR		
Lane Configurations	Y			4	1			
Traffic Volume (veh/h)	4	12	9	345	268	2		
Future Volume (Veh/h)	4	12	9	345	268	2		
Sign Control	Stop			Free	Free			
Grade	0%			0%	0%			
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92		
Hourly flow rate (vph)	4	13	10	375	291	2		
Pedestrians								
Lane Width (ft)								
Walking Speed (ft/s)								
Percent Blockage								
Right turn flare (veh)								
Median type				None	None			
Median storage veh)								
Upstream signal (ft)				1231				
pX, platoon unblocked								
vC, conflicting volume	687	292	293					
vC1, stage 1 conf vol								
vC2, stage 2 conf vol								
vCu, unblocked vol	687	292	293					
tC, single (s)	6.4	6.2	4.1					
tC, 2 stage (s)								
tF (s)	3.5	3.3	2.2					
p0 queue free %	99	98	99					
cM capacity (veh/h)	409	747	1269					
Direction, Lane #	EB 1	NB 1	SB 1					
Volume Total	17	385	293					
Volume Left	4	10	0					
Volume Right	13	0	2					
cSH	626	1269	1700					
Volume to Capacity	0.03	0.01	0.17					
Queue Length 95th (ft)	2	1	0					
Control Delay (s)	10.9	0.3	0.0					
Lane LOS	В	Α						
Approach Delay (s)	10.9	0.3	0.0					
Approach LOS	В							
Intersection Summary								
Average Delay			0.4					
Intersection Capacity Utilization	on		35.4%	IC	CU Level o	of Service	Α	
Analysis Period (min)			15					

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Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	M		7			र्स
Traffic Volume (veh/h)	4	4	93	1	1	102
Future Volume (Veh/h)	4	4	93	1	1	102
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	4	4	101	1	1	111
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	214	102			102	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	214	102			102	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)						
tF (s)	3.5	3.3			2.2	
p0 queue free %	99	100			100	
cM capacity (veh/h)	773	954			1490	
	WB 1	NB 1	SB 1			
Direction, Lane #						
Volume Total	8	102	112			
Volume Left	4	0	1			
Volume Right	4	1700	0			
cSH	854	1700	1490			
Volume to Capacity	0.01	0.06	0.00			
Queue Length 95th (ft)	1	0	0			
Control Delay (s)	9.3	0.0	0.1			
Lane LOS	A		A			
Approach Delay (s)	9.3	0.0	0.1			
Approach LOS	А					
Intersection Summary						
Average Delay			0.4			
Intersection Capacity Utiliz	zation		16.2%	IC	U Level c	f Service
Analysis Period (min)			15			

	•	•	1	1	1	1
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	Y		F)			र्स
Traffic Volume (veh/h)	1	21	337	12	11	269
Future Volume (Veh/h)	1	21	337	12	11	269
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	1	23	366	13	12	292
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type			None			None
Median storage veh)						
Upstream signal (ft)			1314			
pX, platoon unblocked						
vC, conflicting volume	688	372			379	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	688	372			379	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)						
tF (s)	3.5	3.3			2.2	
p0 queue free %	100	97			99	
cM capacity (veh/h)	408	673			1179	
Direction, Lane #	WB 1	NB 1	SB 1			
Volume Total	24	379	304			
Volume Left	1	0	12			
Volume Right	23	13	0			
cSH	656	1700	1179			
Volume to Capacity	0.04	0.22	0.01			
Queue Length 95th (ft)	3	0.22	1			
Control Delay (s)	10.7	0.0	0.4			
Lane LOS	В	0.0	0.4 A			
Approach Delay (s)	10.7	0.0	0.4			
Approach LOS	В	0.0	U. 4			
	D					
Intersection Summary						
Average Delay			0.5			
Intersection Capacity Utiliz	ation		33.1%	IC	U Level c	f Service
Analysis Period (min)			15			

