

Ref: 8032

May 14, 2019

Ms. Barbara J. Saint Andre  
Director, Community & Economic Development  
Medway Town Hall  
155 Village Street  
Medway, MA 02053

Re: Response to Traffic Peer Review  
Proposed Multifamily Residential Development - 39 Main Street (Route 109)  
Medway, Massachusetts

Dear Barbara:

Vanasse & Associates, Inc. (VAI) is providing responses to the comments that were raised in the May 13, 2019 letter prepared by Tetra Tech (TT) on behalf of the Zoning Board of Appeals in reference to their review of the November 2018 *Transportation Impact Assessment* (the "November 2018 TIA") prepared by VAI in support of the proposed multifamily residential community to be located at 39 Main Street (Route 109) in Medway, Massachusetts (hereafter referred to as the "Project"). Listed below are the comments that were identified in the subject letter pertaining to the November 2018 TIA followed by our response on behalf of the Applicant. Responses to the remaining comments will be provided by others under separate cover.

### **Traffic**

**Comment 18.** *The TIA states that the study area generally includes sufficient roadway widths to support shared bicycle-vehicle travel. However, the shoulders along Main Street narrow at some points reducing the available travel widths. Tetra Tech recommends that the Applicant review the feasibility of providing continuous bicycle accommodations through the study area.*

**Response:** As a condition of any approvals that may be granted for the Project and if so desired by the Town, the Applicant will incorporate the requisite signs and pavement markings to provide continuous bicycle accommodations along Main Street within the study area (between Coffee Street and Holliston Street). Said accommodations will include bicycle lanes and associated signs and pavement markings where a 5-foot wide shoulder (minimum) can be provided, "Sharrow" pavement markings where shoulder widths of less than 5-feet are available, and the installation of "Share the Road" signs at locations where bicycle lanes cannot be accommodated. These improvements will be completed prior to the issuance of a Certificate of Occupancy for the Project and subject to receipt of all necessary rights, permits and approvals.

**Comment 19.** *The TIA identifies an existing commuter rail shuttle operated by the Greater Attleboro Taunton Regional Transit Authority (GATRA) that provides service among Medway Middle School, the Medway Post Office and the Norfolk Commuter Rail Station operated by the Massachusetts Bay Transportation Authority (MBTA) during peak commuting periods. Tetra Tech recommends that the Applicant work with GATRA to discuss the feasibility of extending the shuttle service to the site to reduce the number of vehicle trips in and out of the site.*

**Response:** As a condition of any approvals that may be granted for the Project, the Applicant will coordinate a meeting with the Town and GATRA to discuss the feasibility of expanding bus service within the Town to serve the Project and other area residential communities and businesses. The Project does include the installation of a bus stop and shelter along the Project site frontage on Main Street to accommodate future bus service.

**Comment 20.** *The crash analysis has generally been prepared in accordance with industry standards and includes an evaluation of data from the MassDOT crash database for the study intersections for the five-year period between 2012 and 2016. However, the MassDOT crash data was not provided in the Appendix. It is recommended that the Applicant provide the crash data to Tetra Tech for review.*

**Response:** The MassDOT crash data is attached.

**Comment 21.** *The Applicant has proposed to facilitate the completion of a Road Safety Audit (RSA) at the Main Street/Medway Commons/Walgreens driveway to identify potential safety improvements. The Applicant's commitment to the preparation of the RSA should be more specific. Tetra Tech recommends that the Applicant either prepare the RSA or fund the completion of the RSA.*

**Response:** As a condition of any approvals that may be granted for the Project, the Applicant will retain the services of an independent Traffic Engineer with experience in performing RSAs to conduct a RSA at the Main Street/Medway Commons/Walgreens driveway to identify potential safety improvements. The RSA will be paid for by the Applicant and will be completed prior to the issuance of a Certificate of Occupancy for the Project.

