

JASON L. MAMMONE, P.E.
DIRECTOR OF ENGINEERING

NATHAN S. BUTTERMORE, P.E.
INFRASTRUCTURE ENGINEER

RONALD I. LAWRENCE
PROJECT ENGINEER

EMAN SAYEGH
GIS MANAGER

TOWN OF DEDHAM
Commonwealth of Massachusetts



55 RIVER STREET
DEDHAM, MA 02026-2935

(781) 751-9350
FAX (781) 751-9359

www.dedham-ma.gov

DEPARTMENT OF INFRASTRUCTURE ENGINEERING

INITIAL TRAFFIC EVALUATION

TO: Transportation Advisory Committee

FROM: Jason L. Mammone, P.E., Director of Engineering

DATE: January 21, 2022

SUBJECT: Traffic Calming Request #2020-004 – Brookdale Avenue

Purpose

The Transportation Advisory Committee (TAC), at their 10/12/21 meeting, reviewed the traffic calming request form (#2021-004) submitted by Henry Mahegan of 31 Harvard Street. Based upon the information provided in the form, Mr. Mahegan's concerns are the speed at which vehicles travel and pedestrian/bicyclist safety, sign placement and parking issues. Based upon the Town's Traffic Calming Policy, TAC determined that this request met the eligibility criteria and warranted an initial evaluation on Brookdale Avenue and requested that the Engineering Department investigate this matter. This report summarizes the findings of the Engineering Department.

Study Area

Brookdale Avenue:

Brookdale Avenue is a north/south thickly settled residential through street with a pavement width of approximately 20 to 23 feet from East Street to Dominic Court and approximately 24 feet from Dominic Court To High Street. Brookdale Avenue is approximately 1,480 feet (0.28 miles) in length extending from High Street to East Street. There is a continuous concrete sidewalk on both sides of the road from High Street to Dominic Court/Brookdale Cemetery Entrance. There are several non-continuous sidewalks along the roadway between Dominic Court and East Street. These sidewalks are not primarily used for pedestrians but as driveways. During our study we observed portions of these sidewalks being fully mounted by parked cars.

The statutory speed limit on this section of Brookdale Avenue is 25 mph. A statutory speed limit is a default speed limit that applies when no other specific speed limit is posted. According to Massachusetts General Laws (MGL), Chapter 90, Section 17 & Section 17c; unless posted

otherwise, your speed would not be reasonable and proper if a motor vehicle is operated in excess of:

- 20 mph in a school zone
- 25 mph in a thickly settled or business district
- 40 mph outside a thickly settled or business district
- 50 mph on a highway outside a thickly settled or business district

Observations (Speed, Volume & Classification)

The Town of Dedham utilized a Jamar radar recorder to log the speed and volume of vehicles during the period beginning November 8, 2021 and ending November 12, 2021. The radar was installed on a utility pole near the easterly corner of Churchill Park.

The combined average speed for both directions was found to be 28 mph for Brookdale Avenue. The combined 85th percentile speed for both directions was found to be 33 mph. The 85th percentile speed is the speed at or below which 85 percent of vehicles travel and is the national standard utilized to determine if the speed on a given roadway is in excess, at or below the speed limit. Based upon the data, the combined 85th percentile speed is 8 mph over the speed limit with approximately 74% of the vehicles driving at speeds greater than 25 mph and approximately 29% driving at speeds greater than 30 mph.

The volume of traffic expressed as average daily traffic (ADT) and the speed data collected for Brookdale Avenue is shown below in Table 1:

Table 1 – Section 1 Traffic Data Station 6+59

<i>Direction of Traffic</i>	<i>ADT</i>	<i>Peak Hour Volume</i>	<i>Peak Volume Time</i>	<i>Speed Limit</i>	<i>85th Percentile Speed</i>	<i>Average Speed</i>
Northbound	901 (86%)	92	12 - 1 pm	25 mph ^a	33 mph	28 mph
Southbound	144 (14%)	19	2 - 3 pm	25 mph ^a	31 mph	26 mph
Combined	1,048	86	4 - 5 pm	25 mph ^a	33 mph	28 mph

^a – Statutory Speed Limit

Brookdale Avenue does experience a higher-than-normal volume of vehicles for a residential/local roadway as compared to others with similar characteristics, specifically in the northbound direction. It appears as though Brookdale Avenue is being utilized as a cut through in the northbound direction (High St to East St) to avoid the signalized intersections at High/East/Harvard and High/East/Harris.

