

Town of Sturbridge Planning Board

Charles Blanchard, Chair Russell Chamberland Dane Labonte Michael Chisholm Jeff Adams Christopher Bouchard Susan Waters

Jean M. Bubon, Town Planner

PLANNING BOARD NOTICE OF DECISION SPECIAL PERMIT AND SITE PLAN APPROVAL

Date:

April 15, 2020

Applicant:

Heal Sturbridge, Inc.

1200 Walnut Street Newton, MA 02461

Phone:

(617)965-3500

Owner:

Old Road Realty, LLC

1 West Boylston Street Worcester, MA 01605

Engineer:

Randall Hart

VHB Engineering 99 High Street Boston, MA 02110

Parcel Information:

Assessor's Map 415-02335-660

Book 42238 Page 0283

Zoning Designation:

General Industrial District

Property Location:

660 Main Street

<u>Description of Request</u>: The applicant requests a Special Permit and Site Plan Approval as required by Chapter 31, 24, and 25 of the Sturbridge Zoning Bylaws, to co-locate an Adult Use Marijuana Establishment in the premise in which Heal, Inc. operates an Off Site Medical Marijuana Dispensary.

<u>Materials Submitted:</u> The following information was submitted as part of the Special Permit/Site Plan application on March 17, 2020:

Cover Letter from Katherine Braucher Adams, Esquire;

- A completed application for Special Permit and Site Plan Approval dated 3/3/2020;
- A 500' Offset Plan entitled "Sketch of Land in Sturbridge, Mass. Prepared for Old Road Realty, LLC." Plan date – Februar5y 25, 2020. Plan prepared by Thompson-Liston Associates, Inc. – 51 Main street, P.O. Box 570, Boylston, MA 01505-0570;
- Heal Sturbridge, Inc. Odor Control Plan;
- · Heal Sturbridge, Inc. Security Overview;
- · Heal, Inc. Building Photos;
- Heal Sturbridge, Inc. Documentation of Open Application with Cannabis Control Commission;
- A copy of the Executed Host Community Agreement between the Town of Sturbridge and Heal Sturbridge, Inc.;
- A listing of Heal Sturbridge, Inc. Officers and Board Members;
- A copy of the Commercial Lease for 660 Main Street;
- A Plan entitled "As Built Site Plan of Land in Sturbridge, Massachusetts owned by: Old Road Realty, LLC. Plan date July 10, 2019. Plan prepared by Thompson Liston Associates, Inc. – 51 Main street, P.O. Box 570, Boylston, MA 01505-0570;
- Locus Plan of Land in Sturbridge, Mass Prepared for Old Road Realty, LLC. Plan date February 25, 2020. Plan prepared by Thompson Liston Associates, Inc. – 51 Main street, P.O. Box 570, Boylston, MA 01505-0570;
- A Plan entitled "Proposed Floor Plans". Plan date February, 2018. Plan prepared by Stephen Fleshman Architect, LLC – 99 Apple Road, Brimfield, MA 01010;
- A Plan entitled "Landscape Plan-As Built Heal, Inc. 660 Main Street, Sturbridge, MA. Plan date February 2020. Plan prepared by Joseph Coan Landscape Architecture, Sturbridge, MA;
- Traffic Impact and Access Study and exhibits prepared by Matthew Kealey of VHB dated March 12, 2020;
- A document entitled "Vital Statistics, 660 Main Street;
- A document entitled "Heal Sturbridge, Inc. 660 Main Street, Narrative f Operations;
- A copy of the deed for the property;
- Full Size Plan entitled "As Built Site Plan of Land in Sturbridge, Massachusetts owned by: Old Road Realty, LLC. Plan date July 10, 2019. Plan prepared by Thompson Liston Associates, Inc. – 51 Main street, P.O. Box 570, Boylston, MA 01505-0570;
- Filing Fees
- Peer Review Fees

Additional Information Reviewed:

- Comments from Rebecca Gendreau, Conservation Agent dated March 20, 2020;
- Comments from John Marinelli, Fire Inspector dated March 20, 2020;
- · Comments from Nelson Burlingame, Building Inspector dated March 26, 2020;
- Memorandum from Thomas Ford, Chief of Police dated October 9, 2019;
- Peer Review Memo from Pare Corporation dated April 2, 2020;
- VHB Response to Peer Review Comments dated April 7, 2020;
- Peer Review Memo from Pare Corporation dated April 9, 2020.

<u>Applicable Section of Zoning By-Law</u>: Chapter 24 - Administration, Chapter 25 - Site Plan Review, and Chapter 31 - Adult Use Marijuana

Date of Meeting: April 14, 2020

<u>Members Present</u>: Charlie Blanchard, Sue Waters, Russell Chamberland, Michael Chisholm, Christopher Bouchard, Jeff Adams, and Dane Labonte.

At the Planning Board meeting of April 14, 2020, on a motion made by Christopher Bouchard, seconded by Russel Chamberland and voted 7-0; the Board voted to grant the Special Permit for an Adult Use Marijuana and approve the Site Plan as requested by the applicant. The approval was granted subject to the following conditions of approval:

- 1. All proposed operations shall be in conformance with the application and supporting documentation provided.
- 2. Operating hours must comply with the terms of the Host Community Agreement with the Town as may from time to time, be amended.

Failure to comply with all conditions stated herein, and with all related statutes and other regulatory measures, shall be deemed cause to modify or revoke this Site Plan Approval. This Site Plan Approval does not relieve the applicant or any other person of the necessity of complying with all other applicable federal, state or local statutes, bylaws or regulations.

The provisions of this Site Plan Approval shall apply and be binding upon the applicant, its employees, and all successors and assigns in interest and control.

This Site Plan Approval shall lapse one year from the date of issuance if construction or substantial use thereof has not sooner commenced. An extension of time (one year) may be granted by the Planning Board upon application by the owner/applicant prior to the expiration and upon review of the circumstances and a finding of good cause.

Approval has been limited to matters of Site Plan Review only and not to construction details. Any persons aggrieved by a decision of the Planning Board may appeal to the Superior Court in accordance with the General Laws, Chapter 40A, Section 17.

Charles Blanchard, Chair

April 16, 2020 Date Filed

cc: Randall Hart, VHB Engineering Old Road Realty, LLC

N. Burlingame, Building Inspector



STEPHEN J. BUCHBINDER ALAN J. SCHLESINGER LEONARD M. DAVIDSON A. MIRIAM JAFFE SHERMAN H. STARR, JR. JUDITH L. MELIDEO-PREBLE BARBARA D. DALLIS PAUL N. BELL KATHERINE BRAUCHER ADAMS FRANKLIN J. SCHWARZER RACHAEL C. CARVER ADAM M. SCHECTER

RECEIVED

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OFFIGE OF TOWN CLERK STURBRIDGE, MA

1200 WALNUT STREET NEWTON, MASSACHUSETTS 02461-1267 TELEPHONE (617) 965-3500 www.sab-law.com

E-Mail: kadams@sab-law.com

March 17, 2020

BY HAND

Ms. Jean Bubon Town Planner Sturbridge Town Hall 308 Main Street Sturbridge, MA 01556

Re: Petition of Heal Sturbridge, Inc./660 Main Street

Dear Ms. Bubon.

Heal Sturbridge, Inc. ("HSI") hereby applies for a special permit and site plan review for approval as an Adult Use Marijuana Establishment. The proposed facility will be located at 660 Main Street. By way of background, Heal, Inc. ("Heal") received a special permit and site plan approval on March 23, 2017 as an Offsite Medical Marijuana Dispensary ("OMMD") located in the same building at 660 Main Street. Heal's special permit recognized an agreement made by Heal with the Board of Selectmen that Heal would refrain from engaging in Adult Use sales until July of 2021. HSI is an affiliated entity to Heal, Inc¹. On March 17, 2020, the Board of Selectmen signed an Adult Use Host Community Agreement with HSI for a co-located facility at 660 Main Street. Heal will operate its approved OMMD and HSI will engage in Adult Use sales within the same building. Because HSI is a separate entity, it is not bound by the agreement made by Heal to refrain from Adult Use sales until July of 2021. Accordingly, by virtue of the executed Adult Use Host Community Agreement, HSI is eligible to apply for a special permit and site plan review immediately.

Accordingly, attached please find HSI's original special permit and site plan review application and fifteen copies of the following documents:

Special permit and site plan review application as well as a narrative outline of HSI's proposed compliance with Section 31 and the following exhibits:

- 1. 500 Foot Offset Plan prepared by Thompson-Liston Associates and dated February 25, 2020;
- 2. Odor Control Plan:
- 3 Security Overview:
- 4. Building Photos and Signage Renderings;
- Evidence of Cannabis Control Commission Application and executed Host Community Agreement; 5. 6.
- List of Managers;
- 7. Lease:
- As-built site plan dated July 10, 2019 and locus plan by Thompson-Liston Associates, Inc.; 8.
- 9. Floor Plans entitled "Proposed Floor Plans" dated February 2018 by Stephen Fleshman;
- As-Built Landscape Plan dated February 2020 prepared by Joseph Coan, RLA; 10.

¹ Heal Sturbridge, Inc. and Heal, Inc. are both wholly owned subsidiaries of TAJ Green, LLC.

SCHLESINGER AND BUCHBINDER, LLP

Town Planner Jean Bubon March 5, 2020

Page 2

- 11. Traffic Impact and Access Study and exhibits thereto prepared by Matthew Kealey of VHB dated March 12, 2020²;
- 12. Summary of Vital Statistics;
- 13. Narrative of Proposed Operations; and
- 14. Easement to New England Telephone and Telegraph Company.

Full size copies of the July 10, 2019 as-built site plans have been clipped to the end of the application. I have also enclosed (a) a CD containing electronic copies of the aforementioned documents, (b) a check in the amount of \$275.00 made payable to the Town of Sturbridge for the special permit application, (c) a check in the amount of \$100.00 made payable to the Town of Sturbridge for the site plan review (minimum payment), (d) a current certified Abutters List from the Assessor's Office and accompanying mailing labels, and (e) a Municipal Lien Certificate from the Finance Department.

HSI is hopeful that the Planning Board will grant the special permit and site plan approval for Adult Use sales to HSI. HIS's proposal has been carefully crafted to provide the Planning Board to make the required findings pursuant to Section 31.06 of the Zoning By-Law. If an approval is not granted, then Heal will return to the Planning Board at some point in the future seeking to add Adult Use sales to its approved OMMD. Such an expansion is expressly contemplated as a conversion in Chapter 31 of the Bylaws and requires only site plan review. Heal is eligible to convert in July of 2021, and potentially earlier than that if it executes a revised Medical Host Community Agreement with the Board of Selectmen. As Town Counsel Jonathan Eichman advised the Board of Selectmen on March 2 and March 5, 2020, if Heal converts in the future, the limit of two Marijuana Establishments in Sturbridge, as set forth in Chapter 31.03B of the Bylaws, would not operate to prevent the conversion, even if two other Marijuana Establishments have received special permits at that time.

Please feel free to call me if you have any questions respecting the foregoing.

Very truly yours,

Katherine Braucher Adams

KBA/mer Enclosures

cc: (By Hand, w/enclosures)

Ms. Lynne Giroud, Town Clerk

(By Hand w/out enclosures)

Mr. Jeffrey Bridges, Town Administrator

(By First Class Mail, w/enclosures)

Ms. Patricia Faass

² Per your instructions, we are submitting two hard copies of the 88-page traffic study appendix.

Heal Sturbridge, Inc./660 Main Street Narrative of Proposed Operations

HSI proposes to use an undivided portion of Heal, Inc.'s approved OMMD facility at 660 Main Street for retail sales of marijuana to customers aged 21 and over.

Appointments and Traffic Control

HIS has agreed agrees to cooperate with Town officials on traffic management to ensure that sufficient traffic control measures are in place to mitigate traffic impacts. HSI will pay for all traffic control measures reasonably required by the Town and shall also, at its own expense, employ a police detail, if deemed necessary by the Town, to manage traffic at the site of the Facility.

For at least the initial month of operation, HSI will restrict adult use sales at the Facility to only those patrons who have scheduled an appointment unless and until the Town's Board of Selectmen provides prior written consent to lift said restriction. During this initial period, HSI has agreed to limit its appointments to no more than six hundred (600) customers per day in order to control the amount of traffic on and around the site of the Facility. As a practical matter, and as reflected in the May 10, 2019 trip generation memorandum submitted by VHB, HSI anticipates approximately 340 daily trips during the week, and 412 on Saturdays. These estimates are predicated on 36 available appointments per hour at the 6 point of sale stations within the facility. Given the estimated turnover of customers every ten to fifteen minutes, HSI expects that the 27 onsite parking spaces will be more than adequate for its business. In the event that it becomes necessary to maximize the available onsite parking for customers, HSI and Heal's employees have been granted permission to park in the upper parking lot at the office park at 660 Main Street.

HSI has agreed to employ a police detail, if deemed necessary by the Town, to manage traffic at the site of the Facility during the initial operations of the facility. In addition, a staff member will be stationed outside to assist with traffic flow.

Access and Customer Flow

Patients and retail customers will be able to book an appointment directly on the company's website, and separate appointment calendar systems will be maintained for the two categories of patrons (medical and adult use). Consumers 21 years of age or older with a verified and valid, government-issued photo ID (or in possession of a Medical Use of Marijuana Program ID Card) will enter the facility through an access vestibule located adjacent to the parking lot. Once their credentials are verified, customers would enter through to the dispensary floor.

Once patrons arrive at the site they will be directed to separate check in areas. Medical cardholders will have their Medical Use of Marijuana Program ID Card verified before they enter the facility, and adult use patrons will be permitted to enter once their valid identification card has been authenticated to confirm that they are 21 years of age or older.

Once admitted into the facility, there will be a dedicated point of sale station with a private consultation area for medical cardholders. This separation will take the form of divider which creates a separate dedicated queue for medical transactions. This dedicated medical sales area will enable medical patients to receive consultation regarding medical marijuana use and our available medical cannabis products. While this queue will be reserved for medical purchases, patients are free to utilize any queue while making purchases, and are not only restricted to the medical purchase queue.

Heal and HSI will utilize Point of Sale (POS) software to virtually separate medical and adultuse operations by designating at the point of sale whether a particular marijuana product is intended for sale as a medical product or as an adult use product.

Deliveries and Storage

Deliveries for HSI and Heal will be made through the dedicated rear delivery door. Once product is carried into the building it will be inventoried in the receiving room before it is transferred to the vault. At the beginning of each day, product will be transferred from the vault to the sales floor. Products will be returned to the secure vault for storage overnight at the close of every day.



TOWN OF STURBRIDGE

PLANNING BOARD

Permit Application

For Official U	se:
Date of Receipt	t: Received By:
File Number:	Date of Approval:
Completed:	Not Completed:
☑ S _I	pecial Permit
Part A	
General Info	rmation
1.	NAME OF REGISTERED OWNER
	Old Road Realty, LLC, James Chacharone, Manager
	Address 1 West Boylston Street
	City Worcester State MA Zip Code 01605
	Telephone Non/a
	Email Addressn/a
2.	NAME OF APPLICANT/AGENT
	Heal Sturbridge, Inc ¹ ., Patricia Faass, President

¹ Heal Sturbridge, Inc. is an affiliate entity to Heal, Inc. Both entities are wholly owned subsidiaries of TAJ Green, LLC. Heal, Inc. received a special permit and site plan review in 2017 for the site which is the subject of this application. Heal, Inc. will operate an OMMD ("Offsite Medical Marijuana Dispensary") at the site once it has final approvals from the Cannabis Control Commission. Heal Sturbridge, Inc. will operate an adult use retail establishment within the same footprint. Because state regulations require that the sales of the medical and adult use transactions be accounted for separately, a separate entity (Heal Sturbridge, Inc.) has been formed for the adult use portion of the business.

	Addr	Address c/o Katherine Braucher Adams, Esq., Schlesinger and Buchbinder, LLP								
	City	Newton		State	MA	_Zip Code _	02461-1267			
	Telep	Telephone No. <u>(617) 965-3500</u>								
	Emai	l Address <u>kac</u>	lams@sab-law.	com						
3.	MATTERS RELATED TO THE APPLICATION SHOULD BE ADDRESSED TO:									
	(check one o	r more)								
	□ Own	er	$\overline{\checkmark}$	Appli	cant/Ag	gent				
4.	PROOF OF	OWNERSHIP	ACCOMPAN	YING Al	PPLICA	ATION:				
	(check one or more)									
	☑ Own	er		Appli	cant/Ag	gent				
Part B	}									
Details	s of Applicati	ion								
5.	Location of S	Subject Propert	ty							
	Municipal Address: 660 Main Street									
	Lot(s): <u>660</u>				_Plan:	Map 23				
	Assessment	Lot Number(s)	: _660							
6.	Is the subject property subject to any easements, rights-of-way, or other rights over									
	adjacent properties (i.e., mutual driveway)? Easement for pole and wire rights to New									
	England Telephone and Telegraph Company, a copy of which is attached hereto as									
	Exhibit 14.									
	☑ Yes		No							
7.	Existing use	of Property: <u>T</u>	he portion of the	he site w	hich is	the subject of	this petition			
	was developed as an OMMD in 2019 pursuant to special permit and site plan approval									
	granted to H	eal, Inc in 2017	7.							
8.	Date of cons	truction of all	existing and pro	posed by	uilding	s and structure	es on the subject			
	property: 66	0 Main Street	contains four b	uildings,	constr	ucted in 1966,	1977, 1986, and			
	2019, respec	tively.								

Services available to the subject property:	Existing	Proposed
Type of water services (i.e., municipal water or private well)	Municipal water	Municipal water
Type of sewage disposal (i.e., municipal sewage disposal or private septic system)	Municipal water	Municipal water
Type of storm drainage (i.e., sewers, ditches, swales, or other means)	Detention structure and infiltration	Detention structure and infiltration

9. Project Details

Total Gross Floor Area Total Gross Leasable Area Number of Units

	Existing	Proposed	Existing	Proposed	Existing	Proposed
Industrial						
Office						
Commercial	1696 SF	1696 SF	0	1696 SF	0	1
Institutional						
Residential						
Total	1696 SF	1696 SF	0	1696 SF	0	1

Part C Project Narrative (Must be completed by applicant or agent)

Describe the proposed project in terms of use, design elements, and construction timeframe. The proposed use is as an Adult Use Marijuana Establishment ("ME") to be co-located in the premises in which Heal, Inc. operates an Off Site Medical Marijuana Dispensary ("OMMD"), and a narrative of this proposed use is included in the applicant's submission pursuant to Chapter 31 of the Zoning By-law and hereby incorporated by reference. The design concept is a simple two story structure set into the hill side representative of a barn in a pasture. Heal, Inc. received a final certificate of occupancy for the work on June 19, 2019.

Explain how the design and layout of the development or use constitutes suitable development
without detriment to the neighborhood or to the environment.
The site was selected for the proposed use as a dispensary because of its location within the
Medical Marijuana Overlay District, and its compliance with the 500 foot buffer zone provided
for therein. The barn in a pasture concept was chosen to reflect a scale similar to the adjacent
residential properties. Recessing the structure into the hillside reduces the overall mass and helps
to reduce the amount of grading required for the site.
Describe any special processes, mitigation measures, or unique circumstances which may have a
bearing on project approval.
The applicant is providing a submission which meets the criteria set forth in Chapter 31 of the
Zoning By-laws, and which is attached hereto. In addition to the Special Permit and Site Plan
Review process in Sturbridge, the applicant will need to receive a Final Certificate of
Registration and pass a final inspection by the Massachusetts Cannabis Control Commission
prior to opening.
10. Please list any technical studies or background material being submitted to support the application.
Traffic Report prepared by Vanasse Hangen Brustlin Inc. dated December 19, 2016, updated trip
generation memorandum dated May 10, 2019.

11. Please indicate (\checkmark) if the applicant or owner has submitted any of the following applications for all or part of the subject property and complete the following chart:

Status of Other Applications Required Submitted File Number **Application** Yes No Yes No Conservation Commission (Notice of Intent or Request for Determination **√** DPW √ (Curb Cut Permit) ✓ Board of Health (Septic, food, other) ✓ **√** Zoning Board of Appeals (Special Permit, Variance) ✓ Board of Selectmen (Liquor License) Other (please list below)

	ITE PLAN CHECK LIST								
1.		•	Plan - note any non-conformance						
	YES	NO	-must give reason below	For Planning Board Use					
	\checkmark		Locus						
			North arrow						
	$\overline{\checkmark}$		Survey						
			Existing Structures						
			Existing roads and curbs						
			Contours and elevations						
			Abutters within 300 feet						
			Zone and dimensional requirements						
	$\overline{\checkmark}$		Setbacks						
Additi	onal co	mment	S:						
Additi	onal co	mment	3:						

2.	Proposed - meets zoning unless noted							
	(Propo	sed refe	ers to the locus premises to be leased to	o the applicant)				
	YES	NO	-must give reason below	For Planning Board Use				
			Lot dimensions					
	$\overline{\checkmark}$		Proposed buildings					
	$\overline{\checkmark}$		Percent building & impervious areas					
	$\overline{\checkmark}$		Sidewalks and buffer areas					
	$\overline{\checkmark}$		Streets, driveways, and access					
	$\overline{\checkmark}$		Circulation patterns					
	$\overline{\checkmark}$		Parking spaces and calculations					
	$\overline{\checkmark}$		Allowed use reference					
	$\overline{\checkmark}$		Loading areas					
	$\overline{\checkmark}$		Building mean height					
		$\overline{\checkmark}$	Dumpsters and screening	N/A				
		$\overline{\checkmark}$	Outdoor storage areas	N/A				
Additio	onal cor	mments	: 27 parking stalls are shown or	n the enclosed site plan. The applicant				
propos	es 22 of	f these s	stalls in accordance with Section 20.22	2 of the Zoning By-laws (9 stalls for				
the app	oroxima	tely 1,6	96 SF building, and 13 stalls for empl	oyees) and 5 additional stalls. Since				
the reta	ail and 1	medical	operations will take place simultaneo	usly, we are consolidating the				
operati	ions for	the pur	pose of complying with Section 20.22					
3.	Gradin	-						
	YES	NO	-must give reason below	For Planning Board Use				
	$\overline{\checkmark}$		Buffer zones and distances	<u> </u>				
	$\overline{\checkmark}$		Wetlands and vernal pools					
	$\overline{\mathbf{A}}$		Riparian features					
		$\overline{\mathbf{V}}$	Flood zones	N/A				
	$\overline{\checkmark}$		Ground water elevations					
	$\overline{\checkmark}$		Siltation fencing					
		<u> </u>	Significant species type	N/A				
			Detention and retention basins	- · · · · · ·				
	\square		Grading Plan					
	ت	_	Oracing ram					

Addi	tional co	omment	s:				
4.	Utiliti	ies					
	YES	NO	-must give reason below	For Planning Board Use			
	$\overline{\checkmark}$		Water lines and connections				
	$\overline{\checkmark}$		Hydrants and sprinklers*				
	$\overline{\checkmark}$		Sewer lines and connections				
	$\overline{\checkmark}$		Electric and wire lines				
	$\overline{\checkmark}$		Drainage structures				
	$\overline{\checkmark}$		Oil and propane tanks				
	\square		Snow storage area				
		$\overline{\checkmark}$	Public and private wells	N/A			
Addi	tional co	mment	ts: *Hydrants identified, no spr				
5.	Lands	scaping	, Lighting, and Signs				
	(specific to locus premises to be leased to the applicant not entire parcel)						
	YES	NO	-must give reason below	For Planning Board Use			
		$\overline{\mathbf{V}}$	Landscaping and calculations				
	$\overline{\checkmark}$			ion_			
	$\overline{\checkmark}$		Open space as percent of lot				
	$\overline{\checkmark}$		Sign location size and detail				
		$\overline{\checkmark}$	Geologic features	N/A			
		$\overline{\mathbf{V}}$	Dust and noise control measures	N/A			
		$\overline{\checkmark}$	Fencing permanent and temporary	N/A			
Addi	tional co	mment		niver of Section 25.07(j)1.(d) insofar as the			
			*	de (1990) requires one shade tree or street			
-			ot perimeter. Due to the site security conc	• • • • • • • • • • • • • • • • • • •			
the si	te's const	traints,	the applicant installed 10 large shade tree	es and 8 understory trees. The large shade			
trees	are locate	ed along	the driveway and within the parking lot.	These trees were located by the landscape			
archit	ect to rec	duce the	heat island effect of the pavement while	providing visual interest without			

obstructing views. The coniferous understory trees were located to provide a wind break from the north and the deciduous understory trees will accent the building and enhance the general aesthetic.

6.	Detail Sheets					
	YES NO -must give reason below			For Planning Board Use		
	$\overline{\checkmark}$		Tree planting			
			Shrub planting			
			Light poles			
	$\overline{\checkmark}$		Hydrants			
	$\overline{\checkmark}$		Catch basins			
	$\overline{\checkmark}$		Man holes			
	$\overline{\checkmark}$		Traps			
	$\overline{\checkmark}$		Trenching			
		$\overline{\checkmark}$	Road profiles	N/A		
	$\overline{\checkmark}$		Curbing and berms			
	$\overline{\checkmark}$		Signs and support			
	$\overline{\checkmark}$	$\overline{\checkmark}$	Sewer fixtures			
	$\overline{\checkmark}$		Water lines			
			Fencing	N/A		
			Headwalls	N/A		
		$\overline{\checkmark}$	Siltation fencing	Site has been developed		
			Facades	Site has been developed		
		\checkmark	External materials and colors	Site has been developed		
		\checkmark	Fenestration	Site has been developed		
Additi	onal co	mments	s:			
7.	Calcul	lations a	and Studies unless waived			
YES	NO	-must	give reason below	For Planning Board Use		
			Lot coverage			
			ITE trip generation calculations			

		$\overline{\checkmark}$	Planting calculations & schedule <u>Site has been developed</u>				
	$\overline{\checkmark}$		Traffic impacts	Site has been developed			
			Drainage calculations	Site has been developed			
		$\overline{\checkmark}$	Water and sewer demands	Site has been developed			
			Hydrant pressure tests	Site has been developed			
			Water and aquifer studies	Site has been developed			
	□ □ Other						
Additi	ional co	omment	ts:				
8.	Perm	its appl	ied for / received from other b	oards, agencies, or commissions			
Board	/Agenc	cy	Action or Co	onditions			

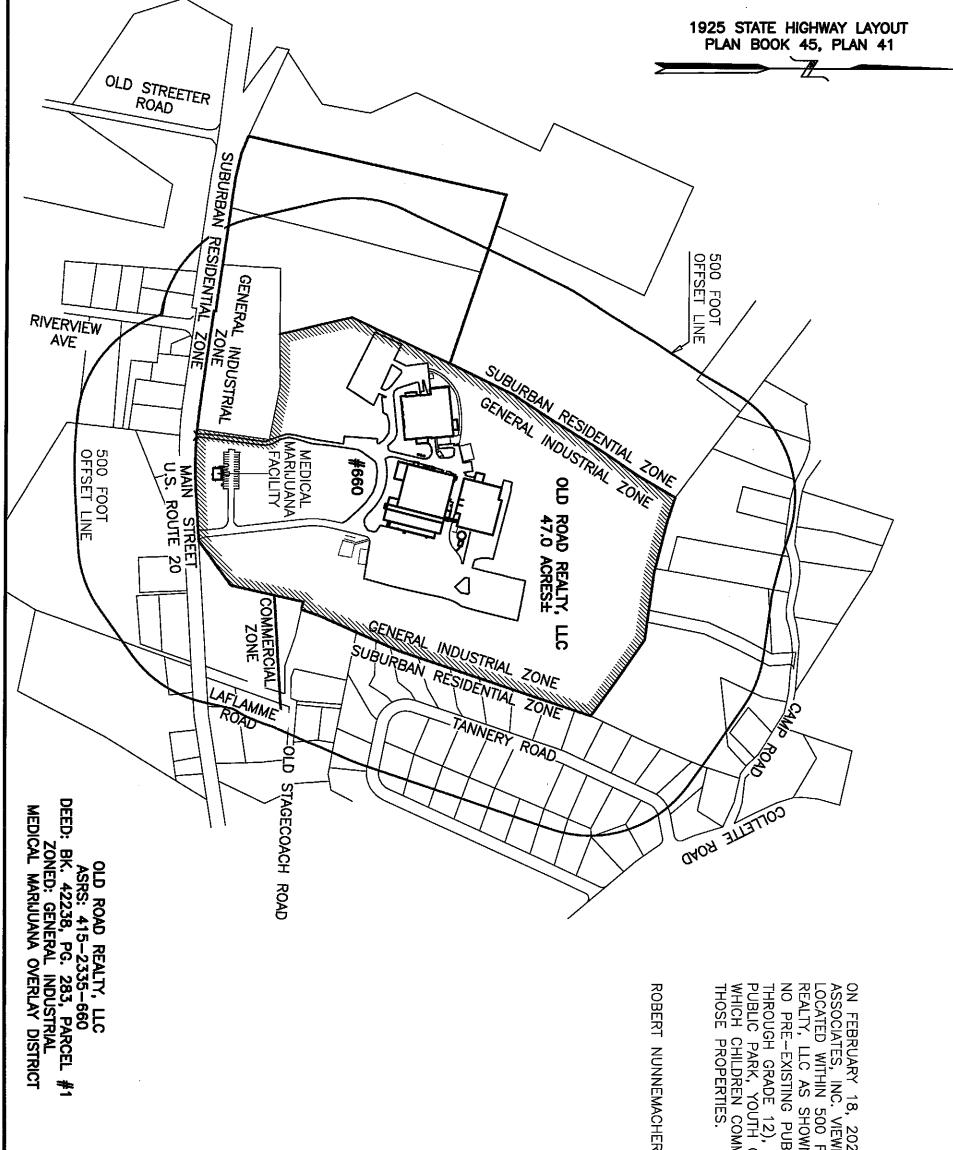
AUTHORIZATION (must be signed by applicant)

approval, including all plans of my knowledge and belief.	vn of Sturbridge Planning Board review this application for Site Plan, documents, and information herewith. I represent that to the best this application is being submitted in accordance with the Site Plan lanning Board of the Town of Sturbridge.
Signature of Applicant	Date
AUTHORIZATION (must b	ne signed by owner)
	property for which this application is being filed and as such, I am used to be carried out on my property.
	this application to be filed with the full understanding that certain a the property relative to the approval of the proposed work.
I further certify that under th	e penalties of perjury, I am authorized to sign this application.
If someone is representing the representation below:	ne applicant or owner, the applicant must designate such
Name of Representative:	Katherine Braucher Adams
Address of Representative: _	1200 Walnut Street, Newton, MA 02461-1267
Telephone No.: (617)	965-3500
Relationship of representative	ve to owner or applicant: <u>Attorney</u>
	oration, or other organization please attach a copy of the vote nalf of such organization for the purposes of this application.
	onsidered complete and will not be submitted to the Planning Board documentation/information has been submitted to the Town own Clerk.
Incomplete applications will	be automatically rejected and returned to the applicant.