**Comment 22.** *Traffic generated by the project was based on trip rates published in ITE's Trip Generation for Land Use Code (LUC) 221 – Multifamily Housing (Mid-Rise) applied to 190 units. The site program evaluated in the TIA is expected to generate approximately 1,034 daily trips on a weekday (64 vph during the morning peak hour and 82 vph during the evening peak hour). Tetra Tech generally agrees with the trip generation methodology but notes discrepancies in the calculation (Tetra Tech calculated 68 trips during the morning peak hour and 84 trips during the evening peak hour). However, these discrepancies are minor and not expected to materially change the project's impacts identified in the TIA.*

**Response:** The discrepancies noted by TT in the peak-hour trip-generation calculations are a result of the use of the average trip rate vs. the fitted curve equation. The ITE trip-generation methodology states that the fitted curve equation should be used when a fitted curve is available and there are more than 20 data points for the land use under study; a fitted curve equation is provided for LUC 221 and there are more than 20 data points. As such, the



fitted curve equation was used pursuant to the ITE trip-generation methodology. That being said and as stated by TT, the resulting traffic volume differential is nominal (between two (2) and four (4) vehicle trips) and would not impact the findings that were presented in the November 2018 TIA with regard to the overall impact of the Project on the transportation infrastructure.

**Comment 23.** *The TIA utilized HCM 2000 methodology for the signalized intersections and HCM2010 methodology for the unsignalized intersections using Synchro version 10 software. Tetra Tech generally agrees with the methodology used in the TIA but notes some discrepancies with some of the data inputs used in the analysis (i.e., lost time adjustments). However, given that the Main Street/Holliston Street is currently being improved by MassDOT and that the Applicant has already offered to facilitate the RSA for the Main Street/Medway Commons intersection, Tetra Tech does not believe it would be beneficial to update the capacity analyses.*

**Response:** No response required.

**Comment 24.** *The main site driveway location analyzed in the November 2018 TIA was located approximately 100 feet west of Lee Lane. Based on the March 26, 2019 site plans, the driveway location is now proposed approximately 200 feet west of Lee Lane. It is recommended that the Applicant provide updated stopping sight distance (SSD) and intersection distance analyses (ISD) including the preparation of sight distance plans and profiles SSD and ISD for the main site driveway to ensure that adequate sight distance can be provided. The Applicant should provide the updated SSD and ISD calculations accounting for roadway grades. If minimum AASHTO SSD and ISD criteria are not satisfied, mitigation should be proposed, where possible, to enhance sight lines.*

**Response:** Sight distance measurements (SSD and ISD) were performed at the current location of the Project site driveway, which is to be situated along the south side of Main Street approximately 200-feet west of Lee Lane. These measurements indicate that lines of sight along Main Street approaching the Project site driveway (SSD) and for a motorist exiting the Project site driveway and looking to the left and right along Main Street (ISD) exceed 600-feet, which exceeds the recommended minimum lines of sight for safe and efficient operation of the driveway based on an approach speed of 45 miles per hour (mph) along Main Street, which is slightly above the measured 85<sup>th</sup> percentile vehicle travel speed that was reported in the November 2018 TIA (41 mph) and is 10 mph above the posted speed limit (35 mph).

Main Street in the vicinity of the Project site driveway is relatively straight with an approach grade of approximately 4 percent. Applying a grade correction factor to the recommended stopping sight distance value would increase the stopping sight distance in the eastbound direction (downward slope) from 360-feet to 385-feet and would reduce the stopping sight distance in the westbound direction (upward slope) from 360-feet to 340-feet; a grade correction factor is not required for the intersection sight distance measurements. The available sight lines at the Project site driveway intersection (600+ feet) continue to exceed the minimum recommended distances for safe operation with application of the grade correction factor.



We defer to TT as to the need to prepare a sight distance plan for the Project site driveway intersection as there are no apparent sight distance restrictions present and the available sight lines far exceed the recommended minimum distances for safe operation of the driveway.

**Comment 25.** *The March 26, 2019 plan set indicates a total proposed parking supply of 304 spaces which exceeds the Town zoning requirement of 1.5 spaces per unit.*

**Response:** No response required.

**Comment 26.** *The TIA recommends that the access ways serving the site be at least 24-feet wide for two-way traffic flow and 20-feet wide for one-way traffic flow/fire lanes consistent with NFPA®1. Tetra Tech notes that the March 26, 2019 site plans do not meet these criteria. Tetra Tech recommends that the Applicant review the proposed grades of the driveways serving the site and conduct an AutoTurn analysis of the site layout to ensure that the largest emergency vehicle used by the Medway Fire Department can adequately maneuver in and around the site. The Applicant should also review the proposed site plan with the Medway Fire Department to ensure they are satisfied with the proposed site access and circulation.*

**Response:** The access roadways serving the Project site were designed and located in consultation with the Medway Fire Department.