	•	-	•	+	4	t	1	ļ		
Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT	Ø2	
Lane Configurations	1	1	1	B		4		4		
Traffic Volume (vph)	98	559	85	568	95	95	33	100		
Future Volume (vph)	98	559	85	568	95	95	33	100		
Lane Group Flow (vph)	102	629	90	609	0	290	0	378		
Turn Type	Prot	NA	Prot	NA	Perm	NA	Perm	NA		
Protected Phases	1	12	3	23		4		4	2	
Permitted Phases					4		4			
Detector Phase	1	12	3	23	4	4	4	4		
Switch Phase										
Minimum Initial (s)	5.0		5.0		5.0	5.0	5.0	5.0	5.0	
Minimum Split (s)	11.0		11.0		11.0	11.0	11.0	11.0	9.5	
Total Split (s)	13.0		11.0		26.0	26.0	26.0	26.0	20.0	
Total Split (%)	18.6%		15.7%		37.1%	37.1%	37.1%	37.1%	29%	
Yellow Time (s)	4.0		4.0		4.0	4.0	4.0	4.0	3.5	
All-Red Time (s)	1.0		1.0		1.0	1.0	1.0	1.0	1.0	
Lost Time Adjust (s)	0.0		0.0			0.0		0.0		
Total Lost Time (s)	5.0		5.0			5.0		5.0		
Lead/Lag	Lead		Lead		Lag	Lag	Lag	Lag	Lag	
Lead-Lag Optimize?										
Recall Mode	None		None		None	None	None	None	Max	
v/c Ratio	0.50	0.80	0.62	0.86		0.91		0.71		
Control Delay	38.0	28.1	51.4	35.0		54.8		22.9		
Queue Delay	0.0	0.0	0.0	0.0		0.0		0.0		
Total Delay	38.0	28.1	51.4	35.0		54.8		22.9		
Queue Length 50th (ft)	42	233	38	239		104		95		
Queue Length 95th (ft)	87	#418	#102	#434		#238		185		
Internal Link Dist (ft)		572		291		483		677		
Turn Bay Length (ft)	65		80							
Base Capacity (vph)	206	783	146	706		359		590		
Starvation Cap Reductn	0	0	0	0		0		0		
Spillback Cap Reductn	0	0	0	0		0		0		
Storage Cap Reductn	0	0	0	0		0		0		
Reduced v/c Ratio	0.50	0.80	0.62	0.86		0.81		0.64		

Intersection Summary

Cycle Length: 70

Actuated Cycle Length: 67.7

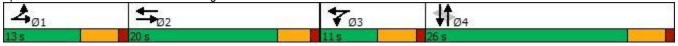
Natural Cycle: 65

Control Type: Actuated-Uncoordinated

95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

Splits and Phases: 3: Schofield Ave/Village St & W Main St



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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	1		7	T _a			4			4	
Traffic Volume (vph)	98	559	45	85	568	5	95	95	80	33	100	214
Future Volume (vph)	98	559	45	85	568	5	95	95	80	33	100	214
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width	11	12	12	10	11	11	14	14	14	12	12	12
Grade (%)		-4%			0%			2%			0%	
Total Lost time (s)	5.0	5.0		5.0	4.5			5.0			5.0	
Lane Util. Factor	1.00	1.00		1.00	1.00			1.00			1.00	
Frt	1.00	0.99		1.00	1.00			0.96			0.92	
Flt Protected	0.95	1.00		0.95	1.00			0.98			1.00	
Satd. Flow (prot)	1745	1879		1652	1798			1838			1716	
FIt Permitted	0.95	1.00		0.95	1.00			0.58			0.95	
Satd. Flow (perm)	1745	1879		1652	1798			1086			1636	
Peak-hour factor, PHF	0.96	0.96	0.96	0.94	0.94	0.94	0.93	0.93	0.93	0.92	0.92	0.92
Adj. Flow (vph)	102	582	47	90	604	5	102	102	86	36	109	233
RTOR Reduction (vph)	0	4	0	0	1	0	0	22	0	0	86	0
Lane Group Flow (vph)	102	625	0	90	608	0	0	268	0	0	292	0
Heavy Vehicles (%)	2%	2%	2%	2%	2%	2%	3%	3%	3%	1%	1%	1%
Turn Type	Prot	NA		Prot	NA		Perm	NA		Perm	NA	
Protected Phases	1	12		3	23			4			4	
Permitted Phases							4			4		
Actuated Green, G (s)	8.0	28.5		6.0	26.0			18.6			18.6	
Effective Green, g (s)	8.0	28.5		6.0	26.0			18.6			18.6	
Actuated g/C Ratio	0.12	0.42		0.09	0.38			0.28			0.28	
Clearance Time (s)	5.0			5.0				5.0			5.0	
Vehicle Extension (s)	3.0			3.0				3.0			3.0	
Lane Grp Cap (vph)	206	792		146	691			298			450	
v/s Ratio Prot	0.06	c0.33		0.05	c0.34							
v/s Ratio Perm								c0.25			0.18	
v/c Ratio	0.50	0.79		0.62	0.88			0.90			0.65	
Uniform Delay, d1	27.9	16.9		29.7	19.4			23.6			21.6	
Progression Factor	1.00	1.00		1.00	1.00			1.00			1.00	
Incremental Delay, d2	1.9	5.3		7.5	12.6			27.4			3.2	
Delay (s)	29.8	22.2		37.2	31.9			51.0			24.9	
Level of Service	С	С		D	С			D			С	
Approach Delay (s)		23.3			32.6			51.0			24.9	
Approach LOS		С			С			D			С	
Intersection Summary												
HCM 2000 Control Delay			30.5	H	CM 2000	Level of S	Service		С			
HCM 2000 Volume to Capa	city ratio		0.99									
Actuated Cycle Length (s)			67.6		um of lost				19.5			
Intersection Capacity Utiliza	ation		87.5%	IC	CU Level o	of Service			Е			
Analysis Period (min)			15									
c Critical Lane Group												

