



23

COMMUNITY MITIGATION FUND

2023 Transportation Planning Grant Application

Bid No. BD-23-1068-1068C-1068L-81256

All completed applications must be sent by January 31st to be considered for funding for the 2023 Grant Round. Please submit this completed form as well as any relevant attachments to MGCCMF@Massgaming.gov.

For more detailed instructions as well as the 2023 Application Guidelines please visit <https://massgaming.com/about/community-mitigation-fund/>

I. Project Summary
Legal Name of Applicant: City of Melrose, Massachusetts
Project Name (Please limit to 5 words): Lebanon Street TIP
Amount Requested: \$250,000
Brief Project Description (approx. 50 words): <i>Please use this space to provide a high-level overview of what your project entails.</i> Design of multi-modal transportation improvements to the Lebanon Street corridor linking downtown Melrose to Malden, Routes 1 and 99, and the casino. Design will include bike lanes, improved pedestrian safety, signal improvements, and features to reduce speeds. The City anticipates funding construction through the MADOT TIP. The City is committed to funding design and bidding through a combination of grants, state funding, and local funds.

II. Applicant Contact Information
Please provide below the manager for this grant and any other individuals you would like to be copied on all correspondence.
Grant Manager: Elena Proakis Ellis, DPW Director
Email Address: EProakis@CityofMelrose.org
Telephone Number: 718-979-4155
Address: 72 Tremont St., Melrose, MA
Contact II: Vonnie Reis, City Engineer
Role: Project manager
Email Address: VReis@CityofMelrose.org
Telephone Number: 781-979-4171
Address: City Hall, 562 Main St., Melrose, MA
Contact III:
Role:
Email Address:
Telephone Number:
Address:

III. Detailed Project Description & Mitigation

- 1) Please describe in detail the impact that is attributed to the operation of a gaming facility. Please provide documentation or evidence that gives support for the determination that the operation of the gaming facility caused or is causing the impact (i.e. surveys, data, reports)

The City of Melrose proposes various infrastructure improvements along Lebanon Street from ynde Street t the a de ct e to better accommodate all users (i.e., pedestrians, bicyclists, motorists, and transit) of the corridor by enhancing safety, facilitating mobility, and implementing improvements that will help to maintain the transportation system in a state of good repair across all modes of travel.

Lebanon Street in Melrose is a primary connector road to Malden, Route 99, and Route 1. As such, it is used by residents of Melrose and communities to the north to access the casino. In addition to patrons of the casino, employees and vendors use Lebanon St. to travel to and from the casino. Lebanon street is designated an “Emergency Artery” and is a direct route to Melrose-Wakefield Hospital from points south. Lebanon St. to Forest St. is a frequently traveled route to the Oak Grove Orange Line Station, which connects to stops at Wellington and Assembly Square for the casino. Lebanon St. is a two-lane road with no shoulders. The sidewalks are not continuous, pedestrian and bicycle access is outdated, and access is not fully ADA compliant. With increased use of this street, improvements are required to accommodate all modes of transportation and improve safety for all users.

The proposed project includes infrastructure improvements, including continuous, accessible sidewalks, high visibility crosswalks, geometric refinements, minor drainage modifications, separated bicycle accommodation, regulatory and wayfinding signs, upgraded traffic signal equipment, and pavement markings. The northern end of the proposed project connects to a recently constructed MassDOT intersection and signal improvements project on Lebanon Street and connecting side streets. Design and construction of this project will provide a safe, accessible corridor from downtown Melrose to Malden, Routes 1 and 99, Oak Grove MBTA station, and the casino.

The southern end of the project area includes the Lebanon Street Playground and ballfield, Wyoming Cemetery, and the Ripley School. There are sidewalks on both sides of Lebanon Street in this area but no crosswalks. The design proposes a midblock crossing with solar powered rectangular rapid flashing beacons. e pedestrian signals and crossings will i c ea e safety for pedestrians along this corridor. The southern terminus the ect has the potential to connect with the Northern Strand bike path in Malden.

Traffic counts taken in 2018 at Lebanon and Sylvan reported an AM Peak (7:00-8:00) average traffic volume of 1,156 and a PM Peak (17:00-18:00) average traffic volume of 1,044. Counts taken at the same intersection in 2022 showed an increase in AM and PM peak volumes to

1,553 and 1,379, respectively. This data indicates that since the casino began operations, traffic on Lebanon St. has increased by over 30%.