Applications should be submitted to:

Town of Sturbridge Planning Department Center Office Building 301 Main Street Sturbridge, MA 01566 508-347-2508

Applicants are strongly encouraged to schedule a submitted meeting with the Town Planner.



ON FEBRUARY 18, 2020 A REPRESENTATIVE OF THOMPSON—LISTON ASSOCIATES, INC. VIEWED, FROM THE STREET, ALL THE PROPERTIES LOCATED WITHIN 500 FEET OF THE PROPERTY LINE OF OLD ROAD REALTY, LLC AS SHOWN HEREON.

NO PRE—EXISTING PUBLIC OR PRIVATE, SCHOOL (PRE—SCHOOL THROUGH GRADE 12), CHILD CARE FACILITY, PUBLIC PLAYGROUND, PUBLIC PARK, YOUTH CENTER, LIBRARY, OR SIMILAR FACILITY IN WHICH CHILDREN COMMONLY CONGREGATE WERE OBSERVED ON THOSE PROPERTIES.

PLS

NUNNEMACHER No. 28977

STURBRIDGE, MASS.

PREPARED FOR

OLD ROAD REALTY, LLC

FEBRUARY 25, 2020 1 INCH = 400 FEET

THOMPSON-LISTON ASSOCIATES, INC.

CIVIL ENGINEERS & LAND SURVEYORS 51 MAIN STREET, PO BOX 570 BOYLSTON, MASS. 01505-0570 VOICE: 508-869-6151 EMAIL: info@tlainc.net SKETCH OF LAND IN

Heal Sturbridge, Inc. Odor Control Plan

HSI shall make every effort to mitigate any potential nuisance at the Facility, including, but not limited to, use of HEPA and carbon filters for its internal air system to mitigate odors. No odoremitting activities will take place at the facility since all of HSI's products (along with all of Heal, Inc.'s products) will be delivered to the facility in pre-measured and sealed packages (in accordance with 935 CMR 500.105(6)), and be sold in the same packages. No product will be removed from its factory sealed packaging during the sales process. Therefore, the potential for odor to emit from the facility is extremely low. VOC removal carbon filter housing cans (see example below) have been installed on the discharge side of the three exhaust fans to ensure that no odor is detectible from the outside.







At a Glance

Each Original Can-Filter® uses the most conceptually sound, pelletized carbon, packed-bed design to deliver the best performing carbon filter on the market. Even with the industry's thickest carbon bed, at 2.5 in, the Can Original provides for some of the lowest pressure drops, even on smaller size filters. This hefty pelletized carbon bed effectively makes the Original filter the "biggest sponge" for VOC removal capable of holding massive amounts of contaminant leading to a lifespan that leaves other filters, frankly, in the dust. The Original Can-Filter® are designed for the control of VOCs (paint fumes, hydrocarbons, etc...), odors and other gaseous contaminants. Built with the same proven packed bed design and pelletized virgin activated carbon we've used for 30 years, this line of time tested activated carbon air filters sets the standard for long life, consistent performance and low pressure drop. Rated at a conservative 0.1 sec contact time, the Original Can-Filter® provide excellent value and confidence.

Details

- Made in North America
- 7 sizes from 33-150cm, largest in industry
- · You pick the flange that's right for you
- Low pressure drop even on smaller sizes
- Pelletized carbon delivers the cleanest filter available

TECHNICAL DATA

Max Exhaust CFM: 420 CFM / 713 m³h @ 0.1 sec contact time Max Recirculating (Scrubbing) CFM: 840 CFM / 1426 m³h Recommended Min Airflow: 210 CFM / 357 m³h

Prefilter: Yes

Flange: 6" - 8" - 10"

Outside Diameter: 42 cm / 16.5"

Height: 50 cm / 19.7"

Total Weight: 25 kg / 55 lbs.

Carbon Weight: 19 kg / 42 lbs. Carbon Bed Depth: 6.5 cm / 2.56" Max Operating Temp: 80°C / 176°F

Pressure drop at max CFM: 180pa / .75"wg

Heal Sturbridge, Inc, Security Overview

HSI will implement policies and procedures to maintain a secure facility and to prevent diversion, in accordance with 935 CMR 500.110. The security plan will ensure the safety of the general public, employees, and consumers alike.

Security measures taken by HSI to protect the premises, employees, consumers and general public will include, but not be limited to, the following:

- Positively identifying individuals seeking access to the premises of the Marijuana Establishment or to whom or marijuana products are being transported pursuant to 935 CMR 500.105(14) to limit access solely to individuals 21 years of age or older;
- Adopting procedures to prevent loitering and ensure that only individuals engaging in activity expressly or by necessary implication permitted by these regulations and its enabling statute are allowed to remain on the premises;
- Disposing of marijuana in accordance with 935 CMR 500.105(12) in excess of the quantity required for normal, efficient operation as established within 935 CMR 500.105;
- Securing all entrances to the Marijuana Establishment to prevent unauthorized access;
- Establishing limited access areas pursuant to 935 CMR 500.110(4), which will be accessible only to specifically authorized personnel limited to include only the minimum number of employees essential for efficient operation;
- Storing all finished marijuana products in a secure, locked safe or vault in such a manner as to prevent diversion, theft and loss;
- Keeping all safes, vaults, and any other equipment or areas used for the production, cultivation, harvesting, processing or storage of marijuana products securely locked and protected from entry, except for the actual time required to remove or replace marijuana;
- Keeping all locks and security equipment in good working order;
- Prohibiting keys, if any, from being left in the locks or stored or placed in a location accessible to persons other than specifically authorized personnel;
- Prohibiting accessibility of security measures, such as combination numbers, passwords or electronic or biometric security systems, to persons other than specifically authorized personnel;
- Ensuring that the outside perimeter of the Marijuana Establishment is sufficiently lit to facilitate surveillance, where applicable;
- Ensuring that all marijuana products are kept out of plain sight and are not visible from a public place without the use of binoculars, optical aids or aircraft;

- Developing emergency policies and procedures for securing all product following any instance of diversion, theft or loss of marijuana, and conduct an assessment to determine whether additional safeguards are necessary;
- Developing sufficient additional safeguards as required by the Cannabis Control Commission ("the Commission") for Marijuana Establishments that present special security concerns; and
- Sharing the Marijuana Establishment's security plan and procedures with law enforcement authorities and fire services and periodically updating law enforcement authorities and fire services if the plans or procedures are modified in a material way.

Alarm Requirements

HSI will implement alarms and other security equipment to prevent and detect potential loss and diversion of marijuana. This equipment will include perimeter alarms installed by Netwatch, USA at all entrances and exits of HIS's facility, a failure notification system, a panic alarm connected to local law enforcement, video cameras in all areas that contain marijuana, and 24-hour recordings of all video surveillance. Heal has installed video cameras in accordance with a security plan reviewed and reviewed by the police department, and HSI will modify these locations to the extent requested by the police department.

Limited Access Areas

HSI will designate limited access areas by posting clearly visible signs, no smaller than 12" x 12" and which state: "Do Not Enter-Limited Access Area-Access Limited to Authorized Personnel Only" in lettering no smaller than one inch in height. HSI will limit individuals allowed access to these areas to employees, agents, law enforcement, and others as authorized by the Commission. HSI will require all employees to wear employee identification badges at all times while inside the marijuana establishment. Employees of HSI will escort all visitors, including vendors and contractors, into limited access areas. These visitors will be logged in and out, and HSI will maintain this log.



Building Photos: Exterior





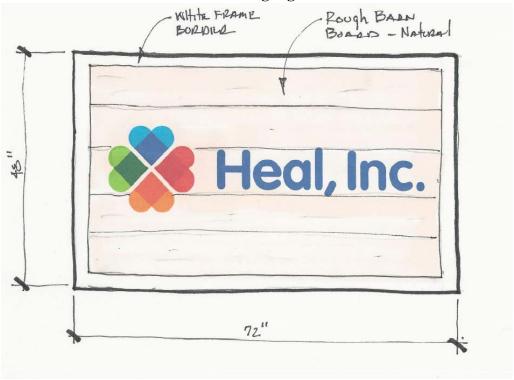
Building Photos: Interior



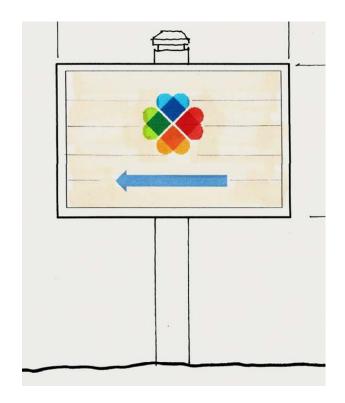


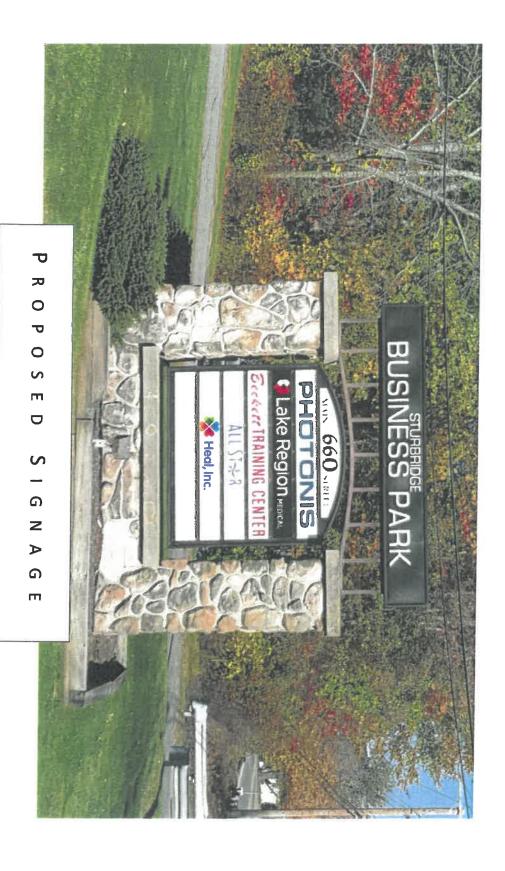


Signage Planned Building Sign



Driveway Entrance Sign





Heal Sturbridge, Inc. Officers and Board Members

Patricia Faass: President and CEO, Co-Founder, Board Member

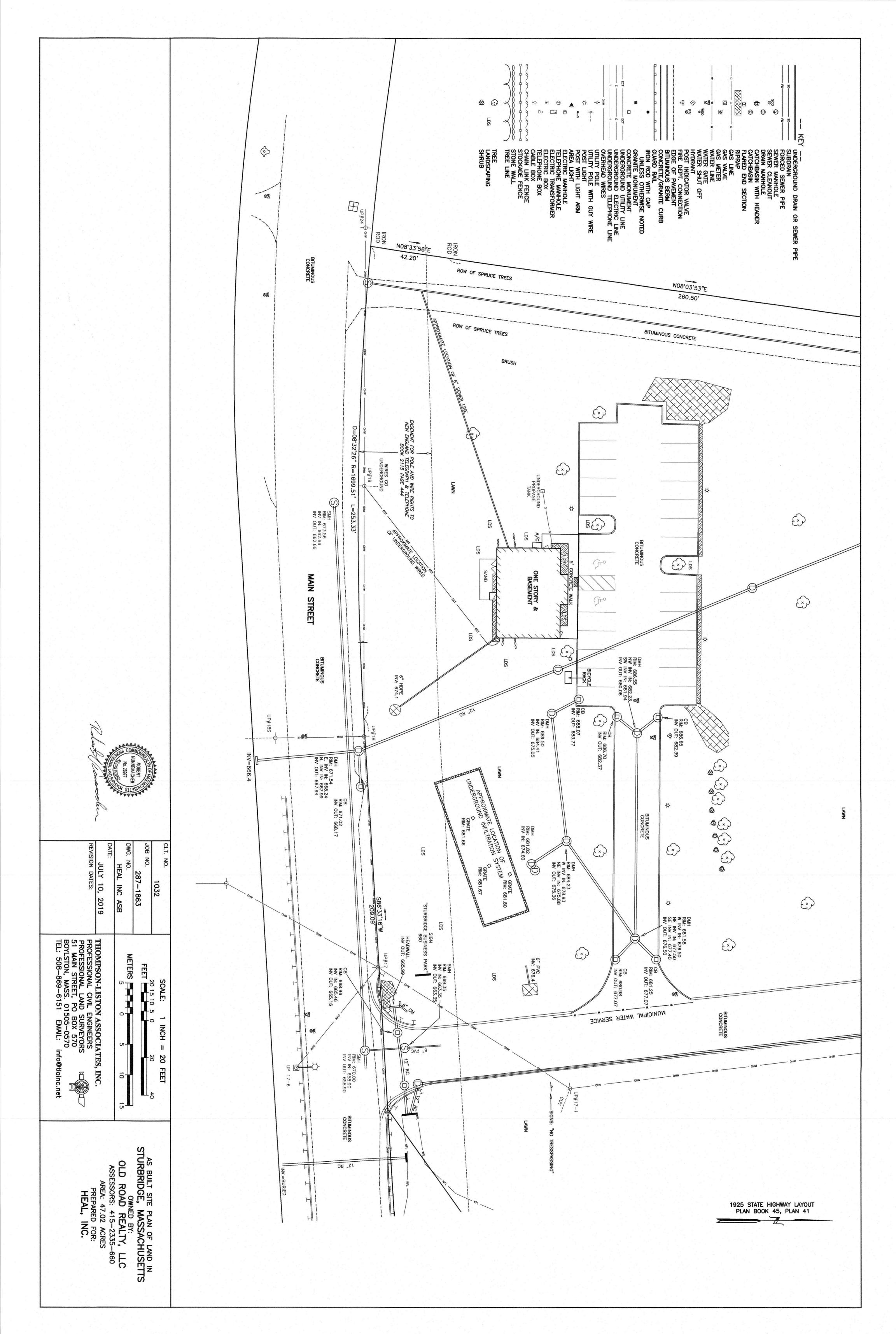
Alexander Oliphant: Co-Founder

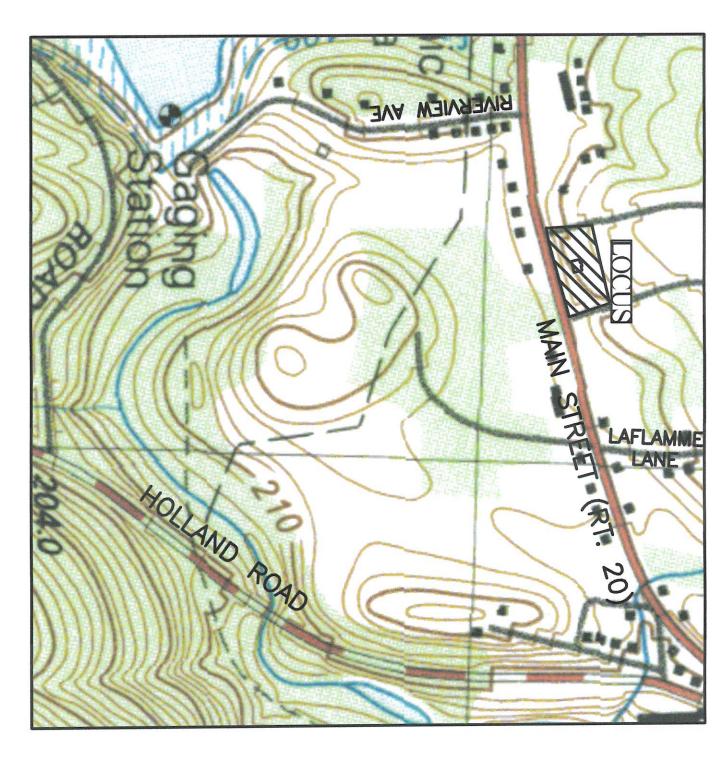
James Bonaccorsi: Co-Founder, Board Member

Gary Einsidler: Board Member

Ted Karwoski: Board Member

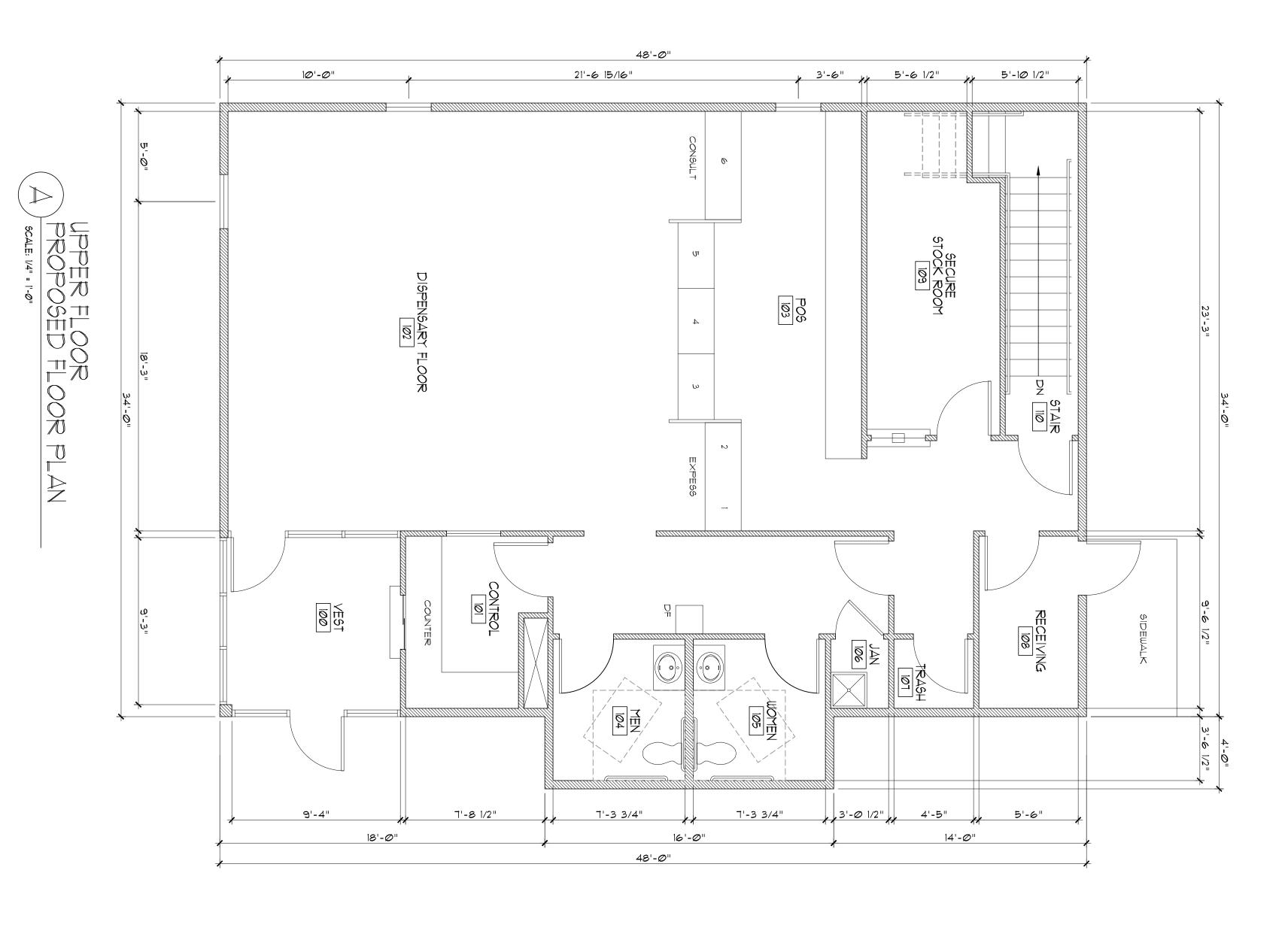
W. Thomas Gutowski: Board Member

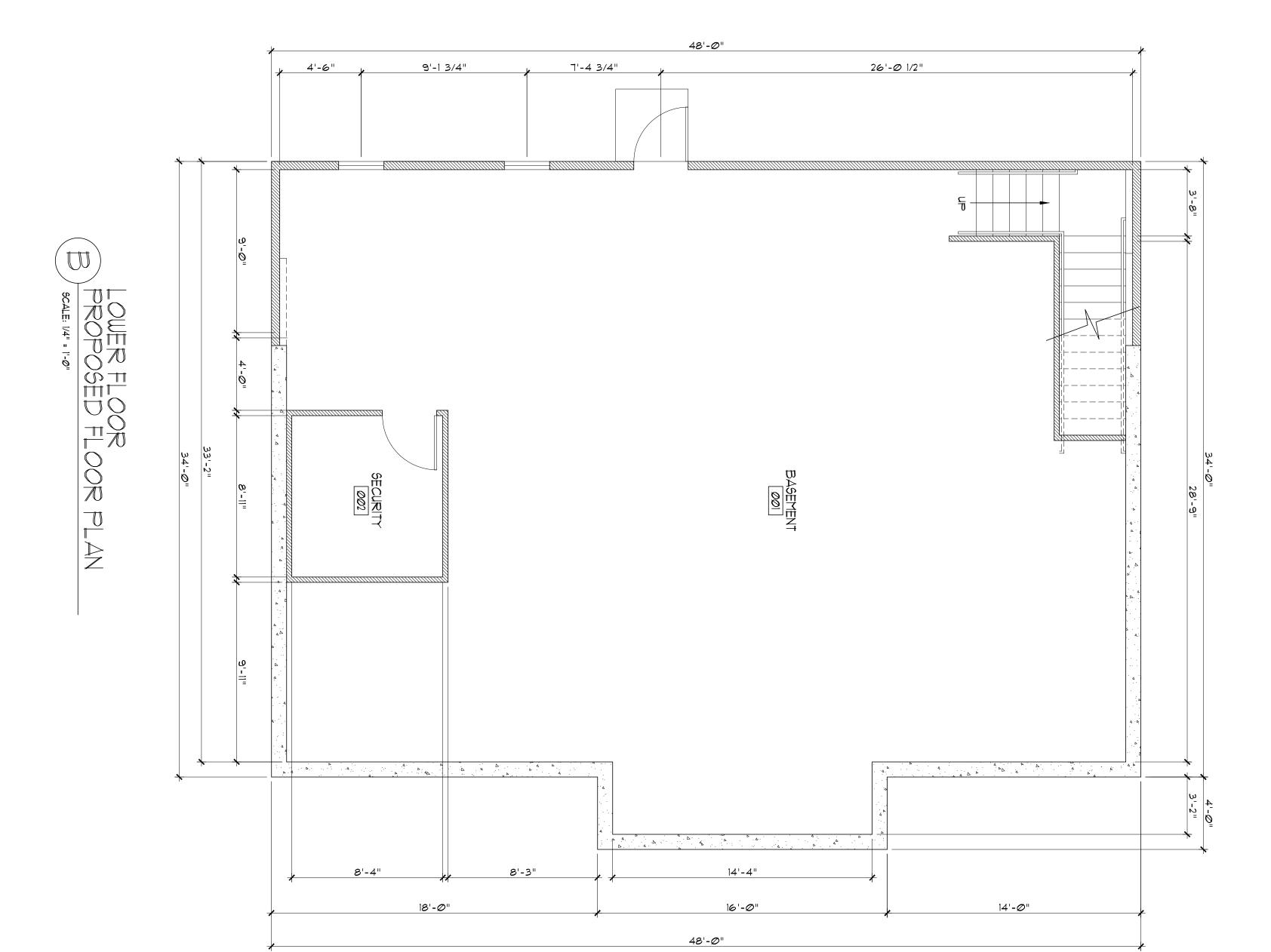




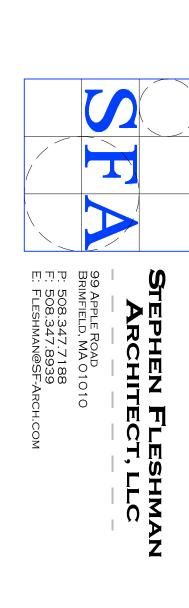
LOCUS MAP SCALE: 1" = 400'

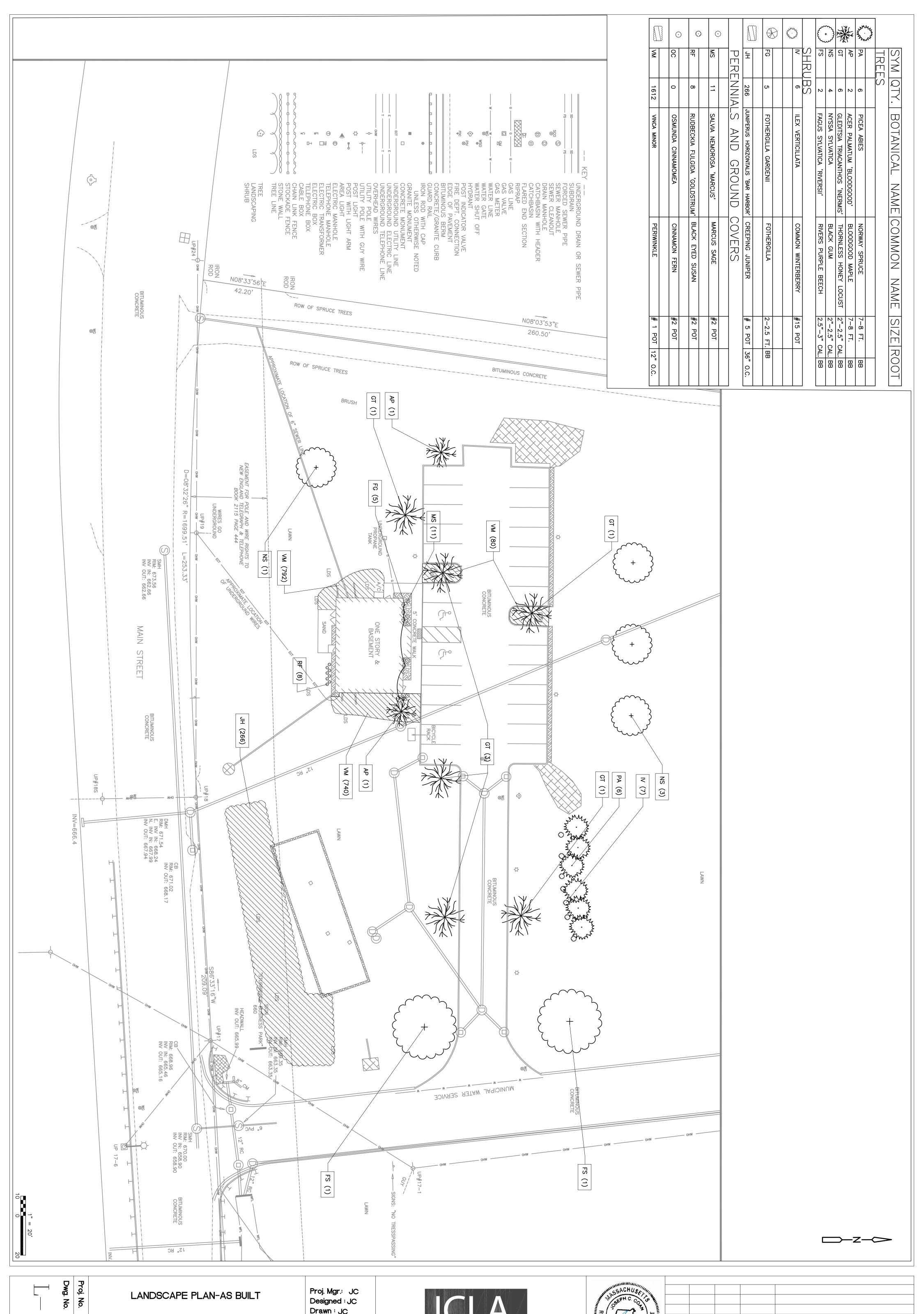
LOCUS PLAN OF LAND IN
STURBRIDGE, MASS.
PREPARED FOR
OLD ROAD REALTY, LLC
FEBRUARY 25, 2020 1 INCH = 400 FEET
THOMPSON-LISTON ASSOCIATES, INC.
CIVIL ENGINEERS & LAND SURVEYORS
51 MAIN STREET, PO BOX 570
BOYLSTON, MASS. 01505-0570
VOICE: 508-869-6151
EMAIL: info@tlainc.net





PROPOSED FLOOR PLANS





HEAL INC. 660 MAIN STREET STURBRIDGE, MA

Drawn : JC Checked: JC Scale: AS NOTED Date : FEB 2020





NUMBER	DATE	MADE BY	CHECKED BY	DESCRIPTION		
	REVISIONS					
<u>I</u>						



To: Ms. Patricia Faass 4 Irving Road

Weston, Massachusetts 02463

Date: March 12, 2020

Memorandum

Project #: 13678.00

From: Matt Kealey, P.E., PTOE
Project Manager

660 Main Street
Sturbridge, Massachusetts

Re: Proposed Dispensary

Adam Prichard

Transportation Consultant

In December 2016, VHB, Inc. conducted a traffic impact and access study (TIAS) to support the Town of Sturbridge approval process for the proposed development of a medical marijuana dispensary (the Project) at 660 Main Street in Sturbridge, Massachusetts (the Site). The project included the construction of an approximately 2,700 square foot (sf) medical marijuana dispensing facility supported by approximately 30 surface parking spaces. Access to Sturbridge Business Park is provided by an existing full access, unsignalized driveway (Galileo Drive) along Main Street (Route 20). Access to the Project will be located of off Galileo Drive. Since the original filing, the project has been modified to include a 1,696 sf building supported by 27 parking spaces. An As-Built plan for the site is provided in the Attachments to this memorandum. The Proponent is now proposing the addition of recreational marijuana sales to this facility. Under this proposal, the medical and recreational sales will be collocated within the building. Given the change in use, the Town of Sturbridge has requested an update to the 2016 TIAS.

This memorandum includes an evaluation of the existing traffic operations and safety; assessment of future conditions without the project; an estimate of projected traffic volumes for the project; and its potential impact on future traffic operations in the area.

Existing Conditions

The following section provides a description of the existing study area roadways and intersection characteristics.