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Volume (veh/h)	4	650	10	0	660	98	0	0	0	68	0	2
Future Volume (Veh/h)	4	650	10	0	660	98	0	0	0	68	0	2
Sign Control		Free			Free			Stop			Stop	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.92	0.92	0.92	0.96	0.96	0.96	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	4	707	11	0	688	102	0	0	0	74	0	2
Pedestrians												
Lane Width (ft)												
Walking Speed (ft/s)												
Percent Blockage												
Right turn flare (veh)												
Median type		None			None							
Median storage veh)												
Upstream signal (ft)		678										
pX, platoon unblocked				0.70			0.70	0.70	0.70	0.70	0.70	
vC, conflicting volume	790			718			1462	1510	712	1460	1465	739
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	790			388			1445	1515	380	1442	1450	739
tC, single (s)	4.1			4.1			7.1	6.5	6.2	7.2	6.6	6.3
tC, 2 stage (s)												
tF (s)	2.2			2.2			3.5	4.0	3.3	3.6	4.1	3.4
p0 queue free %	100			100			100	100	100	2	100	100
cM capacity (veh/h)	830			823			77	84	472	75	89	409
Direction, Lane #	EB 1	WB 1	NB 1	SB 1								
Volume Total	722	790	0	76								
Volume Left	4	0	0	74								
Volume Right	11	102	0	2								
cSH	830	823	1700	77								
Volume to Capacity	0.00	0.00	0.00	0.99								
Queue Length 95th (ft)	0	0	0	132								
Control Delay (s)	0.1	0.0	0.0	194.0								
Lane LOS	Α		Α	F								
Approach Delay (s)	0.1	0.0	0.0	194.0								
Approach LOS			Α	F								
Intersection Summary												
Average Delay			9.3									
Intersection Capacity Utiliza	ation		51.2%	IC	U Level o	of Service			Α			
Analysis Period (min)			15									

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Volume (veh/h)	5	5	15	7	5	85	5	180	13	55	325	10
Future Volume (Veh/h)	5	5	15	7	5	85	5	180	13	55	325	10
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	5	5	16	8	5	92	5	196	14	60	353	11
Pedestrians												
Lane Width (ft)												
Walking Speed (ft/s)												
Percent Blockage												
Right turn flare (veh)												
Median type								None			None	
Median storage veh)												
Upstream signal (ft)								757				
pX, platoon unblocked												
vC, conflicting volume	786	698	358	710	697	203	364			210		
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	786	698	358	710	697	203	364			210		
tC, single (s)	7.2	6.6	6.3	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)												
tF (s)	3.6	4.1	3.4	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	98	99	98	98	99	89	100			96		
cM capacity (veh/h)	253	335	664	325	349	840	1195			1367		
Direction, Lane #	EB 1	WB 1	NB 1	SB 1								
Volume Total	26	105	215	424								
Volume Left	5	8	5	60								
Volume Right	16	92	14	11								
cSH	442	707	1195	1367								
Volume to Capacity	0.06	0.15	0.00	0.04								
Queue Length 95th (ft)	5	13	0.00	3								
Control Delay (s)	13.6	11.0	0.2	1.5								
Lane LOS	В	В	Α	Α								
Approach Delay (s)	13.6	11.0	0.2	1.5								
Approach LOS	13.0 B	В	0.2	1.0								
Intersection Summary												
			2.8									
Average Delay	ation		47.8%	10	'III ovole	of Service			Λ			
Intersection Capacity Utiliza	auOH			IC	O Level (oelvice			Α			
Analysis Period (min)			15									