Crash Data (Traffic Collisions)

The Engineering Department analyzed crash data utilizing the most recent 2018-2021 data available from the Dedham Police Department and MassDOT to determine if the subject area was experiencing a higher than normal rate of accidents.

Table 2 – Crash Data

Road	Total # of Crashes	Crashes Per Year
Brookdale Avenue	3	1

One of the 3 crashes involved a bicyclist. Based upon the police report the cyclist did not have the proper sight distance making a right hand turn from Harvard Street on Brookdale Avenue due to cars being parked close to the intersection. This type of accident isn't related to the geometry of the roadway, but rather a parking issue where vehicles were parked illegally within 20 feet of an intersection.

GIS Data (Pedestrian Generators & Residential Density)

The Engineering Department utilized our latest Geographic Information System (GIS) data to collect the types of pedestrian generators and determine the residential density located within a 1,000 foot buffer of the study area.

Pedestrian generators are those facilities that are considered points of interest that pedestrians travel to, such as parks, community centers, Town/neighborhood centers, libraries, public transit stations, churches and public schools. Based upon the available data, there are four pedestrian generators (Avery Elementary School, Churchill Park, St. Mary's Church and MBTA Bus Stops on Washington Street) within the 1,000 foot buffer area.

Based upon the available data, the 1,000 foot buffer area has a residential density of approximately 2 Apartments with 4 to 8 units, 50 Condo Units, 21 Housing Authority Dwellings, 11 Three-Family Dwellings, 62 Two-Family Dwellings and 160 Single-Family Dwellings.

Scoring

According to the latest version of the Town's Traffic Calming Policy, for a roadway to qualify for traditional traffic calming measures, the petitioned roadway must score more than 50 points utilizing the scores calculated from the 6 criteria including; Speed, Volume, Pedestrian Route, Traffic Collisions, Pedestrian Generators and Residential Density. The table below summarizes the scoring for each criterion.

Table 3 - Scoring

Criteria	Score (Brookdale Avenue)
Speed – Based upon how many mph the combined 85 th percentile speed is over the speed limit. 2 points awarded for each mph over the speed limit from 1 to 5 mph over the speed limit and 4 points awarded for each mph over the speed limit starting at 6 mph and greater over the speed limit	22
Volume – 1 point awarded for every 100 vehicles of average daily traffic (ADT)	10
Pedestrian Route – 10 points awarded if no continuous sidewalk exist on both sides of the roadway or 5 points awarded if there is only a continuous sidewalk on one side of the roadway	10
Traffic Collisions – 2 points awarded for each preventable collision in a 3 year period that occurred along the subject roadway. 8 points awarded if a collision involved a pedestrian or bicyclist.	8
Pedestrian Generators – 3 points awarded for every park, community center, library, public transit station or church located within 1,000 feet of the subject roadway. 10 points awarded for each public school within 1,000 feet of the subject roadway. Allowable points for this criterion shall not exceed 13 points.	13
Residential Density – 1 point awarded for every 50 dwelling units within 1,000 feet of the subject roadway	8
TOTAL SCORE	71

Conclusion

Based upon the information presented in this evaluation, along with achieving a score over 50, Brookdale Avenue is eligible for a Traffic Calming Needs Assessment. The needs assessment will take a closer look at Brookdale Avenue to determine what types of traffic calming measures could be implemented to mitigate the major issues of speeding, volumes and crashes while providing/maintaining safe access for pedestrians/bicyclists. It will also look at the neighboring roadways that may become affected by the installation of traffic calming measures on Brookdale Avenue and develop a plan should mitigation be necessary along those roadways.