Study Area

Main Street (Route 20)

Main Street (Route 20) is an east/west urban principal arterial roadway under the Massachusetts Department of Transportation (MassDOT) jurisdiction in the vicinity of the Site. Main Street (Route 20) is a two-lane roadway, with approximately 15-foot lanes and 2-foot shoulders, with a posted speed limit of 45 miles per hour (mph). Approximately 1,500 feet west of the Galileo Drive, the roadway provides two lanes in each direction. No sidewalks are present along Main Street (Route 20) within the vicinity of the site. Land use along Main Street (Route 20) consists of a mix of commercial and residential uses.

Main Street (Route 20) at Galileo Drive (Sturbridge Business Park Driveway)

Main Street (Route 20) is intersected by Galileo Drive (Sturbridge Business Park Driveway) from the north to form a three-legged unsignalized intersection. All approaches consist of one general purpose lane accommodating all movements. No stop sign or stop bar is present on the southbound approach of Galileo Drive. No sidewalks or crosswalks are present at the intersection.

101 Walnut Street PO Box 9151 Watertown, MA 02472-4026 P 617.924.1770 Ref: 13678.00 March 12, 2020 Page 2

Traffic Volumes

To assess the existing operational conditions at the study area, a review of existing condition traffic volumes was conducted. Automatic traffic recorder (ATR) counts were conducted in September 2016 along Main Street (Route 20) in the vicinity of the Site. The observed traffic volume data are summarized below in Table 1 and Figure 1, and included in the Attachments to this memorandum.

Table 1 Existing Traffic Volume Summary

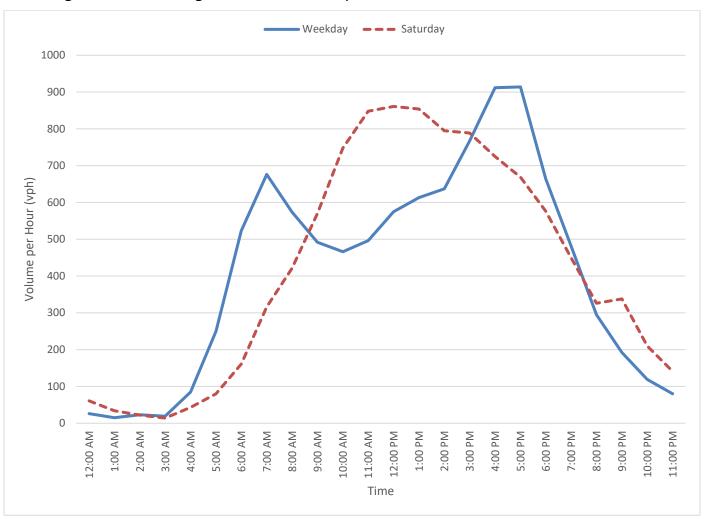
	Weekday Daily	Weekday Evening Peak Hour			Saturday Daily	Saturday Midday Peak Hour		
	Vol	Vol		Dir.	Vol	Vol		Dir.
Location	(vpd) ^a	(vph) ^b	K Factor ^c	Dist. d	(vpd)	(vph)	K Factor	Dist.
Main Street west of Galileo Drive	9,900	915	9%	57% WB	10,100	915	9%	53% WB

Source: Automatic Traffic Recorder (ATR) counts conducted by VHB in September 2016.

- a Daily traffic expressed in vehicles per day.
- b Peak hour volumes expressed in vehicles per hour.
- c Percent of daily traffic, which occurs during the peak hour.
- d Directional distribution of peak period traffic.

As shown in Table 1, during a typical weekday, Main Street (Route 20) carries approximately 9,900 vehicles per day with 915 vehicles during the weekday evening peak hour. Main Street (Route 20) traffic is slightly heavier in the westbound direction in the weekday evening peak hour. During a typical Saturday, Main Street (Route 20) carries approximately 10,100 vehicles during the Saturday midday peak hour. Traffic along Main Street (Route 20) is slightly heavier in the westbound direction during the Saturday midday peak hour.

Figure 1 Existing Traffic Volume Graph



As shown in Figure 1, Main Street (Route 20) roadway volumes peak during the weekday evening commuter peak period and Saturday midday peak period. It should be noted that Main Street (Route 20) roadway volumes during the weekday morning commuter peak period are less than those in the weekday evening commuter peak period.

In addition, peak hour turning movement counts (TMCs) were conducted at the study area intersection in September 2016 concurrent with the ATR count during the weekday evening peak period from 4:00 PM to 6:00 PM and during the Saturday midday peak period from 11:00 AM to 2:00 PM. The dispensary is not expected to be open during the weekday morning commuter peak period. Based on a review of the count data, the weekday evening and Saturday midday peak hours of vehicular activity were determined to be 4:00 PM to 5:00 PM and 11:30 AM to 12:30 PM, respectively. The 2016 traffic volumes were adjusted to reflect 2020 conditions based on a historic growth rate

Ref: 13678.00 March 12, 2020 Page 4

discussed in the Future Conditions section of this memorandum. The traffic volume counts are provided in the Attachments to this memorandum.

Seasonal Variation

The peak hour traffic data collected for the Project was obtained during the month of September 2016. To quantify the seasonal variation of traffic volumes in the area, historic traffic data available from MassDOT were reviewed. According to published MassDOT weekday seasonal factors, September traffic counts are generally higher than average month conditions. To present a conservative analysis, the traffic volumes were not reduced to reflect average month conditions. The 2020 Existing peak hour traffic volume networks are provided in the Attachments to this memorandum.

Crash Summary

To identify potential vehicle crash trends in the study area, vehicular crash data for the study area intersections were obtained from Massachusetts Department of Transportation (MassDOT) for the most recent five-year period (2013-2017) available. A summary of the MassDOT vehicle crash history is provided in Table 2 and the detailed crash data is provided in the Attachments to this memorandum.

The current MassDOT average crash rate for unsignalized intersections in District 3 (the MassDOT district for Sturbridge) is 0.61 crashes per million entering vehicles. In other words, on average, 0.61 crashes occurred per million vehicles entering unsignalized intersections, throughout District 3. The crash rate worksheet is included in the Attachments to this memorandum.

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Table 2 Vehicular Crash Data (2013-2017)

- Table 2 v	eniculai Crasii Data (201
	Main Street at Galileo Drive
Signalized?	No
MassDOT Average Crash Ra	nte 0.61
Calculated Crash Rate	0.10
Exceeds Average Crash Rate	e? No
Year	
2013	1
2014	0
2015	1
2016	0
<u>2017</u>	<u>0</u>
Total	2
Average	0.40
Collision Type	
Angle	1
Head-on	0
Rear-end	0
Sideswipe, opposite direction	on 1
Single vehicle crash	0
Crash Severity	
Fatal injury	0
Non-fatal injury	0
Property damage only (non	e injured) 2
Time of Day	
Weekday, 7:00 AM - 9:00 Al	
Weekday, 4:00 PM - 6:00 PM	
Saturday, 11:00 AM - 2:00 P	M 0
Weekday, other time	2
Weekend, other time	0
Pavement Conditions	
Dry	1
Wet	0
Snow	1
Non-Motorist (Bike, Pedes	trian) 0

Source: MassDOT vehicle crash data

As shown in Table 2, the intersection of Main Street (Route 20) at Galileo Drive experienced two reported crashes over the five-year period. The calculated crash rate for the intersection is 0.10, which is less than the MassDOT average crash rate for District 3 (the district in which the intersection is located) of 0.61. The crashes that occurred at the intersection were angle and sideswipe, opposite direction collisions, resulting in property damage only. It should be noted no crashes involving injuries or crashes involving non-motorists (bike, pedestrian) were reported.

Sight Distance

A sight distance analysis, in conformance with guidelines of the American Association of State Highway and Transportation Officials (AASHTO) was performed at the unsignalized intersection of Main Street (Route 20) and Galileo Drive. Sight distance considerations are generally divided into two categories: Stopping Sight Distance (SSD) and Intersection Sight Distance (ISD). Stopping Sight Distance (SSD) is the distance required for a vehicle approaching an intersection from either direction to perceive, react and come to a complete stop before colliding with an object in the road, in this case the exiting vehicle from a driveway. In this respect, SSD can be considered as the minimum visibility criterion for the safe operation of an unsignalized intersection.

Intersection Sight Distance (ISD) is based on the time required for perception, reaction and completion of the desired critical exiting maneuver once the driver on a minor street or driveway approach decided to execute the maneuver. Calculation for the critical ISD includes the time to (1) turn left, and to clear the half of the intersection without conflicting with the vehicles approaching from the left; and (2) accelerate to the operating speed of the roadway without causing approaching vehicles to unduly reduce their speed. In this context, ISD can be considered as a desirable visibility criterion for the safe operation of an unsignalized intersection. Essentially, while SSD is the minimum distance needed to avoid collisions, ISD is the minimum distance needed so that mainline motorists will not have to substantially reduce their speed due to turning vehicles. To maintain the safe operation of an unsignalized intersection, ISD only needs to be equal to the stopping sight distance, though it is desirable to meet ISD requirements by themselves.

To calculate the required SSD and ISD at the unsignalized intersection of Main Street (Route 20) and Galileo Drive the 85th percentile speed measured by the ATR count described above was utilized. The 85th percentile speed along Main Street (Route 20) was observed to be 51 mph eastbound and 48 mph westbound. The posted speed limit along Main Street (Route 20) is 45 mph in both the eastbound and westbound directions. Table 3 summarizes the sight distance analysis and the sight distance worksheets are included in the Attachments to this memorandum.

Table 3 Sight Distance Analysis Summary

	Stoppi	ng Sight Dist	tance ^a	Interse	ction Sight D	istance ^a
Location	Traveling	Required	Measured	Looking	Desired	Measured
Galileo Drive at Main	Eastbound	440	800	Left	565	600
Street (Route 20)	Westbound	400	850	Right	460	650

a Based on guidelines established in A Policy on the Geometric Design of Highways and Streets, Sixth Edition, American Association of State Highway and Transportation Officials (AASHTO), 2011 for an 85th percentile speed of 51 mph eastbound and 48 mph westbound.

As shown in Table 3, the minimum stopping sight distance requirements and the desired intersection sight distance requirements are exceeded at the Galileo Drive intersection.

Future Conditions

To determine the impacts of the site-generated traffic volumes in the vicinity of the site, future traffic conditions were evaluated. A seven-year horizon (2027) was used for the evaluation consistent with MassDOT TIA requirements.

Traffic growth on area roadways is a function of the expected land development, environmental activity, and changes in demographics. A frequently used procedure is to identify estimated traffic generated by planned developments that would be expected to affect the project study area roadways. An alternative procedure is to estimate an annual percentage increase and apply that increase to study area traffic volumes. For this evaluation, both procedures were used. The following summarizes this traffic forecasting process.

Historic Growth

Historic traffic data in the vicinity of the project site was reviewed to determine an appropriate growth rate. A MassDOT permanent count station is located at Route 20 (Sturbridge Road) east of New Holland Road (ID 3329) in Brimfield, Massachusetts. The traffic count data from the count station showed a decrease or no change for three of the last four years, and an increase of one-percent for a one-year period (2016-2019). To be conservative, a growth rate of one-percent per year was used for this study. The historic traffic data is included in the Attachments to this memorandum.

Site Specific Growth

In addition to accounting for background growth, the traffic associated with other planned and/or approved developments near the site was considered. Based on discussions with the Town of Sturbridge, it was determined that there are no planned projects in the vicinity of the site that are likely to influence traffic conditions.

Background Transportation Projects

In assessing future traffic conditions, proposed roadway improvements within the study area were considered. Based on discussions with the Town of Sturbridge, there is one transportation project that located to the west of the project study area within the seven-year horizon.

• Route 20 Safety Improvements, Resurfacing and Related Work: The Route 20 project by MassDOT reduces the number of lanes on Route 20 from four-lanes to two-lanes along the segment between New Holland Road and Old Streeter Road, which is located approximately 1,500-feet west of Galileo Drive. No changes in roadway geometry directly in front of the project site are included in this project.

No-Build Traffic Volumes

The 2027 No-Build traffic volumes were generated by consideration of the above described factors. The resulting 2027 No-Build peak hour traffic volume networks are provided in the Attachments to this memorandum.

Trip Generation

The rate at which any development generates traffic is dependent upon the size, location, and concentration of surrounding developments. As mentioned above, the proposed Project will involve the addition of recreational marijuana sales to the previously approved medical dispensary at 660 Main Street. It should be noted that the medical marijuana dispensary was approved in 2017 for a building size of approximately 2,700 sf, but the actual building is approximately 1,696 sf. To estimate the total site-generated traffic, transactional data and operations for the facility were provided by the Proponent. This methodology of using transactional data to estimate trip generation was used in the December 19, 2016 memorandum prepared by VHB for the permitting of the medical marijuana dispensary on-Site. The same methodology was used in the May 10, 2019 trip generation memorandum in order to be consistent with the previous filing. The trip generation projections from that memorandum have been used for analysis purposes for this evaluation.

The dispensary is anticipated to be open seven days a week with operational hours from 10:00 AM to 7:00 PM Monday through Thursday, 10:00 AM to 9:00 PM on Friday and Saturday, and 12:00 PM to 6:00 PM on Sunday. The Proponent anticipates a maximum of fifteen employees at the facility at one time. There will be six cash registers in the dispensary, and each customer appointment is anticipated to last approximately ten minutes.

Table 4 provides a trip generation summary of the proposed marijuana dispensary, as summarized in the May 10, 2019 memorandum. To be conservative, 36 customer appointments (six appointments per cash register) and six total employee trips were assumed to occur during each peak hour.

Table 4 Trip Generation Summary

Proposed Marijuana Direction Dispensary Time Period Weekday Daily a 340 Enter Exit 340 Total 680 Weekday Enter 42 Evening b Exit 42 Total 84 412 Saturday Daily c Enter Exit 412 Total 824 Saturday 42 Enter Midday b Exit 42

Total

84

As shown in Table 4, the proposed marijuana dispensary is expected to result in a total of 680 vehicle trips (340 entering / 340 exiting) on a typical weekday, with a total of 84 vehicle trips (42 entering / 42 exiting) during the weekday evening peak hour. On a typical Saturday, the project is expected to generate a total of 824 vehicle trips (412 entering / 412 exiting) with 84 vehicle trips (42 entering / 42 exiting) during the Saturday midday peak hour.

It should be noted that the proposed trip generation estimates assume that the maximum number of appointments will occur for all hours that the dispensary is open. In actuality, all six cash registers may not be open at all hours based on demand, and there may be breaks in customers between appointments. Therefore, the trip generation estimates shown in Table 4 are conservative and the actual number of trips generated by the Site may be lower than what is presented above.

Trip Distribution

The directional distribution of traffic approaching and departing the site is a function of several variables. These include population densities, existing travel patterns, and the efficiency of the roadways leading to and from the site. The trip distribution of the site traffic used in this analysis is based on existing travel patterns along Main Street (Route

a Weekday daily trip generation Monday through Thursday. Based on 324 customer visits (36 per hour for 9 hours), 15 employee trips, and 1 supply delivery per day.

b Peak hour trip generation based on 36 customer visits and 6 employee trips per peak hour.

c Saturday daily trip generation based on 396 customer visits (36 per hour for 11 hours), 15 employee trips, and 1 supply delivery per day.

20). The trip distribution patterns for the project are presented in Table 5 and provided as a figure in the Attachments to this memorandum.

Table 5 Trip Distribution

Roadway	Direction (From/To)	Trip Distribution
Main Street (Route 20)	East	55%
Main Street (Route 20)	<u>West</u>	<u>45%</u>
Total		100%

Build Traffic Volumes

The project-related traffic volumes are assigned to the study area roadway network based on the trip distribution patterns shown in Table 5 and added to the 2027 No-Build peak hour traffic volume networks to develop the 2027 Build weekday evening and Saturday midday peak hour traffic volume networks. The site-generated trip traffic volume networks and 2027 Build traffic volume networks are provided in the Attachments to this memorandum.

Traffic Operations Analysis

To assess quality of flow, intersection capacity analyses were conducted with respect to 2020 Existing, 2027 No-Build, and 2027 Build traffic volume conditions. Capacity analyses provide an indication of how well the roadway facilities serve the traffic demands placed upon them. Roadway operating conditions are classified by calculated levels-of-service.

The evaluation criteria used to analyze area intersections and roadways in this traffic study are based on the 2010 Highway Capacity Manual (HCM). Level–of-service (LOS) is the term used to denote the different operating conditions that occur on a given roadway segment under various traffic volume loads. It is a qualitative measure that considers a number of factors including roadway geometry, speed, travel delay, freedom to maneuver, and safety. Level-of-service provides an index to operational qualities of a roadway segment or an intersection. Level-of-service designations range from A to F, with LOS A representing the best operating conditions and LOS F representing congested operating conditions.

Intersection Capacity Analysis

Levels-of-service analyses were conducted for the 2020 Existing, 2027 No-Build, and 2027 Build conditions for the study area intersections. Table 6 summarizes the capacity analysis for the unsignalized intersections. The capacity analyses worksheets are included in the Attachments to this memorandum.

Table 6 Unsignalized Intersection Capacity Analysis

			2020 Ex	kisting Co	nditions			2027 No	-Build Co	onditions			2027 E	Build Con	ditions	
Location	Movement	D a	v/c ^b	Del ^c	LOS d	95 Q ^e	D	v/c	Del	LOS	95 Q	D	v/c	Del	LOS	95 Q
Main Stree	et (Route 20) a	t Galileo	Drive													
Weekday	EB L	neg	0.00	9	Α	0	neg	0.00	9	Α	0	20	0.02	9	Α	3
Evening	SB L/R	60	0.24	22	С	23	60	0.26	25	С	25	105	0.47	32	D	58
Saturday	EB L	neg	-	0	Α	-	neg	-	0	Α	-	20	0.02	9	Α	3
Midday	SB L/R	6	0.04	19	С	3	6	0.03	19	С	3	50	0.20	21	С	18
Galileo Dri	ive at Site Drive	eway														
Weekday	EB L/R											45	0.05	9	Α	8
Evening	NB L											45	0.03	7	Α	3
		Inte		oes not ex ing Condi		2020	Inte	ersection do	oes not ex uild Cond		2027					
Saturday	EB L/R		EXIST	ing Condi	uons.			NU-D	ullu COM	illoris.		45	0.05	9	Α	3
Midday	NB L											45	0.03	7	Α	3

- a. Demand of critical movement.
- b. Volume to capacity ratio.
- c. Average total delay, in seconds per vehicle.
- d. Level-of-service.
- e. 95th percentile queue, in feet.

As shown in Table 6, between 2027 No-Build and 2027 Build conditions, the intersection of Main Street (Route 20) and Galileo Drive is expected to degrade from LOS C to LOS D during the weekday evening peak hour and remain at LOS C during the Saturday midday peak hour. The intersection of Galileo Drive at the site driveway is expected to operate at LOS A under 2027 Build conditions during both peak hours.

Conclusion

VHB has conducted an updated traffic impact study for development of a marijuana dispensary at 660 Main Street in Sturbridge, Massachusetts. The proposed project is estimated to generate a total of 680 vehicle trips (340 entering / 340 exiting) on a typical weekday, with a total of 84 vehicle trips (42 entering / 42 exiting) during the weekday evening peak hour. On a typical Saturday, the project is expected to generate a total of 824 vehicle trips (412 entering / 412 exiting) with 84 vehicle trips (42 entering / 42 exiting) during the Saturday midday peak hour. Based on the intersection capacity analysis, it is expected that the project will have a minimal impact upon intersection operations within the study area. The analysis indicates that no physical roadway improvements are necessary to accommodate the project.

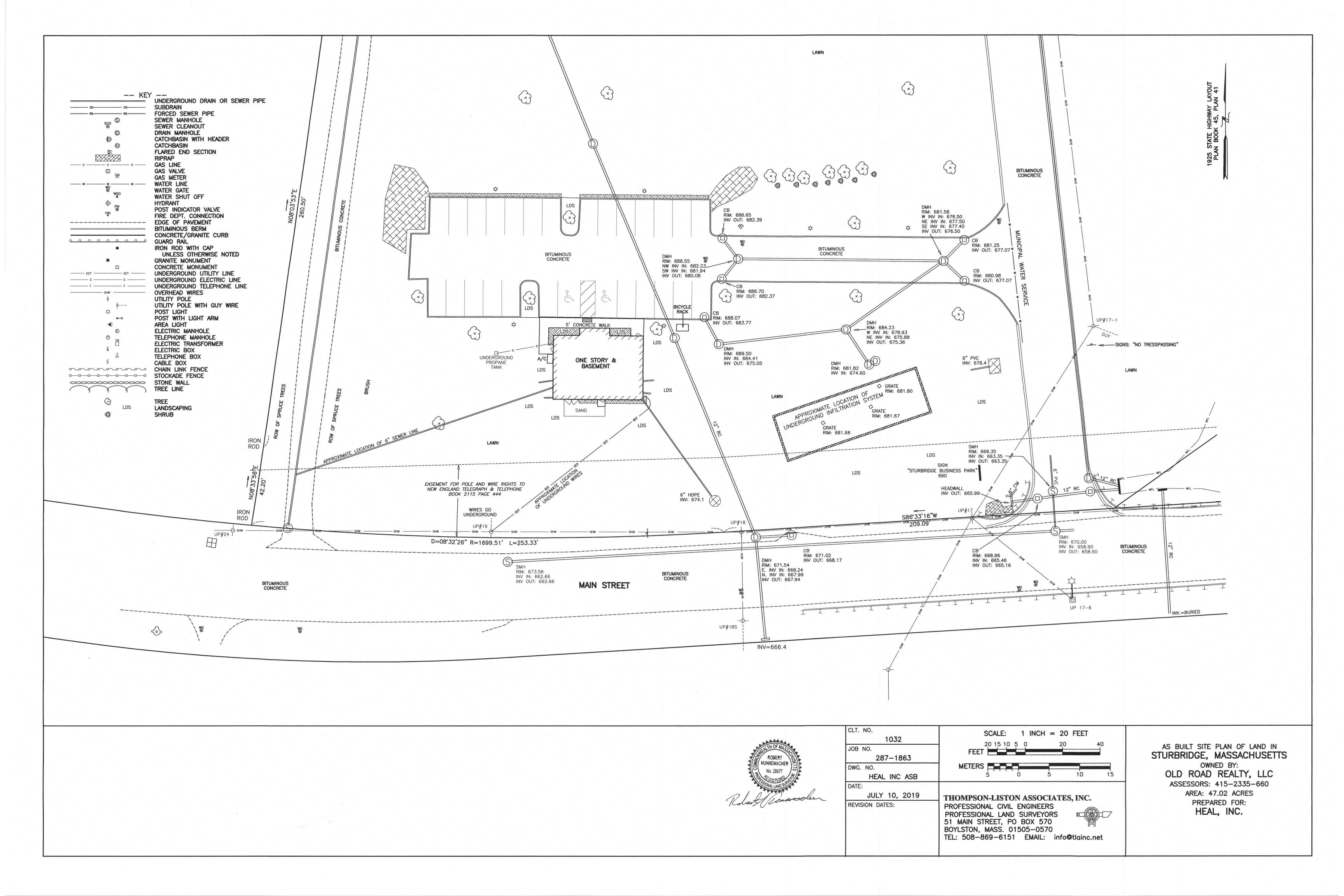


Attachments

- Proposed Site Plan
- Traffic Volume Count Data
- Seasonal Adjustment Factors
- Vehicular Crash Data
- Sight Distance Worksheet
- Historic Traffic Growth
- Trip Generation
- Trip Distribution
- Traffic Volume Networks
- Intersection Capacity Analyses

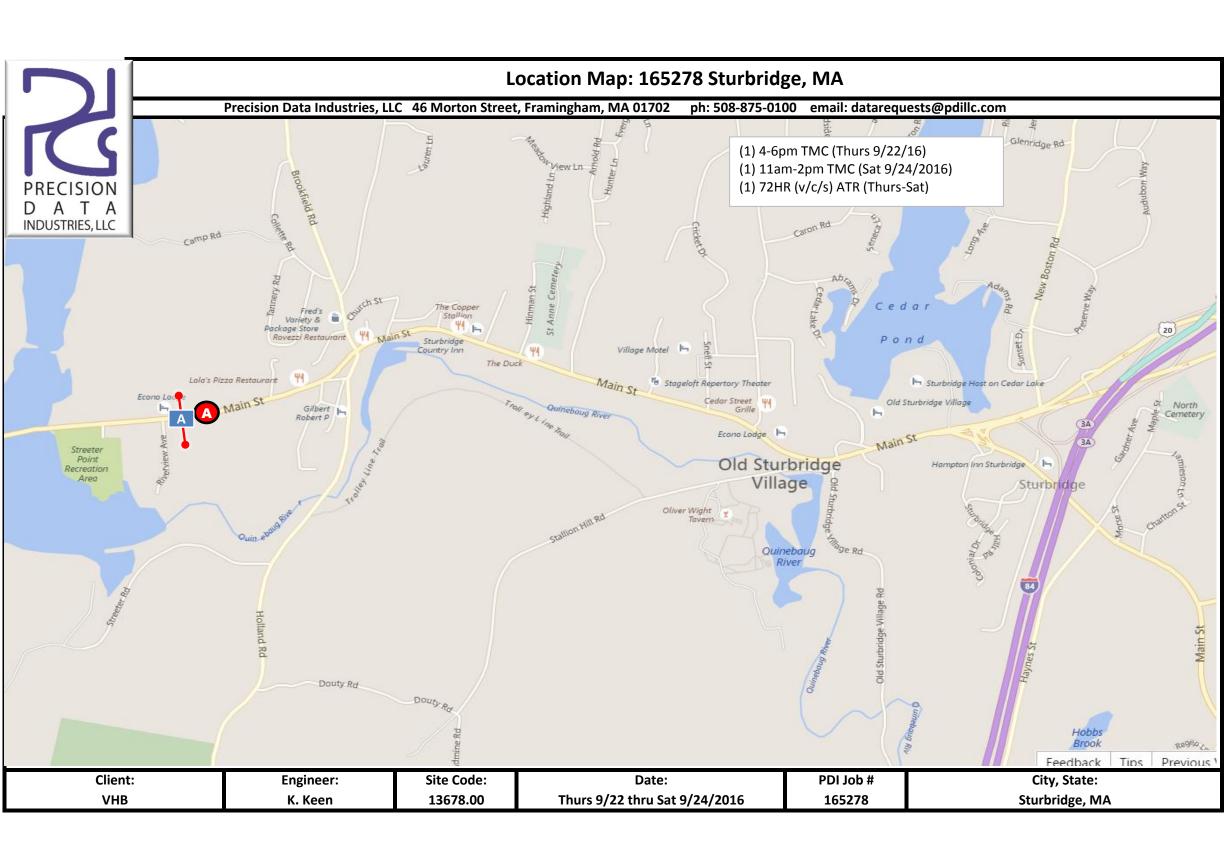


Proposed Site Plan





Traffic Volume Count Data





46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com

Start	22-Sep	p-16	23-Se	p-16	24-Se	ep-16	25-Se	p-16	26-Se	ep-16	27-Sep	o-16	28-Sep	o-16	Week A	verage
Time	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB
12:00 AM	12	14	6	32	14	47	33	32	12	22	*	*	*	*	15	29
01:00	7	8	12	22	12	22	11	14	9	9	*	*	*	*	10	15
02:00	9	14	12	12	11	11	6	12	10	4	*	*	*	*	10	11
03:00	14	5	17	10	11	3	12	10	21	11	*	*	*	*	15	8
04:00	67	18	54	16	26	17	12	5	57	15	*	*	*	*	43	14
05:00	203	47	183	42	59	21	32	15	200	46	*	*	*	*	135	34
06:00	373	150	370	141	100	61	74	42	379	147	*	*	*	*	259	108
07:00	443	233	392	202	198	118	136	77	412	223	*	*	*	*	316	171
08:00	371	203	361	218	236	185	190	139	347	220	*	*	*	*	301	193
09:00	292	200	280	205	316	254	257	250	264	168	*	*	*	*	282	215
10:00	259	207	250	235	415	333	317	276	260	216	*	*	*	*	300	253
11:00	256	240	253	246	384	464	371	339	246	263	*	*	*	*	302	310
12:00 PM	274	301	312	360	413	448	357	416	264	272	*	*	*	*	324	359
01:00	281	332	318	329	382	472	366	395	238	283	*	*	*	*	317	362
02:00	260	377	315	426	356	439	357	389	237	343	*	*	*	*	305	395
03:00	330	437	409	486	380	409	417	342	347	439	*	*	*	*	377	423
04:00	382	530	391	498	362	363	386	374	323	446	*	*	*	*	369	442
05:00	395	519	443	474	342	327	363	330	266	460	*	*	*	*	362	422
06:00	304	360	362	396	285	291	530	427	177	355	*	*	*	*	332	366
07:00	199	282	219	310	192	257	549	208	109	202	*	*	*	*	254	252
08:00	101	194	140	234	113	213	281	162	91	126	*	*	*	*	145	186
09:00	64	128	96	209	125	213	106	92	61	74	*	*	*	*	90	143
10:00	43	76	74	119	76	134	48	45	38	47	*	*	*	*	56	84
11:00	32	48	41	74	47	94	21	28	30	44	*	*	*	*	34	58
Total	4971	4923	5310	5296	4855	5196	5232	4419	4398	4435	0	0	0	0	4953	4853
Day	989		1060		100		965		883		0		0		980	
AM Peak	07:00	11:00	07:00	11:00	10:00	11:00	11:00	11:00	07:00	11:00	-	-	-	-	07:00	11:00
Vol.	443	240	392	246	415	464	371	339	412	263	-	-	-	-	316	310
PM Peak	17:00	16:00	17:00	16:00	12:00	13:00	19:00	18:00	15:00	17:00	-	-	-	-	15:00	16:00
Vol.	395	530	443	498	413	472	549	427	347	460	-	-	-	-	377	442
Comb. Total	989	94	10	0606	10	0051	9	651	8	8833	()		0	9	806
ADT	ΑI	OT 9,807	AAI	OT 9,807												