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Volume (veh/h)	5	657	5	5	657	5	5	5	5	0	0	1
Future Volume (Veh/h)	5	657	5	5	657	5	5	5	5	0	0	1
Sign Control		Free			Free			Stop			Stop	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.92	0.92	0.92	0.97	0.97	0.97	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	5	714	5	5	677	5	5	5	5	0	0	1
Pedestrians												
Lane Width (ft)												
Walking Speed (ft/s)												
Percent Blockage												
Right turn flare (veh)												
Median type		None			None							
Median storage veh)												
Upstream signal (ft)		371										
pX, platoon unblocked				0.70			0.70	0.70	0.70	0.70	0.70	
vC, conflicting volume	682			719			1417	1418	716	1424	1418	680
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	682			388			1382	1384	384	1391	1384	680
tC, single (s)	4.1			4.1			7.1	6.5	6.2	7.1	6.5	6.2
tC, 2 stage (s)												
tF (s)	2.2			2.2			3.5	4.0	3.3	3.5	4.0	3.3
p0 queue free %	99			99			94	95	99	100	100	100
cM capacity (veh/h)	911			822			85	101	469	80	101	455
Direction, Lane #	EB 1	WB 1	NB 1	SB 1								
Volume Total	724	687	15	1								
Volume Left	5	5	5	0								
Volume Right	5	5	5	1								
cSH	911	822	126	455								
Volume to Capacity	0.01	0.01	0.12	0.00								
Queue Length 95th (ft)	0	0	10	0								
Control Delay (s)	0.1	0.2	37.4	12.9								
Lane LOS	Α	Α	Е	В								
Approach Delay (s)	0.1	0.2	37.4	12.9								
Approach LOS			Е	В								
Intersection Summary												
Average Delay			0.6									
Intersection Capacity Utiliza	ation		50.0%	IC	U Level	of Service			Α			
Analysis Period (min)			15									

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Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	Y		F)			स
Traffic Volume (veh/h)	3	5	94	8	6	68
Future Volume (Veh/h)	3	5	94	8	6	68
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	3	5	102	9	7	74
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	194	106			111	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	194	106			111	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)						
tF (s)	3.5	3.3			2.2	
p0 queue free %	100	99			100	
cM capacity (veh/h)	791	948			1479	
Direction, Lane #	WB 1	NB 1	SB 1			
Volume Total	8	111	81			
Volume Left	3	0	7			
Volume Right	5	9	0			
cSH	882	1700	1479			
Volume to Capacity	0.01	0.07	0.00			
Queue Length 95th (ft)	1	0	0			
Control Delay (s)	9.1	0.0	0.7			
Lane LOS	A	0.0	A			
Approach Delay (s)	9.1	0.0	0.7			
Approach LOS	A	0.0	0.1			
Intersection Summary						
Average Delay			0.6			
Intersection Capacity Utiliz	zation		18.5%	IC	ا ا ا معما د	of Service
Analysis Period (min)	Lauon		15.5%	10	O LEVEL	JI OCI VICE
Analysis Fellou (IIIII)			10			

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Movement	EBL	EBR	NBL	NBT	SBT	SBR	
Lane Configurations	Y			र्स	T _P		
Traffic Volume (veh/h)	2	11	6	264	379	10	
Future Volume (Veh/h)	2	11	6	264	379	10	
Sign Control	Stop			Free	Free		
Grade	0%			0%	0%		
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	
Hourly flow rate (vph)	2	12	7	287	412	11	
Pedestrians							
Lane Width (ft)							
Walking Speed (ft/s)							
Percent Blockage							
Right turn flare (veh)							
Median type				None	None		
Median storage veh)							
Upstream signal (ft)				1231			
pX, platoon unblocked							
vC, conflicting volume	718	418	423				
vC1, stage 1 conf vol							
vC2, stage 2 conf vol							
vCu, unblocked vol	718	418	423				
tC, single (s)	6.4	6.2	4.1				
tC, 2 stage (s)							
tF (s)	3.5	3.3	2.2				
p0 queue free %	99	98	99				
cM capacity (veh/h)	393	635	1136				
Direction, Lane #	EB 1	NB 1	SB 1				
Volume Total	14	294	423				
Volume Left	2	7	0				
Volume Right	12	0	11				
cSH	584	1136	1700				
Volume to Capacity	0.02	0.01	0.25				
Queue Length 95th (ft)	2	0.01	0.20				
Control Delay (s)	11.3	0.3	0.0				
Lane LOS	В	Α	0.0				
Approach Delay (s)	11.3	0.3	0.0				
Approach LOS	В	0.0	0.0				
	U						
Intersection Summary							
Average Delay	.,		0.3				
Intersection Capacity Utiliza	ition		30.6%	IC	CU Level c	t Service	
Analysis Period (min)			15				

