FUNCTIONAL DESIGN REPORT

Resurfacing and Related Work on Route 9 Ware Town Line to Pierce Road

West Brookfield, Massachusetts

Project File No. 606517

Prepared for:



Mr. James P. Daley Highway Superintendent Town of West Brookfield Town Hall-2 East Main Street West Brookfield, MA 01585

Prepared by:



(Formerly Coler & Colantonio, Inc.)

Revised December 2015

Table of Contents

A.	Introduction	1
B.	Existing Conditions	2
1.	Study Area	2
2.	Existing Conditions	3
C.	Traffic Volumes	
1.	Traffic Count Data	6
a.	ATR Counts	6
2.	Base Year Traffic Volumes	7
a.	Seasonal Factors	7
3.	Future Year Traffic Volumes	7
a.	Annual Background Growth Rate	7
b.	•	
D.	Safety Analysis	
1.	Crash Analysis	
2.	Crash Rate Worksheets	
3.	Initial Safety Review	
4.	Road Safety Audit	
5.	Post Road Safety Audit	
E.	Proposed Design	
1.	Modified Geometry	
2.	Bicycle Accommodation	
3.	Safety Enhancements	
4.	Work By Others	
F.	Traffic Management	
1.	Construction Management Outline	
a.		
	es and Tables	<u>Page</u>
	1 ~ Minimum Design Criteria	1
	1 ~ Locus Map	3
	2 ~ Intersection Sight Distance	6
	3~ ATR Raw Traffic Count Data	6
	4~ Adjusted Traffic Count Data	7
Table 3	5 ~ CMRPC Historic Factored Traffic Count Data –	0
Table 4	Route 9, at Ware Town Line	8 8
	6 ~ 2032 Projected Traffic Volumes 7 ~ Accident Summary 2007-2010	8 9
	8 ~ RSA Enhancement Summary - Shoulder/Visibility	11
	9 ~ RSA Enhancement Summary – Drainage	12
	10 ~ RSA Enhancement Summary – Signage/Striping	13
	11 ~ RSA Enhancement Summary – Miscellaneous	14
	12 ~ Accident Summary 2013-2015	15

Table of Contents (Continued)

Appendix A ~ Traffic Count Data

- 48 hour Automatic Traffic Recorder Counts
- 48 hour Automatic Traffic Recorder Counts with Speeds

Appendix B ~ Accident Data

- MassDOT Accident Reports
- Crash Rate Worksheets
- Collision Map

Appendix C ~ Road Safety Audit

• Road Safety Audit

A. Introduction

This Functional Design Report is prepared for the proposed resurfacing and related work on Route 9 (West Main Street) in the Town of West Brookfield. The purpose of this functional design report is to document the proposed project locus, the existing conditions of the roadway within the project area, and support design decisions for roadway conditions while enhancing safety for all roadway users. A safety review of the corridor, including a Road Safety Audit has been performed based on available accident data. Existing traffic volume data is presented in this report along with supporting documentation utilized to project current traffic volume data to future design year traffic volumes. These project evaluations were utilized to document the design decisions and recommendations for proposed improvements and traffic controls during construction.

In the analytical assessment of the geometric design criteria for this report, the controlling factors are the design speed and functional classification of the roadway. Land use and impacts to adjacent properties are other factors considered in the design development. The effects on roadside features have been strongly considered when recommending improvements to meet the minimum design requirements. The design criteria utilized in this project are defined in Table 1 below.

Table 1 – Minimum Design Criteria

Reference	Design Element	Minimum Criteria
Exhibit 3-7	Design Speed	45 mph
Exhibit 3-8	Stopping Sight Distance	331 ft (Upgrade), 400 ft (Downgrade)
Exhibit 3-11	Intersection Sight Distance	500 ft
Exhibit 4-26	Min. Rate Of Vertical Curvature (K) - Crest	61
Exhibit 4-27	Min. Rate Of Vertical Curvature (K) - Sag	79
Table 4-21	Max. Vertical Grade	7.0%
Exhibit 4-9	Min. Horizontal Radius	
Exhibits 5-12, 5-14	Minimum Roadway Width Travel Lane Shoulder	11 to 12 ft 4 to 12ft
Exhibit 5-19	Clear Zone	12 ft - 18 ft (Backslope), 16 ft - 26 ft (Foreslope)

Note: Unless otherwise noted, all references are to the Project Development & Design Guide

Recommendations are based on the analysis of existing traffic data and physical roadway conditions. The analysis includes the review of existing vertical and horizontal roadway alignment, traffic volumes, accident history, intersections, drainage, traffic signing and pavement conditions. The existing conditions of the road have been compared to the minimum design criteria outlined in the Massachusetts Department of Transportation-Highway Division's (MassDOT) Project Development & Design Guide (PDDG).