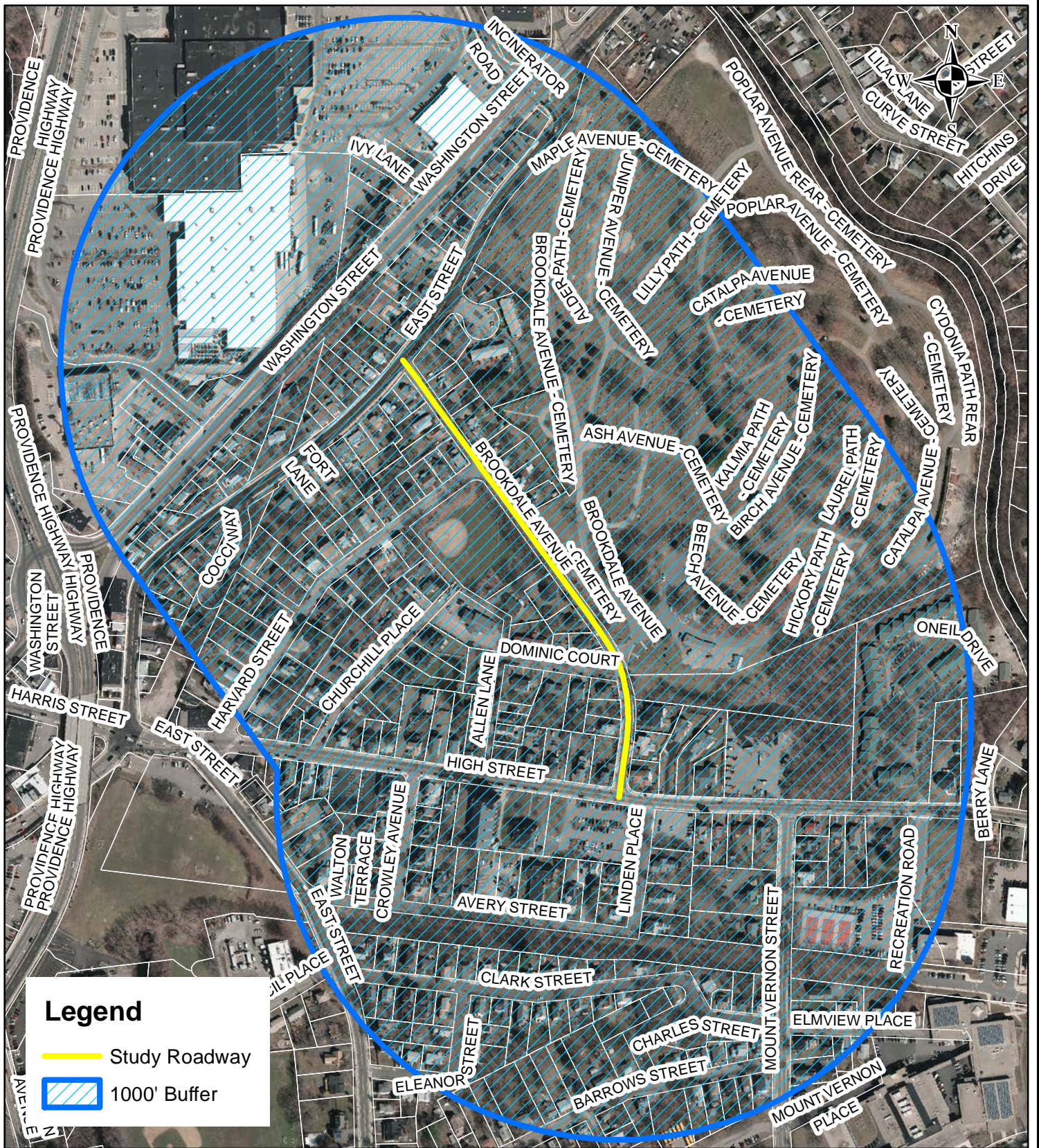
Cc: Select Board

Attachments: Brookdale Avenue Locus Map
Brookdale Avenue Neighborhood Buffer Map
Combined Speed Statistics Report
Traffic Volume Report