**Comment 27.** *The Applicant shows a proposed bus stop along the southerly side of Main Street approximately 100 feet west of Lee Lane. Tetra Tech agrees with the provision of a designated bus stop but recommends that the Applicant confirm the bus stop location with the Medway School Department.*

**Response:** The Applicant will consult with the Medway School Department prior to the issuance of a Certificate of Occupancy for the Project and as a condition of the Comprehensive Permit regarding the final location of the proposed bus stop along Main Street.

**Comment 28.** *The Applicant should specify how the proposed easterly driveway (labeled in the March 26, 2019 site plans as "Fire Lane") will be restricted to emergency vehicle use only to ensure that non-emergency vehicles will not use this driveway. Proper signage, pavement markings and infrastructure (i.e., removable bollards) should be considered.*

**Response:** The proposed fire lane will be gated at both ends or otherwise suitably secured as required by the Medway Fire Department.

**Comment 29.** *The Applicant should consider installing Stop bars and Stop signs along the parking lot approaches to the main site driveway (on-site internal intersection) in accordance with the Manual on Uniform Traffic Control Devices (MUTCD).*

**Response:** STOP-signs and STOP-lines will be added on the parking lot approaches to the main Project site driveway intersection as requested.



**Comment 30.** *The TIA recommends that marked crosswalks with the Americans with Disabilities Act (ADA) compliant wheelchair ramps be provided at all pedestrian crossings. Tetra Tech agrees with this recommendation and recommends that the Applicant review any areas where on-site roadway grades, including the site driveways, consist of grades that exceed ADA standards. If so, the Applicant should discuss the feasibility of providing ADA-compliant sidewalks or alternative travel paths that satisfy ADA standards.*

**Response:** Sidewalks and wheelchair ramps within the Project site will be designed and constructed to meet ADA standards.

**Comment 31.** *The TIA recommends that a central mailing system be provided. Should a central mailing system be implemented outside of the proposed residential building, Tetra Tech recommends that the Applicant consider providing designated parking for mail delivery vehicles and motorists picking up/dropping off mail.*

**Response:** A central mail system will be integrated into the lobby area of the proposed building.

**Comment 32.** *Tetra Tech recommends that the Applicant implement a rectangular rapid flashing beacon (RRFB) at the proposed crosswalk across Main Street to enhance pedestrian safety at this location by providing greater warning for motorists along Main Street of the midblock crosswalk.*

**Response:** The Applicant will install a RRFB at the proposed crosswalk across Main Street subject to receipt of all necessary rights, permits and approvals.

We trust that this information is responsive to the comments that were raised in the May 13, 2019 letter from TT concerning their review of the November 2018 TIA prepared in support of the Project. If you should have any questions or would like to discuss our responses in more detail, please feel free to contact me.

Sincerely,

VANASSE & ASSOCIATES, INC.