1

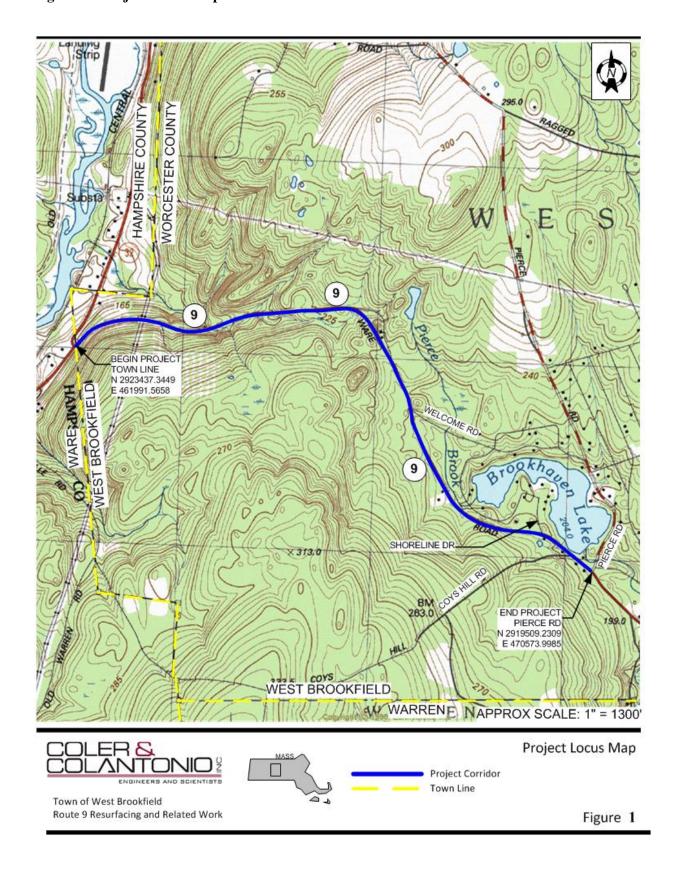
B. Existing Conditions

The intent of this section of the report is to document the existing features and current conditions surrounding the proposed project. Following is a detailed description of the project locus, existing deficiencies and issues found along the corridor.

1. Study Area

Beginning at the Ware Town Line and ending at Pierce Road, the Route 9 project in West Brookfield consists of resurfacing and related work, including widening, drainage improvements, and guardrail and signage replacement. Route 9 is a statewide road running East-West from across Massachusetts connecting town centers and major cities. This portion of Route 9 is a rural, wooded section of roadway that connects Ware and West Brookfield town centers. The project length is approximately 11,000 feet (2.1 miles). The project limits are graphically depicted in Figure 1. Beginning at the Ware Town Line, Route 9, also known as West Main Street, follows the natural mountainous terrain of West Brookfield. The road climbs to a high point near the midpoint of the project before sloping downward to Brookhaven Lake. Wooded areas abut the western half of the roadway with no intersections, residential property or businesses. On the eastern half of the project, Route 9 intersects three roadways; Shoreline Drive, Coys Hill Road, and Pierce Road. Along this portion of the project there are residential properties abutting the roadway. Brookhaven Lake is adjacent to the roadway at the east end of the project.

Figure 1 – Project Locus Map



2. Existing Conditions

As a typical old State Highway, Route 9 provides direct access to the heart of both cities and small town centers from Pittsfield to Boston. The 2.1 mile section of Route 9 that this project focuses on is approximately 5 miles north of and runs parallel to I-90. Designated as a Rural Principal Arterial, Route 9 is part of the National Highway System (NHS) and is a primary road within the Town of West Brookfield. This specific section of Route 9 is mostly undeveloped with wooded areas and steep grades at the edges of the roadway. At the easterly end of the project, there are some single family residential properties abutting the corridor as well as Brookhaven Lake.