**BROOKDALE AVENUE
REQUEST #2021-004
LOCUS MAP**





**BUFFER MAP
BROOKDALE AVENUE NEIGHBORHOOD
DECEMBER 2021**



DEDHAM GIS

TOWN OF DEDHAM, MASSACHUSETTS



Town of Dedham Engineering Department

55 River Street
Dedham, MA 02026
781-751-9350

Site Code: 0000006
Station ID: STA 7+03
Location 1: On Utility Pole Near Easterly
Location 2: Corner of Churchill Park
Location 3:
Location 4:
Direction: Combined

Comment 1:
Comment 2:
Comment 3:
Comment 4:
Latitude: 0.000000
Longitude: 0.000000

11/8/2021	> 15 - 20	> 20 - 25	> 25 - 30	> 30 - 35	> 35 - 40	> 40 - 45	> 45 - 50	> 50 - 55	> 55 - 60	> 60 - 65	> 65 - 70	> 70 MPH	Total
Time 0 - 15 MPH MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	
12:00 AM	*	*	*	*	*	*	*	*	*	*	*	*	0
1:00	*	*	*	*	*	*	*	*	*	*	*	*	0
2:00	*	*	*	*	*	*	*	*	*	*	*	*	0
3:00	*	*	*	*	*	*	*	*	*	*	*	*	0
4:00	*	*	*	*	*	*	*	*	*	*	*	*	0
5:00	*	*	*	*	*	*	*	*	*	*	*	*	0
6:00	*	*	*	*	*	*	*	*	*	*	*	*	0
7:00	*	*	*	*	*	*	*	*	*	*	*	*	0
8:00	*	*	*	*	*	*	*	*	*	*	*	*	0
9:00	*	*	*	*	*	*	*	*	*	*	*	*	0
10:00	*	*	*	*	*	*	*	*	*	*	*	*	0
11:00	*	*	*	*	*	*	*	*	*	*	*	*	0
12:00 PM	0	3	13	42	18	1	1	0	0	0	0	0	78
1:00	0	6	18	41	18	2	1	1	0	0	0	0	87
2:00	0	2	10	41	23	9	0	0	0	0	0	0	85
3:00	1	2	16	34	16	4	2	0	0	0	0	0	75
4:00	0	3	21	35	28	6	0	0	0	0	0	0	93
5:00	1	1	12	57	18	2	0	0	0	0	0	0	91
6:00	0	0	14	26	13	1	0	1	0	0	0	0	55
7:00	0	3	5	21	8	1	0	0	0	0	0	0	38
8:00	1	3	7	4	6	1	1	0	0	0	0	0	23
9:00	0	0	6	6	4	3	1	0	0	0	0	0	20
10:00	0	1	3	6	1	2	1	0	0	0	0	0	14
11:00	0	0	2	2	2	0	0	0	0	0	0	0	6
Total	3	24	127	315	155	32	7	2	0	0	0	0	665



Town of Dedham Engineering Department

55 River Street
Dedham, MA 02026
781-751-9350

Site Code: 0000006
Station ID: STA 7+03
Location 1: On Utility Pole Near Easterly
Location 2: Corner of Churchill Park
Location 3:
Location 4:
Direction: Combined

Comment 1:
Comment 2:
Comment 3:
Comment 4:
Latitude: 0.000000
Longitude: 0.000000

11/9/2021	> 15 - 20	> 20 - 25	> 25 - 30	> 30 - 35	> 35 - 40	> 40 - 45	> 45 - 50	> 50 - 55	> 55 - 60	> 60 - 65	> 65 - 70	> 70 MPH	Total
Time 0 - 15 MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	
12:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00	0	1	0	0	0	0	0	0	0	0	0	0	1
2:00	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00	0	2	0	0	0	0	0	0	0	0	0	0	2
4:00	0	0	0	0	1	0	0	0	0	0	0	0	1
5:00	0	0	4	3	6	0	0	0	0	0	0	0	13
6:00	0	0	8	15	5	3	0	0	0	0	0	0	31
7:00	1	2	9	34	17	4	2	0	0	0	0	0	69
8:00	1	3	26	32	15	3	0	0	0	0	0	0	80
9:00	1	1	10	22	17	2	0	0	0	0	0	0	53
10:00	0	0	17	42	18	6	1	0	0	0	0	0	84
11:00	6	5	18	36	15	2	0	0	0	0	0	0	82
12:00 PM	3	2	16	33	15	1	0	1	0	0	0	0	71
1:00	0	3	11	29	21	3	0	0	0	0	0	0	67
2:00	0	1	16	30	18	5	1	0	0	0	0	0	71
3:00	4	6	16	34	18	9	1	0	0	0	0	0	88
4:00	0	2	20	34	24	2	0	1	0	0	0	0	83
5:00	0	0	18	34	17	3	0	0	0	0	0	0	72
6:00	0	1	9	28	19	1	0	0	0	0	0	0	58
7:00	0	1	7	20	10	0	1	0	0	0	0	0	39
8:00	1	0	6	13	12	3	1	0	0	0	0	0	36
9:00	0	1	3	8	8	0	0	0	0	0	0	0	20
10:00	0	0	2	5	1	0	0	0	0	0	0	0	8
11:00	0	0	3	2	1	0	0	0	0	0	0	0	6
Total	17	31	219	454	258	47	7	2	0	0	0	0	1035