Jeffrey S. Dirk, P.E., PTOE, FITE  
Partner

*Professional Engineer in CT, MA, ME, NH, RI and VA*

JSD/jsd

Attachments

cc: G. Engler – SEB, LLC & KIG, LLC (via email)  
File



| Crash Number | City/Town Name | Crash Date  | Crash Time | Crash Severity                      | Number of Vehicles | Total Nonfatal Injuries | Total Fatal Injuries | Manner of Collision           | Vehicle Action Prior to Crash   | Vehicle Travel Directions                                    | Most Harmful Events   | Vehicle Configuration   | Road Surface Condition | Ambient Light          | Weather Condition       | At Roadway Intersection                              | Distance from Nearest Roadway Intersection             | Distance from Nearest Milemarker | Distance from Nearest Exit | Distance from Nearest Landmark | Non Motorist Type  |  |
|--------------|----------------|-------------|------------|-------------------------------------|--------------------|-------------------------|----------------------|-------------------------------|---|--|---|---|------------------------|------------------------|-------------------------|--|--|----------------------------------|----------------------------|--------------------------------|--|--|
| 3602798      | MEDWAY         | 23-Aug-2012 | 2:44 PM    | Non-fatal injury                    | 1                  | 1                       | 0                    | Single vehicle crash          | V1: Slowing or stopped in traffic   | V1:Southbound  | V1: Collision with cyclist (bicycle, tricycle, unicycle, pedal car)   | V1: Passenger car   | Dry                    | Daylight               | Clear/Clear             |  | 70 MAIN STREET   |                                  |                            |                                | P2:Pedalcyclist (bicycle, tricycle, unicycle, pedal car) |  |
| 3600614      | MEDWAY         | 14-May-2012 | 7:29 AM    | Property damage only (none injured) | 2                  | 0                       | 0                    | Angle                         | V1: Entering traffic lane / V2:Travelling straight ahead  | V1:Northbound / V2:Southbound                                | V1: Collision with motor vehicle in traffic / V2: Collision with motor vehicle in traffic   | V1: Light truck(van, mini-van, panel, pickup, sport utility) with only four tires / V2:Light truck(van, mini-van, panel, pickup, sport utility) with only four tires                    | Wet                    | Daylight               | Clear/Rain              |  | 70 MAIN STREET / HOLLISTON STREET                      |                                  |                            |                                |  |  |
| 3600616      | MEDWAY         | 13-May-2012 | 1:32 PM    | Property damage only (none injured) | 3                  | 0                       | 0                    | Rear-end                      | V1: Slowing or stopped in traffic / V2:Slowing or stopped in traffic / V3:Travelling straight ahead                       | V1:Northbound / V2:Northbound / V3:Northbound                | V1: Collision with motor vehicle in traffic / V2: Collision with motor vehicle in traffic / V3: Collision with motor vehicle in traffic | V1: Light truck(van, mini-van, panel, pickup, sport utility) with only four tires / V2:Light truck(van, mini-van, panel, pickup, sport utility) with only four tires / V3:Passenger car | Dry                    | Daylight               | Clear                   |  | 76 HOLLISTON STREET                                    |                                  |                            |                                |  |  |
| 3602804      | MEDWAY         | 31-Jul-2012 | 8:32 AM    | Not Reported                        | 2                  | 0                       | 0                    | Sideswipe, opposite direction | V1: Turning left / V2:Overtaking/passing  | V1:Southbound / V2:Northbound                                | V1: Collision with motor vehicle in traffic / V2: Collision with motor vehicle in traffic   | V1: Passenger car / V2:Passenger car  | Dry                    | Daylight               | Clear                   |  | 82 HOLLISTON STREET                                    |                                  |                            |                                |  |  |
| 3592069      | MEDWAY         | 27-Sep-2012 | 5:11 PM    | Property damage only (none injured) | 2                  | 0                       | 0                    | Rear-end                      | V1: Slowing or stopped in traffic / V2:Travelling straight ahead  | V1:Southbound / V2:Southbound                                | V1: Collision with motor vehicle in traffic / V2: Collision with motor vehicle in traffic   | V1: Motorcycle / V2:Light truck(van, mini-van, panel, pickup, sport utility) with only four tires   | Dry                    | Daylight               | Clear                   | HOLLISTON ST / MAIN ST Rte 109 E                     |  |                                  |                            |                                |  |  |