Traffic data shows 24 crashes on Lebanon St. between Grove St. and the Malden town line in 2021 and 2022. One of those crashes involved a fatality. This data indicates an average crash rate of 12 per year. Crash data before the casino began operating, from 2015-2019, indicates the annual average was 5.4. This data demonstrates that the incidents of crashes has increased since the opening of the casino and supports the need for increased safety improvements.

The City of Melrose 2019 pavement management plan ranks Lebanon St. between Lynde St. and Forest St. as Fair to Poor condition (scored between 61 and 55). Since that plan was completed, the roadway has deteriorated further due to higher traffic volumes.

2) *(If applicable)* Please explain how this impact was not anticipated in the Applicant’s Host or Surrounding Community Agreement.

The community agreement between Wynn and Melrose did not include the Lebanon transportation corridor. At the time the agreement was made, the Washington St./Pleasant St./Wyoming Ave. corridor was the only area studied. Lebanon St. runs parallel to Washington/Pleasant and is frequently used as an alternative route.

3) Please describe what the Applicant is proposing and how the mitigation request will address the impact indicated.

The proposed project is located on Lebanon St. between Lynde St. and the Malden town line. Lebanon St. in Melrose is a primary connector road to Malden, Route 99, and Route 1. As such, it is used by residents of Melrose and communities to the north to access the casino, as well as by employees and vendors of the casino. Lebanon St. is a two-lane road with no shoulders. The right-of-way (ROW) is 48-feet wide between Lynde St. and Cargill and asphalt sidewalks line both sides of the street. Between Cargill St. and house #16, the street narrows to 44-feet wide and there is sidewalk only on the west side of the street. Between #16 and the Malden Town line, the ROW widens back to 48-feet and sidewalks on both sides resume.

The City’s Engineering Division has been working with Stantec and Mass DOT to develop a roadway and mobility improvement project to be submitted to Mass DOT’s Transportation Improvement Program (TIP) for construction funding. At this point, the City has completed a preliminary concept plan and a portion of the pre-25% work required for programming on the TIP. This grant request is for funding to be used towards design of the project. Work funded and completed to date includes:

- A conceptual plan of the Lebanon corridor from Lynde St. to the Malden town line that includes reducing lane width to 11-feet with a 1-foot shoulder on each side; adding sidewalk level separated bicycle and pedestrian paths on both sides, except for at the “pinch point”; improvements to roadway cross section; improvements to

2023 Transportation Planning Grant Application

Bid No. BD-23-1068-1068C-1068L-81256

Page 4

signals and timing; and addition of crosswalks and RRFBs to improve pedestrian safety. (Attached)

- A LIDAR survey of the project corridor to develop base mapping.
- A survey of utility pole locations and an inventory of poles to be relocated during the project.
- Completion of a Project Need Form (PNF) and project intake with MADOT.
- Initial submission of the Pre-25% scoping checklist to MADOT.
- Traffic counts at key intersections in 2022.

The City plans to complete the 25% design by December 31, 2023. The estimated cost to for the full design of the project is \$700,000. The City has already spent approximately \$72,000 on preliminary and pre-25% design activities and has committed \$100,000 more towards design completion. Pending programming on the TIP, the City is committed to appropriating additional funds needed to complete design from Chapter 90, a Road Bond, or free cash. Funding of \$250,000 under this grant program will enable the City to complete the design past the 25% stage and get assigned a year for construction funding. An estimate to complete the design and bidding is included below.

4) Please provide details around any consultation with MassDOT, your RTA or MBTA, and or the regional planning agency serving your community as applicable.

Discussions to date with MADOT have been encouraging with respect to this project being programmed on the TIP in a future year. In March 2022, the City received a letter of project eligibility from the Project Review Committee (PRC) approving an estimated \$3.7 million in federal funds for construction of the project. Programming on the TIP is pending completion of the 25% design. The project is currently included in the TIP Long-range plan (2025-2029) and the City anticipates a funding year will be assigned once 25% design is completed.