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Start		EB				WB				Comb ed	in		22-Sep-
	A.M.	LD	P.M.		A.M.	WD	P.M.		A.M.	ed	P.M.		16 Thu
Time 12:00	A.M. 2		64		6		73		8 A.IVI.		137		Inu
12:15	1		72		4		83		5		155		
12:13			59				77		7		136		
	5	40		074	2	4.4		204		20		<i>-7</i>	
12:45	4	12	79 70	274	2	14	68	301	6	26	147	575	
01:00	3		78		3		85		6		163		
01:15	1		75		1		78		2		153		
01:30	0		64		3		72		3		136		
01:45	3	7	64	281	1	8	97	332	4	15	161	613	
02:00	1		66		3		90		4		156		
02:15	2		70		6		103		8		173		
02:30	1		56		1		96		2		152		
02:45	5	9	68	260	4	14	88	377	9	23	156	637	
03:00	4		90		3		86		7		176		
03:15	3		98		0		123		3		221		
03:30	1		63		2		119		3		182		
03:45	6	14	79	330	0	5	109	437	6	19	188	767	
04:00	9	• • •	97	000	1	Ŭ	137	101	10		234		
04:15	6		92		5		130		11		222		
04:13					3				25		233		
	22 30	67	103	202		10	130	E20		0.5		012	
04:45		67	90	382	9	18	133	530	39	85	223	912	
05:00	36		93		2		133		38		226		
05:15	46		92		13		122		59		214		
05:30	64		100		16		140		80		240		
05:45	57	203	110	395	16	47	124	519	73	250	234	914	
06:00	72		94		19		109		91		203		
06:15	77		79		36		99		113		178		
06:30	116		73		46		81		162		154		
06:45	108	373	58	304	49	150	71	360	157	523	129	664	
07:00	106		60		38		79		144		139		
07:15	106		58		56		77		162		135		
07:30	125		46		63		70		188		116		
07:45	106	443	35	199	76	233	56	282	182	676	91	481	
08:00	88	110	31	100	48	200	66	202	136	0.0	97		
08:15	98		30		55		44		153		74		
08:30	97		22		55		48		152		70		
08:45	88	371	18	101	45	203	36	194	133	574	54	295	
		3/ 1		101	50	203		194	127	374	56	293	
09:00	77 70		19				37						
09:15	76		18		40		29		116		47		
09:30	66	000	20	2.4	54	000	32	400	120	400	52	400	
09:45	73	292	7	64	56	200	30	128	129	492	37	192	
10:00	67		17		45		21		112		38		
10:15	49		10		47		22		96		32		
10:30	73		7		56		15		129		22		
10:45	70	259	9	43	59	207	18	76	129	466	27	119	
11:00	67		16		54		13		121		29		
11:15	69		5		54		17		123		22		
11:30	54		2		61		12		115		14		
11:45	66	256	9	32	71	240	6	48	137	496	15	80	
Total	2306		2665		1339		3584		3645		6249		
Percent	63.3%		42.6%		36.7%		57.4%						
Day Total		497	7 1			492	23			989)4		
Peak	06:45	_	05:15	_	07:15	_	04:00	_	07:00	_	05:00	_	-
Vol.	445	_	396	_	243	_	530	_	676	_	914	_	_
P.H.F.	0.890	=	0.900	-	0.799	=	0.967	=	0.899	=	0.952	=	
г.п.г.	0.090		0.500		0.799		0.907		0.033		0.502		



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Start		EB				WB				Comb ed	in		23-Sep- 16
Time	A.M.		P.M.		A.M.		P.M.		A.M.	eu	P.M.		Fri
12:00	4		76		11		88		15		164		
12:15	0		75		10		78		10		153		
12:30	1		90		8		96		9		186		
12:45	1	6	71	312	3	32	98	360	4	38	169	672	
01:00	4	Ŭ	78	0.2	11	02	90	000	15	00	168	0.2	
01:15	4		79		4		86		8		165		
01:30	2		85		4		81		6		166		
01:45	2	12	76	318	3	22	72	329	5	34	148	647	
		12		310		22		329		34	153	047	
02:00	5		67		6		86		11				
02:15	3		85		2		123		5		208		
02:30	1	40	74	0.45	1	40	107	400	2	0.4	181	744	
02:45	3	12	89	315	3	12	110	426	6	24	199	741	
03:00	7		113		6		73		13		186		
03:15	1		104		1		121		2		225		
03:30	3		96		2		138		5		234		
03:45	6	17	96	409	1	10	154	486	7	27	250	895	
04:00	9		107		1		123		10		230		
04:15	8		93		3		123		11		216		
04:30	15		99		5		134		20		233		
04:45	22	54	92	391	7	16	118	498	29	70	210	889	
05:00	32		108		4		120		36		228		
05:15	39		118		9		121		48		239		
05:30	50		116		15		115		65		231		
05:45	62	183	101	443	14	42	118	474	76	225	219	917	
06:00	58	100	91	1-10	17	72	87	77.7	75	220	178	017	
06:15	81		91		23		106		104		197		
06:30			89		37		96				185		
	119	370		262		1 1 1		206	156	E11		750	
06:45	112	3/0	91	362	64	141	107	396	176	511	198	758	
07:00	92		67		44		83		136		150		
07:15	106		63		59		91		165		154		
07:30	104		56		47		77		151		133		
07:45	90	392	33	219	52	202	59	310	142	594	92	529	
08:00	86		32		75		72		161		104		
08:15	89		43		40		58		129		101		
08:30	87		36		66		62		153		98		
08:45	99	361	29	140	37	218	42	234	136	579	71	374	
09:00	67		21		39		66		106		87		
09:15	77		27		54		49		131		76		
09:30	70		19		62		54		132		73		
09:45	66	280	29	96	50	205	40	209	116	485	69	305	
10:00	53		32		48		27		101		59		
10:15	57		13		60		27		117		40		
10:30	75		15		53		36		128		51		
10:45	65	250	14	74	74	235	29	119	139	485	43	193	
11:00	62	200	22	, 4	61	200	22	113	123	700	44	133	
11:15			9										
	75 54				61 62		23		136		32		
11:30	54	252	7	4.4	62	240	18	71	116	400	25	445	
11:45	62	253	3	41	62	246	11	74	124	499	14	115	
Total Percent	2190 61.3%		3120 44.3%		1381 38.7%		3915 55.7%		3571		7035		
ay Total		531				529				106	06		
Peak Vol.	06:30 429	-	05:00 443	-	10:45 258	-	03:30 538	-	06:30 633	-	03:15 939	-	-



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Start		EB				WB				Comb ed	in		24-Sep-
Time	A.M.		P.M.		A.M.		P.M.		A.M.	ed	P.M.		16 Sat
12:00	4		117		15		117		19		234		Oat
12:15	5		108		13		113		18		221		
12:30	4		96		11		106		15		202		
12:45	1	14	92	413	8	47	112	448	9	61	204	861	
01:00	4	17	112	710	5	71	142	770	9	01	254	001	
01:00	5		81		10		99		15		180		
01:13					3								
	1	40	103	202		20	113	470	4	24	216	054	
01:45	2	12	86	382	4	22	118	472	6	34	204	854	
02:00	2		98		3		130		5		228		
02:15	6		80		3		110		9		190		
02:30	1		90		3		103		4		193		
02:45	2	11	88	356	2	11	96	439	4	22	184	795	
03:00	1		80		0		102		1		182		
03:15	3		128		1		99		4		227		
03:30	1		88		1		107		2		195		
03:45	6	11	84	380	1	3	101	409	7	14	185	789	
04:00	5		94		6		92		11		186		
04:15	4		84		4		104		8		188		
04:30	7		89		4		83		11		172		
04:45	10	26	95	362	3	17	84	363	13	43	172	725	
		20		302		17	98	303	7	43		123	
05:00	6		92		1						190		
05:15	16		78		3		75		19		153		
05:30	20		70		9		85		29		155		
05:45	17	59	102	342	8	21	69	327	25	80	171	669	
06:00	17		78		9		76		26		154		
06:15	24		72		12		93		36		165		
06:30	24		53		14		66		38		119		
06:45	35	100	82	285	26	61	56	291	61	161	138	576	
07:00	39		55		24		69		63		124		
07:15	48		39		26		63		74		102		
07:30	54		58		33		69		87		127		
07:45	57	198	40	192	35	118	56	257	92	316	96	449	
08:00	51	130	25	132	39	110	58	231	90	310	83	443	
08:00													
	57		30		42		54		99		84		
08:30	61		34	440	50	40=	57	0.40	111	404	91		
08:45	67	236	24	113	54	185	44	213	121	421	68	326	
09:00	79		23		61		62		140		85		
09:15	79		30		48		68		127		98		
09:30	80		44		74		48		154		92		
09:45	78	316	28	125	71	254	35	213	149	570	63	338	
10:00	103		22		78		51		181		73		
10:15	91		22		96		30		187		52		
10:30	117		20		74		30		191		50		
10:45	104	415	12	76	85	333	23	134	189	748	35	210	
11:00	83		13		102	500	32		185	0	45		
11:15	96		12		102		16		203		28		
11:15					118				203 222		20 33		
	104	20.4	12	47		404	21	0.4		0.40		1.14	
11:45	101	384	10	47	137	464	25	94	238	848	35	141	
Total	1782		3073		1536		3660		3318		6733		
Percent	53.7%		45.6%		46.3%		54.4%						
Day Total		485	5			519	96			100	51		
Doole	10.00		12:00		11.00		00.45		11.00		00.45		
Peak	10:00	-	12:00	-	11:00	-	00:15	-	11:00	-	00:15	-	-
Vol.	415	-	413	-	464	-	473	-	848	-	881	-	-
P.H.F.	0.887		0.882		0.847		0.833		0.891		0.867		



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Start		EB				WB				Comb	oin		25-Sep-	
		EB				VVB				ed			16	
Time	A.M.		P.M.		A.M.		P.M.		A.M.		P.M.		Sun	
12:00	7 12		90		10		82		17		172			
12:15	13		100		9		99		22		199			
12:30	7		85		5		112	440	12		197			
12:45	6	33	82	357	8	32	123	416	14	65	205	773		
01:00	5		87		6		96		11		183			
01:15	2		94		4		98		6		192			
01:30	4		98		1		100		5		198			
01:45	0	11	87	366	3	14	101	395	3	25	188	761		
02:00	2		82		3		93		5		175			
02:15	1		88		3		97		4		185			
02:30	1		99		5		105		6		204			
02:45	2	6	88	357	1	12	94	389	3	18	182	746		
03:00	5		92		1		106		6		198			
03:15	4		98		2		86		6		184			
03:30	2		91		4		73		6		164			
03:45	1	12	136	417	3	10	77	342	4	22	213	759		
04:00	2		94		4		96		6		190			
04:15	4		88		0		95		4		183			
04:30	3		113		1		89		4		202			
04:45	3	12	91	386	Ö	5	94	374	3	17	185	760		
05:00	4	12	86	300	2	3	93	314	6	17	179	700		
05:00	7		87		2		81		9		168			
05:30	11	00	95	000	3	4.5	75	000	14	47	170	000		
05:45	10	32	95	363	8	15	81	330	18	47	176	693		
06:00	17		111		12		101		29		212			
06:15	16		132		11		117		27		249			
06:30	26		145		7		108		33		253			
06:45	15	74	142	530	12	42	101	427	27	116	243	957		
07:00	24		131		23		66		47		197			
07:15	34		145		12		49		46		194			
07:30	31		145		25		46		56		191			
07:45	47	136	128	549	17	77	47	208	64	213	175	757		
08:00	41		94		27		49		68		143			
08:15	39		81		32		40		71		121			
08:30	58		55		40		36		98		91			
08:45	52	190	51	281	40	139	37	162	92	329	88	443		
09:00	60		31		67		31		127		62			
09:15	60		25		62		22		122		47			
09:30	62		25		52		14		114		39			
09:45	75	257	25	106	69	250	25	92	144	507	50	198		
10:00	62	201	17	100	52	200	15	02	114	001	32	100		
10:15	88		11		79		9		167		20			
10:30	77		15		61		12		138		27			
10:45		317	5	48	84	276		45	174	593	14	93		
	90	317		40		270	9	45		595		93		
11:00	87		7		80		8		167		15			
11:15	80		8		85		5		165		13			
11:30	114	074	2	0.4	91	000	11		205	710	13	40		
11:45	90	371	44	21	83	339	4_	28	173	710	88	49		
Total Percent	1451 54.5%		3781 54.1%		1211 45.5%		3208 45.9%		2662		6989			
Day Total		523	32			44	19			965	51			
Peak	10:45	_	06:30		10:45	_	00:15		10:45		06:00		_	
	371	-		-	340	-	430	-	711	-	957	-	-	-
Vol.		-	563	-		-		-		-		-	-	-
P.H.F.	0.814		0.971		0.934		0.874		0.867		0.946			



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Start		EB				WB	1			Comb ed	in		26-Sep- 16	
Time	A.M.		P.M.		A.M.		P.M.		A.M.	eu	P.M.		Mon	
12:00	5		51		8		63		13		114			
12:15	5		84		5		62		10		146			
12:30	1		63		7		79		8		142			
12:45	1	12	66	264	2	22	68	272	3	34	134	536		
01:00	3		61		1		70		4		131			
01:15	3		66		1		67		4		133			
01:30	1		57		3		76		4		133			
01:45	2	9	54	238	4	9	70	283	6	18	124	521		
02:00	1		50	200	0	J	84	200	1	10	134	021		
02:00	1		59		0		88		1		147			
02:13	2		54		4		90		6		144			
02:30	6	10	74	237		4	81	343	6	14	155	580		
		10		231	0	4		343		14		360		
03:00	3		88		2		102		5		190			
03:15	7		98		4		110		11		208			
03:30	5		80	o 4=	2		118	400	7		198			
03:45	6	21	81	347	3	11	109	439	9	32	190	786		
04:00	8		96		2		100		10		196			
04:15	12		80		3		121		15		201			
04:30	13		68		6		112		19		180			
04:45	24	57	79	323	4	15	113	446	28	72	192	769		
05:00	35		75		6		126		41		201			
05:15	48		72		6		117		54		189			
05:30	59		64		19		103		78		167			
05:45	58	200	55	266	15	46	114	460	73	246	169	726		
06:00	65		36		30		100		95		136			
06:15	87		47		35		92		122		139			
06:30	120		43		35		83		155		126			
06:45	107	379	51	177	47	147	80	355	154	526	131	532		
07:00	107	0,0	32	.,,	51	1-77	56	000	158	020	88	002		
07:15	86		37		58		50		144		87			
07:13	112		22		50		47		162		69			
07:45	107	412		109	64	223		202		625	67	311		
08:00		412	18	109		223	49 52	202	171	635		311		
	94		25		56 50		52		150		77 60			
08:15	99		28		58		32		157		60			
08:30	88	0.47	23	0.4	49	000	24	400	137	507	47	047		
08:45	66	347	15	91	57	220	18	126	123	567	33	217		
09:00	64		11		41		18		105		29			
09:15	56		17		46		16		102		33			
09:30	70		17		32		20		102		37			
09:45	74	264	16	61	49	168	20	74	123	432	36	135		
10:00	79		7		48		10		127		17			
10:15	62		10		53		5		115		15			
10:30	59		13		63		16		122		29			
10:45	60	260	8	38	52	216	16	47	112	476	24	85		
11:00	60		19		57		13		117		32			
11:15	67		7		65		13		132		20			
11:30	59		3		88		10		147		13			
11:45	60	246	1	30	53	263	8	44	113	509	9	74		
Total	2217	0	2181		1344		3091		3561		5272	7 -		
Percent	62.3%		41.4%		37.7%		58.6%		0001		0212			
ay Total		439	98			443	35			883	33			
Peak	06:15	_	03:15	_	11:00	_	04:15	_	07:30	_	03:15	_	_	
Peak Vol.	06:15 421	-	03:15 355	-	11:00 263	-	04:15 472	-	07:30 640	-	03:15 792	-	-	



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EB						Elliali. Uate	arequests@puii	ic.com						
Start		Cars &	2 Axle		2 Axle	3 Axle	4 Axle	<5 AxI	5 Axle	>6 Axl	<6 AxI	6 Axle	>6 AxI	
Time	Bikes	Trailers	Long	Buses	6 Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Total
09/22/1														
6	1	9	2	0	0	0	0	0	0	0	0	0	0	12
01:00	0	6	1	0	0	0	0	0	0	0	0	0	0	7
02:00	0	6	3	0	0	0	0	0	0	0	0	0	0	9
03:00	0	9	2	0	2	0	0	0	0	0	1	0	0	14
04:00	2	44	9	0	10	1	0	0	1	0	0	0	0	67
05:00	2	115	46	2	30	1	0	4	3	0	0	0	0	203
06:00	2	245	74	5	44	0	0	2	1	0	0	0	0	373
07:00	3	315	81	4	31	2	1	5	1	0	0	0	0	443
08:00	5	256	68	3	31	3	0	2	3	0	0	0	0	371
09:00	2	186	60	5	31	2	1	2	2	0	0	0	1	292
10:00	1	183	47	3	23	0	0	0	2	0	0	0	0	259
11:00	7	169	43	3	23	2	1	6	2	0	0	0	0	256
12 PM	6	181	59	1	19	4	0	3	1	0	0	0	0	274
13:00	11	186	52	6	21	1	0	3	1	0	0	0	0	281
14:00	5	170	48	1	29	1	0	3	3	0	0	0	0	260
15:00	13	226	57	5	24	2	0	2	1	0	0	0	0	330
16:00	11	269	66	1	29	1	0	5	0	0	0	0	0	382
17:00	8	306	60	0	19	1	0	1	0	0	0	0	0	395
18:00	6	232	47	0	18	1	0	0	0	0	0	0	0	304
19:00	7	157	21	0	12	1	0	1	0	0	0	0	0	199
20:00	3	72	15	0	8	1	0	0	2	0	0	0	0	101
21:00	1	54	8	0	0	1	0	0	0	0	0	0	0	64
22:00	0	37	3	0	2	0	0	0	1	0	0	0	0	43
23:00	0	25	5	0	1_	0	0	0	1_	0	0	0	0	32
Total	96	3458	877	39	407	25	3	39	25	0	1	0	1	4971
Percent	1.9%	69.6%	17.6%	0.8%	8.2%	0.5%	0.1%	0.8%	0.5%	0.0%	0.0%	0.0%	0.0%	
AM Peak	11:00	07:00	07:00	06:00	06:00	08:00	07:00	11:00	05:00		03:00		09:00	07:00
Vol.	7	315	81	5	44	3	1	6	3		1		1	443
PM	15:00	17:00	16:00	13:00	14:00	12:00		16:00	14:00					17:00
Peak														
Vol.	13	306	66	6	29	4		5	3					395



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EB						Office: 508-875 Email: data	5-0100 Fax: 508 arequests@pdil					51	te Code: 1	3678.00
Start		Cars &	2 Axle		2 Axle	3 Axle	4 Axle	<5 Axl	5 Axle	>6 AxI	<6 AxI	6 Axle	>6 AxI	
Time	Bikes	Trailers	Long	Buses	6 Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Total
09/23/1	DIRCO	TTUIICIS	Long	Duscs	0 1110	Olligic	Onigic	Doubic	Doubic	Double	IVIGILI	IVIGILI	ividiti	iotai
6	0	6	0	0	0	0	0	0	0	0	0	0	0	6
01:00	0	8	3	0	1	0	0	0	0	0	0	0	0	12
02:00	0	7	3	0	1	0	0	0	1	0	0	0	0	12
03:00	Ö	14	1	0	0	0	0	0	2	0	0	0	0	17
04:00	2	40	9	0	3	0	0	0	0	0	0	0	0	54
05:00	2	98	42	2	31	1	Ō	2	5	0	Ö	Ō	0	183
06:00	4	248	72	5	38	0	0	2	1	0	0	0	0	370
07:00	2	276	59	7	42	1	0	4	1	0	0	0	0	392
08:00	3	241	74	2	33	3	1	1	3	0	0	0	0	361
09:00	3	192	46	5	25	3	0	4	2	0	0	0	0	280
10:00	4	166	47	6	21	3	0	3	0	0	0	0	0	250
11:00	3	174	45	2	23	2	1	3	0	0	0	0	0	253
12 PM	6	218	53	2	26	3	1	0	3	0	0	0	0	312
13:00	6	218	51	10	27	2	0	2	2	0	0	0	0	318
14:00	5	216	62	6	23	1	0	2	0	0	0	0	0	315
15:00	9	301	73	1	21	1	0	3	0	0	0	0	0	409
16:00	5	276	67	4	33	3	0	1	2	0	0	0	0	391
17:00	8	338	67	3	23	4	0	0	0	0	0	0	0	443
18:00	6	251	63	0	39	2	1	0	0	0	0	0	0	362
19:00	2	157	35	2	23	0	0	0	0	0	0	0	0	219
20:00	3	107	20	0	9	0	0	1	0	0	0	0	0	140
21:00	0	83	9	0	4	0	0	0	0	0	0	0	0	96
22:00	0	63	8	0	3	0	0	0	0	0	0	0	0	74
23:00	0	30	9	0	2	0	0	0	0	0	0	0	0	41_
Total	73	3728	918	57	451	29	4	28	22	0	0	0	0	5310
Percent	1.4%	70.2%	17.3%	1.1%	8.5%	0.5%	0.1%	0.5%	0.4%	0.0%	0.0%	0.0%	0.0%	
AM Peak	06:00	07:00	08:00	07:00	07:00	08:00	08:00	07:00	05:00					07:00
Vol.	4	276	74	7	42	3	1	4	5					392
PM Peak	15:00	17:00	15:00	13:00	18:00	17:00	12:00	15:00	12:00					17:00
Vol.	9	338	73	10	39	4	1	3	3					443



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EB						Email: data	arequests@pail	ic.com						
Start		Cars &	2 Axle		2 Axle	3 Axle	4 Axle	<5 AxI	5 Axle	>6 Axl	<6 AxI	6 Axle	>6 AxI	
Time	Bikes	Trailers	Long	Buses	6 Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Total
09/24/1														
6	0	11	3	0	0	0	0	0	0	0	0	0	0	14
01:00	0	8	3	0	0	0	0	0	1	0	0	0	0	12
02:00	0	10	1	0	0	0	0	0	0	0	0	0	0	11
03:00	0	10	0	0	1	0	0	0	0	0	0	0	0	11
04:00	0	17	9	0	0	0	0	0	0	0	0	0	0	26
05:00	4	31	12	0	8	0	0	3	1	0	0	0	0	59
06:00	1	72	18	0	7	0	0	2	0	0	0	0	0	100
07:00	1	135	43	1	14	1	0	3	0	0	0	0	0	198
08:00	2	172	46	2	11	0	0	3	0	0	0	0	0	236
09:00	6	228	52	1	26	1	0	2	0	0	0	0	0	316
10:00	12	292	72	0	36	0	0	3	0	0	0	0	0	415
11:00	6	284	69	1	19	2	0	3	0	0	0	0	0	384
12 PM	11	287	79	2	29	0	1	3	1	0	0	0	0	413
13:00	11	271	64	0	35	1	0	0	0	0	0	0	0	382
14:00	7	264	57	0	25	1	0	2	0	0	0	0	0	356
15:00	18	264	72	1	23	1	0	0	1	0	0	0	0	380
16:00	9	260	54	0	34	3	0	2	0	0	0	0	0	362
17:00	7	259	56	1	18	1	0	0	0	0	0	0	0	342
18:00	3	210	56	0	14	1	0	1	0	0	0	0	0	285
19:00	1	144	26	1	18	1	0	0	1	0	0	0	0	192
20:00	1	83	19	0	9	0	0	1	0	0	0	0	0	113
21:00	0	99	20	0	5	0	0	0	1	0	0	0	0	125
22:00	1	60	11	0	4	0	0	0	0	0	0	0	0	76
23:00	0	39	4	0	3	0	0	0	1_	0	0	0	0	47
Total	101	3510	846	10	339	13	1	28	7	0	0	0	0	4855
Percent	2.1%	72.3%	17.4%	0.2%	7.0%	0.3%	0.0%	0.6%	0.1%	0.0%	0.0%	0.0%	0.0%	
AM Peak	10:00	10:00	10:00	08:00	10:00	11:00		05:00	01:00					10:00
Vol.	12	292	72	2	36	2		3	1					415_
PM Peak	15:00	12:00	12:00	12:00	13:00	16:00	12:00	12:00	12:00					12:00
Vol.	18	287	79	2	35	3	1	3	1					413



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EB						Office: 508-875 Email: data	5-0100 Fax: 508 arequests@pdil					5	te Code: 1	3678.00
Start		Cars &	2 Axle		2 Axle	3 Axle	4 Axle	<5 Axl	5 Axle	>6 Axl	<6 AxI	6 Axle	>6 AxI	
Time	Bikes	Trailers	Long	Buses	6 Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Total
09/25/1	DINCS	Trailors	Long	Duscs	0 1110	Olligic	Onigic	Doubic	Doubic	Double	IVIUILI	IVIUIU	ividiti	Total
6	0	25	5	0	3	0	0	0	0	0	0	0	0	33
01:00	0	10	1	0	0	0	0	0	0	0	0	0	0	11
02:00	0	4	2	Ő	0	0	0	0	0	0	0	0	0	6
03:00	1	9	1	0	1	0	0	Ö	0	Ö	0	0	Õ	12
04:00	0	10	2	0	0	0	0	0	0	0	0	0	0	12
05:00	1	14	11	Ö	4	Ö	Ō	2	0	0	0	0	0	32
06:00	1	54	11	0	8	0	0	0	0	0	0	0	0	74
07:00	2	97	20	0	15	0	0	2	0	0	0	0	0	136
08:00	2	129	31	0	23	1	0	3	1	0	0	0	0	190
09:00	3	187	40	0	22	2	0	3	0	0	0	0	0	257
10:00	10	215	66	1	20	0	0	4	1	0	0	0	0	317
11:00	4	261	67	0	33	0	0	5	1	0	0	0	0	371
12 PM	11	260	56	0	23	0	0	6	1	0	0	0	0	357
13:00	17	271	53	0	21	1	0	3	0	0	0	0	0	366
14:00	23	261	48	1	19	2	0	3	0	0	0	0	0	357
15:00	19	281	82	0	29	0	0	6	0	0	0	0	0	417
16:00	13	283	67	0	18	1	1	1	2	0	0	0	0	386
17:00	14	266	60	0	16	0	0	6	1	0	0	0	0	363
18:00	10	408	77	3	27	2	0	3	0	0	0	0	0	530
19:00	6	450	61	0	25	2	0	2	3	0	0	0	0	549
20:00	0	228	38	0	14	0	0	0	1	0	0	0	0	281
21:00	1	90	10	0	3	1	0	0	0	0	1	0	0	106
22:00	0	39	7	0	0	0	0	1	1	0	0	0	0	48
23:00	0	19	1_	0	1_	0	0	0	0	0	0	0	0	21
Total	138	3871	817	5	325	12	1	50	12	0	1	0	0	5232
Percent	2.6%	74.0%	15.6%	0.1%	6.2%	0.2%	0.0%	1.0%	0.2%	0.0%	0.0%	0.0%	0.0%	
AM Peak	10:00	11:00	11:00	10:00	11:00	09:00		11:00	08:00					11:00
Vol.	10	261	67	1	33	2		5	1					371
PM		19:00		10:00			16:00		10:00		21:00			
Peak	14:00	19:00	15:00	18:00	15:00	14:00	16:00	12:00	19:00		21:00			19:00
Vol.	23	450	82	3	29	2	1	6	3		1			549



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EB						Office: 508-875 Email: data	5-0100 Fax: 508 arequests@pdil					51	te Code: 1	3678.00
Start		Cars &	2 Axle		2 Axle	3 Axle	4 Axle	<5 Axl	5 Axle	>6 Axl	<6 AxI	6 Axle	>6 AxI	
Time	Bikes	Trailers	Long	Buses	6 Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Total
09/26/1	DIKES	Trailers	Long	Duses	0 1116	Sirigie	Sirigie	Double	Double	Double	Multi	IVIUILI	ividiti	Total
6	0	12	0	0	0	0	0	0	0	0	0	0	0	12
01:00	0	7	1	0	1	0	0	0	0	0	0	0	0	9
02:00	0	8	2	0	0	0	0	0	0	0	0	0	0	10
03:00	0	16	1	Ö	2	0	0	1	1	Õ	0	Õ	Õ	21
04:00	0	40	12	0	4	0	0	0	1	0	0	0	0	57
05:00	1	125	41	2	28	Ö	Ō	2	1	0	Ö	Ō	0	200
06:00	1	255	64	1	53	4	0	0	1	0	0	0	0	379
07:00	0	289	78	3	36	1	1	2	2	0	0	0	0	412
08:00	3	245	59	3	29	1	0	4	3	0	0	0	0	347
09:00	2	180	52	4	17	3	0	3	3	0	0	0	0	264
10:00	6	170	47	4	25	1	0	3	4	0	0	0	0	260
11:00	3	158	51	2	23	2	0	4	3	0	0	0	0	246
12 PM	2	180	50	0	26	3	0	3	0	0	0	0	0	264
13:00	4	152	39	15	23	2	0	3	0	0	0	0	0	238
14:00	8	148	51	1	17	6	0	4	2	0	0	0	0	237
15:00	6	227	68	3	26	9	0	5	3	0	0	0	0	347
16:00	6	220	59	1	30	3	0	2	2	0	0	0	0	323
17:00	4	194	40	1	21	3	0	2	1	0	0	0	0	266
18:00	2	114	40	0	18	1	0	1	1	0	0	0	0	177
19:00	0	77	20	1	10	1	0	0	0	0	0	0	0	109
20:00	2	79	5	0	3	0	0	0	2	0	0	0	0	91
21:00	1	47	8	1	4	0	0	0	0	0	0	0	0	61
22:00	0	29	5	0	4	0	0	0	0	0	0	0	0	38
23:00	1_	24	3	0	1_	1_	0	0	0	0	0	0	0	30
Total	52	2996	796	42	401	41	1	39	30	0	0	0	0	4398
Percent	1.2%	68.1%	18.1%	1.0%	9.1%	0.9%	0.0%	0.9%	0.7%	0.0%	0.0%	0.0%	0.0%	
AM Peak	10:00	07:00	07:00	09:00	06:00	06:00	07:00	08:00	10:00					07:00
Vol.	6	289	78	4	53	4	1	4	4					412
PM Peak	14:00	15:00	15:00	13:00	16:00	15:00		15:00	15:00					15:00
Vol.	8	227	68	15	30	9		5	3					347