| 3602947      | MEDWAY         | 03-Sep-2013 | 3:56 PM    | Property damage only (none injured) | 2                  | 0                       | 0                    | Rear-end                      | V1: Slowing or stopped in traffic / V2:Travelling straight ahead  | V1:Westbound / V2:Westbound                                  | V1: Collision with motor vehicle in traffic / V2: Collision with motor vehicle in traffic   | V1: Passenger car / V2:Passenger car  | Wet                    | Daylight               | Clear                   |  | 60 MAIN STREET Rte 109 W                               |                                  |                            |                                |  |  |
| 3602960      | MEDWAY         | 01-Jul-2013 | 12:57 PM   | Property damage only (none injured) | 2                  | 0                       | 0                    | Sideswipe, same direction     | V1: Travelling straight ahead / V2:Changing lanes   | V1:Eastbound / V2:Eastbound                                  | V1: Collision with motor vehicle in traffic / V2: Collision with motor vehicle in traffic   | V1: Passenger car / V2:Light truck(van, mini-van, panel, pickup, sport utility) with only four tires  | Dry                    | Daylight               | Clear                   | MAIN STREET / HOLLISTON STREET                       |  |                                  |                            |                                |  |  |
| 3682978      | MEDWAY         | 06-Dec-2013 | 9:28 PM    | Property damage only (none injured) | 1                  | 0                       | 0                    | Single vehicle crash          | V1: Travelling straight ahead / V1: Slowing or stopped in traffic / V2:Slowing or stopped in traffic                      | V1:Eastbound   | V1: Collision with guardrail / V1: Collision with motor vehicle in traffic / V2: Collision with motor vehicle in traffic                | V1: Light truck(van, mini-van, panel, pickup, sport utility) with only four tires   | Wet                    | Dark - lighted roadway | Rain                    |  | MAIN STREET / HOLLISTON STREET                         |                                  |                            |                                |  |  |
| 3592322      | MEDWAY         | 09-Jan-2013 | 2:59 PM    | Non-fatal injury                    | 2                  | 1                       | 0                    | Rear-end                      | V1: Slowing or stopped in traffic / V2:Slowing or stopped in traffic  | V1:Westbound / V2:Westbound                                  | V1: Collision with motor vehicle in traffic / V2: Collision with motor vehicle in traffic   | V1: Passenger car / V2:Passenger car  | Dry                    | Daylight               | Clear                   |  | MAIN STREET Rte 109 W / HOLLISTON STREET               |                                  |                            |                                |  |  |
| 3600994      | MEDWAY         | 04-Feb-2013 | 2:08 PM    | Property damage only (none injured) | 2                  | 0                       | 0                    | Sideswipe, opposite direction | V1: Slowing or stopped in traffic / V2:Turning left   | V1:Eastbound / V2:Westbound                                  | V1: Collision with motor vehicle in traffic / V2: Collision with motor vehicle in traffic   | V1: Passenger car / V2:Unknown heavy truck, cannot classify   | Dry                    | Daylight               | Clear                   | MAIN STREET Rte 109 W / HOLLISTON STREET             |  |                                  |                            |                                |  |  |
| 3602212      | MEDWAY         | 24-Jul-2014 | 1:29 PM    | Property damage only (none injured) | 2                  | 0                       | 0                    | Rear-end                      | V1: Slowing or stopped in traffic / V2:Travelling straight ahead  | V1:Eastbound / V2:Eastbound                                  | V1: Collision with motor vehicle in traffic / V2: Collision with motor vehicle in traffic   | V1: Light truck(van, mini-van, panel, pickup, sport utility) with only four tires / V2:Passenger car  | Dry                    | Daylight               | Clear                   |  | 65 MAIN STREET   |                                  |                            |                                | MEDWAY COMMONS   |  |
| 368181       | MEDWAY         | 14-Jun-2014 | 10:58 AM   | Non-fatal injury                    | 4                  | 2                       | 0                    | Rear-end                      | V1: Slowing or stopped in traffic / V2:Slowing or stopped in traffic / V3:Slowing or stopped in traffic / V4:Not reported | V1:Westbound / V2:Westbound / V3:Westbound / V4:Not reported | V1: Collision with motor vehicle in traffic / V2: Not reported / V3: Not reported / V4: Not reported                                    | V1: Passenger car / V2:Passenger car  | Dry                    | Daylight               | Clear                   |  | 68 MAIN STREET   |                                  |                            |                                | WALGREEN'S   |  |