IV. Scope, Budget, and Timeline

Applicant: City of Melrose	Vendor Code: VC7000074726
Total Grant Amount Requested: \$250,000	Estimated Total Project Cost: \$700,000

Scope of Work

Please include below a breakdown of the proposed work. The project scope should be sufficiently detailed to allow the review team to understand the steps required for project completion.

- a. Complete 25% design – refine chosen alternative, complete field investigations, identify utility conflicts, identify permitting requirements. Review by MassDOT.
- b. Permitting – potentially Conservation Commission and MEPA filings.

2023 Transportation Planning Grant Application

Bid No. BD-23-1068-1068C-1068L-81256

Page 5

- c. Complete 75% design – Prepare detailed plans and specifications. Review by City and MassDOT. Include final permits, public outreach, and identification of location/ownership of any temporary and permanent easements.
- d. Complete 100% design – Prepare final plans and specifications for bidding. Obtain construction easements.
- e. Bidding and award – Conduct bid process, open and evaluate bids, report results to MassDOT, check references, award project.

Proposed MGC Grant Budget

Please use the following table to outline the budget of your project. Include any requests for proposals, quotes, or estimates that would quantify the costs associated with the mitigation as an attachment. In determining the funding request, please round up to the nearest hundred dollars.

Timeline	Description of Purchase/Work	QTY	Budget
Jan-Dec 2023	Complete 25% design	1	\$200,000
Jan-June 2024	Permitting	1	\$ 50,000
Jan-June 2024	Complete 75% design	1	\$350,000
July-Nov 2024	Complete 100% design	1	\$85,000
Jan-Feb 2025	Bid and award	1	\$15,000
	TOTAL:		\$700,000

Funding Source	Description of Purchase/Work	QTY	Budget
In Kind Services	DPW Engineering and Operations staff time (hrs) – est. \$50/hr	300	\$15,000
Federal	Chapter 90	1	\$200,000
State	WRAP program	1	\$100,000
Local Match	Road Bond or free cash	1	\$135,000

V. Regional Incentive Award

Are you applying for a Regional Incentive Award?

<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
------------------------------	--

2023 Transportation Planning Grant Application

Bid No. BD-23-1068-1068C-1068L-81256

Page 6

Partner Community Contact-
Name:
Role:
Email Address:
Telephone Number:
Address:

VI. Waiver	
If you are applying for a waiver, please submit the Waiver Form with your application. The form can be found at www.massgaming.com/about/community-mitigation-fund/forms/	
Are you applying for a waiver?	
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

VII. <input type="checkbox"/> Please provide a brief description of each attachment.
Attachment 1 – Letter of support from Mayor Brodeur
Attachment 2 – Preliminary plans for project
Attachment 3 – MassDOT letter of Project Eligibility (1st page)
Attachment 4 – Traffic counts a d
Attachment 5 – Crash data a d

VIII. Applicant Certification

On behalf of the aforementioned municipality/governmental entity I hereby certify that the funds that are requested in this application will be used solely for the purposes articulated in this Application.



1/20/23

**Signature of Responsible Municipal
Official/Governmental Entity**

Date:

Paul Brodeur

(print name)

Mayor

Title:

ATTACHMENTS



PAUL BRODEUR
Mayor

CITY OF MELROSE

OFFICE OF THE MAYOR

City Hall, 562 Main Street
Melrose, Massachusetts 02176
Telephone - (781) 979-4440
Fax - (781) 662-2182

January 26, 2023

Mary Thurlow
Massachusetts Gaming Commission
101 Federal St., 12th Floor
Boston, MA 02110

Dear Ms. Thurlow,

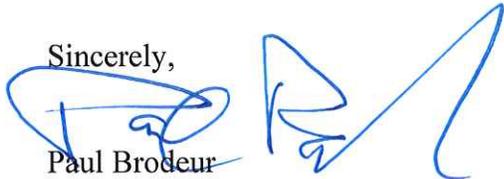
Thank you for the opportunity to apply for the 2023 Community Mitigation Grant for the design of roadway improvements on Lebanon Street in Melrose. The design of this project will be submitted to the MassDOT TIP program for construction funding. The City has already completed some of the pre-25% design tasks and is included in the 2025-2029 universe of projects.