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MD						Office: 508-875 Email: data	5-0100 Fax: 508 arequests@pdil					51	te Code: 1	3678.00
WB		0 0	0 4.4-		0 4				_ ^ ^l_	C AI	.0 11	C Al.	C AI	
Start	Diless	Cars &	2 Axle	D	2 Axle	3 Axle	4 Axle	<5 Axl	5 Axle	>6 Axl	<6 Axl	6 Axle	>6 Axl	Tatal
Time	Bikes	Trailers	Long	Buses	6 Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	<u>Total</u>
09/22/1	0	40	_	^	^	^	•	^	•	0	^	^	0	4.4
6	0	12	2	0	0	0	0	0	0	0	0	0	0	14
01:00	0	8	0	0	0	0	0	0	0	0	0	0	0	8
02:00	0	13	1	0	0	0	0	0	0	0	0	0	0	14
03:00	1	2	0	0	1	0	0	1	0	0	0	0	0	5
04:00	0	12	4	0	0	0	0	0	2	0	0	0	0	18
05:00	1	27	10	1	5	2	0	0	1	0	0	0	0	47
06:00	3	107	23	2	12	2	0	0	1	0	0	0	0	150
07:00	6	146	51	6	19	4	0	1	0	0	0	0	0	233
08:00	6	120	49	5	18	1	0	3	1	0	0	0	0	203
09:00	2	117	51	6	17	2	0	2	3	0	0	0	0	200
10:00	2	139	45	3	14	2	0	0	2	0	0	0	0	207
11:00	8	158	47	4	16	1	4	2	0	0	0	0	0	240
12 PM	6	203	62	3	17	0	1	6	3	0	0	0	0	301
13:00	10	238	55	3	13	3	2	3	5	0	0	0	0	332
14:00	9	258	79	5	20	0	0	4	2	0	0	0	0	377
15:00	6	290	98	3	30	3	2	4	1	0	0	0	0	437
16:00	14	380	110	0	17	3	0	3	3	0	0	0	0	530
17:00	15	397	82	0	20	2	0	1	2	0	0	0	0	519
18:00	6	280	46	0	26	0	0	2	0	0	0	0	0	360
19:00	3	218	42	1	15	2	0	1	0	0	0	0	0	282
20:00	3	144	31	0	14	0	0	2	0	0	0	0	0	194
21:00	1	105	14	0	7	0	0	1	0	0	0	0	0	128
22:00	0	59	12	0	5	0	0	0	0	0	0	0	0	76
23:00	0	42	5	0	1_	0	0	0	0	0	0	0	0	48
Total	102	3475	919	42	287	27	9	36	26	0	0	0	0	4923
Percent	2.1%	70.6%	18.7%	0.9%	5.8%	0.5%	0.2%	0.7%	0.5%	0.0%	0.0%	0.0%	0.0%	
AM	11:00	11:00	07:00	07:00	07:00	07:00	11:00	08:00	09:00					11:00
Peak Vol.	8	158	51	6	19	4	4	3	3					240
PM			31											
Peak	17:00	17:00	16:00	14:00	15:00	13:00	13:00	12:00	13:00					16:00
Vol.	15	397	110	5	30	3	2	6	5					530



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WB						Email: data	arequests@pail	ic.com						
Start		Cars &	2 Axle		2 Axle	3 Axle	4 Axle	<5 AxI	5 Axle	>6 Axl	<6 AxI	6 Axle	>6 AxI	
Time	Bikes	Trailers	Long	Buses	6 Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Total
09/23/1														
6	1	25	5	0	1	0	0	0	0	0	0	0	0	32
01:00	0	19	2	0	1	0	0	0	0	0	0	0	0	22
02:00	0	7	3	0	2	0	0	0	0	0	0	0	0	12
03:00	0	6	1	0	2	0	0	1	0	0	0	0	0	10
04:00	1	11	2	0	1	1	0	0	0	0	0	0	0	16
05:00	0	22	14	1	4	0	0	0	1	0	0	0	0	42
06:00	1	94	28	1	13	3	0	0	1	0	0	0	0	141
07:00	5	136	35	4	16	3	0	0	2	1	0	0	0	202
08:00	2	139	51	5	13	0	1	3	4	0	0	0	0	218
09:00	2	120	47	7	22	0	2	1	4	0	0	0	0	205
10:00	4	151	52	3	17	2	2	1	3	0	0	0	0	235
11:00	4	182	36	4	14	2	0	2	2	0	0	0	0	246
12 PM	10	239	75	7	26	1	1	0	1	0	0	0	0	360
13:00	6	217	70	1	27	3	0	4	1	0	0	0	0	329
14:00	9	280	88	7	31	2	0	6	3	0	0	0	0	426
15:00	10	335	101	1	32	1	0	6	0	0	0	0	0	486
16:00	11	370	89	2	22	0	0	3	1	0	0	0	0	498
17:00	7	359	72	1	27	1	1	6	0	0	0	0	0	474
18:00	8	293	60	0	27	2	0	3	3	0	0	0	0	396
19:00	6	249	46	0	8	1	0	0	0	0	0	0	0	310
20:00	3	174	41	0	14	0	0	2	0	0	0	0	0	234
21:00	0	161	36	0	12	0	0	0	0	0	0	0	0	209
22:00	0	94	20	1	4	0	0	0	0	0	0	0	0	119
23:00	0	62	10	0	2	0	0	0	0	0	0	0	0	74_
Total	90	3745	984	45	338	22	7	38	26	1	0	0	0	5296
Percent	1.7%	70.7%	18.6%	0.8%	6.4%	0.4%	0.1%	0.7%	0.5%	0.0%	0.0%	0.0%	0.0%	
AM Peak	07:00	11:00	10:00	09:00	09:00	06:00	09:00	08:00	08:00	07:00				11:00
Vol.	5	182	52	7	22	3	2	3	4	1				246
PM Peak	16:00	16:00	15:00	12:00	15:00	13:00	12:00	14:00	14:00					16:00
Vol.	11	370	101	7	32	3	1	6	3					498



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WB						Email: data	arequests@pail	ic.com						
Start		Cars &	2 Axle		2 Axle	3 Axle	4 Axle	<5 Axl	5 Axle	>6 Axl	<6 Axl	6 Axle	>6 AxI	
Time	Bikes	Trailers	Long	Buses	6 Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Total
09/24/1			_			-	_							
6	0	38	6	1	1	0	0	0	1	0	0	0	0	47
01:00	0	14	7	0	1	0	0	0	0	0	0	0	0	22
02:00	0	9	2	0	0	0	0	0	0	0	0	0	0	11
03:00	0	2	0	0	1	0	0	0	0	0	0	0	0	3
04:00	1	10	4	0	2	0	0	0	0	0	0	0	0	17
05:00	0	15	4	0	1	1	0	0	0	0	0	0	0	21
06:00	1	45	8	0	4	1	0	2	0	0	0	0	0	61
07:00	1	75	23	2	13	3	0	1	0	0	0	0	0	118
08:00	2	134	35	1	11	0	0	1	1	0	0	0	0	185
09:00	3	183	54	0	8	1	1	3	1	0	0	0	0	254
10:00	3	243	69	0	14	0	0	1	3	0	0	0	0	333
11:00	6	347	84	0	25	1	0	1	0	0	0	0	0	464
12 PM	7	312	99	1	22	2	0	4	1	0	0	0	0	448
13:00	12	339	86	0	31	0	1	2	1	0	0	0	0	472
14:00	12	329	77	0	18	1	0	2	0	0	0	0	0	439
15:00	14	300	70	1	20	1	1	2	0	0	0	0	0	409
16:00	3	282	57	0	19	1	0	1	0	0	0	0	0	363
17:00	6	248	55	1	16	0	0	0	1	0	0	0	0	327
18:00	1	226	53	0	10	0	0	1	0	0	0	0	0	291
19:00	3	188	48	1	15	0	0	2	0	0	0	0	0	257
20:00	1	160	38	0	14	0	0	0	0	0	0	0	0	213
21:00	3	173	29	0	8	0	0	0	0	0	0	0	0	213
22:00	1	104	23	0	6	0	0	0	0	0	0	0	0	134
23:00	0	81	9	0	4	0	0	0	0	0	0	0	0	94_
Total	80	3857	940	8	264	12	3	23	9	0	0	0	0	5196
Percent	1.5%	74.2%	18.1%	0.2%	5.1%	0.2%	0.1%	0.4%	0.2%	0.0%	0.0%	0.0%	0.0%	
AM	11:00	11:00	11:00	07:00	11:00	07:00	09:00	09:00	10:00					11:00
Peak							4							
Vol.	6	347	84	2	25	3	1	3	3				-	464
PM Peak	15:00	13:00	12:00	12:00	13:00	12:00	13:00	12:00	12:00					13:00
Vol.	14	339	99	1	31	2	1	4	1					472



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WB						Email: data	arequests@pail	ic.com						
Start		Cars &	2 Axle		2 Axle	3 Axle	4 Axle	<5 AxI	5 Axle	>6 Axl	<6 AxI	6 Axle	>6 AxI	
Time	Bikes	Trailers	Long	Buses	6 Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Total
09/25/1														
6	0	29	3	0	0	0	0	0	0	0	0	0	0	32
01:00	0	12	2	0	0	0	0	0	0	0	0	0	0	14
02:00	0	9	2	0	1	0	0	0	0	0	0	0	0	12
03:00	0	9	1	0	0	0	0	0	0	0	0	0	0	10
04:00	0	4	0	0	1	0	0	0	0	0	0	0	0	5
05:00	0	7	5	0	0	1	0	2	0	0	0	0	0	15
06:00	0	24	10	0	3	0	0	5	0	0	0	0	0	42
07:00	0	55	14	0	8	0	0	0	0	0	0	0	0	77
08:00	4	99	29	0	7	0	0	0	0	0	0	0	0	139
09:00	12	168	50	1	18	1	0	0	0	0	0	0	0	250
10:00	12	189	58	0	15	0	0	2	0	0	0	0	0	276
11:00	13	249	59	0	17	0	0	1	0	0	0	0	0	339
12 PM	16	303	77	2	14	2	0	2	0	0	0	0	0	416
13:00	12	293	65	0	20	3	0	2	0	0	0	0	0	395
14:00	18	297	50	0	19	0	1	2	2	0	0	0	0	389
15:00	7	263	59	0	10	1	0	1	1	0	0	0	0	342
16:00	12	286	53	1	22	0	0	0	0	0	0	0	0	374
17:00	5	252	57	0	13	1	0	1	1	0	0	0	0	330
18:00	14	317	70	3	14	0	1	6	2	0	0	0	0	427
19:00	1	157	34	0	16	0	0	0	0	0	0	0	0	208
20:00	0	130	23	0	6	1	0	2	0	0	0	0	0	162
21:00	2	71	16	0	2	0	0	1	0	0	0	0	0	92
22:00	0	33	11	0	0	0	0	1	0	0	0	0	0	45
23:00	0	26	2	0	0	0	0	0	0	0	0	0	0	28_
_ Total	128	3282	750	7	206	10	2	28	6	0	0	0	0	4419
Percent	2.9%	74.3%	17.0%	0.2%	4.7%	0.2%	0.0%	0.6%	0.1%	0.0%	0.0%	0.0%	0.0%	
AM Peak	11:00	11:00	11:00	09:00	09:00	05:00		06:00						11:00
Vol.	13	249	59	1	18	1		5						339
PM Peak	14:00	18:00	12:00	18:00	16:00	13:00	14:00	18:00	14:00					18:00
Vol.	18	317	77	3	22	3	1	6	2					427



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WB						Email: data	arequests@pail	ic.com						
Start		Cars &	2 Axle		2 Axle	3 Axle	4 Axle	<5 Axl	5 Axle	>6 Axl	<6 Axl	6 Axle	>6 AxI	
Time	Bikes	Trailers	Long	Buses	6 Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Total
09/26/1			_			-	_							
6	0	18	3	0	1	0	0	0	0	0	0	0	0	22
01:00	0	6	1	0	0	0	0	1	0	0	1	0	0	9
02:00	0	4	0	0	0	0	0	0	0	0	0	0	0	4
03:00	0	8	0	0	3	0	0	0	0	0	0	0	0	11
04:00	0	9	3	1	2	0	0	0	0	0	0	0	0	15
05:00	0	31	10	1	3	1	0	0	0	0	0	0	0	46
06:00	2	97	30	0	11	3	0	2	2	0	0	0	0	147
07:00	2	150	40	6	19	4	1	0	1	0	0	0	0	223
08:00	4	144	47	3	16	1	0	3	2	0	0	0	0	220
09:00	4	97	41	4	12	5	0	2	3	0	0	0	0	168
10:00	3	133	51	4	17	1	0	4	3	0	0	0	0	216
11:00	4	178	49	3	19	2	2	2	4	0	0	0	0	263
12 PM	3	184	54	1	16	1	0	6	7	0	0	0	0	272
13:00	5	187	52	4	26	1	1	6	1	0	0	0	0	283
14:00	7	242	59	5	20	4	1	3	2	0	0	0	0	343
15:00	2	292	109	3	25	3	0	3	2	0	0	0	0	439
16:00	5	305	94	2	35	0	0	3	2	0	0	0	0	446
17:00	3	339	84	1	32	1	0	0	0	0	0	0	0	460
18:00	4	266	62	0	21	0	0	1	1	0	0	0	0	355
19:00	3	159	28	0	11	0	0	1	0	0	0	0	0	202
20:00	1	93	23	0	6	1	1	0	1	0	0	0	0	126
21:00	1	59	10	0	3	0	0	1	0	0	0	0	0	74
22:00	0	41	3	0	3	0	0	0	0	0	0	0	0	47
23:00	0	33	7	0	4	0	0	0	0	0	0	0	0	44_
Total	53	3075	860	38	305	28	6	38	31	0	1	0	0	4435
Percent	1.2%	69.3%	19.4%	0.9%	6.9%	0.6%	0.1%	0.9%	0.7%	0.0%	0.0%	0.0%	0.0%	
AM Peak	08:00	11:00	10:00	07:00	07:00	09:00	11:00	10:00	11:00		01:00			11:00
Vol.	4	178	51	6	19	5	2	4	4		1			263
PM	14:00	17:00	15:00	14:00	16:00	14:00	13:00	12:00	12:00					17:00
Peak Vol.	7	339	109	5	35	4	1	6	7					460
۷ OI.	,	559	103	J	55	4		U	,					+00



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EB							Liliali. Gati	arequests@pu	ilic.com							
Start	1	15	20	25	30	35	40	45	50	55	60	65	70	Total	85th	Ave
Time	14	19	24	29	34	39	44	49	54	59	64	69	9999		% ile	Speed
09/22/																
16	0	0	0	0	0	1	4	3	3	0	1	0	0	12	52	47
01:00	0	0	0	0	0	0	5	2	0	0	0	0	0	7	46	43
02:00	0	0	0	0	0	1	6	1	0	1	0	0	0	9	47	44
03:00	0	0	0	0	0	1	1	5	4	3	0	0	0	14	55	49
04:00	0	0	0	3	1	5	18	24	11	3	1	1	0	67	51	46
05:00	0	0	1	3	4	7	30	90	55	11	2	0	0	203	52	47
06:00	0	3	2	2	1	10	76	182	81	14	2	0	0	373	51	47
07:00	0	0	1	2	5	12	75	186	136	20	4	2	0	443	52	48
08:00	1	1	3	2	3	11	60	157	108	22	2	0	1	371	52	47
09:00	0	0	1	1	2	17	74	144	36	15	2	0	0	292	50	46
10:00	0	0	2	3	2	6	63	119	53	8	3	0	0	259	51	47
11:00	2	1	0	4	2	38	105	84	18	2	0	0	0	256	47	43
12 PM	1	4	1	3	6	22	129	85	16	6	1	0	0	274	47	43
13:00	1	0	2	2	8	37	115	99	16	1	0	0	0	281	47	43
14:00	0	0	2	2	3	13	58	106	61	12	3	0	0	260	52	47
15:00	0	1	3	4	3	23	79	136	68	11	1	1	0	330	51	46
16:00	1	0	1	2	1	26	58	171	93	23	5	0	1	382	52	47
17:00	0	0	0	4	2	18	90	157	104	16	3	1	0	395	52	47
18:00	0	0	0	1	0	4	47	138	83	22	6	0	3	304	52	48
19:00	0	0	0	0	2	10	53	86	35	12	1	0	0	199	51	47
20:00	0	0	0	0	1	3	35	40	16	6	0	0	0	101	51	46
21:00	0	0	0	0	2	5	19	24	12	2	0	0	0	64	50	46
22:00	0	0	0	0	1	4	11	15	6	5	1	0	0	43	53	47
23:00	0	0	0	0	0	3	14	11	4	0	0	0	0	32	48	45
Total	6	10	19	38	49	277	1225	2065	1019	215	38	5	5	4971		
%	0.1%	0.2%	0.4%	0.8%	1.0%	5.6%	24.6%	41.5%	20.5%	4.3%	0.8%	0.1%	0.1%			
AM Peak	11:00	06:00	08:00	11:00	07:00	11:00	11:00	07:00	07:00	08:00	07:00	07:00	08:00	07:00		
Vol.	2	3	3	4	5	38	105	186	136	22	4	2	1	443		
PM Peak	12:00	12:00	15:00	15:00	13:00	13:00	12:00	16:00	17:00	16:00	18:00	15:00	18:00	17:00		
Vol.	1	4	3	4	8	37	129	171	104	23	6	1	3	395		

Stats 15th Percentile : 40 MPH 50th Percentile : 46 MPH

85th Percentile: 51 MPH 95th Percentile: 54 MPH

Mean Speed(Average): 46 MPH
10 MPH Pace Speed: 40-49 MPH
Number in Pace: 3290
Percent in Pace: 66.2%
Number of Vehicles > 45 MPH: 2934
Percent of Vehicles > 45 MPH: 59.0%



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EB						,		5-0100 Fax: 50 arequests@pd						Site	Code. I	3070.00
Start	1	15	20	25	30	35	40	45	50	55	60	65	70	Total	85th	Ave
Time	14	19	24	29	34	39	44	49	54	59	64	69	9999		% ile	Speed
09/23/															,,,,,,,	
16	0	0	0	0	0	1	1	3	1	0	0	0	0	6	49	45
01:00	0	0	0	0	0	1	3	7	1	0	0	0	0	12	48	45
02:00	0	0	0	0	0	2	3	6	1	0	0	0	0	12	48	45
03:00	0	1	0	0	0	1	5	6	3	1	0	0	0	17	51	45
04:00	0	0	0	0	3	2	17	15	12	4	1	0	0	54	52	46
05:00	0	0	1	4	3	6	41	71	50	5	2	0	0	183	51	47
06:00	1	0	4	5	5	12	101	138	88	15	1	0	0	370	51	46
07:00	0	1	1	4	3	17	108	181	68	7	0	1	1	392	50	46
08:00	0	0	1	2	2	12	80	173	78	13	0	0	0	361	51	47
09:00	0	0	2	0	2	14	58	134	57	12	0	1	0	280	51	47
10:00	0	0	2	2	1	9	67	106	48	13	2	0	0	250	51	46
11:00	0	0	3	1	1	6	69	118	50	5	0	0	0	253	50	46
12 PM	0	0	4	3	6	22	66	133	61	12	5	0	0	312	51	46
13:00	0	0	1	3	1	19	85	128	59	21	1	0	0	318	51	46
14:00	0	0	0	3	1	17	76	148	61	8	0	1	0	315	50	46
15:00	0	1	3	1	12	27	96	167	80	17	1	3	1	409	51	46
16:00	0	0	1	0	1	31	103	174	64	11	2	2	2	391	50	46
17:00	0	0	1	1	2	9	108	208	94	18	2	0	0	443	51	47
18:00	0	0	0	1	6	9	90	154	85	17	0	0	0	362	51	47
19:00	0	0	0	0	2	12	65	87	43	9	1	0	0	219	51	46
20:00	0	0	0	0	3	8	51	59	14	4	1	0	0	140	48	45
21:00	0	0	0	1	4	19	41	27	3	1	0	0	0	96	47	42
22:00	0	0	0	1	2	8	31	22	10	0	0	0	0	74	48	44
23:00	0	0	0	0	1	11	17	8	4	0	0	0	0	41	47	42
Total	1	3	24	32	61	275	1382	2273	1035	193	19	8	4	5310		
%	0.0%	0.1%	0.5%	0.6%	1.1%	5.2%	26.0%	42.8%	19.5%	3.6%	0.4%	0.2%	0.1%			
AM Peak	06:00	03:00	06:00	06:00	06:00	07:00	07:00	07:00	06:00	06:00	05:00	07:00	07:00	07:00		
Vol.	1	1	4	5	5	17	108	181	88	15	2	1	1_	392		
PM Peak		15:00	12:00	12:00	15:00	16:00	17:00	17:00	17:00	13:00	12:00	15:00	16:00	17:00		
Vol.		1	4	3	12	31	108	208	94	21	5	3	2	443		
<u> </u>					14	<u> </u>	100	200	<u> </u>					770		

Stats 15th Percentile: 40 MPH 50th Percentile: 45 MPH

85th Percentile: 51 MPH 95th Percentile: 53 MPH

Mean Speed(Average): 46 MPH
10 MPH Pace Speed: 40-49 MPH
Number in Pace: 3655
Percent in Pace: 68.8%
Number of Vehicles > 45 MPH: 3077
Percent of Vehicles > 45 MPH: 58.0%



46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com 165278 A Speed Site Code: 13678.00

EB						,	Office: 508-87: Email: dat	5-0100 Fax: 50 arequests@pd						Site	Code: 1	3678.00
Start	1	15	20	25	30	35	40	45	50	55	60	65	70	Total	85th	Ave
Time	14	19	24	29	34	39	44	49	54	59	64	69	9999	. 0.0.	% ile	Speed
09/24/											<u> </u>				70	Opeca
16	0	0	0	0	0	4	2	8	0	0	0	0	0	14	47	43
01:00	0	0	0	0	0	2	5	4	0	1	0	0	0	12	47	44
02:00	0	0	0	0	0	3	2	5	1	0	0	0	0	11	48	44
03:00	0	0	1	0	0	3	2	4	1	0	0	0	0	11	48	42
04:00	0	0	0	1	0	5	8	8	4	0	0	0	0	26	49	44
05:00	0	0	1	0	2	7	19	22	8	0	0	0	0	59	48	44
06:00	0	0	0	0	0	2	32	49	14	2	1	0	0	100	49	46
07:00	0	0	0	0	1	5	46	81	51	10	3	1	0	198	52	48
08:00	0	0	1	0	0	12	42	109	53	18	0	1	0	236	52	47
09:00	0	0	0	1	2	5	71	139	73	22	1	1	1	316	52	48
10:00	1	2	2	1	2	15	102	162	96	30	2	0	0	415	52	47
11:00	0	0	2	0	1	11	94	186	82	6	1	1	0	384	50	47
12 PM	0	1	1	3	3	16	71	170	112	29	5	1	1	413	52	48
13:00	0	1	0	1	2	13	73	170	97	18	6	1	0	382	52	48
14:00	0	0	0	0	0	5	60	153	111	24	3	0	0	356	52	48
15:00	1	1	0	0	4	5	61	163	114	26	5	0	0	380	52	48
16:00	0	0	1	1	1	9	65	163	100	21	0	0	1	362	52	48
17:00	0	0	0	0	0	6	77	149	97	9	1	1	2	342	51	47
18:00	0	0	0	1	1	10	63	134	66	8	1	0	1	285	51	47
19:00	0	0	0	0	3	8	63	82	31	5	0	0	0	192	50	46
20:00	0	0	1	0	2	10	29	51	13	5	1	0	1	113	49	45
21:00	0	0	0	1	1	6	37	43	26	10	0	1	0	125	52	47
22:00	0	0	0	0	0	4	26	32	13	0	1	0	0	76	49	46
23:00	0	0	0	0	0	1 1 1 1 1 1 1	15	26	4	0	1	0	0	47	48	46_
Total	2	5	10	10	25	167	1065	2113	1167	244	32	8	7	4855		
% AM	0.0%	0.1%	0.2%	0.2%	0.5%	3.4%	21.9%	43.5%	24.0%	5.0%	0.7%	0.2%	0.1%			
Peak	10:00	10:00	10:00	04:00	05:00	10:00	10:00	11:00	10:00	10:00	07:00	07:00	09:00	10:00		
Vol.	1	2	2	1	2	15	102	186	96	30	3	1	1	415		
PM	•			I								<u> </u>				
Peak	15:00	12:00	12:00	12:00	15:00	12:00	17:00	12:00	15:00	12:00	13:00	12:00	17:00	12:00		
Vol.	1	1	1	3	4	16	77	170	114	29	6	1	2	413		
voi.						10		170	114					713		

Stats 15th Percentile : 41 MPH 50th Percentile : 46 MPH

Percent of Vehicles > 45 MPH:

85th Percentile: 52 MPH 95th Percentile: 54 MPH

64.8%

 Mean Speed(Average):
 47 MPH

 10 MPH Pace Speed:
 45-54 MPH

 Number in Pace:
 3280

 Percent in Pace:
 67.6%

 Number of Vehicles > 45 MPH:
 3148



46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com 165278 A Speed Site Code: 13678.00

EB						,	Office: 508-87: Email: dat	5-0100 Fax: 50 arequests@pd						Site	Code. 1	3678.00
Start	1	15	20	25	30	35	40	45	50	55	60	65	70	Total	85th	Ave
Time	14	19	24	29	34	39	44	49	54	59	64	69	9999	Total	% ile	Speed
09/25/		10							<u> </u>		0-7		0000		70 IIC	Орсса
16	0	0	0	0	0	3	6	19	4	1	0	0	0	33	49	46
01:00	Ö	Ö	Ö	Ö	Ö	0	2	5	4	0	0	Ö	Ö	11	51	48
02:00	0	0	0	0	0	0	4	1	1	0	0	0	0	6	49	44
03:00	0	0	0	0	0	1	5	3	2	1	0	0	0	12	51	46
04:00	0	0	0	1	0	0	4	5	2	0	0	0	0	12	49	45
05:00	0	0	1	0	0	1	6	11	12	1	0	0	0	32	52	47
06:00	0	0	0	0	1	3	15	28	16	10	1	0	0	74	53	48
07:00	0	0	0	0	0	4	19	65	39	7	0	2	0	136	52	48
08:00	0	0	0	0	1	0	34	83	56	13	2	1	0	190	52	48
09:00	1	1	1	0	2	12	61	116	48	14	1	0	0	257	51	46
10:00	0	0	1	1	3	14	108	143	38	6	0	2	1	317	48	45
11:00	0	0	0	2	2	8	91	149	89	21	7	1	1	371	52	47
12 PM	1	0	0	0	2	7	58	171	94	21	2	0	1	357	52	48
13:00	0	0	1	2	0	6	64	178	91	19	4	0	1	366	52	48
14:00	0	0	1	1	3	12	66	151	98	18	5	0	2	357	52	48
15:00	0	0	0	0	1	11	79	179	122	21	0	2	2	417	52	48
16:00	0	0	0	0	7	20	63	129	121	39	7	0	0	386	53	48
17:00	1	0	0	0	4	20	83	144	87	19	3	1	1	363	52	47
18:00	0	3	3	0	15	36	119	208	112	33	0	0	1	530	51	46
19:00	0	1	0	2	7	23	125	193	143	44	8	1	2	549	52	47
20:00	0	0	0	0	0	5	57	87	104	21	6	1	0	281	53	49
21:00	0	0	1	0	4	3	33	36	21	6	2	0	0	106	52	46
22:00	0	0	0	0	3	5	13	17	7	2	1	0	0	48	51	45
23:00	0	0	0	0	0	2	3	10	3	2	1_	0	0	21	53	48
Total	3	5	9	9	55	196	1118	2131	1314	319	50	11	12	5232		
%	0.1%	0.1%	0.2%	0.2%	1.1%	3.7%	21.4%	40.7%	25.1%	6.1%	1.0%	0.2%	0.2%			
AM	09:00	09:00	05:00	11:00	10:00	10:00	10:00	11:00	11:00	11:00	11:00	07:00	10:00	11:00		
Peak		00.00	00.00													
Vol.	1_	1_	1_	2	3	14	108	149	89	21	7_	2	1_	371		
PM	12:00	18:00	18:00	13:00	18:00	18:00	19:00	18:00	19:00	19:00	19:00	15:00	14:00	19:00		
Peak																
Vol.	1	3	3	2	15	36	125	208	143	44	8	2	2	549		

Stats 15th Percentile : 41 MPH 50th Percentile : 46 MPH

85th Percentile : 52 MPH 95th Percentile : 55 MPH

Mean Speed(Average): 47 MPH
10 MPH Pace Speed: 45-54 MPH
Number in Pace: 3445
Percent in Pace: 65.8%
Number of Vehicles > 45 MPH: 3411
Percent of Vehicles > 45 MPH: 65.2%



46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com 165278 A Speed Site Code: 13678.00

EB							Elliali. uat	arequests@pu	IIIC.COIII							
Start	1	15	20	25	30	35	40	45	50	55	60	65	70	Total	85th	Ave
Time	14	19	24	29	34	39	44	49	54	59	64	69	9999		% ile	Speed
09/26/																
16	0	0	0	0	0	1	3	6	1	1	0	0	0	12	49	46
01:00	0	0	0	0	0	0	5	2	2	0	0	0	0	9	50	45
02:00	0	0	0	0	1	1	4	2	1	1	0	0	0	10	51	44
03:00	0	0	0	0	1	1	3	10	6	0	0	0	0	21	51	47
04:00	0	0	2	4	1	0	10	24	10	5	1	0	0	57	52	46
05:00	0	1	1	6	3	9	41	93	37	9	0	0	0	200	51	46
06:00	0	0	0	5	1	23	132	166	48	4	0	0	0	379	48	45
07:00	1	0	1	2	4	20	123	182	61	14	4	0	0	412	50	46
08:00	0	0	0	1	1	18	100	150	65	10	2	0	0	347	50	46
09:00	0	0	1	1	2	6	47	124	75	7	1	0	0	264	51	47
10:00	0	1	1	1	4	10	63	115	55	9	0	0	1	260	51	46
11:00	1	1	1	2	2	8	68	104	48	11	0	0	0	246	51	46
12 PM	1	1	0	7	1	17	83	107	40	7	0	0	0	264	49	45
13:00	0	0	2	5	4	17	66	86	43	12	1	0	2	238	51	45
14:00	0	0	1	2	2	8	61	95	50	17	1	0	0	237	52	47
15:00	0	0	1	3	4	12	98	148	65	15	1	0	0	347	51	46
16:00	0	0	1	4	6	18	68	149	64	10	1	0	2	323	51	46
17:00	0	0	0	3	2	13	60	118	55	10	5	0	0	266	51	47
18:00	0	0	0	0	0	7	50	74	35	10	1	0	0	177	51	47
19:00	0	0	0	1	1	10	41	37	17	2	0	0	0	109	49	45
20:00	0	0	0	1	2	1	24	40	21	2	0	0	0	91	51	46
21:00	0	0	0	0	0	4	15	29	11	2	0	0	0	61	50	46
22:00	0	0	0	0	1	4	8	14	6	5	0	0	0	38	53	47
23:00	0	0	0	0	1_	7	8	8	6	0	0	0	0	30	50	44
Total	3	4	12	48	44	215	1181	1883	822	163	18	0	5	4398		
%	0.1%	0.1%	0.3%	1.1%	1.0%	4.9%	26.9%	42.8%	18.7%	3.7%	0.4%	0.0%	0.1%			
AM Peak	07:00	05:00	04:00	05:00	07:00	06:00	06:00	07:00	09:00	07:00	07:00		10:00	07:00		
Vol.	1	1	2	6	4	23	132	182	75	14	4		1	412		
PM	12:00	12:00	13:00	12:00	16:00	16:00	15:00	16:00	15:00	14:00	17:00		13:00	15:00		
Peak Vol.	1	1	2	7	6	18	98	149	65	17	5		2	347		
	<u> </u>	·						1.10	- 00					<u> </u>		