| 3608734      | MEDWAY         | 14-Aug-2014 | 4:00 PM    | Property damage only (none injured) | 2                  | 0                       | 0                    | Rear-to-rear                  | V1: Backing / V2:Parked   | V1:Eastbound / V2:Eastbound                                  | V1: Collision with motor vehicle in traffic / V2: Collision with motor vehicle in traffic   | V1: Passenger car / V2:Passenger car  | Dry                    | Daylight               | Clear                   |  | 75 feet N from Intersection MAIN ST / 68 Rte 109       |                                  |                            |                                |  |  |
| 3893651      | MEDWAY         | 28-Jul-2014 | 3:08 PM    | Property damage only (none injured) | 2                  | 0                       | 0                    | Rear-end                      | V1: Slowing or stopped in traffic / V2:Travelling straight ahead  | V1:Southbound / V2:Southbound                                | V1: Collision with motor vehicle in traffic / V2: Collision with motor vehicle in traffic   | V1: Passenger car / V2:Passenger car  | Dry                    | Daylight               | Clear                   | HOLLISTON ST / MAIN ST Rte 109                       |  |                                  |                            |                                |  |  |
| 3995214      | MEDWAY         | 25-Dec-2014 | 1:53 AM    | Non-fatal injury                    | 1                  | 1                       | 0                    | Single vehicle crash          | V1: Travelling straight ahead   | V1:Westbound   | V1: Collision with utility pole   | V1: Passenger car   | Dry                    | Dark - lighted roadway | Clear                   |  | MAIN ST Rte 109 W / HOLLISTON ST                       |                                  |                            |                                |  |  |
| 3784152      | MEDWAY         | 03-Apr-2014 | 6:26 AM    | Property damage only (none injured) | 2                  | 0                       | 0                    | Rear-end                      | V1: Slowing or stopped in traffic / V2:Travelling straight ahead  | V1:Westbound / V2:Westbound                                  | V1: Collision with motor vehicle in traffic / V2: Collision with motor vehicle in traffic   | V1: Light truck(van, mini-van, panel, pickup, sport utility) with only four tires   | Dry                    | Daylight               | Clear                   | MAIN ST Rte 109 W / MAIN ST Rte 109 W / HOLLISTON ST |  |                                  |                            |                                |  |  |
| 3736568      | MEDWAY         | 18-Feb-2014 | 1:16 PM    | Property damage only (none injured) | 2                  | 0                       | 0                    | Angle                         | V1: Travelling straight ahead / V2:Slowing or stopped in traffic  | V1:Westbound / V2:Southbound                                 | V1: Collision with motor vehicle in traffic / V2: Not reported  | V1: Light truck(van, mini-van, panel, pickup, sport utility) with only four tires   | Snow                   | Daylight               | Snow/Cloudy             |  | MAIN STREET / HOLLISTON STREET                         |                                  |                            |                                |  |  |
| 3767437      | MEDWAY         | 10-Apr-2014 | 7:45 PM    | Property damage only (none injured) | 3                  | 0                       | 0                    | Rear-end                      | V1: Slowing or stopped in traffic / V2:Slowing or stopped in traffic / V3:Travelling straight ahead                       | V1:Westbound / V2:Westbound / V3:Westbound                   | V1: Collision with motor vehicle in traffic / V2: Collision with motor vehicle in traffic / V3: Collision with motor vehicle in traffic | V1: Passenger car / V2:Light truck(van, mini-van, panel, pickup, sport utility) with only four tires / V3:Light truck(van, mini-van, panel, pickup, sport utility) with only four tires | Dry                    | Dark - lighted roadway | Clear                   | MAIN STREET / MAIN STREET / HOLLISTON STREET         |  |                                  |                            |                                |  |  |
| 3996196      | MEDWAY         | 08-Dec-2014 | 10:15 PM   | Property damage only (none injured) | 1                  | 0                       | 0                    | Single vehicle crash          | V1: Not reported  | V1:Eastbound   | V1: Collision with curb   | V1: Passenger car   | Wet                    | Dark - lighted roadway | Snow                    |  | MAIN STREET Rte SR109 W / HOLLISTON STREET             |                                  |                            |                                |  |  |