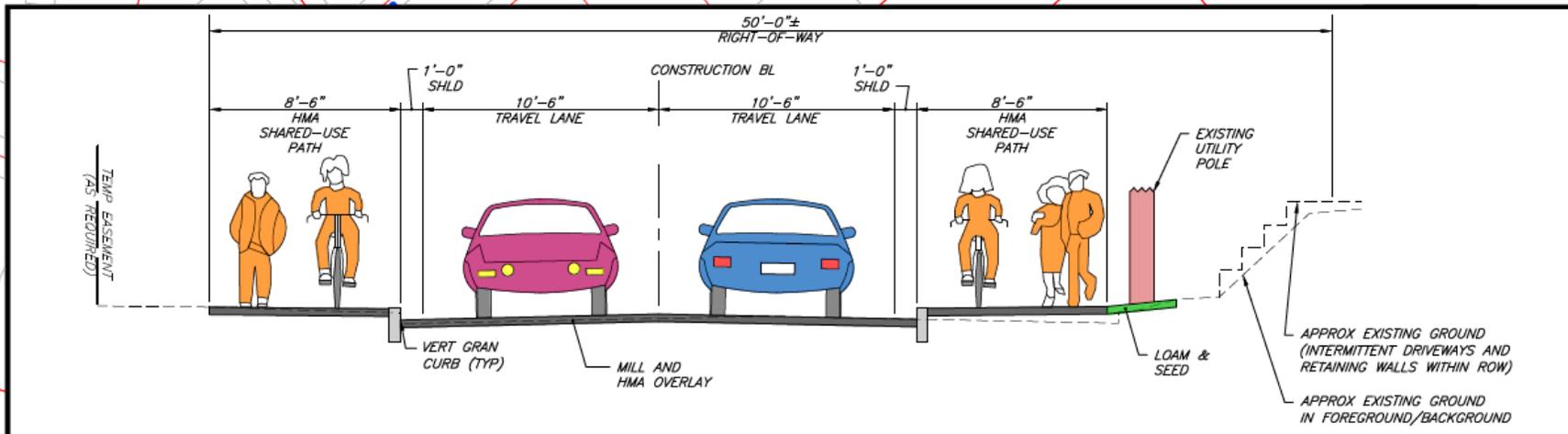
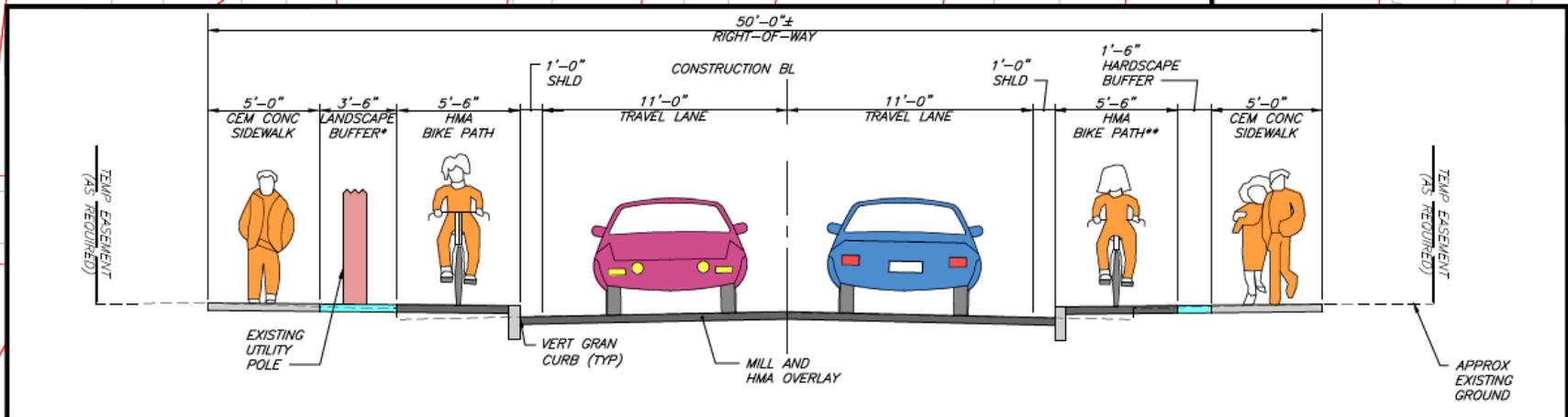
As a lifelong Melrose resident, I can speak firsthand about the need for a safer transportation corridor on Lebanon Street. This corridor is a key connector to Malden and points south for motorists, pedestrians, and cyclists. It is also a route used to access public transport at Oak Grove MBTA station. The proposed improvements include roadway improvements, connecting "gaps" in the sidewalks, having a designated bike lane, providing additional crosswalks, and implementing ADA upgrades.