 Stats
 15th Percentile :
 40 MPH

 50th Percentile :
 45 MPH

Percent of Vehicles > 45 MPH:

85th Percentile: 51 MPH 95th Percentile: 53 MPH

57.2%

Mean Speed(Average) : 46 MPH
10 MPH Pace Speed : 40-49 MPH
Number in Pace : 3064
Percent in Pace : 69.7%
Number of Vehicles > 45 MPH : 2514



46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com

165278 A Speed Site Code: 13678.00

01:00 0 0 0 1 1 1 3 2 0 0 0 0 8	
Time 14 19 24 29 34 39 44 49 54 59 64 69 9999 % 09/22/ 16 0 0 2 0 0 1 2 7 2 0 0 0 14 01:00 0 0 0 1 1 1 3 2 0 0 0 0 8	le Speed 18 43 16 40 50 41 52 45
09/22/ 16 0 0 2 0 0 1 2 7 2 0 0 0 14 01:00 0 0 0 1 1 1 3 2 0 0 0 0 8	48 43 46 40 50 41 52 45
16 0 0 2 0 0 1 2 7 2 0 0 0 14 01:00 0 0 0 1 1 1 3 2 0 0 0 0 8	40 50 41 52 45
01:00 0 0 0 1 1 1 3 2 0 0 0 0 8	40 50 41 52 45
	50 41 52 45
	52 45
	_
	-
	17 43
	19 46
	18 44
	18 44
	17 43
	18 44
· · · · · · · · · · · · · · · · · · ·	17 43
	17 43
	17 44
14:00 0 1 3 3 5 22 135 175 28 5 0 0 0 377	18 44
15:00 1 0 4 3 8 43 130 177 63 8 0 0 0 437	19 45
16:00 0 0 9 6 10 64 125 244 66 5 0 0 1 530	18 44
17:00 0 0 4 2 8 23 114 264 93 9 1 1 0 519	50 46
18:00 0 0 0 1 1 16 99 184 52 5 1 1 0 360	19 46
19:00 0 0 1 0 2 23 117 115 23 1 0 0 0 282	18 44
20:00 0 0 0 0 0 21 83 67 19 4 0 0 0 194	18 44
21:00 0 0 0 0 3 7 42 55 19 1 0 0 1 128	19 45
22:00 0 0 0 0 0 6 25 34 9 1 0 0 1 76	18 45
23:00 0 0 1 0 0 3 7 23 13 1 0 0 0 48	51 47
Total 3 9 43 32 64 465 1630 2070 542 54 3 2 6 4923	
<u>% 0.1% 0.2% 0.9% 0.7% 1.3% 9.4% 33.1% 42.0% 11.0% 1.1% 0.1% 0.0% 0.1%</u>	
AM 00.00 00.00 07.00 14.00 00.00 14.00 07.00 07.00 07.00 07.00 07.00	
Peak 08:00 09:00 07:00 11:00 09:00 11:00 11:00 07:00 07:00 07:00 07:00 06:00 11:00	
Vol. 1 4 4 4 6 38 99 81 24 3 1 1 240	
PM 45.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00	
Peak 15:00 12:00 16:00 16:00 12:00 16:00 13:00 17:00 17:00 17:00 17:00 17:00 16:00	
Vol. 1 2 9 6 11 64 145 264 93 9 1 1 2 530	

Stats 15th Percentile: 39 MPH 50th Percentile: 44 MPH

85th Percentile: 48 MPH 95th Percentile: 52 MPH

Mean Speed(Average) : 10 MPH Pace Speed : Number in Pace : 44 MPH 40-49 MPH 3700 Percent in Pace : Number of Vehicles > 45 MPH : 75.2%

2263 Percent of Vehicles > 45 MPH: 46.0%



46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com 165278 A Speed Site Code: 13678.00

WB							Elliali. uat	arequests@pu	IIIC.COIII							
Start	1	15	20	25	30	35	40	45	50	55	60	65	70	Total	85th	Ave
Time	14	19	24	29	34	39	44	49	54	59	64	69	9999		% ile	Speed
09/23/																
16	0	0	1	0	0	2	10	14	4	1	0	0	0	32	49	45
01:00	0	0	0	1	0	1	6	10	3	1	0	0	0	22	50	45
02:00	0	1	0	0	0	1	3	6	1	0	0	0	0	12	48	43
03:00	0	0	0	0	0	2	5	1	2	0	0	0	0	10	50	44
04:00	0	0	1	0	0	2	4	5	4	0	0	0	0	16	51	44
05:00	0	0	0	0	1	5	10	20	5	1	0	0	0	42	48	45
06:00	0	0	1	1	4	12	50	55	16	1	0	0	1	141	48	44
07:00	0	0	3	1	1	18	66	90	19	4	0	0	0	202	48	45
08:00	0	0	1	1	3	40	77	75	20	1	0	0	0	218	48	43
09:00	0	0	0	0	1	16	87	68	32	0	0	1	0	205	49	45
10:00	0	0	0	2	2	29	95	90	17	0	0	0	0	235	47	44
11:00	0	0	6	3	5	22	90	99	20	0	1	0	0	246	48	44
12 PM	0	0	3	3	15	44	140	138	17	0	0	0	0	360	47	43
13:00	0	1	4	1	11	33	139	116	23	1	0	0	0	329	47	43
14:00	2	1	2	4	9	37	182	139	47	3	0	0	0	426	48	44
15:00	0	0	4	1	6	49	157	207	56	4	2	0	0	486	48	45
16:00	2	0	6	1	4	32	149	212	83	9	0	0	0	498	50	45
17:00	0	1	0	1	3	37	145	220	61	5	1	0	0	474	48	45
18:00	0	0	0	1	6	42	153	154	37	3	0	0	0	396	48	44
19:00	0	0	0	2	4	36	123	113	28	3	0	1	0	310	48	44
20:00	0	0	0	2	5	22	95	92	17	1	0	0	0	234	48	44
21:00	0	0	0	0	5	32	90	70	10	2	0	0	0	209	47	43
22:00	0	0	0	0	6	17	43	43	9	1	0	0	0	119	48	43
23:00	0	0	0	1	3	10	29	26	5	0	0	0	0	74	47	43
Total	4	4	32	26	94	541	1948	2063	536	41	4	2	1	5296		
%	0.1%	0.1%	0.6%	0.5%	1.8%	10.2%	36.8%	39.0%	10.1%	0.8%	0.1%	0.0%	0.0%			
AM		02:00	11:00	11:00	11:00	08:00	10:00	11:00	09:00	07:00	11:00	09:00	06:00	11:00		
Peak		02.00	11.00	11.00	11.00	00.00	10.00	11.00		07.00	11.00	09.00	00.00	11.00		
Vol.		1_	6	3	5	40	95	99	32	4	1_	1	1_	246		
PM	14:00	13:00	16:00	14:00	12:00	15:00	14:00	17:00	16:00	16:00	15:00	19:00		16:00		
Peak		15.00		17.00								13.00				
Vol.	2	1	6	4	15	49	182	220	83	9	2	1		498		

Stats 15th Percentile : 39 MPH 50th Percentile : 43 MPH

50th Percentile: 43 MPH 85th Percentile: 48 MPH 95th Percentile: 51 MPH

Mean Speed(Average): 44 MPH
10 MPH Pace Speed: 40-49 MPH
Number in Pace: 4011
Percent in Pace: 75.7%
Number of Vehicles > 45 MPH: 2234
Percent of Vehicles > 45 MPH: 42.2%



46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com 165278 A Speed Site Code: 13678.00

WB							Email: dat	arequests@pai	lic.com							
Start	1	15	20	25	30	35	40	45	50	55	60	65	70	Total	85th	Ave
Time	14	19	24	29	34	39	44	49	54	59	64	69	9999		% ile	Speed
09/24/																
16	0	0	1	1	1	4	17	18	4	0	1	0	0	47	48	44
01:00	0	0	0	0	1	5	9	5	1	1	0	0	0	22	47	43
02:00	0	0	0	0	0	0	4	5	1	1	0	0	0	11	50	47
03:00	0	0	0	1	0	0	1	1	0	0	0	0	0	3	46	39
04:00	0	0	1	1	0	1	6	6	2	0	0	0	0	17	48	43
05:00	0	0	0	0	0	1	9	5	5	1	0	0	0	21	51	46
06:00	0	0	0	1	0	1	27	27	5	0	0	0	0	61	48	45
07:00	0	0	0	0	0	12	45	42	15	3	1	0	0	118	49	45
08:00	0	0	2	1	1	15	72	75	17	2	0	0	0	185	48	44
09:00	0	0	1	1	7	17	96	100	27	3	1	0	1	254	48	45
10:00	0	0	2	1	6	34	113	143	32	1	1	0	0	333	48	44
11:00	0	0	2	0	2	64	191	166	33	5	0	0	1	464	48	44
12 PM	0	1	1	0	4	40	217	146	31	6	1	0	1	448	48	44
13:00	0	0	0	0	12	39	204	178	32	6	0	0	1	472	48	44
14:00	0	0	0	4	12	32	170	168	48	5	0	0	0	439	48	44
15:00	0	0	0	1	1	44	159	166	35	2	0	0	1	409	48	44
16:00	0	0	0	0	0	32	137	150	39	4	1	0	0	363	48	45
17:00	0	0	0	0	1	38	141	119	23	4	0	0	1	327	48	44
18:00	0	0	0	0	4	35	124	98	27	3	0	0	0	291	48	44
19:00	0	0	1	0	2	34	106	91	21	2	0	0	0	257	48	44
20:00	0	0	0	0	1	14	81	86	28	1	0	0	2	213	48	45
21:00	0	0	1	1	5	29	86	72	18	1	0	0	0	213	48	44
22:00	0	0	0	1	1	7	51	49	24	1	0	0	0	134	50	45
23:00	0	0	0	0	0	8	27	46	12	1_	0	0	0	94	48	45_
Total	0	1	12	14	61	506	2093	1962	480	53	6	0	8	5196		
%	0.0%	0.0%	0.2%	0.3%	1.2%	9.7%	40.3%	37.8%	9.2%	1.0%	0.1%	0.0%	0.2%			
AM			08:00	00:00	09:00	11:00	11:00	11:00	11:00	11:00	00:00		09:00	11:00		
Peak				00.00									00.00			
Vol.			2	1_	7	64	191	166	33	5	1_		1_	464		
PM		12:00	12:00	14:00	13:00	15:00	12:00	13:00	14:00	12:00	12:00		20:00	13:00		
Peak		. 2.00														
Vol.		1_	1_	4	12	44	217	178	48	6	1_		2	472		

Stats 15th Percentile: 39 MPH 50th Percentile: 43 MPH

85th Percentile: 48 MPH 95th Percentile: 51 MPH

Mean Speed(Average): 44 MPH
10 MPH Pace Speed: 40-49 MPH
Number in Pace: 4055
Percent in Pace: 78.0%
Number of Vehicles > 45 MPH: 2117
Percent of Vehicles > 45 MPH: 40.7%



46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com 165278 A Speed Site Code: 13678.00

WB							Lillali. Gati	arequests@pui	iic.com							
Start	1	15	20	25	30	35	40	45	50	55	60	65	70	Total	85th	Ave
Time	14	19	24	29	34	39	44	49	54	59	64	69	9999		% ile	Speed
09/25/																
16	0	0	0	0	1	2	16	7	6	0	0	0	0	32	50	44
01:00	0	0	0	0	0	0	6	4	2	1	1	0	0	14	53	47
02:00	0	0	0	0	0	1	4	4	0	3	0	0	0	12	56	47
03:00	0	0	0	0	0	0	2	6	2	0	0	0	0	10	50	47
04:00	0	0	0	1	0	1	2	1	0	0	0	0	0	5	45	39
05:00	0	0	0	0	2	2	4	3	4	0	0	0	0	15	51	44
06:00	0	0	0	1	0	6	17	13	5	0	0	0	0	42	48	44
07:00	0	0	0	0	1	5	22	31	17	1	0	0	0	77	50	46
08:00	0	0	0	0	1	9	41	57	25	3	1	1	1	139	50	46
09:00	0	0	1	0	1	22	92	98	32	2	2	0	0	250	48	45
10:00	0	1	2	0	2	17	116	113	24	1	0	0	0	276	48	44
11:00	0	2	1	3	3	33	128	134	31	3	1	0	0	339	48	44
12 PM	0	0	4	0	6	60	178	135	30	3	0	0	0	416	47	43
13:00	0	1	0	1	6	33	169	158	27	0	0	0	0	395	47	44
14:00	0	0	3	1	7	35	170	141	31	1	0	0	0	389	48	44
15:00	0	0	1	0	2	22	128	149	37	3	0	0	0	342	48	45
16:00	0	1	1	0	2	29	130	181	26	4	0	0	0	374	48	45
17:00	0	0	0	1	2	33	129	125	39	1	0	0	0	330	48	45
18:00	1	0	2	3	1	42	170	173	30	3	2	0	0	427	48	44
19:00	0	0	0	0	4	39	76	75	13	1	0	0	0	208	47	43
20:00	0	0	0	0	1	18	61	66	14	2	0	0	0	162	48	44
21:00	0	0	0	0	0	10	27	43	12	0	0	0	0	92	48	45
22:00	0	0	0	0	0	3	18	18	5	1	0	0	0	45	48	45
23:00	0	0	0	0	0	1_	9	12	5	0	1_	0	0	28	50	46
Total	1	5	15	11	42	423	1715	1747	417	33	8	1	1	4419		
%	0.0%	0.1%	0.3%	0.2%	1.0%	9.6%	38.8%	39.5%	9.4%	0.7%	0.2%	0.0%	0.0%			
AM Peak		11:00	10:00	11:00	11:00	11:00	11:00	11:00	09:00	02:00	09:00	08:00	08:00	11:00		
Vol.		2	2	3	3	33	128	134	32	3	2	1	1	339		
PM	40.00															
Peak	18:00	13:00	12:00	18:00	14:00	12:00	12:00	16:00	17:00	16:00	18:00			18:00		
Vol.	1	1	4	3	7	60	178	181	39	4	2			427		

 Stats
 15th Percentile :
 39 MPH

 50th Percentile :
 43 MPH

85th Percentile: 48 MPH 95th Percentile: 51 MPH

Mean Speed(Average): 44 MPH
10 MPH Pace Speed: 40-49 MPH
Number in Pace: 3462
Percent in Pace: 78.3%
Number of Vehicles > 45 MPH: 1858
Percent of Vehicles > 45 MPH: 42.0%



Main Street (Route 20) west of Galileo Drive East City, State: Sturbridge, MA Client: VHB/ K. Keen

46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com 165278 A Speed Site Code: 13678.00

Start
Time 14 19 24 29 34 39 44 49 54 59 64 69 9999 % ile Special Spec
09/26/ 16 0 0 0 0 1 6 8 5 2 0 0 0 22 52 01:00 0 0 0 0 1 1 4 3 0 0 0 0 9 46 02:00 0 0 0 0 0 0 0 0 0 0 9 46 02:00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 9 46 03:00 0 0 1 0 0 2 2 6 0 0 0 0 4 56 03:00 0 0 1 0 0 0 0 0 0 0 11 47 05:00 0 0 0 1 0 8 18
16 0 0 0 0 1 6 8 5 2 0 0 0 22 52 01:00 0
01:00 0 0 0 0 1 1 4 3 0 0 0 0 9 46 02:00 0
02:00 1 47 05:00 0 0 0 1 0 8 18 14 5 0 0 0 0 46 48 06:00 0 0 0 1 2 9 47 69 15 3 1 0 0 147 48 07:00 0 0 0 7 5 18 74 87 26 6 0 0 0 223 48 08:00 0 1 1 1 26 82 74 33 1 0
03:00 0 0 1 0 0 2 2 6 0 0 0 0 0 11 47 04:00 0 0 1 0 0 7 6 1 0 0 0 0 15 47 05:00 0 0 0 1 0 8 18 14 5 0 0 0 46 48 06:00 0 0 0 1 2 9 47 69 15 3 1 0 0 147 48 07:00 0 0 0 7 5 18 74 87 26 6 0 0 0 223 48 08:00 0 1 1 1 26 82 74 33 1 0 0 0 220 49 09:00 0 0 1 3
04:00 0 0 1 0 0 0 7 6 1 0 0 0 0 15 47 05:00 0 0 0 1 0 8 18 14 5 0 0 0 0 0 46 48 06:00 0 0 0 1 2 9 47 69 15 3 1 0 0 147 48 07:00 0 0 0 7 5 18 74 87 26 6 0 0 0 223 48 08:00 0 1 1 1 1 1 26 82 74 33 1 0 0 0 220 49 09:00 0 0 0 1 3 18 56 67 22 0 0 0 1 168 48 10:00 0 0 1 1 1 18 84 90 21 1 0 0 0 216 48
05:00 0 0 0 1 0 8 18 14 5 0 0 0 0 46 48 06:00 0 0 0 1 2 9 47 69 15 3 1 0 0 147 48 07:00 0 0 0 7 5 18 74 87 26 6 0 0 0 223 48 08:00 0 1 1 1 26 82 74 33 1 0 0 0 220 49 09:00 0 0 0 1 3 18 56 67 22 0 0 0 1 168 48 10:00 0 0 1 18 84 90 21 1 0 0 0 216 48
06:00 0 0 0 1 2 9 47 69 15 3 1 0 0 147 48 07:00 0 0 0 7 5 18 74 87 26 6 0 0 0 223 48 08:00 0 1 1 1 26 82 74 33 1 0 0 0 220 49 09:00 0 0 0 1 3 18 56 67 22 0 0 0 1 168 48 10:00 0 0 1 18 84 90 21 1 0 0 0 216 48
07:00 0 0 0 7 5 18 74 87 26 6 0 0 0 223 48 08:00 0 1 1 1 26 82 74 33 1 0 0 0 220 49 09:00 0 0 0 1 3 18 56 67 22 0 0 0 1 168 48 10:00 0 0 1 1 18 84 90 21 1 0 0 0 216 48
08:00
09:00 0 0 0 1 3 18 56 67 22 0 0 0 1 168 48 10:00 0 0 1 1 8 84 90 21 1 0 0 0 216 48
10:00 0 0 1 0 1 18 84 90 21 1 0 0 0 216 48
11:00 0 0 3 2 4 29 102 94 28 1 0 0 0 263 48
12 PM 0 0 5 4 15 40 100 89 18 1 0 0 0 272 47
13:00 1 0 4 3 3 38 109 103 19 2 1 0 0 283 48
14:00 1 0 2 3 0 31 126 140 38 2 0 0 0 343 48
15:00 0 0 5 5 12 37 140 190 47 2 0 0 1 439 48
16:00 0 1 3 3 5 30 133 197 67 6 0 0 1 446 49
17:00 0 0 1 3 7 19 123 240 63 3 1 0 0 460 48
18:00 0 0 1 5 6 23 101 163 49 7 0 0 0 355 49
19:00 0 0 0 0 1 18 73 79 26 2 3 0 0 202 49
20:00 0 0 0 0 12 32 61 19 2 0 0 0 126 49
21:00 0 0 0 0 1 4 18 39 12 0 0 0 74 49
22:00 0 0 0 0 0 2 22 15 7 1 0 0 0 47 49
23:00 0 0 0 0 1 15 18 9 0 1 0 0 44 50
Total 2 2 28 39 67 385 1476 1853 530 43 7 0 3 4435
% 0.0% 0.0% 0.6% 0.9% 1.5% 8.7% 33.3% 41.8% 12.0% 1.0% 0.2% 0.0% 0.1%
AM 00.00 44.00 07.00 07.00 44.00 44.00 00.00 07.00 00.00 00.00
Peak 08:00 11:00 07:00 07:00 11:00 11:00 08:00 07:00 06:00 09:00 11:00
Vol. 1 3 7 5 29 102 94 33 6 1 1 263
PM 13:00 16:00 12:00 15:00 12:00 15:00 17:00 16:00 18:00 19:00 15:00 17:00
Peak 13:00 16:00 12:00 15:00 12:00 15:00 17:00 16:00 18:00 19:00 15:00 17:00
Vol. 1 1 5 5 15 40 140 240 67 7 3 1 460

Stats 15th Percentile : 39 MPH 50th Percentile : 44 MPH

85th Percentile: 48 MPH 95th Percentile: 52 MPH

 Mean Speed(Average):
 45 MPH

 10 MPH Pace Speed:
 40-49 MPH

 Number in Pace:
 3329

 Percent in Pace:
 75.1%

 Number of Vehicles > 45 MPH:
 2065

 Percent of Vehicles > 45 MPH:
 46.6%



46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com

File Name: 165278 A Site Code : 13678.00

Start Date : 9/22/2016

Page No : 1

Groups Printed- Cars - Heavy Vehicles

		turbridge Business	Park)		treet (Route 20)			reet (Route 20)		
	I	From North		1	From East		F	rom West		
Start Time	Right	Left	U-Turn	Right	Thru	U-Turn	Thru	Left	U-Turn	Int. Total
04:00 PM	0	17	0	2	138	0	94	2	0	253
04:15 PM	4	10	0	3	130	0	91	0	0	238
04:30 PM	5	8	0	1	125	0	102	0	0	241
04:45 PM	2	14	0	2	133	0	91	0	0	242
Total	11	49	0	8	526	0	378	2	0	974
05:00 PM	0	17	0	0	129	0	94	1	0	241
05:15 PM	0	6	0	0	125	0	92	0	0	223
05:30 PM	2	2	0	2	137	0	100	1	0	244
05:45 PM	1	3	0	1	124	0	110	1	0	240
Total	3	28	0	3	515	0	396	3	0	948
Grand Total	14	77	0	11	1041	0	774	5	0	1922
Apprch %	15.4	84.6	0	1	99	0	99.4	0.6	0	
Total %	0.7	4	0	0.6	54.2	0	40.3	0.3	0	
Cars	13	75	0	10	1023	0	755	5	0	1881
% Cars	92.9	97.4	0	90.9	98.3	0	97.5	100	0	97.9
Heavy Vehicles	1	2	0	1	18	0	19	0	0	41
% Heavy Vehicles	7.1	2.6	0	9.1	1.7	0	2.5	0	0	2.1

	Galileo I	Prive (Sturbri	idge Busines	s Park)		Main Street	(Route 20)			Main Street	(Route 20)		
		From	North			Fron	n East			From	West		
Start Time	Right	Left	U-Turn	App. Total	Right	Thru	U-Turn	App. Total	Thru	Left	U-Turn	App. Total	Int. Total
Peak Hour Analysis From	04:00 PM to 05	5:45 PM - Pe	ak 1 of 1										
Peak Hour for Entire	Intersection 1	Begins at (04:00 PM										
04:00 PM	0	17	0	17	2	138	0	140	94	2	0	96	253
04:15 PM	4	10	0	14	3	130	0	133	91	0	0	91	238
04:30 PM	5	8	0	13	1	125	0	126	102	0	0	102	241
04:45 PM	2	14	0	16	2	133	0	135	91	0	0	91	242_
Total Volume	11	49	0	60	8	526	0	534	378	2	0	380	974
— % App. Total	18.3	81.7	0		1.5	98.5	0		99.5	0.5	0		
PHF	.550	.721	.000	.882	.667	.953	.000	.954	.926	.250	.000	.931	.962
Cars	10	47	0	57	7	514	0	521	364	2	0	366	944
% Cars	90.9	95.9	0	95.0	87.5	97.7	0	97.6	96.3	100	0	96.3	96.9
Heavy Vehicles	1	2	0	3	1	12	0	13	14	0	0	14	30
% Heavy Vehicles	9.1	4.1	0	5.0	12.5	2.3	0	2.4	3.7	0	0	3.7	3.1



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File Name: 165278 A Site Code : 13678.00

Start Date : 9/22/2016

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Groups Printed- Cars

	Galileo Drive (Stu	rbridge Busines	s Park)	Main S	treet (Route 20)		Main Str	eet (Route 20)		
	Fr	om North		I	From East		Fr	om West		
Start Time	Right	Left	U-Turn	Right	Thru	U-Turn	Thru	Left	U-Turn	Int. Total
04:00 PM	0	16	0	1	135	0	91	2	0	245
04:15 PM	3	9	0	3	127	0	86	0	0	228
04:30 PM	5	8	0	1	122	0	99	0	0	235
04:45 PM	2	14	0	2	130	0	88	0	0	236
Total	10	47	0	7	514	0	364	2	0	944
05 00 DM		17	0	0	126	ا م	02	1	٥١	226
05:00 PM	0	17	0	0	126	0	92	1	0	236
05:15 PM	0	6	0	0	125	0	91	0	0	222
05:30 PM	2	2	0	2	136	0	99	1	0	242
05:45 PM	1	3	0	1	122	0	109	1	0	237
Total	3	28	0	3	509	0	391	3	0	937
Grand Total	13	75	0	10	1023	0	755	5	0	1881
Apprch %	14.8	85.2	0	1	99	0	99.3	0.7	0	
Total %	0.7	4	0	0.5	54.4	0	40.1	0.3	0	

	Galileo D	rive (Sturbri	dge Business	Park)		Main Street	(Route 20)			Main Street	(Route 20)		
		From	North			Fron	n East			From	West		
Start Time	Right	Left	U-Turn	App. Total	Right	Thru	U-Turn	App. Total	Thru	Left	U-Turn	App. Total	Int. Total
Peak Hour Analysis From	04:00 PM to 05	:45 PM - Pea	ık 1 of 1										
Peak Hour for Entire	Intersection l	Begins at 0	4:00 PM										
04:00 PM	0	16	0	16	1	135	0	136	91	2	0	93	245
04:15 PM	3	9	0	12	3	127	0	130	86	0	0	86	228
04:30 PM	5	8	0	13	1	122	0	123	99	0	0	99	235
04:45 PM	2	14	0	16	2	130	0	132	88	0	0	88	236
Total Volume	10	47	0	57	7	514	0	521	364	2	0	366	944
% App. Total	17.5	82.5	0		1.3	98.7	0		99.5	0.5	0		
PHF	.500	.734	.000	.891	.583	.952	.000	.958	.919	.250	.000	.924	.963



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Groups Printed- Heavy Vehicles

	Galileo Drive (Stu		s Park)		reet (Route 20)			eet (Route 20)		
	Fr	om North		F	rom East		Fre	om West		
Start Time	Right	Left	U-Turn	Right	Thru	U-Turn	Thru	Left	U-Turn	Int. Total
04:00 PM	0	1	0	1	3	0	3	0	0	8
04:15 PM	1	1	0	0	3	0	5	0	0	10
04:30 PM	0	0	0	0	3	0	3	0	0	6
04:45 PM	0	0	0	0	3	0	3	0	0	6
Total	1	2	0	1	12	0	14	0	0	30
07 00 PM	1 0	0	0	0	2	0	2	0	0	-
05:00 PM	0	0	0	0	3	0	2	0	0	5
05:15 PM	0	0	0	0	0	0	1	0	0	1
05:30 PM	0	0	0	0	1	0	1	0	0	2
05:45 PM	0	0	0	0	2	0	1	0	0	3
Total	0	0	0	0	6	0	5	0	0	11
Grand Total	1	2	0	1	18	0	19	0	0	41
Apprch %	33.3	66.7	0	5.3	94.7	0	100	0	0	
Total %	2.4	4.9	0	2.4	43.9	0	46.3	0	0	

	Galileo D	rive (Sturbri	dge Business	Park)		Main Street	(Route 20)			Main Street	(Route 20)		
		From	North			From	East			From	West		
Start Time	Right	Left	U-Turn	App. Total	Right	Thru	U-Turn	App. Total	Thru	Left	U-Turn	App. Total	Int. Total
Peak Hour Analysis From	04:00 PM to 05	:45 PM - Pea	ık 1 of 1										
Peak Hour for Entire	Intersection I	Begins at 0	4:00 PM										
04:00 PM	0	1	0	1	1	3	0	4	3	0	0	3	8
04:15 PM	1	1	0	2	0	3	0	3	5	0	0	5	10
04:30 PM	0	0	0	0	0	3	0	3	3	0	0	3	6
04:45 PM	0	0	0	0	0	3	0	3	3	0	0	3	6
Total Volume	1	2	0	3	1	12	0	13	14	0	0	14	30
% App. Total	33.3	66.7	0		7.7	92.3	0		100	0	0		
PHF	.250	500	.000	.375	.250	1.00	.000	.813	.700	.000	.000	.700	.750



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File Name: 165278 A Site Code : 13678.00

Start Date : 9/22/2016

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Groups Printed- Peds and Bicycles

	Galileo Driv	e (Sturbridg	ge Business I	Park)	-	Main Street (Route 20)		1	Main Street (Route 20)		
		From N	lorth			From	East			From V	West		
Start Time	Right	Left	Peds EB	Peds WB	Right	Thru	Peds SB	Peds NB	Thru	Left	Peds NB	Peds SB	Int. Total
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	1	0	0	0	0	0	0	1
04:45 PM	0	0	0	0	0	1	0	0	0	0	0	0	1_
Total	0	0	0	0	0	2	0	0	0	0	0	0	2
									i				
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45 PM	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
1					ı				I			1	
Grand Total	0	0	0	0	0	2	0	0	0	0	0	0	2
Apprch %	0	0	0	0	0	100	0	0	0	0	0	0	
Total %	0	0	0	0	0	100	0	0	0	0	0	0	