The existing cross section of Route 9 consists of two travel lanes with narrow paved shoulders. Roadway widths vary between sections, typically 24'-26' wide with 11.5' lanes and 1'-2' paved shoulders. There are no sidewalks within the project limits. Passing along this portion of the corridor is prohibited. The roadway's narrow and winding alignment produces limited lines of sight, which can be dangerous for bicyclists. Most of the signage along the roadway is in fair to poor condition, with many of the signs needing to be replaced. Guardrail is provided where the roadway passes through forested land with significant topographic constraints, streams, and wetlands. The pavement on Route 9 is in fair condition. Along the roadway there are sections of light to moderate cracking including alligator, edge, longitudinal, and transverse. There is also shoulder deterioration where there is no edge treatment present.

The existing drainage system is primarily country drainage with paved waterways directing surface runoff to low-lying areas, many of which are wetland areas. The lack of drainage infrastructure results in storm water runoff sheet flowing across the roadway causing icy conditions during winter months.

Alignment

This project area has a winding alignment with 10 tangents connected by 17 horizontal curves. Curve radii range from about 600 feet to about 3,500 feet. Out of the 17 horizontal curves in the roadway, six are below the minimum radius of 1,040 feet for a roadway with a normal crown and a design speed of 45 mph. Each of these six curves are superelevated.

The existing vertical alignment of the roadway is characterized by having one high point with an elevation of approximately 780 feet near the midpoint of the project at STA 65+60. The west end is the lowest point of the project with an elevation of 530 ft. The road gradually slopes upward before briefly leveling off and rising with a more pronounced slope to the high point. The east side of the project is a series of small plateaus followed by gradual grades down to an elevation of 660 ft. The steepest grade is approximately 6.7% between stations 34+30 and 41+00.

Sight distances along the crest and sag curves were examined for conformance with the Design Criteria. Two sag curves did not meet the required 360 feet of sight distance and the

minimum design value of 79 for rate of vertical curvature (K). These curves are approximately located at stations 34+50, and 97+75.

Travel Speeds

A review of the traffic data indicates average travel speeds are consistently about 40 mph with downhill speeds along the project approximately 5 mph faster than uphill speeds. The 45 mph design speed chosen closely matches the 85th percentile speeds observed in two locations within the project limits. The traffic data was collected by Automated Traffic Recorders (ATR) along West Main Street, west of Rock House Reservation and west of Pierce Road. The ATRs were used for a duration of 48 hours February 1st and 2nd, 2012. The regulating 40 mph speed limit signs along the roadway are located at the west end of the project as you enter West Brookfield and beyond the east limit of the project near Cutler Road in West Brookfield.

Drainage

Much of the existing roadway has no drainage infrastructure. Where present, the existing drainage structures are a "country drainage" system with paved swales along the side of the road. The swales direct the surface runoff to low-lying areas, most of which are wetlands. There are also drop inlets with drainage pipes crossing underneath the roadway, discharging to wetlands.

Utilities

There are a limited number of utilities located along this roadway. Beyond drainage systems these include telephone, gas, and overhead electrical lines running between utility poles. All of the utility poles and most other utilities are found at the eastern end of the project between stations 93+00 and the easterly limit of work. There are very few utilities on the west side of the project where there are no residences.

Sight Distance

Sight distances at the intersections within the project limits were analyzed to determine what, if any, improvements were necessary. The intersections were assessed for sight distance, corner radii, and traffic signing.

Available sight distance was reviewed for each of the listed intersections. The minimum intersection sight distance for vehicles entering West Main Street from side streets was determined from procedures described in Chapter 3 in the PDDG and as a function of travel speeds. The minimum intersection sight distances and existing intersection sight distances are tabulated in Table 2, below.