| 4117662      | MEDWAY         | 01-Dec-2015 | 10:18 PM   | Non-fatal injury                    | 2                  | 1                       | 0                    | Rear-end                      | V1: Turning right /   | V1:Westbound / V2:Westbound                                  | V1: Collision with motor vehicle in traffic / V2: Collision with motor vehicle in traffic   | V1: Passenger car /   | Wet                    | Dark - lighted         | Rain/Rain               | COFFEE ST / Rte 109 W                                |  |                                  |                            |                                |  |  |
| 4051316      | MEDWAY         | 10-Jun-2015 | 4:24 PM    | Property damage only (none injured) | 2                  | 0                       | 0                    | Rear-end                      | V1: Slowing or stopped in traffic / V2:Travelling straight ahead  | V1:Westbound / V2:Westbound                                  | V1: Collision with motor vehicle in traffic / V2: Collision with motor vehicle in traffic   | V1: Passenger car / V2:Passenger car  | Dry                    | Daylight               | Clear                   |  | 300 feet E from Intersection MAIN ST Rte 109 W / 68    |                                  |                            |                                |  |  |
| 4064368      | MEDWAY         | 21-Jul-2015 | 12:04 PM   | Property damage only (none injured) | 2                  | 0                       | 0                    | Rear-to-rear                  | V1: Slowing or stopped in traffic / V2:Backing  | V1:Northbound / V2:Westbound                                 | V1: Collision with motor vehicle in traffic / V2: Collision with motor vehicle in traffic   | V1: Light truck(van, mini-van, panel, pickup, sport utility) with only four tires / V2:Light truck(van, mini-van, panel, pickup, sport utility) with only four tires                    | Dry                    | Daylight               | Cloudy                  |  | 50 feet S from Intersection HOLLISTON ST / 76 Rte 109  |                                  |                            |                                |  |  |
| 4120972      | MEDWAY         | 13-Dec-2015 | 2:57 PM    | Property damage only (none injured) | 2                  | 0                       | 0                    | Rear-end                      | V1: Slowing or stopped in traffic / V2:Travelling straight ahead  | V1:Westbound / V2:Westbound                                  | V1: Collision with motor vehicle in traffic / V2: Collision with motor vehicle in traffic   | V1: Passenger car / V2:Passenger car  | Dry                    | Daylight               | Clear/Clear             |  | 68 MAIN STREET Rte 109 W                               |                                  |                            |                                |  |  |
| 4126111      | MEDWAY         | 15-Dec-2015 | 3:51 PM    | Property damage only (none injured) | 3                  | 0                       | 0                    | Rear-end                      | V1: Slowing or stopped in traffic / V2:Slowing or stopped in traffic / V3:Travelling straight ahead                       | V1:Westbound / V2:Westbound / V3:Westbound                   | V1: Collision with motor vehicle in traffic / V2: Collision with motor vehicle in traffic / V3: Not reported                            | V1: Light truck(van, mini-van, panel, pickup, sport utility) with only four tires / V2:Passenger car / V3:Light truck(van, mini-van, panel, pickup, sport utility) with only four tires | Dry                    | Daylight               | Clear                   |  | 68 MAIN STREET Rte 109 W                               |                                  |                            |                                | WALGREENS  |  |
| 4009798      | MEDWAY         | 15-Feb-2015 | 1:38 PM    | Property damage only (none injured) | 2                  | 0                       | 0                    | Angle                         | V1: Slowing or stopped in traffic / V2:Backing  | V1:Southbound / V2:Northbound                                | V1: Collision with motor vehicle in traffic / V2: Collision with motor vehicle in traffic   | V1: Light truck(van, mini-van, panel, pickup, sport utility) with only four tires / V2:Single-unit truck (2-axle, 6-tire)   | Snow                   | Daylight               | Blowing sand, snow/Snow |  | 80 feet S from Intersection HOLLISTON STREET / Rte 109 |                                  |                            |                                |  |  |
| 4111561      | MEDWAY         | 29-Oct-2015 | 12:06 PM   | Property damage only (none injured) | 2                  | 0                       | 0                    | Sideswipe, opposite direction | V1: Slowing or stopped in traffic / V2:Travelling straight ahead  | V1:Westbound / V2:Eastbound                                  | V1: Collision with motor vehicle in traffic / V2: Collision with motor vehicle in traffic   | V1: Passenger car / V2:Passenger car  | Dry                    | Daylight               | Clear                   |  | MAIN ST / 68   |                                  |                            |                                | SHOPPING PLAZA   |  |