	Calila	a Dairea (C	مان الساسية	Business Pa	and s		Moin	Ctus at /Day	4= 20)			Main	Ctmant (Day	··· 20)		
	Gaine	,	U		urk)		Main	Street (Rou	,			Main	Street (Rou	,		
			From Nor	<u>th</u>				From East					From Wes	t		
Start Time	Right	Left	Peds EB	Peds WB	App. Total	Right	Thru	Peds SB	Peds NB	App. Total	Thru	Left	Peds NB	Peds SB	App. Total	Int. Total
Peak Hour Analysis From 0	4:00 PM to 05:4	45 PM - Peal	c 1 of 1													
Peak Hour for Ent	ire Intersec	tion Beg	gins at 04	4:00 PM												
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
04:45 PM	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1_
Total Volume	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	2
% App. Total	0	0	0	0		0	100	0	0		0	0	0	0		
PHF	.000	.000	.000	.000	.000	.000	.500	.000	.000	.500	.000	.000	.000	.000	.000	.500



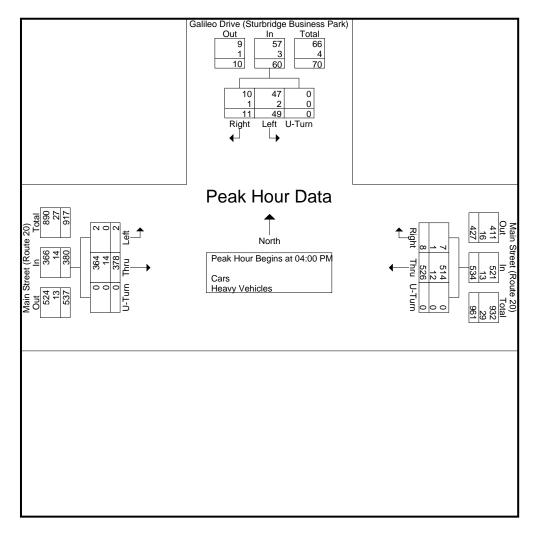
INI D

N: Galileo Dr (Sturbridge Business Park) E/W: Main Street (Route 20) City, State: Sturbridge, MA Client: VHB/ K. Keen

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	Galileo l	Drive (Sturbri		s Park)		Main Street	. ,			Main Street	` '		
		From	North			Fron	n East			From	West		
Start Time	Right	Left	U-Turn	App. Total	Right	Thru	U-Turn	App. Total	Thru	Left	U-Turn	App. Total	Int. Total
Peak Hour Analysis From	04:00 PM to 0	5:45 PM - Pe	ak 1 of 1										
Peak Hour for Entire l	Intersection	Begins at (04:00 PM										
04:00 PM	0	17	0	17	2	138	0	140	94	2	0	96	253
04:15 PM	4	10	0	14	3	130	0	133	91	0	0	91	238
04:30 PM	5	8	0	13	1	125	0	126	102	0	0	102	241
04:45 PM	2	14	0	16	2	133	0	135	91	0	0	91	242
Total Volume	11	49	0	60	8	526	0	534	378	2	0	380	974
% App. Total	18.3	81.7	0		1.5	98.5	0		99.5	0.5	0		
PHF	.550	.721	.000	.882	.667	.953	.000	.954	.926	.250	.000	.931	.962
Cars	10	47	0	57	7	514	0	521	364	2	0	366	944
% Cars	90.9	95.9	0	95.0	87.5	97.7	0	97.6	96.3	100	0	96.3	96.9
Heavy Vehicles	1	2	0	3	1	12	0	13	14	0	0	14	30
% Heavy Vehicles	9.1	4.1	0	5.0	12.5	2.3	0	2.4	3.7	0	0	3.7	3.1





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	Groups P	rinted- Ca	ars - Heavy	Vehicles
Galileo Drive (Sturbridge Business Park)		Mai	in Street (R	oute 20)

		turbridge Business	s Park)		treet (Route 20)			eet (Route 20)		
		From North			From East			om West		
Start Time	Right	Left	U-Turn	Right	Thru	U-Turn	Thru	Left	U-Turn	Int. Total
11:00 AM	1	2	0	1	102	0	84	0	0	190
11:15 AM	0	2	0	0	107	0	100	0	0	209
11:30 AM	0	1	0	2	116	0	107	0	0	226
11:45 AM	0	0	0	2	138	0	103	0	0	243
Total	1	5	0	5	463	0	394	0	0	868
	1		1						1	
12:00 PM	1	1	0	0	112	0	115	0	0	229
12:15 PM	0	1	0	0	112	0	107	0	0	220
12:30 PM	0	0	0	0	107	0	97	0	0	204
12:45 PM	0	0	0	0	111	0	93	0	0	204
Total	1	2	0	0	442	0	412	0	0	857
	1 -		- 1	_		- 1		_	- 1	
01:00 PM	0	0	0	0	142	0	110	0	0	252
01:15 PM	0	0	0	1	103	0	81	0	0	185
01:30 PM	0	0	0	0	115	0	103	0	0	218
01:45 PM	0	0	0	0	120	0	86	0	0	206
Total	0	0	0	1	480	0	380	0	0	861
Grand Total	2	7	0	6	1385	0	1186	0	0	2596
	_	77.0	~	-		_		0	-	2586
Apprch %	22.2	77.8	0	0.4	99.6	0	100	0	0	
Total %	0.1	0.3	0	0.2	53.6	0	45.9	0	0	
Cars	2	7	0	6	1375	0	1163	0	0	2553
% Cars	100	100	0	100	99.3	0	98.1	0	0	98.7
Heavy Vehicles	0	0	0	0	10	0	23	0	0	33
% Heavy Vehicles	0	0	0	0	0.7	0	1.9	0	0	1.3

	Galileo D	rive (Sturbri	0	Park)		Main Street	. ,			Main Street	. ,		
		From	North			From	East			From	West		
Start Time	Right	Left	U-Turn	App. Total	Right	Thru	U-Turn	App. Total	Thru	Left	U-Turn	App. Total	Int. Total
Peak Hour Analysis From	11:00 AM to 01	:45 PM - Pea	ak 1 of 1										
Peak Hour for Entire	Intersection I	Begins at 1	1:30 AM										
11:30 AM	0	1	0	1	2	116	0	118	107	0	0	107	226
11:45 AM	0	0	0	0	2	138	0	140	103	0	0	103	243
12:00 PM	1	1	0	2	0	112	0	112	115	0	0	115	229
12:15 PM	0	1	0	1	0	112	0	112	107	0	0	107	220_
Total Volume	1	3	0	4	4	478	0	482	432	0	0	432	918
% App. Total	25	75	0		0.8	99.2	0		100	0	0		
PHF	.250	.750	.000	.500	.500	.866	.000	.861	.939	.000	.000	.939	.944
Cars	1	3	0	4	4	476	0	480	423	0	0	423	907
% Cars	100	100	0	100	100	99.6	0	99.6	97.9	0	0	97.9	98.8
Heavy Vehicles	0	0	0	0	0	2	0	2	9	0	0	9	11
% Heavy Vehicles	0	0	0	0	0	0.4	0	0.4	2.1	0	0	2.1	1.2



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Groups Printed- Cars

	Galileo Drive (Stu		s Park)		reet (Route 20)			eet (Route 20)		
		rom North			From East			om West		
Start Time	Right	Left	U-Turn	Right	Thru	U-Turn	Thru	Left	U-Turn	Int. Total
11:00 AM	1	2	0	1	102	0	83	0	0	189
11:15 AM	0	2	0	0	106	0	98	0	0	206
11:30 AM	0	1	0	2	116	0	107	0	0	226
11:45 AM	0	0	0	2	137	0	103	0	0	242
Total	1	5	0	5	461	0	391	0	0	863
12:00 PM	1	1	0	0	112	0	113	0	0	227
12:15 PM	0	1	0	0	111	0	100	0	0	212
12:30 PM	0	0	0	0	106	0	93	0	0	199
12:45 PM	0	0	0	0	110	0	88	0	0	198
Total	1	2	0	0	439	0	394	0	0	836
01:00 PM	0	0	0	0	141	0	110	0	0	251
01:15 PM	0	0	0	1	102	0	81	0	0	184
01:30 PM	0	0	0	0	113	0	102	0	0	215
01:45 PM	0	ő	ő	0	119	0	85	0	ő	204
Total	0	0	0	1	475	0	378	0	0	854
Grand Total	2	7	0	6	1375	0	1163	0	0	2553
	_	77.0	- 1			0		0	0	2333
Apprch %	22.2	77.8	0	0.4	99.6	0	100	0	0	
Total %	0.1	0.3	0	0.2	53.9	0	45.6	0	0	

	Galileo D	Prive (Sturbri	dge Business	Park)		Main Street	(Route 20)			Main Street	(Route 20)		
		From	North	ŕ		From	East			From	West		
Start Time	Right	Left	U-Turn	App. Total	Right	Thru	U-Turn	App. Total	Thru	Left	U-Turn	App. Total	Int. Total
Peak Hour Analysis From	11:00 AM to 0	1:45 PM - Pe	ak 1 of 1										
Peak Hour for Entire	Intersection 1	Begins at 1	1:30 AM										
11:30 AM	0	1	0	1	2	116	0	118	107	0	0	107	226
11:45 AM	0	0	0	0	2	137	0	139	103	0	0	103	242
12:00 PM	1	1	0	2	0	112	0	112	113	0	0	113	227
12:15 PM	0	1	0	1	0	111	0	111	100	0	0	100	212
Total Volume	1	3	0	4	4	476	0	480	423	0	0	423	907
% App. Total	25	75	0		0.8	99.2	0		100	0	0		
PHF	.250	.750	.000	.500	.500	.869	.000	.863	.936	.000	.000	.936	.937



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Groups Printed- Heavy Vehicles

		Galileo Drive (Stur	bridge Business	Park)	Main St	reet (Route 20)		Main Stre	eet (Route 20)		
L		Fro	m North		F	rom East		Fre	om West		
L	Start Time	Right	Left	U-Turn	Right	Thru	U-Turn	Thru	Left	U-Turn	Int. Total
	11:00 AM	0	0	0	0	0	0	1	0	0	1
	11:15 AM	0	0	0	0	1	0	2	0	0	3
	11:30 AM	0	0	0	0	0	0	0	0	0	0
	11:45 AM	0	0	0	0	1	0	0	0	0	1_
	Total	0	0	0	0	2	0	3	0	0	5
	12:00 PM	0	0	0	0	0	0	2	0	0	2
	12:15 PM	0	0	0	0	1	0	7	0	0	8
	12:30 PM	0	0	0	0	1	0	4	0	0	5
	12:45 PM	0	0	0	0	1	0	5	0	0	6
	Total	0	0	0	0	3	0	18	0	0	21
	01:00 PM	0	0	0	0	1	0	0	0	0	1
	01:15 PM	0	0	0	0	1	0	0	0	0	1
	01:30 PM	0	0	0	0	2	0	1	0	0	3
	01:45 PM	0	0	0	0	1	0	1	0	0	2_
	Total	0	0	0	0	5	0	2	0	0	7
	Grand Total	0	0	0	0	10	0	23	0	0	33
	Apprch %	0	0	0	0	100	0	100	0	0	
	Total %	0	0	0	0	30.3	0	69.7	0	0	

	Galileo I	Drive (Sturbri	dge Business	s Park)		Main Street	(Route 20)			Main Street	(Route 20)		
		From	North	,		From	East			From	West		
Start Time	Right	Left	U-Turn	App. Total	Right	Thru	U-Turn	App. Total	Thru	Left	U-Turn	App. Total	Int. Total
Peak Hour Analysis From	11:00 AM to 0	1:45 PM - Pe	ak 1 of 1										
Peak Hour for Entire	Intersection 1	Begins at 1	2:00 PM										
12:00 PM	0	0	0	0	0	0	0	0	2	0	0	2	2
12:15 PM	0	0	0	0	0	1	0	1	7	0	0	7	8
12:30 PM	0	0	0	0	0	1	0	1	4	0	0	4	5
12:45 PM	0	0	0	0	0	1	0	1	5	0	0	5	6
Total Volume	0	0	0	0	0	3	0	3	18	0	0	18	21
% App. Total	0	0	0		0	100	0		100	0	0		
PHF	.000	.000	.000	.000	.000	.750	.000	.750	.643	.000	.000	.643	.656



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Groups Printed- Peds and Bicycles

	Galileo Driv		ge Business I	Park)	-	Main Street (Main Street (
		From N				From				From V			
Start Time	Right	Left	Peds EB	Peds WB	Right	Thru	Peds SB	Peds NB	Thru	Left	Peds NB	Peds SB	Int. Total
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:45 AM	0	0	0	2	0	0	0	0	0	0	0	0	2_
Total	0	0	0	2	0	0	0	0	0	0	0	0	2
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 PM	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
01:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
01:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
01:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
01:45 PM	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
Grand Total	0	0	0	2	0	0	0	0	0	0	0	0	2
Apprch %	0	0	0	100	0	0	0	0	0	0	0	0	
Total %	0	0	0	100	0	0	0	0	0	0	0	0	

	Galile		Sturbridge From Nor	Business Pa	ark)		Main	Street (Rou	,				Street (Rou From Wes	,		
Start Time	Right	Left		Peds WB	App. Total	Right	Thru	Peds SB	Peds NB	App. Total	Thru	Left	Peds NB	Peds SB	App. Total	Int. Total
Peak Hour Analysis From 1	1:00 AM to 01:	45 PM - Pea	k 1 of 1													
Peak Hour for Enti	ire Intersec	ction Beg	gins at 11	:00 AM												
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:45 AM	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	2
Total Volume	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	2
% App. Total	0	0	0	100		0	0	0	0		0	0	0	0		
PHF	.000	.000	.000	.250	.250	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.250



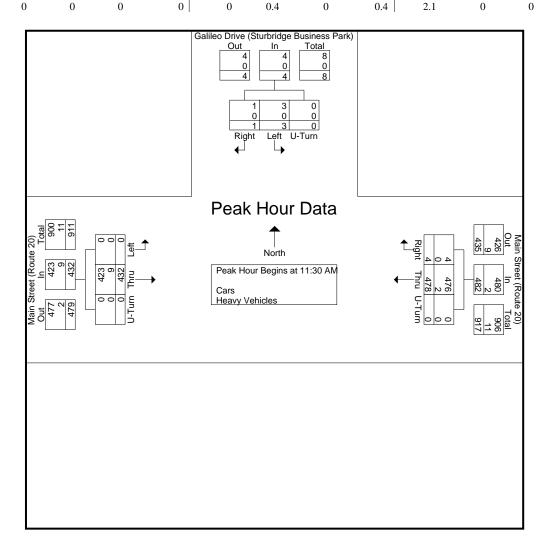
N: Galileo Dr (Sturbridge Business Park)

E/W: Main Street (Route 20)
City, State: Sturbridge, MA
Client: VHB/ K. Keen

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	Galileo I	Drive (Sturbri		s Park)		Main Street	` ,			Main Street	` '		
		From	North			Fron	East			From	West		
Start Time	Right	Left	U-Turn	App. Total	Right	Thru	U-Turn	App. Total	Thru	Left	U-Turn	App. Total	Int. Total
Peak Hour Analysis From	11:00 AM to 0	1:45 PM - Pe	ak 1 of 1										
Peak Hour for Entire l	Intersection	Begins at 1	1:30 AM										
11:30 AM	0	1	0	1	2	116	0	118	107	0	0	107	226
11:45 AM	0	0	0	0	2	138	0	140	103	0	0	103	243
12:00 PM	1	1	0	2	0	112	0	112	115	0	0	115	229
12:15 PM	0	1	0	1	0	112	0	112	107	0	0	107	220
Total Volume	1	3	0	4	4	478	0	482	432	0	0	432	918
% App. Total	25	75	0		0.8	99.2	0		100	0	0		
PHF	.250	.750	.000	.500	.500	.866	.000	.861	.939	.000	.000	.939	.944
Cars	1	3	0	4	4	476	0	480	423	0	0	423	907
% Cars	100	100	0	100	100	99.6	0	99.6	97.9	0	0	97.9	98.8
Heavy Vehicles	0	0	0	0	0	2	0	2	9	0	0	9	11
% Heavy Vehicles	0	0	0	0	0	0.4	0	0.4	2.1	0	0	2.1	1.2





Seasonal Adjustment Factors

MASSACHUSETTS HIGHWAY DEPARTMENT - STATEWIDE TRAFFIC DATA COLLECTION

2011 WEEKDAY SEASONAL FACTORS *

1105,1106,1107,1108,1113,1114,1116,2196,2197,2198

^{*} Note: These are weekday factors. The average of the factors for the year will not equal 1, as weekend data are not considered.

FACTOR GROUP	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC
GROUP 1 - WEST INTERSTATE	0.98	0.93	0.90	0.89	0.90	0.88	0.91	0.90	0.89	0.89	0.93	0.95
Use group 2 for R5, R6, & R0 GROUP 2 - RURAL MAJOR COLLECTOR (R-5)	1.12	1.12	1.07	0.99	0.91	0.90	0.86	0.86	0.92	0.93	1.01	1.05
GROUP 3A - RECREATIONAL **(1-4) See below	1.26	1.25	1.20	1.06	0.96	0.89	0.76	0.76	0.92	0.99	1.08	1,14
GROUP 3B - RECREATIONAL ***(5) See below	1.22	1.26	1.22	1.06	0.96	0.90	0.72	0.74	0.97	1.02	1.14	1.15
GROUP 4 - I-495 INTERSTATE	1.02	1.00	1.00	0.96	0.92	0.89	0.85	0.83	0.93	0.96	1.01	1.03
GROUP 5 - EAST INTERSTATE	1.04	1.00	0.96	0.93	0.92	0.91	0.91	0.89	0.93	0.93	0.96	1.01
Use group 6 for U2, U3, U5, U6, U0, R2, & R3 GROUP 6 - URBAN ARTERIALS, COLLECTORS & RURAL ARTERIALS (R-2, R-3)	1.03	1.01	0.96	0.92	0.91	0.90	0.92	0.92	0.93	0.92	0.97	0.97
GROUP 7 - I-84 PROXIMITY (STAS. 17,3921)	1.24	1.24	1.15	1.04	0.99	1.00	0.93	0.89_	1.05	1.05	1.05	1.12
GROUP 8 - I-295 PROXIMITY (STA. 6590)	1.00	0.99	0.95	0.92	0.94	0.91	0.93	0.92	0.95	0.94	0.97	0.95
GROUP 9 - I-195 PROXIMITY (STA. 7)	1.13	1.05	1.03	0.95	0.89	0.87	0.86	0.79	0.88	0.91	0.99	1.03

RECREATIONAL: (ALL YEARS)	2011 AXLE CORRECT	ION FACTORS	ROUND OFF
**GROUP 3A: 1. CAPE COD (ALL TOWNS) 2.PLYMOUTH(SOUTH OF RTE:3A)	ROAD INVENTORY FUNCTIONAL CLASSIFICATION RURAL	AXLE CORRECTION FACTOR	0 - 99910 > 1,000100
7014, 7079,7080,7090,7091,7092,7093,7094,7095,7096,7097,7108,7178 3.MARTHA'S VINEYARD 4.NANTUCKET	1 2 3 0,5,6	0.95 0.97 0.98 0.98	
***GROUP 3B: 5.PERMANENTS 2 & 189 1066,1067,1083,1084,1085,1086,1087,1088,1089,1090,1091,1092, 1093,1094,1095,1096,1097,1098,1099,1100,1101,1102,1103,1104,	URBAN 1 2 3 5 0.6	0.96 0.98 0.98 0.98 0.99	_ ·

I-84

Apply I-84 factor to stations: 3290,3929

0.90



Vehicular Crash Data



INTERSECTION CRASH RATE WORKSHEET

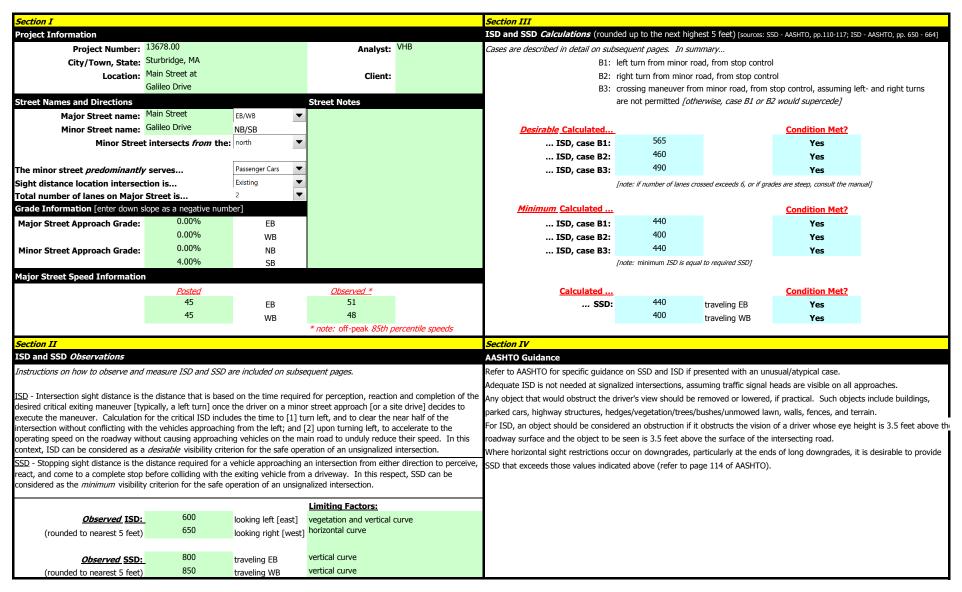
	<u>, MA</u>			COUNT DA	TE:	Sept, 2016
DISTRICT: 3	UNSIGN	NALIZED :	X	SIGNA	LIZED :	
	_		0.61			0.89
			TERSECTION	N DAIA ~		
MAJOR STREET :	Main Street	(Route 20)				
MINOR STREET(S):	Galileo Drive	9				
INTERSECTION	North			Galileo Drive	9	
DIAGRAM		_				
(Label Approaches)					 Main Street (Dt- 00)
			PEAK HOU	R VOLUMES		
APPROACH :	1	2	PEAK HOUI	R VOLUMES	5	Total Peak Hourly
APPROACH : DIRECTION :	1 NB	2 SB		_	5	Total Peak Hourly Approach Volume
DIRECTION : PEAK HOURLY			3	4	5	Hourly Approach
DIRECTION:	NB	SB 60	3 EB 380 ECTION ADT	4 WB 535		Hourly Approach Volume
DIRECTION : PEAK HOURLY VOLUMES (AM/PM) :	NB 0 0.090	SB 60	3 EB 380 ECTION ADT	WB 535 (V) = TOTA VOLUME: AVERA CRASHES		Hourly Approach Volume 975
DIRECTION: PEAK HOURLY VOLUMES (AM/PM): "K" FACTOR:	NB 0 0.090	SB 60 INTERSI	3 EB 380 ECTION ADT APPROACH	4 WB 535 (V) = TOTA VOLUME: AVERA CRASHES A	GE # OF PER YEAR (Hourly Approach Volume 975 10,833
DIRECTION: PEAK HOURLY VOLUMES (AM/PM): "K" FACTOR: OTAL # OF CRASHES:	NB 0 0.090 2 ILATION:	SB 60 INTERSI # OF YEARS:	3 EB 380 ECTION ADT APPROACH	4 WB 535 (V) = TOTA VOLUME: AVERA CRASHES A	GE # OF PER YEAR (Hourly Approach Volume 975 10,833

Police Agency	Crash Number	City/Town	RMV Document#	Crash Date	Crash Time	Crash Severity		Number of NonFatal Injuries	Number of Fatal Injuries	Manner of Collision	Road Surface	Ambient Light	Weather Condition	Roadway	Near Intersection Roadway	Distance And Direction From Intersection	Vehicle Travel Directions	Most Harmful Events	Distance And Direction From Exit Number	Direction	Distance And Direction From Milemarker	Vehicle Action Prior to Crash	Non Motorist Type
						Property								MAIN				V1:(Collision with motor vehicle				V1: Turning left	
Local						damage only								STREET Rte	RIVERVIEW			in traffic) / V2:(Collision with				/ V2: Turning	
police	3393926	STURBRIDGE	PR201307100326	02/21/2013	12:06 PM	(none injured)	2	0	0	Angle	Dry	Daylight	Clear	20 W	AVENUE	1000 feet S of	V1: S / V2: E	motor vehicle in traffic)				left	
																						V1: Travelling	
						Property				Sideswipe,				MAIN				V1:(Collision with motor vehicle				straight ahead /	
Local						damage only		ĺ		opposite				STREET Rte	LAFLAMME		V1: E / V2:	in traffic) / V2:(Collision with				V2: Travelling	1
police	4018457	STURBRIDGE	PR201506400750	02/05/2015	9:14 AM	(none injured)	2	0	0	direction	Snow	Daylight	Snow/Cloudy	20	LANE	500 feet W of	W	motor vehicle in traffic)				straight ahead	



Sight Distance Worksheet

Stopping Sight Distance and Intersection Sight Distance Calculator [v0.97] Based on 'A Policy on Geometric Design of Highways and Streets', AASHTO, 2004





Historic Traffic Growth

AADT by Year Comparison Matrix for 1/1/2010 - 12/31/2019 Criteria: Location ID = 3329

District Location ID 3329 County Hampden
Roadbed ML

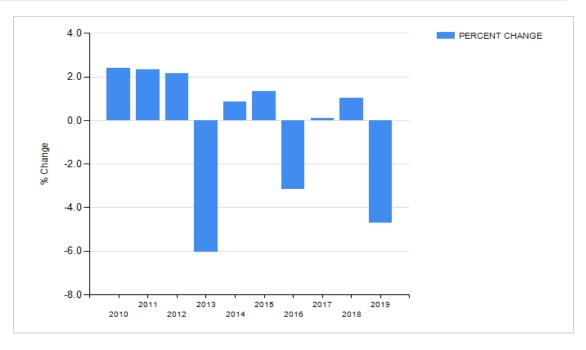
Community Brimfield

Direction 2-WAY

Collection Type HPMS Route 20

Located On: STURBRIDGE ROAD

Year	AADT	2010	2011	2012	2013	2014	2015	2016	2017	2018
2010	8,009				_					
2011	8,195	2.3								
2012	8,371	4.5	2.1							
2013	7,864	-1.8	-4.0	-6.1						
2014	7,932	-1.0	-3.2	- 5.2	0.9					
2015	8,038	0.4	-1.9	-4.0	2.2	1.3				
2016	7,785	- 2.8	- 5.0	-7.0	-1.0	-1.9	-3.1			
2017	7,793	- 2.7	-4.9	-6.9	-0.9	-1.8	-3.0	0.1		
2018	7,872	-1.7	-3.9	-6.0	0.1	-0.8	-2.1	1.1	1.0	
2019	7,501	-6.3	- 8.5	-10.4	-4.6	- 5.4	-6.7	-3.6	-3.7	-4.7





Trip Generation



To: Mr. Alexander Oliphant 4 Irving Road Weston, Massachusetts 02493 Date: May 10, 2019

Memorandum

Project #: 13678.00

From: Randall C. Hart, Principal

Matthew Duranleau, EIT

Re: Trip Generation Memorandum

Proposed Recreational Marijuana Dispensary

660 Main Street

Sturbridge, Massachusetts

Vanasse Hangen Brustlin, Inc. (VHB) has evaluated the trip generation potential of a proposed recreational marijuana dispensary (the "Project") to be located at 660 Main Street in Sturbridge, Massachusetts (the "Site"). The Project involves the addition of recreational marijuana sales to the formerly approved medical sale facility. This memorandum outlines the trip generation changes anticipated by the proposed Project.

Trip Generation

The rate at which any development generates traffic is dependent upon the size, location, and concentration of surrounding developments. As mentioned above, the proposed Project will involve the addition of recreational marijuana sales to the previously approved medical dispensary at 660 Main Street. It should be noted that the medical marijuana dispensary was approved in 2017 for a building size of approximately 2,700 sf, but the actual building is approximately 1,695 sf. To estimate the total site-generated traffic, transactional data and operations for the facility were provided by the Proponent. This methodology of using transactional data to estimate trip generation was used in the December 19, 2016, memorandum prepared by VHB for the permitting of the medical marijuana dispensary on-Site. The same methodology has been used in this memorandum in order to be consistent with the previous filing.

The dispensary is anticipated to be open seven days a week with operational hours from 10:00 AM to 7:00 PM Monday through Thursday, 10:00 AM to 9:00 PM on Friday and Saturday, and 12:00 PM to 6:00 PM on Sunday. The Proponent anticipates a maximum of fifteen employees at the facility at one time. There will be six cash registers in the dispensary, and each customer appointment is anticipated to last approximately ten minutes.

Table 1 provides a trip generation summary of the proposed recreational marijuana dispensary and a comparison to the trip generation of the already-approved medical-only dispensary. To be conservative, 36 customer appointments (six appointments per cash register) and six total employee trips were assumed to occur during each peak hour.

Ref: 13678.00 May 10, 2019 Page 2

Table 1 Trip Generation Summary

Recreational Marijuana

Time Period	Direction	Dispensary	Formerly Medical Only ^d	Change Expected
Weekday Daily ^a	Enter	340	172	+ 168
	<u>Exit</u>	<u>340</u>	<u>172</u>	<u>+ 168</u>
	Total	680	344	+ 336
Weekday	Enter	42	24	+ 18
Evening ^b	<u>Exit</u>	<u>42</u>	<u>26</u>	<u>+ 16</u>
	Total	84	50	+ 34
Saturday Daily ^c	Enter	412	172	+ 240
	<u>Exit</u>	<u>412</u>	<u>172</u>	<u>+ 240</u>
	Total	824	344	+ 480
Saturday	Enter	42	26	+ 16
Midday ^b	<u>Exit</u>	<u>42</u>	<u>26</u>	<u>+ 16</u>
	Total	84	52	+ 32

Weekday daily trip generation Monday through Thursday. Based on 324 customer visits (36 per hour for 9 hours), 15 employee trips, and 1 supply delivery per day.