The City is committed to finalizing the design and building the project through the TIP process. Funding for design will come from a combination of grants, Chapter 90, in-kind services, and local funds. The award of this \$250,000 Transportation Planning Grant will enable the City to complete the design past the 25% stage necessary to be programmed for a construction year on the TIP.

This project has the full support of the Office of the Mayor as well as that of the Chief Financial Officer. Please feel free to contact my office with any questions or if you require any additional information or clarifications.

Sincerely,


Paul Brodeur
Mayor





Charles D. Baker, Governor
Karyn E. Polito, Lieutenant Governor
Jamey Tesler, Acting Secretary & CEO
Jonathan L. Gulliver, Highway Administrator



DELIVERY CONFIRMATION

March 25, 2022

Mayor Paul Brodeur
Melrose City Hall
562 Main Street
Melrose, MA 02176

Subject: MassDOT Highway Division Project 612534: Melrose-Lebanon Street Improvement Project-
Project Eligibility Notification

Dear Mr. Brodeur:

On behalf of MassDOT, I am writing to inform you that the Highway Division's Project Review Committee (PRC) has evaluated the subject project and determined that it is eligible for Federal Aid highway funding. It is the PRC's understanding that the estimated Total Federal Participating Construction Cost (TFPCC) of this project is \$3,742,431.68. The TFPCC, which consists of the bid items, police details, construction engineering, contingencies and reimbursable utility relocation, must be fully programmed on the Transportation Improvement Program (TIP). As the project proponent, the municipality is responsible for costs associated with design, right-of-way acquisition and environmental permitting.

This eligibility determination by the PRC is not a commitment of state or federal funding to the project, nor is the decision to commit funding solely MassDOT's. The decision to program funding for this project is made by the Boston Region Metropolitan Planning Organization (Boston MPO) as part of their annual TIP development process. The Boston MPO is comprised of 22 voting members, including Massachusetts Executive Office of Transportation, MassDOT Highway Division, the Massachusetts Bay Transit Authority (MBTA), MBTA Advisory Committee, the Massachusetts Port Authority (Massport), Metropolitan Area Planning Council (MAPC), the Advisory Council, the Cities of Beverly, Boston, Everett, Framingham, Newton, Somerville and Woburn, and the towns of Acton, Arlington, Brookline, Medway, Norwood and Rockland, and is the federally designated entity charged with developing transportation plans and programs for this region.

If within two years of the date of this letter, the Municipality has not accomplished the following three milestones, the project will be deactivated unless the project is resubmitted to the PRC for continued project eligibility: 1) received MassDOT approval of the project's Scope/Workhours; 2) secured a signed contract with their design consultant for the entire design process; and 3) identified design funding (please provide proof of Municipal vote/Chapter 90 approval/etc., indicating full funding has been secured). Resubmission to PRC may also be required if there is a significant increase in cost or change in scope over the life of the project.

The municipality will be responsible for funding and administering the project design (with Highway Division review and approval), securing and providing documentation for all necessary Right-of-Way in accordance with Uniform Act requirements, and for preparing all environmental permit applications. The Highway Division will be responsible for administering the environmental permitting process necessary to obtain the required permits and for overseeing the project construction.

519 Appleton Street, Arlington, MA 02476
Tel: 857-368-4000
www.mass.gov/massdot

Accurate Counts

978-664-2565

Location : Lebanon Street
 Location : South of Sylvan Street
 City/State: Melrose, MA