Table 2 – Intersection Sight Distance

Street Name	Min. Required	Recommended	Existing Sight Distance Available		Obstruction	
Street Name	Sight Distance Onto Route 9	Sight Distance Onto Route 9	Left	Right		
Shoreline Drive	378'	430' Lt., 500' Rt.	500'+	500'+	None	
Coys Hill Road	378'	500' Lt., 430' Rt.	500'+	455'	Rt: Vertical Alignment of the road	
Pierce Road	378'	430' Lt., 500' Rt.	462'	500'+	Lt: Vertical Alignment of the road	

The available intersection sight distance found at all 3 intersections within the project limits exceeds the minimum required intersection sight distance as well as the recommended sight distance. Shoreline Drive, while being a private gravel road, was included in this sight distance observation and meets all standards.

C. Traffic Volumes

In order to determine base traffic volume conditions, automatic traffic recorder counts (ATRs) were performed. The traffic analyses performed included the determination of the ADT, an evaluation of travel speed, and the classification of vehicles. The traffic counts were performed by Innovative Data LLC in February 2012.

1. Traffic Count Data

a. ATR Counts

ATR counts were conducted at representative points along the project corridor during a 48 hour period. The locations are as follows: Route 9-West of Pierce Road and Route 9-West of Rock House Reservation. The ATR counts located on West Main Street also recorded vehicle classification and travel speeds. Copies of the ATR traffic counts are included in Appendix A.

Average Daily Traffic was computed from the traffic counts at the specified locations. A summary of raw traffic count data is presented in Table 3. The percentage of trucks was determined to be approximately 2% at both locations.

Table 3 – ATR Raw Traffic Count Data

Location	2012 ADT
Route 9 – West of Rock House Reservation:	4,471 vpd
Route 9 – West of Pierce Road:	4,534 vpd

2. Base Year Traffic Volumes

Traffic volume data collected during a single period may be influenced by a number of factors, including weather, time of year, construction detours, traffic delays, etc. In order to accurately assess traffic counts conducted during a specific period, record traffic data near the project area must be considered to predict annual average daily traffic conditions. One such factor that must be considered is seasonal variations to determine whether the traffic count data must be adjusted up or down to reflect average daily conditions.

a. Seasonal Factors

Based on a review of the monthly average daily traffic at nearby MassDOT continuous count stations, the average daily traffic in the month of February is much lower than the average annual daily traffic. At continuous count station #3329 located on Route 20 east of Holland Road in Brimfield, the average daily traffic volumes for the month of February were 19% below the average annual daily traffic volumes from 2007 to 2009. Therefore, the raw traffic count data was adjusted upwards by a factor of 1.19 to present the average annual daily traffic. This data is presented in Table 4 below.

Table 4 – Adjusted Traffic Count Data

	2012
Location	ADT
Route 9 – West of Rock House Reservation:	5,300 vpd
Route 9 – West of Pierce Road:	5,400 vpd

3. Future Year Traffic Volumes

For the purposes of design, it is necessary to project present day traffic volume data to a future design year. It is common practice to project traffic volumes 20 years into the future for the construction of roadways. To project traffic volumes to a future design year it is necessary to consider factors that may result in increased traffic, such as population growth and proposed development. Population growth is considered to be a component of the annual background growth rate.

a. Annual Background Growth Rate

As part of the on-going work with MassDOT and the Executive Office of Transportation, the Central Massachusetts Regional Planning Commission (CMRPC) has conducted traffic counts in various years, shown on Table 5, along Route 9 at the Ware Town line. The traffic data available from CMRPC indicates that, although traffic may fluctuate on a short term basis, over a longer duration, traffic on Route 9 increased by approximately 0.5% per year. The data found is

shown in Table 5. Considering this data, an annual background growth rate of 0.5% has been assumed.

Table 5 – CMRPC Historic Factored Traffic Count Data –
Route 9 at Ware Town Line

Location	1988	1998	2001	2004	2010
Route 9 (West Main St.) –	4,733	4,436	4,429	5,344	5,336
At Ware Town Line (vpd)					

b. Other Specific Development

Coler & Colantonio, Inc. contacted the Town of West Brookfield Planning Board to determine if there are any proposed developments or improvements in the vicinity of West Main Street that would affect the current traffic volumes along Route 9 between Pierce Road and the Ware Town Line. At this time, there are no known proposed developments or improvements that will impact traffic volumes within the project area. An annual growth rate of 0.5% was applied to the adjusted traffic count data for a period of 20 years to obtain the projected design year traffic volumes as presented in Table 6.