As shown in Table 1, the proposed recreational marijuana dispensary is expected to result in a total of 680 vehicle trips (340 entering / 340 exiting) on a typical weekday, with a total of 84 vehicle trips (42 entering / 42 exiting) during the weekday evening peak hour. On a typical Saturday, the project is expected to generate a total of 824 vehicle trips (412 entering / 412 exiting) with 84 vehicle trips (42 entering / 42 exiting) during the Saturday midday peak hour. Compared to the trips that are expected to be generated by a medical-only dispensary on-Site, the Project will generate approximately 336 and 480 additional daily trips on a typical weekday and a typical Saturday, respectively, and approximately 34 and 32 additional peak hour trips during the weekday evening and Saturday midday peak hours, respectively.

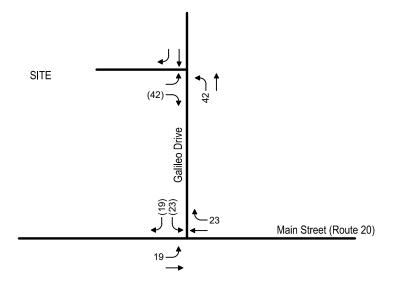
It should be noted that the proposed trip generation estimates assume that the maximum number of appointments will occur for all hours that the dispensary is open. In actuality, all six cash registers may not be open at all hours based on demand, and there may be breaks in customers between appointments. Therefore, the trip generation estimates shown in Table 1 are conservative and the actual number of trips generated by the Site may be lower than what is presented above.

b Peak hour trip generation based on 36 customer visits and 6 employee trips per peak hour.

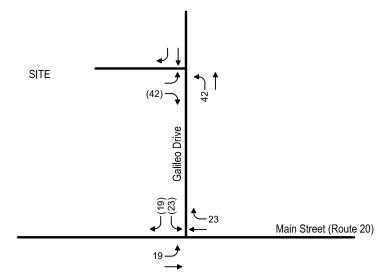
c Saturday daily trip generation based on 396 customer visits (36 per hour for 11 hours), 15 employee trips, and 1 supply delivery per day.

d From December 19, 2016 Traffic Memorandum prepared by VHB.

Weekday Evening Peak Hour xx = Entering Trips (xx) = Exiting Trips



Saturday Midday Peak Hour xx = Entering Trips (xx) = Exiting Trips

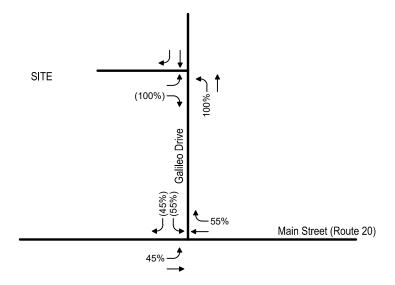






Trip Distribution

xx% = Entering Trips (xx%) = Exiting Trips

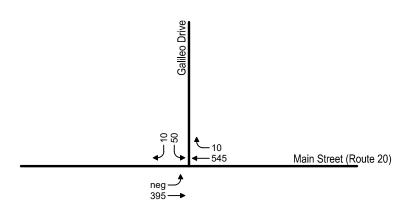




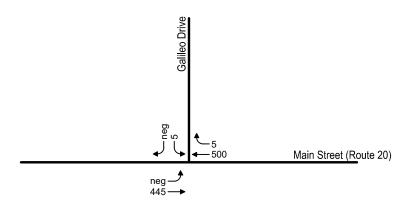


Traffic Volume Networks

Weekday Evening Peak Hour neg = Negligible

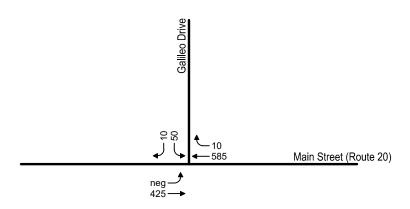


Saturday Midday Peak Hour neg = Negligible

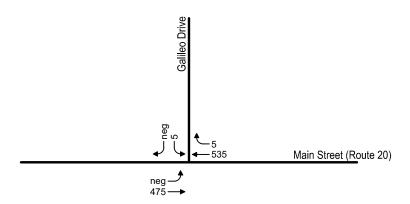




Weekday Evening Peak Hour neg = Negligible

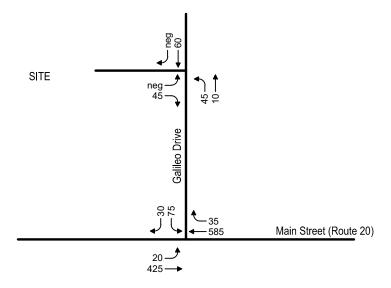


Saturday Midday Peak Hour neg = Negligible

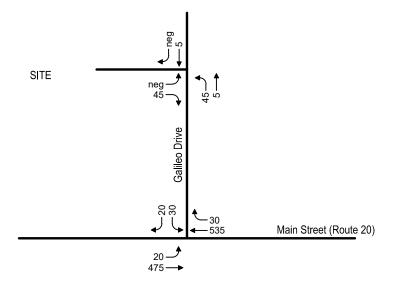




Weekday Evening Peak Hour neg = Negligible



Saturday Midday Peak Hour neg = Negligible







Intersection Capacity Analyses

Intersection						
Int Delay, s/veh	1.4					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
	EBL		WB1	WBK	SBL	SBK
Lane Configurations	^	₽		40		40
Traffic Vol, veh/h	2	395	545	10	50	10
Future Vol, veh/h	2	395	545	10	50	10
Conflicting Peds, #/hr	_ 0	_ 0	_ 0	_ 0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	93	93	95	95	88	88
Heavy Vehicles, %	4	4	2	2	5	5
Mvmt Flow	2	425	574	11	57	11
		0	.			
Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	584	0	-	0	1008	579
Stage 1	-	-	-	-	579	-
Stage 2	-	-	-	-	429	-
Critical Hdwy	4.14	-	-	-	6.45	6.25
Critical Hdwy Stg 1	-	-	-	-	5.45	-
Critical Hdwy Stg 2	-	_	_	-	5.45	_
Follow-up Hdwy	2.236	_	-		3.545	3.345
Pot Cap-1 Maneuver	981	_	-	-	263	509
Stage 1	-	_	-		555	-
Stage 2	-		-	-	650	
	-				000	-
Platoon blocked, %	004	-	-	-	000	500
Mov Cap-1 Maneuver	981	-	-	-	262	509
Mov Cap-2 Maneuver	-	-	-	-	262	-
Stage 1	-	-	-	-	555	-
Stage 2	-	-	-	-	648	-
Approach	EB		WB		SB	
HCM Control Delay, s	0		0		21.6	
	U		U			
HCM LOS					С	
Minor Lane/Major Mvmt		EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)		981	-	-	-	285
HCM Lane V/C Ratio		0.002	-	-	-	0.239
HCM Control Delay (s)		8.7	0	-	-	21.6
HCM Lane LOS						21.0 C
		A	A	-	-	0.9
HCM 95th %tile Q(veh)		0	-	-	-	0.9

Intersection						
Int Delay, s/veh	0.2					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	LDL	€Î	₩ <u>₩</u>	WDR	SDL W	SDR
	0		→ 500	F		1
Traffic Vol, veh/h	0	445		5	5	
Future Vol, veh/h	0	445	500	5	5	1
Conflicting Peds, #/hr	_ 2	0	_ 0	_ 2	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	94	94	86	86	50	50
Heavy Vehicles, %	2	2	0	0	0	0
Mymt Flow	0	473	581	6	10	2
WWITELLOW	U	410	301	U	10	2
Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	589	0	-	0	1059	586
Stage 1	-	_	_	-	586	
Stage 2		-	-	_	473	-
Critical Hdwy	4.12	_	_	-	6.4	6.2
Critical Hdwy Stg 1	7.12	-	-	-	5.4	0.2
Critical Hdwy Stg 2	-				5.4	-
		-	-	-		
Follow-up Hdwy	2.218	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	986	-	-	-	251	514
Stage 1	-	-	-	-	560	-
Stage 2	-	-	-	-	631	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	986	-	-	-	250	513
Mov Cap-2 Maneuver	-	-	-	-	250	-
Stage 1	-	-	-	-	559	-
Stage 2	_	-	-	_	630	-
Jugo L					000	
Approach	EB		WB		SB	
HCM Control Delay, s	0		0		18.8	
HCM LOS					С	
Minor Lane/Major Mvmt		EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)		986	-	-	-	273
HCM Lane V/C Ratio		-	-	-	-	0.044
HCM Control Delay (s)		0	-	-	-	18.8
HCM Lane LOS		A	-	-	-	С
HCM 95th %tile Q(veh)		0	-	-	-	0.1
300. 700.0 4(10.1)						V. 1

Intersection						
Int Delay, s/veh	1.4					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
	EDL			WBK	SBL	SBK
Lane Configurations	0	€ 1	1	40		40
Traffic Vol, veh/h	2	425	585	10	50	10
Future Vol, veh/h	2	425	585	10	50	10
Conflicting Peds, #/hr	0	_ 0	0	_ 0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	4	4	2	2	5	5
Mvmt Flow	2	462	636	11	54	11
NA 1 (NA)					M. C	
Major/Minor	Major1		Major2		Minor2	014
Conflicting Flow All	647	0	-	0	1107	641
Stage 1	-	-	-	-	641	-
Stage 2	-	-	-	-	466	-
Critical Hdwy	4.14	-	-	-	6.45	6.25
Critical Hdwy Stg 1	-	-	-	-	5.45	-
Critical Hdwy Stg 2	-	-	-	-	5.45	-
Follow-up Hdwy	2.236	-	-	-	3.545	3.345
Pot Cap-1 Maneuver	929	-	-	-	229	469
Stage 1	-	-	-		519	-
Stage 2	-	_	_	-	625	_
Platoon blocked, %				_	020	
Mov Cap-1 Maneuver	929	_		_	228	469
Mov Cap-1 Maneuver	323		-	-	228	-
Stage 1					519	-
					623	
Stage 2	-	-	-	-	623	-
Approach	EB		WB		SB	
HCM Control Delay, s	0		0		24.5	
HCM LOS	0		J		Z-4.5	
I IOWI LOG					U	
Minor Lane/Major Mvmt		EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)		929	-	-	-	249
HCM Lane V/C Ratio		0.002	-	-	-	0.262
HCM Control Delay (s)		8.9	0	-	-	24.5
HCM Lane LOS		A	A	_	_	C
HCM 95th %tile Q(veh)		0	-		-	1
HOW BOUT MUTE Q(VEIT)		U	-	-	-	1

-						
Intersection						
Int Delay, s/veh	0.1					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
	EDL	EB1	WB1 1 ≽	WDK	SBL W	SDR
Lane Configurations	^			_		,
Traffic Vol, veh/h	0	475	535	5	5	1
Future Vol, veh/h	0	475	535	5	5	1
Conflicting Peds, #/hr	2	0	0	2	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	0	0	0	0
Mymt Flow	0	516	582	5	5	1
WWIIICTIOW	U	310	302	J	3	
Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	589	0	-	0	1102	586
Stage 1	-	_	_	_	586	_
Stage 2	-	_		_	516	
Critical Hdwy	4.12	_	-	-	6.4	6.2
Critical Hdwy Stg 1	2	-	-	_	5.4	-
Critical Hdwy Stg 2	-	-	-		5.4	-
	2.218				3.5	3.3
Follow-up Hdwy		-	-	-		
Pot Cap-1 Maneuver	986	-	-	-	236	514
Stage 1	-	-	-	-	560	-
Stage 2	-	-	-	-	603	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	986	-	-	-	235	513
Mov Cap-2 Maneuver	-	-	-	-	235	-
Stage 1	-	-	-	-	559	-
Stage 2	-	-	-		602	-
g						
Approach	EB		WB		SB	
HCM Control Delay, s	0		0		19.3	
HCM LOS					С	
Mineral and Maior Maria		EDI	EDT	MDT	WDD	ODL 4
Minor Lane/Major Mvmt		EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)		986	-	-	-	258
HCM Lane V/C Ratio		-	-	-	-	0.025
HCM Control Delay (s)		0	-	-	-	19.3
HCM Lane LOS		Α	-	-	-	С
HCM 95th %tile Q(veh)		0	-	-	-	0.1
		-				

Intersection						
Int Delay, s/veh	3					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	LDL	<u>⊏БП</u>	₩D1	WDIN	SDL W	ODIN
Traffic Vol., veh/h	20	425	585	35	75	30
Future Vol. veh/h	20	425	585	35	75	30
Conflicting Peds, #/hr	20	425	0	35 0	/5 0	0
			Free			-
Sign Control	Free	Free		Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	4	4	2	2	5	5
Mvmt Flow	22	462	636	38	82	33
Major/Minor	Major1		Major2		Minor	
Major/Minor	Major1		Major2		Minor2	CEE
Conflicting Flow All	674	0	-	0	1160	655
Stage 1	-	-	-	-	655	-
Stage 2	-	-	-	-	505	-
Critical Hdwy	4.14	-	-	-	6.45	6.25
Critical Hdwy Stg 1	-	-	-	-	5.45	-
Critical Hdwy Stg 2	-	-	-	-	5.45	-
Follow-up Hdwy	2.236	-	-	-	3.545	3.345
Pot Cap-1 Maneuver	908	-	-	-	213	461
Stage 1	-	-	-	-	511	-
Stage 2	-	_	_	_	600	_
Platoon blocked, %		-	_	_	000	
Mov Cap-1 Maneuver	908	_	_	_	206	461
Mov Cap-1 Maneuver	900		-	-	206	401
Stage 1	-	-		-	511	-
Stage 2	-	-	-	-	580	-
Approach	EB		WB		SB	
HCM Control Delay, s	0.4		0		31.9	
HCM LOS	0.7		J		D D	
I IOWI LOG					U	
Minor Lane/Major Mvmt		EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)		908	-	-	-	245
HCM Lane V/C Ratio		0.024	-	-	-	0.466
HCM Control Delay (s)		9.1	0	_	-	31.9
HCM Lane LOS		Α	A	-	-	D D
HCM 95th %tile Q(veh)		0.1	-		-	2.3

Intersection						
Int Delay, s/veh	4.6					
		EDD	NDI	NDT	CDT	CDD
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	À	45	45	€ 10	1	^
Traffic Vol, veh/h	0	45	45	10	60	0
Future Vol, veh/h	0	45	45	10	60	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	49	49	11	65	0
	•					
Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	174	65	65	0	-	0
Stage 1	65	-	-	-	-	-
Stage 2	109	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	816	999	1537	-	-	-
Stage 1	958	-	-	-	-	-
Stage 2	916	_	_	-	_	_
Platoon blocked. %	310			-		
Mov Cap-1 Maneuver	790	999	1537	-	-	-
Mov Cap-1 Maneuver Mov Cap-2 Maneuver	790 790		1557	-	-	-
	790 958	-	-	-		
Stage 1		-	-	-	-	-
Stage 2	887	-	-	-	-	-
Approach	EB		NB		SB	
HCM Control Delay, s	8.8		6.1		0	
HCM LOS	0.0 A		0.1		U	
LON FOR	А					
Minor Lane/Major Mvmt		NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)		1537	-	999	-	-
HCM Lane V/C Ratio		0.032	-	0.049	-	
HCM Control Delay (s)		7.4	0	8.8	-	_
HCM Lane LOS		Α.	A	Α	-	-
HCM 95th %tile Q(veh)		0.1	-	0.2		
HOW JULI /OLIE Q(VEII)		U. I	-	0.2	-	_

Intersection						
Int Delay, s/veh	1.1					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	LUL	<u>∟ы</u>	₩D1	WOR	ÿ.	ODIX
Traffic Vol., veh/h	20	475	535	30	30	20
Future Vol. veh/h	20	475 475	535	30	30	20
Conflicting Peds, #/hr	20	4/5	0	2	0	20
		Free	Free			_
Sign Control	Free			Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	0	0	0	0
Mvmt Flow	22	516	582	33	33	22
Major/Minor	Major4		Majoro		Minor	
Major/Minor	Major1		Major2		Minor2	000
Conflicting Flow All	616	0	-	0	1160	600
Stage 1	-	-	-	-	600	-
Stage 2	-	-	-	-	560	-
Critical Hdwy	4.12	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.218	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	964	-	-	-	218	505
Stage 1	-		-	-	552	-
Stage 2	-	_	_	_	576	_
Platoon blocked, %			_		0.0	
Mov Cap-1 Maneuver	964	_	_	_	210	504
Mov Cap-1 Maneuver	304	-	-	-	210	-
Stage 1	-	-	-	-	551	-
Stage 2	-	-	-	-	557	-
Approach	EB		WB		SB	
HCM Control Delay, s	0.4		0		21.4	
HCM LOS	V. T		J		21.4 C	
I IOWI LOG					U	
Minor Lane/Major Mvmt		EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)		964	-	-	-	274
HCM Lane V/C Ratio		0.023	-	-	-	0.198
		8.8	0	-	-	21.4
HCM Control Delay (s)						
HCM Lang LOS						
HCM Control Delay (s) HCM Lane LOS HCM 95th %tile Q(veh)		0.0 A 0.1	A	-	-	C 0.7

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Int Delay, s/veh	Intersection						
Novement		7.1					
Lane Configurations			EDE	ND	NDT	CDT	CDD
Traffic Vol, veh/h			FRK	NRL			SBK
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RT Channelized					_		
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Critical Hdwy Stg 1 5.42 -					-	-	-
Critical Hdwy Stg 2 5.42 -				4.12	-	-	-
Follow-up Hdwy 3.518 3.318 2.218 Pot Cap-1 Maneuver 889 1078 1616 Stage 1 1018	Critical Hdwy Stg 1			-	-	-	-
Pot Cap-1 Maneuver	Critical Hdwy Stg 2	5.42	-		-	-	-
Stage 1	Follow-up Hdwy		3.318		-	-	-
Stage 2 921 - - - - - - - - -	Pot Cap-1 Maneuver	889	1078	1616	-	-	-
Stage 2 921 - - - - - - - - -	Stage 1	1018	-	-	-	-	-
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Stage 2 893 -							
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HCM Lane LOS A A A							
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	HCIVI 95th %tile Q(veh)		0.1	-	0.1	-	-

Vital Statistics, 660 Main Street

Square Footage

The building is <u>1696 square feet</u>

Water and Sewer Estimates

Water use will be based upon DEP Septic System tables.
Office Building—75 gallons per day per 1,000 square feet
1696 square feet means 2 X 75 gallons per day =150 gallons per day.

Sewer Use is the same by regulation but is anticipated to be 80% of water usage due to such things as gardening, lawns, etc. Accordingly, sewer discharge is anticipated to be 120 gallons per day.

Parking

27 parking stalls are shown on the enclosed site plan, including one delivery stall and two HC stalls. The applicant proposes 22 of these stalls in accordance with Section 20.22 of the Zoning By-laws (9 stalls for the approximately 1,696 SF building, and 15 stalls for employees) and five additional stalls.

to be his free act and deed, before me. . Justice of the Peace. J M Cochran Rec'd Oct. 10, 1916, at 8h. 30m. A. M. Ent'd & Ex'd.

Momines

to

a corporation duly organized under the laws of the State of New York. receipt of which is hereby acknowledged, hereby G R A N T. B A R G A I N. S E L L and C O N V E Y unto the said New England Tele
N.E. Tel. & Tel. phone and Telegraph Company the right to erect, operate, and maintain
lines of telephone and telegraph, including the necessary poles and fixtures uncovered area the received and telegraph. tures, upon and over the premises in the said Town of STURBRIDGE County of Worcester State of Massachusetts of which I am the sole owner bounded and described as follows, to wit: Pasture land bounded northerly by land of william Alien easterly by land of F. Denault, southerly by highway leading Southbridge to Springfield westerly by land-John Redding Sam Cohen. The above-granted rights being more particularly described as the exclusive rights and restrict research. sive right to erect and maintain poles with the wires thereon with the necessary guys and supports and the right to cut down and keep trimmed, all trees and bushes, as the grantee may desire, within a strip of land forty (40) feet in width, upon and over said described premises, the location of said strip to be determined by, and to become permanent upon, the srection of the poles in said lines of telephone and telegraph, with permission to enter upon said strip and upon said premises for access thereto for all the above purposes.

KNOW ALL MEN BY THESE PRESENTS that I Mary Mominee of the Town of Sturbridge County of Wordester State

of Massachusetts in consideration of One Dollar and other valuable considerations to me paid by the New England Telephone and Telegraph Company.

TO HAVE and TO HOLD the above-granted rights and privileges in, upon and over said premises to the said New England Telephone and Telegraph Company its successors and assigns, for their own use and beholf forever. And I do hereby for myself and my heirs, executors and administrators, covenant with the said grantes and its successors and assigns, that I am lawfully seized in fee simple of the eforesaid premises, that they are free from all incumbrances except, that I have good right to sell and convey the rights as aforesaid and that I will and my heirs, executors and administrators shall. WARRANT and DEFEND the same to the said grantee and its successors and assigns forever against the lawful claims and demands of all persons.

And for the consideration aforesaid I, Harmides Momidee husband of the said Mary Momines hereby release unto the grantee and its successors and assigns all right of and to CURTESY and all other rights and and all other rights and

interests in the rights and easements herein conveyed. our hands and common seal, this 5 day of July 1916.

WITNESS Charles Farker Witness Rehnie Mominee Witness Charles Parker Witness

Wi tness

Rehnie Momines.

Mrs Mary + Mominee mark his

Ur Harmides + Mominee mark

her

(seal)

July 5 1916 Then personall Wordester as., July 5 1916 Then personally appeared the above-named Mary Momines and Harmides Monines and personally acknowledged the foregoing instrument to be their free act and deed, before me, Charles H Pillsbury Justice of the Peace. Wordester BB.,

Examined F L F Counsel

Reo'd Oct. 10, 1916, at Sh. 30m. A. M. Ent'd & Ex'd.

to

N.E. Tel.& Tel. Company

THESE PRESENTS BY MEN KNOW ALL Cohen et al. that we Samuel Cohen and William Cohen single, joint owners of the Town of Sturbridge County of Worcester State of Massachusetts in consideraof Sturbridge County of Worcester State of Massachusetts in consideration of One Doller and other valuable considerations to us paid by the
New England Telephone and Telegraph Company, a corporation duly organized
under the laws of the State of New York, receipt of which is hereby acknowledged, hereby GRANT, BARGAIN, SELL and CONknowledged, hereby GRANT, BARGAIN, SELL
AND CONthe said Town of STURBRIDGE County of Worcester State of Massachusetts
of which we are the sole owner bounded and described as follows, to wit;
of which we are the sole owner bounded and described as follows, to wit;
of which we are the sole owner bounded and described as follows, to wit;
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of which we are the sole owner bounded and described as follows, to wit;
of which we are the sole owner bounded and described as follows, to wit;

above granted rights being more particularly described as the exclusive right to erect and maintain poles with the wires therson with the neces-sary guys and supports and the right to out down and keep trimmed, all trees and bushes, as the grantee may desire, within a strip of land thirty fest in width, upon and over said described premises, the location of said strip to be determined by, and to become permanent upon, the erection of the poles in said lines of telephone and telegraph, with permission to enter upon said strip and upon said premises for access thereto for all the above purposes.

TO \bar{H} \bar{A} V E and TO H O L D the above granted rights and privileges in, upon and over said premises to the said New England Telephone and Telegraph Company its successors and assigns, for their own use and tehoof forever. And we do hereby for ourselves and our heirs, executors and administrators, covenant with the said grantee and its successors and assigns, that we are lawfully seized in fee simple of the aforesaid premises, that they are free from all incumbrances except, that we have good right to sell and convey the rights as aforesaid and that we will and our heirs, executors and administrators shall WARRANT and DE -FEND the same to the said grantee and its successors and assigns forever against the lawful claims and demands of all persons.

And for the consideration aforesaid I, Jennie Cohen wife of the said Samuel Cohen hereby release unto the grantes and its successors and assigns all right of and to both DOWER and ROMESTEAD and all other rights and interests in the rights and easements herein conveyed. WITNESS our hands and common seal this 26 day of June 1916.

Chas H Pillsbury Witness Chas K Pillsbury Witness

Samuel Cohen Jennie Cohen

Chas H Pillsbury Witness William Cohen

June 26, 1916. Then remarks Wordester as., June 26, 1916. Then personally appeared the accordance to be their free act and deed, before me, Charles H Pillsbury Justice of the Peace.

Examined F L F Counsel
Rec'd Oct. 10, 1916, at Sh. 30m. A. M. Ent'd & Ex'd.

The Athol Co-operative Bank, the mortgagee named in a certain mortgage and the holder of a mortgage by Henry C. Bosworth and Hattie J. Bosworth to the Athol Co-operative Bank dated May 15, 1916 recorded with Worcester District Deeds, Book 2104, Page 414, for consideration paid, RELEASE to the said Henry C. Bosworth and Hattle J. Bosworth all interest acquired under said mortgage in the following described portion of the mortgaged premises: A certain tract of land with a dwelling and barn thereon situate in the westerly part of said PHILLIPSTON, bounded and described as follows, viz:- Reginning at the southwest corner thereof at a corner of the walls, it being at the northwest corner of land of Fred Lincoln and in line of land of Harvard College (School of Forestry); thence easterly by said Lincoln land to a corner of the walls at land of one Gill; thence northerly by said Gill land and land of George Grogan to the Ward Hill Road leading from the Troworldge Ward place to Harvard School of Forestry in Petegraham; thence crossing said road and continuing in the same course as above by land of said Bosworth forty-two and one-fourth (42 1/4) rods to an iron pin and stones by a wall; thence westerly by land of said grantor sixty-two (62) rods to an iron pin and stones in the pasture; thence southerly by land of said Bosworth eighty-three and one-half (83 1/2) rods to said Ward Hill Road at an iron pin and stones; thence easterly by said road ten and one-fourth (10 1/4) rods to a point opposite the northeast corner of said Harrard College land; thence across said road and by said Harvard College land to the place of beginning. IN WITNESS WHEREOF, the said Athol Co-operative Bank he caused its corporate seal to be hereunto affixed and these presents to be the said Athol Co-operative Bank has signed acknowledged, and delivered in its name and behalf by its President Oscar T. Brocks, and its Treasurer A. Foster Hamilton, this twenty-sixth day of September, A. D. 1916.

Athol Co-operative Bank By Oscar T Brooks President A Foster Hamilton Treasurer

Commonwealth of Massachusetts Worcester, as. September 26, 1916. Then personally appeared the abovenamed A. Foster Hamilton and acknowledged the foregoing instrument to be the free act and deed, of the Athol Co-operative Bank, before me.

Amie M. Buchanan Special Commissioner Rec'd Oct. 10, 1916, at Sh. 30m. A. M. Ent'd & Ex'd.

Athol Co-op. Bank

to

Bosworth et al.

Heal Sturbridge, Inc./660 Main Street Chapter 31 Special Permit Submission

With respect to the Use Regulations set forth in Chapter 31, Heal Sturbridge, Inc. ("HSI") states as follows:

31.03(A): 660 Main Street is located in the GI and MMOD zoning district where an Adult Use Marijuana Establishment is allowed by special permit.

31.03(B): Upon information and belief, the Planning Board has not yet approved any Marijuana Retail Establishments, therefore the cap established by this section has not yet been reached.

31.03(C): HSI seeks a Marijuana Retailer license.

31.03(D): 660 Main Street is at least 500 feet from any pre-existing public or private, school (pre-school through Grade 12), child care facility, public playground, public park, youth center, library, or similar facility in which children commonly congregate. Please refer to Exhibit 1 (500 Foot Offset Plan).

31.03(E): HSI's operations shall take place in a fixed location and shall not be visible from the outside.

31.03(F): No marijuana shall be stored outside the facility.

31.03(G): HSI's proposed hours of operation are 10:00 a.m. until 7:00 p.m. Monday through Thursday, 10:00 a.m. until 9:00 p.m. Friday and Saturday, and 12:00 p.m. until 6:00 p.m. on Sundays. Heal may elect to open with more limited hours.

31.03(H): Please refer to Exhibit 2 (Odor Control Plan)

31.03(I): The proposed use will not create a nuisance to abutters or the surrounding area.

31.03(J): Heal, Inc. has already submitted a security plan for the proposed establishment to Chief Ford and installed the approved surveillance equipment. HSI intends to continue working with the Sturbridge Police Department to ensure that its facility provides for adequate and proper security to ensure the safety of employees and the public. Please refer to Exhibit 3 (Security Overview).

31.03(K): Heal intends to monitor the exterior of its facility to ensure that no marijuana or marijuana products are consumed on the premises of the Marijuana Establishment.

31.03(L): No drive through service is proposed.

31.03(M): N/A

31.03(N): All signage shall comply with the requirements of the Sturbridge Zoning Bylaw and the Design Review Committee. Heal has already received approval from the Design Review Committee for its proposed building and wayfinding signage. Please refer to Exhibit 4 (Building Photos and Signage Renderings).

Chapter 31 Application Requirements

31.05 A: Copies of all licenses, permits and documentation demonstrating application status, registration or licensure by the Commonwealth of Massachusetts Cannabis Control Commission, including but not limited to a copy of an executed Host Community Agreement.

Please refer to Exhibit 5 for evidence of HSI's pending application with the Cannabis Control Commission and executed Host Community Agreement with the Sturbridge Board of Selectmen dated March 5, 2020.

31.05 B: A security plan showing the arrangement of pedestrian circulation and access to the public points of entry to the premises from the nearest public or private street or off-street parking area. The security plan shall detail how the property will be monitored so as to ensure the safety of employees and the public and to protect the premises property from theft or other criminal activity and shall show the location of any walkway structures, lighting, gates, fencing and landscaping.

Heal, Inc. has already submitted a security plan for the proposed establishment to Chief Ford and installed the approved surveillance equipment. HSI intends to continue working with the Sturbridge Police Department to ensure that its facility provides for adequate and proper security to ensure the safety of employees and the public. Please refer to Exhibit 3 (Security Plan).

31.05 C: A list of all managers, officers, directors, persons or entities having direct or indirect authority over the management, policies, security operations or cultivation operations of the Marijuana Establishment.

Please refer to Exhibit 6 (List of Managers).

31.05 D: An odor control plan detailing the specific odor-emitting activities or processes to be conducted on-site, the source of those odors, the locations from which they are emitted from the facility, the frequency of such odor-emitting activities, the duration of such odor-emitting activities, and the administrative and engineering controls that will be implemented to control such odors, including the maintenance of such controls.

Please refer to Exhibit 2 (Odor Control Plan).

31.05 E: An applicant who is not the property owner shall submit evidence in the form of a deed, an executed lease or a valid purchase and sale agreement documenting the applicants contingent property interest and legal right to operate a Marijuana Establishment at the property.

Please refer to Exhibit 7 (Lease).