10172VL1

Start Time	2/12/2018		Tue		Wed		Thu		Fri		Sat		Sun		Week Average	
	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB
12:00 AM	*	*	*	*	18	21	25	21	*	*	*	*	*	*	22	21
01:00	*	*	*	*	9	7	12	14	*	*	*	*	*	*	10	10
02:00	*	*	*	*	10	9	8	15	*	*	*	*	*	*	9	12
03:00	*	*	*	*	9	7	10	6	*	*	*	*	*	*	10	6
04:00	*	*	*	*	31	26	28	21	*	*	*	*	*	*	30	24
05:00	*	*	*	*	106	63	89	57	*	*	*	*	*	*	98	60
06:00	*	*	*	*	251	258	265	253	*	*	*	*	*	*	258	256
07:00	*	*	*	*	506	685	477	641	*	*	*	*	*	*	492	663
08:00	*	*	*	*	384	404	383	428	*	*	*	*	*	*	384	416
09:00	*	*	*	*	294	244	282	262	*	*	*	*	*	*	288	253
10:00	*	*	*	*	274	247	294	246	*	*	*	*	*	*	284	246
11:00	*	*	*	*	258	311	280	248	*	*	*	*	*	*	269	280
12:00 PM	*	*	*	*	372	269	292	241	*	*	*	*	*	*	332	255
01:00	*	*	*	*	319	316	314	289	*	*	*	*	*	*	316	302
02:00	*	*	*	*	427	343	463	364	*	*	*	*	*	*	445	354
03:00	*	*	*	*	513	353	528	367	*	*	*	*	*	*	520	360
04:00	*	*	*	*	523	424	553	427	*	*	*	*	*	*	538	426
05:00	*	*	*	*	613	463	536	476	*	*	*	*	*	*	574	470
06:00	*	*	*	*	422	392	373	408	*	*	*	*	*	*	398	400
07:00	*	*	*	*	271	278	257	258	*	*	*	*	*	*	264	268
08:00	*	*	*	*	173	206	195	235	*	*	*	*	*	*	184	220
09:00	*	*	*	*	131	164	130	145	*	*	*	*	*	*	130	154
10:00	*	*	*	*	70	92	93	95	*	*	*	*	*	*	82	94
11:00	*	*	*	*	63	71	54	76	*	*	*	*	*	*	58	74
Lane	0	0	0	0	6047	5653	5941	5593	0	0	0	0	0	0	5995	5624
Day	0		0		11700		11534		0		0		0		11619	
AM Peak	-	-	-	-	07:00	07:00	07:00	07:00	-	-	-	-	-	-	07:00	07:00
Vol.	-	-	-	-	506	685	477	641	-	-	-	-	-	-	492	663
PM Peak	-	-	-	-	17:00	17:00	16:00	17:00	-	-	-	-	-	-	17:00	17:00
Vol.	-	-	-	-	613	463	553	476	-	-	-	-	-	-	574	470

Comb. Total	0	0	11700	11534	0	0	0	11619
ADT	ADT 11,617	AADT 11,617						

Accurate Counts

978-664-2565

N/S Street : Lebanon Street
 E/W Street : Sylvan Street
 City/State : Melrose, MA
 Weather : Cloudy

File Name : 11040002
 Site Code : 11040002
 Start Date : 11/1/2022
 Page No : 1

Groups Printed- Cars - Trucks

Start Time	Lebanon St From North		Lebanon St From South		Sylvan St From West		Int. Total
	Thru	Right	Left	Thru	Left	Right	
07:00 AM	84	39	15	67	9	9	223
07:15 AM	141	43	21	117	16	17	355
07:30 AM	153	65	32	118	11	24	403
07:45 AM	110	63	45	158	40	23	439
Total	488	210	113	460	76	73	1420
08:00 AM	78	85	36	116	22	19	356
08:15 AM	92	65	23	91	22	18	311
08:30 AM	101	40	22	70	20	21	274
08:45 AM	90	26	15	84	16	9	240
Total	361	216	96	361	80	67	1181
Grand Total	849	426	209	821	156	140	2601
Apprch %	66.6	33.4	20.3	79.7	52.7	47.3	
Total %	32.6	16.4	8	31.6	6	5.4	
Cars	829	426	207	819	156	137	2574
% Cars	97.6	100	99	99.8	100	97.9	99
Trucks	20	0	2	2	0	3	27
% Trucks	2.4	0	1	0.2	0	2.1	1