| Crash Number | City/Town Name | Crash Date  | Crash Time | Crash Severity  | Number of Vehicles | Total Nonfatal Injuries | Total Fatal Injuries | Manner of Collision | Vehicle Action Prior to Crash   | Vehicle Travel Directions                     | Most Harmful Events   | Vehicle Configuration   | Road Surface Condition | Ambient Light          | Weather Condition                           | At Roadway Intersection                            | Distance from Nearest Roadway Intersection | Distance from Nearest Milemarker | Distance from Nearest Exit | Distance from Nearest Landmark | Non Motorist Type |  |
|--------------|----------------|-------------|------------|---|--------------------|-------------------------|----------------------|---------------------|---|---|---|---|------------------------|------------------------|---|--|--|----------------------------------|----------------------------|--------------------------------|-------------------|--|
| 4293979      | MEDWAY         | 05-Dec-2016 | 12:19 PM   | Non-fatal injury<br>Property damage only (none injured) | 2                  | 1                       | 0                    | Rear-end            | V1: Slowing or stopped in traffic / V2: Travelling straight ahead                                     | V1: Northbound / V2: Northbound               | V1: Collision with motor vehicle in traffic / V2: Collision with motor vehicle in traffic   | V1: Passenger car / V2: Light truck(van, mini-van, panel, pickup, sport utility) with only four tires | Wet                    | Daylight               | Sleet, hail (freezing rain or drizzle)/Rain | HOLLISTON ST / MAIN ST Rte 109 E                   |  |                                  |                            |                                |                   |  |
| 4291233      | MEDWAY         | 29-Nov-2016 | 5:05 PM    | Property damage only (none injured)                     | 2                  | 0                       | 0                    | Rear-end            | V1: Turning left / V2: Turning left   | V1: Southbound / V2: Southbound               | V1: Collision with motor vehicle in traffic / V2: Collision with motor vehicle in traffic   | V1: Passenger car / V2: Light truck(van, mini-van, panel, pickup, sport utility) with only four tires | Wet                    | Dark - lighted roadway | Rain/Rain                                   | MAIN ST / MAIN STREET Rte 109 E / HOLLISTON STREET |  |                                  |                            |                                |                   |  |
| 4174237      | MEDWAY         | 09-Apr-2016 | 12:13 PM   | Property damage only (none injured)                     | 2                  | 0                       | 0                    | Angle               | V1: Travelling straight ahead / V2: Entering traffic lane   | V1: Westbound / V2: Northbound                | V1: Collision with motor vehicle in traffic / V2: Collision with motor vehicle in traffic   | V1: Light truck(van, mini-van, panel, pickup, sport utility) with only four tires / V2: Passenger car | Dry                    | Daylight               | Clear                                       |  | 67 MAIN ST                                 |                                  |                            |                                |                   |  |
| 4241656      | MEDWAY         | 02-Sep-2016 | 11:54 AM   | Property damage only (none injured)                     | 3                  | 0                       | 0                    | Rear-end            | V1: Slowing or stopped in traffic / V2: Slowing or stopped in traffic / V3: Travelling straight ahead | V1: Eastbound / V2: Eastbound / V3: Eastbound | V1: Collision with motor vehicle in traffic / V2: Collision with motor vehicle in traffic / V3: Collision with motor vehicle in traffic | V1: Passenger car / V2: Passenger car / V3: Passenger car   | Dry                    | Daylight               | Clear                                       |  | 67 MAIN ST                                 |                                  |                            |                                |                   |  |
| 4180320      | MEDWAY         | 23-Apr-2016 | 2:01 PM    | Property damage only (none injured)                     | 2                  | 0                       | 0                    | Rear-end            | V1: Slowing or stopped in traffic / V2: Travelling straight ahead                                     | V1: Westbound / V2: Westbound                 | V1: Collision with motor vehicle in traffic / V2: Collision with motor vehicle in traffic   | V1: Light truck(van, mini-van, panel, pickup, sport utility) with only four tires / V2: Passenger car | Dry                    | Daylight               | Cloudy                                      |  | 67 MAIN ST Rte 109 W                       |                                  |                            |                                |                   |  |
| 4180952      | MEDWAY         | 07-Mar-2016 | 3:04 PM    | Property damage only (none injured)                     | 2                  | 0                       | 0                    | Rear-end            | V1: Slowing or stopped in traffic / V2: Travelling straight ahead                                     | V1: Westbound / V2: Westbound                 | V1: Collision with motor vehicle in traffic / V2: Collision with motor vehicle in traffic   | V1: Passenger car / V2: Passenger car   | Dry                    | Daylight               | Clear                                       |  | 68 MAIN ST                                 |                                  |                            |                                |                   |  |
| 4130626      | MEDWAY         | 05-Jan-2016 | 4:59 PM    | Non-fatal injury<br>Property damage only (none injured) | 2                  | 1                       | 0                    | Rear-end            | V1: Slowing or stopped in traffic / V2: Travelling straight ahead                                     | V1: Westbound / V2: Westbound                 | V1: Collision with motor vehicle in traffic / V2: Collision with motor vehicle in traffic   | V1: Passenger car / V2: Passenger car   | Dry                    | Dark - lighted roadway | Clear                                       |  | 70 MAIN ST Rte 109 W                       |                                  |                            |                                |                   |  |
| 4246285      | MEDWAY         | 12-Sep-2016 | 9:36 AM    | Property damage only (none injured)                     | 2                  | 0                       | 0                    | Rear-end            | V1: Slowing or stopped in traffic / V2: Travelling straight ahead                                     | V1: Westbound / V2: Westbound                 | V1: Collision with motor vehicle in traffic / V2: Collision with motor vehicle in traffic   | V1: Passenger car / V2: Passenger car   | Dry                    | Daylight               | Clear/Clear                                 |  | 70 MAIN ST Rte 109 W                       |                                  |                            |                                |                   |  |