Town of Dedham Engineering Department

55 River Street
Dedham, MA 02026
781-751-9350

Site Code: 0000006
Station ID: STA 7+03
Location 1: On Utility Pole Near Easterly
Location 2: Corner of Churchill Park
Location 3:
Location 4:
Direction: Combined

Comment 1:
Comment 2:
Comment 3:
Comment 4:
Latitude: 0.000000
Longitude: 0.000000

11/10/2021	> 15 - 20	> 20 - 25	> 25 - 30	> 30 - 35	> 35 - 40	> 40 - 45	> 45 - 50	> 50 - 55	> 55 - 60	> 60 - 65	> 65 - 70	> 70 MPH	Total
Time	0 - 15 MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	
12:00 AM	0	1	1	1	2	0	0	0	0	0	0	0	5
1:00	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00	0	0	1	0	1	0	0	0	0	0	0	0	2
3:00	0	0	1	0	0	0	0	0	0	0	0	0	1
4:00	0	0	1	0	0	0	0	0	0	0	0	0	1
5:00	0	0	0	8	0	0	0	0	0	0	0	0	8
6:00	0	2	1	16	9	4	1	0	0	0	0	0	33
7:00	3	4	20	31	17	0	0	0	0	0	0	0	75
8:00	1	11	20	39	12	0	0	0	0	0	0	0	83
9:00	0	1	9	35	13	1	0	0	0	0	0	0	59
10:00	1	1	8	39	14	1	0	0	0	0	0	0	64
11:00	2	2	15	24	15	1	2	0	0	0	0	0	61
12:00 PM	2	4	16	29	24	3	1	0	0	0	0	0	79
1:00	0	3	17	25	18	3	2	0	0	0	0	0	68
2:00	1	5	24	30	21	3	2	0	0	0	0	0	86
3:00	1	4	23	43	21	4	1	0	0	0	0	0	97
4:00	0	4	15	34	13	3	2	0	0	0	0	0	71
5:00	0	4	25	23	17	4	1	0	0	0	0	0	74
6:00	1	6	13	27	16	3	0	0	0	0	0	0	66
7:00	0	1	12	27	15	1	0	0	0	0	0	0	56
8:00	0	1	12	9	6	2	1	0	0	0	0	0	31
9:00	1	1	7	4	3	1	0	0	0	0	0	0	17
10:00	0	2	4	2	6	1	0	0	0	0	0	0	15
11:00	0	0	4	1	1	0	0	1	0	0	0	0	7
Total	13	57	249	447	244	35	13	1	0	0	0	0	1059



Town of Dedham Engineering Department

55 River Street
Dedham, MA 02026
781-751-9350

Site Code: 0000006
Station ID: STA 7+03
Location 1: On Utility Pole Near Easterly
Location 2: Corner of Churchill Park
Location 3:
Location 4:
Direction: Combined

Comment 1:
Comment 2:
Comment 3:
Comment 4:
Latitude: 0.000000
Longitude: 0.000000