Start Time	Lebanon St From North			Lebanon St From South			Sylvan St From West			Int. Total
	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:15 AM										
07:15 AM	141	43	184	21	117	138	16	17	33	355
07:30 AM	153	65	218	32	118	150	11	24	35	403
07:45 AM	110	63	173	45	158	203	40	23	63	439
08:00 AM	78	85	163	36	116	152	22	19	41	356
Total Volume	482	256	738	134	509	643	89	83	172	1553
% App. Total	65.3	34.7		20.8	79.2		51.7	48.3		
PHF	.788	.753	.846	.744	.805	.792	.556	.865	.683	.884
Cars	475	256	731	133	507	640	89	81	170	1541
% Cars	98.5	100	99.1	99.3	99.6	99.5	100	97.6	98.8	99.2
Trucks	7	0	7	1	2	3	0	2	2	12
% Trucks	1.5	0	0.9	0.7	0.4	0.5	0	2.4	1.2	0.8

Accurate Counts

978-664-2565

N/S Street : Lebanon Street
 E/W Street : Sylvan Street
 City/State : Melrose, MA
 Weather : Cloudy

File Name : 11040002
 Site Code : 11040002
 Start Date : 11/1/2022
 Page No : 1

Groups Printed- Cars - Trucks

Start Time	Lebanon St From North		Lebanon St From South		Sylvan St From West		Int. Total
	Thru	Right	Left	Thru	Left	Right	
04:00 PM	103	27	10	97	27	18	282
04:15 PM	85	45	28	95	39	20	312
04:30 PM	77	35	30	102	40	23	307
04:45 PM	105	32	25	110	34	25	331
Total	370	139	93	404	140	86	1232
05:00 PM	101	40	33	101	44	29	348
05:15 PM	96	33	22	107	36	20	314
05:30 PM	107	50	13	119	53	24	366
05:45 PM	94	37	22	101	67	30	351
Total	398	160	90	428	200	103	1379
Grand Total	768	299	183	832	340	189	2611
Apprch %	72	28	18	82	64.3	35.7	
Total %	29.4	11.5	7	31.9	13	7.2	
Cars	767	298	183	832	340	189	2609
% Cars	99.9	99.7	100	100	100	100	99.9
Trucks	1	1	0	0	0	0	2
% Trucks	0.1	0.3	0	0	0	0	0.1

Start Time	Lebanon St From North			Lebanon St From South			Sylvan St From West			Int. Total
	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 05:00 PM										
05:00 PM	101	40	141	33	101	134	44	29	73	348
05:15 PM	96	33	129	22	107	129	36	20	56	314
05:30 PM	107	50	157	13	119	132	53	24	77	366
05:45 PM	94	37	131	22	101	123	67	30	97	351
Total Volume	398	160	558	90	428	518	200	103	303	1379
% App. Total	71.3	28.7		17.4	82.6		66	34		
PHF	.930	.800	.889	.682	.899	.966	.746	.858	.781	.942
Cars	397	160	557	90	428	518	200	103	303	1378
% Cars	99.7	100	99.8	100	100	100	100	100	100	99.9
Trucks	1	0	1	0	0	0	0	0	0	1
% Trucks	0.3	0	0.2	0	0	0	0	0	0	0.1

Table 1 - Summary of Crash Data at Intersections

	Lebanon Street & Malvern Street					Lebanon Street & Sylvan Street					Lebanon Street & Forest Street				
	2015	2016	2017	2018	2019	2015	2016	2017	2018	2019	2015	2016	2017	2018	2019
<u>Severity</u>															
Property Damage	0	3	0	1	2	0	1	5	0	1	0	1	0	1	0
Injury	0	1	3	2	0	0	1	0	0	0	1	1	0	1	1
Fatality	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Reported	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
<u>Collision Type</u>															
Rear-end	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Angle	0	4	3	2	2	0	1	4	0	1	0	1	0	0	0
Sideswipe	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Single Vehicle	0	0	0	0	0	1	1	0	0	0	1	0	0	1	1
Pedestrian	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
Not Reported	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<u>Time</u>															
6am-10am	0	1	0	2	0	1	1	2	0	0	0	1	0	1	0
10am-4pm	0	2	2	0	1	0	0	3	0	1	0	0	0	1	1
4pm-7pm	0	1	0	1	1	0	1	0	0	0	0	1	0	0	0
7pm-6am	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0
<u>Road Condition</u>															
Dry	0	4	3	3	1	1	2	4	0	1	0	1	0	2	0
Wet	0	0	0	0	1	1	0	1	0	0	1	1	0	0	1
Snow/Ice	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Reported	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<u>Season</u>															
Dec-Feb	0	1	0	2	1	0	0	1	0	0	0	0	0	1	1
Mar-May	0	1	0	0	0	1	0	0	0	0	1	0	0	1	0
Jun-Aug	0	1	1	1	0	0	1	1	0	0	0	1	0	0	0
Sep-Nov	0	1	2	0	1	0	1	3	0	1	0	1	0	0	0
<u>Light</u>															
Daylight	0	3	2	2	2	0	2	5	0	1	0	1	0	2	1
Dawn/Dusk	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Dark (Unlit)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dark (Lit)	0	0	1	1	0	1	0	0	0	0	1	1	0	0	0
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	4	3	3	2	1	2	5	0	1	1	2	0	2	1
Average per year			2.4					1.8				1.2			
Crash Rate*			0.47					0.32				0.26			