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Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	Y		1			र्स
Traffic Volume (veh/h)	3	3	95	4	2	71
Future Volume (Veh/h)	3	3	95	4	2	71
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	3	3	103	4	2	77
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	186	105			107	
vC1, stage 1 conf vol	100	100			107	
vC2, stage 2 conf vol						
vCu, unblocked vol	186	105			107	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)	0.7	0.2			7.1	
tF (s)	3.5	3.3			2.2	
p0 queue free %	100	100			100	
cM capacity (veh/h)	802	949			1484	
					1707	
Direction, Lane #	WB 1	NB 1	SB 1			
Volume Total	6	107	79			
Volume Left	3	0	2			
Volume Right	3	4	0			
cSH	870	1700	1484			
Volume to Capacity	0.01	0.06	0.00			
Queue Length 95th (ft)	1	0	0			
Control Delay (s)	9.2	0.0	0.2			
Lane LOS	Α		Α			
Approach Delay (s)	9.2	0.0	0.2			
Approach LOS	Α					
Intersection Summary						
Average Delay			0.4			
Intersection Capacity Utiliz	ration		15.3%	IC	U Level c	f Service
Analysis Period (min)	.auon		15.57	10	O LOVOI C	i Oci vicc
Alialysis Feliou (IIIIII)			10			

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Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	Y		1,			र्स
Traffic Volume (veh/h)	12	18	264	2	22	377
Future Volume (Veh/h)	12	18	264	2	22	377
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	13	20	287	2	24	410
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type			None			None
Median storage veh)						
Upstream signal (ft)			1314			
pX, platoon unblocked						
vC, conflicting volume	746	288			289	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	746	288			289	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)						
tF (s)	3.5	3.3			2.2	
p0 queue free %	97	97			98	
cM capacity (veh/h)	374	751			1273	
Direction, Lane #	WB 1	NB 1	SB 1			
Volume Total	33	289	434			
Volume Left	13	0	24			
Volume Right	20	2	0			
cSH	537	1700	1273			
Volume to Capacity	0.06	0.17	0.02			
Queue Length 95th (ft)	5	0	1			
Control Delay (s)	12.1	0.0	0.6			
Lane LOS	В		Α			
Approach Delay (s)	12.1	0.0	0.6			
Approach LOS	В					
Intersection Summary						
Average Delay			0.9			
Intersection Capacity Utiliza	ation		47.8%	IC	U Level	of Service
Analysis Period (min)			15		2 20.01	. 30
raidiyolo i onou (iiiii)			10			

SUMMARY OF POTENTIAL TRAFFIC IMPROVEMENTS AROUND THE STEVENS MILL REDEVELOPMENT PROJECT RED = TO BE IMPLEMENTED BEFORE 2024. BLUE = POTENTIAL FUTURE PROJECTS ☐ Install a feedback speed sign on ☐ Widen Ardlock PI to facilitate Mill Street, ~400' upstream of safe 2-way travel the intersection ☐ Add or widen sidewalk on the ield Road north side of the roadway 8 Mill Street ☐ Narrow Mill Street to ~22' width ☐ Evaluate one-way southbound up to Flaxfield Road intersection on Ardlock Pl and direct northbound traffic to use Mill St. Requires further review. ☐ Widen sidewalk to 5' Consider closing Dunkin' Ardlock Place driveway and creating a crossconnection to the proposed site 10 driveway ond 10 12 12 ☐ Retime traffic signal timing/change signal phasing based on current traffic volumes ☐ Install an overhead flashing ☐ Reconstruct/widen Village St yellow / red signal at the approach and increase intersection separation between opposing ☐ Paint "Do not block box" left turn lanes on Main Street as 28-30 intersection markings part of a future project 32 ☐ Paint "Do not block box" intersection markings DRAFT September 24, 2021 197

MassGIS Topographic Features Basemap