11/11/2021	> 15 - 20	> 20 - 25	> 25 - 30	> 30 - 35	> 35 - 40	> 40 - 45	> 45 - 50	> 50 - 55	> 55 - 60	> 60 - 65	> 65 - 70	> 70 MPH	Total
Time 0 - 15 MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	
12:00 AM	0	0	0	1	0	0	0	0	0	0	0	0	1
1:00	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00	0	0	1	2	0	0	0	0	0	0	0	0	3
3:00	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00	0	0	1	5	1	0	0	1	0	0	0	0	8
6:00	0	0	4	15	9	2	1	0	0	0	0	0	31
7:00	0	1	8	22	11	4	1	0	0	0	0	0	47
8:00	0	0	13	25	17	3	0	0	0	0	0	0	58
9:00	0	6	11	27	25	2	0	0	0	0	0	0	71
10:00	2	3	12	38	10	5	0	0	0	0	0	0	70
11:00	2	5	11	41	24	6	0	0	0	0	0	0	89
12:00 PM	0	8	21	41	20	6	1	0	0	0	0	0	97
1:00	0	7	14	42	29	2	2	0	0	0	0	0	96
2:00	0	5	28	44	18	3	1	0	0	0	0	0	99
3:00	0	1	14	36	20	2	1	0	0	0	0	0	74
4:00	1	2	21	38	31	2	1	1	0	0	0	0	97
5:00	2	2	22	39	13	5	0	0	0	0	0	0	83
6:00	1	1	12	33	11	2	0	0	0	0	0	0	60
7:00	3	0	6	15	14	3	0	0	0	0	0	0	41
8:00	0	1	5	11	8	2	0	0	0	0	0	0	27
9:00	1	3	4	6	3	0	1	0	0	0	0	0	18
10:00	0	0	4	7	4	2	0	0	0	0	0	0	17
11:00	0	0	0	2	1	1	0	0	0	0	0	0	4
Total	12	45	212	490	269	52	9	1	1	0	0	0	1091



Town of Dedham Engineering Department

55 River Street
Dedham, MA 02026
781-751-9350

Site Code: 00000006
Station ID: STA 7+03
Location 1: On Utility Pole Near Easterly
Location 2: Corner of Churchill Park
Location 3:
Location 4:
Direction: Combined

Comment 1:
Comment 2:
Comment 3:
Comment 4:
Latitude: 0.000000
Longitude: 0.000000

11/12/2021	> 15 - 20	> 20 - 25	> 25 - 30	> 30 - 35	> 35 - 40	> 40 - 45	> 45 - 50	> 50 - 55	> 55 - 60	> 60 - 65	> 65 - 70	> 70 MPH	Total
Time 0 - 15 MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	
12:00 AM	0	0	1	0	1	0	0	0	0	0	0	0	2
1:00	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00	0	0	2	2	0	0	0	0	0	0	0	0	4
3:00	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00	0	0	1	0	1	0	0	0	0	0	0	0	2
5:00	0	0	3	5	2	0	0	1	0	0	0	0	11
6:00	1	0	1	13	10	1	0	0	0	0	0	0	26
7:00	3	4	18	23	14	2	0	0	0	0	0	0	64
8:00	0	4	7	9	4	1	0	0	0	0	0	0	25
9:00	*	*	*	*	*	*	*	*	*	*	*	*	0
10:00	*	*	*	*	*	*	*	*	*	*	*	*	0
11:00	*	*	*	*	*	*	*	*	*	*	*	*	0
12:00 PM	*	*	*	*	*	*	*	*	*	*	*	*	0
1:00	*	*	*	*	*	*	*	*	*	*	*	*	0
2:00	*	*	*	*	*	*	*	*	*	*	*	*	0
3:00	*	*	*	*	*	*	*	*	*	*	*	*	0
4:00	*	*	*	*	*	*	*	*	*	*	*	*	0
5:00	*	*	*	*	*	*	*	*	*	*	*	*	0
6:00	*	*	*	*	*	*	*	*	*	*	*	*	0
7:00	*	*	*	*	*	*	*	*	*	*	*	*	0
8:00	*	*	*	*	*	*	*	*	*	*	*	*	0
9:00	*	*	*	*	*	*	*	*	*	*	*	*	0
10:00	*	*	*	*	*	*	*	*	*	*	*	*	0
11:00	*	*	*	*	*	*	*	*	*	*	*	*	0
Total	4	8	33	52	32	4	0	1	0	0	0	0	134
Grand Total	49	165	840	1758	958	170	36	7	1	0	0	0	3984
Stats			Percentile	15th	50th	85th	95th						
			Speed	23.9	27.9	32.9	35.9						
			Mean Speed (Average)	27.6									
			10 MPH Pace Speed	25-34									
			Number in Pace	2714									
			Percent in Pace	68.1%									
			Number > 25 MPH	2930									
			Percent > 25 MPH	73.5%									