DRAFT

^a per million entering vehicles, as defined by MassDOT

**Crash info for Lebanon Street from Lynde Street to the Malden Line, from 1/1/21 to 12/14/22
24 Total Crashes.**

1/12/21 477 Lebanon Street. 2 vehicles Rear End collision, Southbound.
1/12/21 Lebanon St. @ Malvern St. 2 vehicles Angle collision vehicle failed to yield taking left onto Malvern St.
4/2/21 Lebanon St. @ Malvern St. 2 vehicles Angle collision vehicle turns onto Malvern northbound hits vehicle at stop sign on Malvern St.
5/21/21 Lebanon St @ Park St. 2 vehicles Angle collision vehicle South on Lebanon St. hits vehicle on Park at stop sign.
5/28/21 299 Lebanon St. 1 vehicle into a telephone pole Northbound Head On.
6/11/21 163 Lebanon St. 1 vehicle into a telephone pole Southbound Head On.
9/25/21 Lebanon St. @ Malvern St. 2 vehicles Angle collision, 1 vehicle comes out of Malvern Street Stop sign.
10/9/21 Lebanon St. @ Forest St. 3 vehicles. Angle/Head On, 1 vehicle Northbound crosses over yellow lines, hits other 2 vehicles.
11/9/21 358 Lebanon St. 1 vehicle Southbound into a pole across from Beech Ave.
12/3/21 Lebanon St. @ Appleton St. 3 vehicles Rear End Southbound.
12/10/21 Lebanon St. @ Forest St. 2 vehicles Angle collision, vehicle on Lebanon St. hits vehicle coming across Forest St.
3/15/21 Lebanon St. @ Park St. 2 vehicles Angle collision, vehicle pulls out of Park St. hits vehicle on Lebanon going Northbound.
3/20/22 Lebanon St. @ Malvern St. 2 vehicles Angle collision, vehicle on Malvern St. pulls out hits vehicle on Lebanon going Northbound.
3/28/22 Lebanon St. @ Sylvan St. 2 vehicles Head On collision, bus Northbound turns onto Sylvan St. hitting Moped going East on Sylvan near Stop sign.
4/26/22 Lebanon St. @ Forest St. 3 vehicles, Rear End collision on Lebanon St. Southbound.
5/3/22 Lebanon St. @ Malvern St. 2 vehicles Angle collision, vehicle Northbound turning left onto Malvern St.
6/13/22 Lebanon St. @ Malvern St. 2 vehicles Angle collision, vehicle pulls out of Malvern St. into vehicle Northbound on Lebanon St.
6/14/22 283 Lebanon St. 3 vehicles, Rear End collision Southbound.
8/9/22 256 Lebanon St. 1 vehicle Head On Northbound into a telephone pole. (Fatal Crash 1 occupant).
8/17/22 Lebanon St. @ Sylvan St. 2 vehicles Angle collision, vehicle on Sylvan takes left onto Lebanon St. hits car going Southbound.
10/12/22 Lebanon St. @ Malvern St. 3 vehicles Angle collision, vehicle Northbound on Lebanon St. taking left onto Malvern St. fails to yield to vehicle going Southbound on Lebanon St.
10/13/22 Lebanon St. @ Sylvan St. 2 vehicles Rear End on Sylvan St. at the Stop sign.
11/10/22 403 Lebanon St. 2 vehicles, Rear End Northbound across from Lynde St.