Town of Dedham Engineering Department

55 River Street
Dedham, MA 02026
781-751-9350

Site Code: 0000006
Station ID: STA 7+03
Location 1: On Utility Pole Near Easterly
Location 2: Corner of Churchill Park
Location 3:
Location 4:

Comment 1:
Comment 2:
Comment 3:
Comment 4:
Latitude: 0.000000
Longitude: 0.000000

11/8/2021	Monday		Tuesday		Wednesday		Thursday		Friday		Weekday Average		Saturday		Sunday	
Time	South, 1	North, 2	South, 1	North, 2	South, 1	North, 2	South, 1	North, 2	South, 1	North, 2	South, 1	North, 2	South, 1	North, 2	South, 1	North, 2
12:00 AM	*	*	0	0	4	1	1	0	2	0	2	0	*	*	*	*
1:00	*	*	0	1	0	0	0	0	0	0	0	0	*	*	*	*
2:00	*	*	0	0	0	2	1	2	3	1	1	1	*	*	*	*
3:00	*	*	0	2	0	1	0	0	0	0	0	1	*	*	*	*
4:00	*	*	0	1	1	0	0	0	1	1	0	0	*	*	*	*
5:00	*	*	4	9	4	4	1	7	4	7	3	7	*	*	*	*
6:00	*	*	8	23	6	27	6	25	4	22	6	24	*	*	*	*
7:00	*	*	14	55	13	62	7	40	11	53	11	52	*	*	*	*
8:00	*	*	10	70	13	70	9	49	4	21	9	52	*	*	*	*
9:00	*	*	2	51	5	54	4	67	*	*	4	57	*	*	*	*
10:00	*	*	8	76	6	58	8	62	*	*	7	65	*	*	*	*
11:00	*	*	12	70	6	55	12	77	*	*	10	67	*	*	*	*
12:00 PM	11	67	11	60	7	72	5	92	*	*	8	73	*	*	*	*
1:00	11	76	11	56	7	61	12	84	*	*	10	69	*	*	*	*
2:00	9	76	9	62	16	70	19	80	*	*	13	72	*	*	*	*
3:00	9	66	7	81	13	84	9	65	*	*	10	74	*	*	*	*
4:00	9	84	14	69	11	60	12	85	*	*	12	74	*	*	*	*
5:00	10	81	7	65	10	64	14	69	*	*	10	70	*	*	*	*
6:00	11	44	8	50	5	61	8	52	*	*	8	52	*	*	*	*
7:00	4	34	9	30	6	50	3	38	*	*	6	38	*	*	*	*
8:00	5	18	4	32	5	26	2	25	*	*	4	25	*	*	*	*
9:00	2	18	3	17	5	12	4	14	*	*	4	15	*	*	*	*
10:00	3	11	3	5	6	9	8	9	*	*	5	8	*	*	*	*
11:00	2	4	1	5	1	6	0	4	*	*	1	5	*	*	*	*
Total	86	579	145	890	150	909	145	946	29	105	144	901	0	0	0	0
Day	665		1035		1059		1091		134		1045		0		0	
AM Peak			7:00	10:00	7:00	8:00	11:00	11:00	7:00	7:00	7:00	11:00				
Volume			14	76	13	70	12	77	11	53	11	67				
PM Peak	12:00 PM	4:00	4:00	3:00	2:00	3:00	2:00	12:00 PM			2:00	3:00				
Volume	11	84	14	81	16	84	19	92			13	74				
Comb Total	665		1035		1059		1091		134		1045		0		0	
ADT	ADT: 1,048		AADT: 1,048													