Table 6 –2032 Projected Traffic Volumes

Location	2032 ADT
Route 9 – West of Rock House Reservation:	5,900 vpd
Route 9 – West of Pierce Road:	6,000 vpd

1. Crash Analysis

Accident data from 2007 to 2010 for the project roadways was compiled from MassDOT's accident records for the Town of West Brookfield and from the West Brookfield Police Department. Table 7 provides a summary of these accidents.

Table 7 – Accident Summary 2007-2010

	West Main Street Corridor	West Main Street at Shoreline Drive	West Main Street at Pierce Rd/ Mill Rd
Year			
2007	1	2	1
2008	2	1	1
2009	0	0	0
2010	1	0	0
Total	4	3	2
Type			
Angle	1	0	0
Head-on	0	0	0
Rear-end	0	0	0
Sideswipe	0	0	0
Single Vehicle Crash	3	2	2
Pedestrian	0	0	0
Unknown	0	1	0
Total	4	3	2
Severity			
Property Damage	2	2	2
Personal Injury	2	1	0
Fatality	0	0	0
Hit & Run	0	0	0
Unknown	0	0	0
Lighting			
Daylight	1	2	2
Dusk	1	0	0
Dark - Lighted Road	0	0	0
Dark - Unlit Road	2	1	0
Dawn	0	0	0
Unknown	0	0	0
Conditions			
Dry	2	0	1
Wet	0	0	0
Ice/snow	1	0	0
Slush	0	0	0
Unknown	1	3	1
Time of Day			
7:00 – 9:00 AM	0	1	1
4:00 – 6:00 PM	1	0	0
Remainder of day	3	2	1

9

During the 4 year study period, nine (9) incidents were reported along Route 9 within the project limits, five (5) of which were reported at intersections within the project area. Most of the incidents were single vehicle accidents. About one-third of the reported accidents had a personal injury with the other six resulting in property damage. About half of the accidents occurred during the day and a majority of the accidents had no conditions listed. Between 2007 and 2010 there were approximately 20 accidents reported somewhere along West Main Street (Route 9) that were not included in this crash summary. These accident reports did not indicate a specific location and therefore were not able to be confirmed to be within the project limits. Also, not in this analysis, in 2001 there was an accident resulting in a fatality that occurred along this stretch of Route 9.

2. Crash Rate Worksheets

A Crash Rate Worksheet has been prepared for the Route 9 corridor between the Ware town line and Pierce Road.

Since the characteristics of Route 9 are consistent along the 2.1 mile projects a segment crash rate worksheet has been prepared for the length of the project and is included in the appendix. Based on an average daily traffic volume compiled from two count locations on West Main Street within the project limits, a crash rate of 0.55 crashes per million vehicle miles traveled (MVMT) was calculated. MassDOT's statewide average segment crash rate is 0.41 for rural principal arterial roadway classification. This calculation indicates that this section of West Main Street is slightly above the average segment crash rate for rural principal arterial roadways.

3. Initial Safety Review

The safety review prompt list has been analyzed and discussions of topics applicable to this project have been included in their respective sections. Within the project limits there are three minor intersections. All are three-way intersections, with Shoreline Drive and Coys Hill Road intersecting Route 9 at skewed angles. Pierce Road intersects at a 90° angle. Five accidents occurred at these intersections; three at Shoreline Drive, which is a private road, two at Pierce Road and zero at Coys Hill Road. Four of the five accidents were single vehicle crashes suggesting that traffic volume and turning movements are not major issues along this project.

The remaining four accidents along this corridor occurred away from the intersections. Three of these accidents were single vehicle accidents. There are two possible reasons for these accidents; operator error or roadway conditions. At least one of the accidents along the corridor is known to be the result of operator error, where in this case the driver fell asleep behind the wheel. It is unclear whether operator error or roadway conditions were the primary factors in the other three incidents. Route 9 is a winding roadway with steep grades, a narrow width and no roadway lighting. Additionally, the lack of drainage infrastructure results in storm water runoff sheet flowing across the roadway causing icy conditions during winter months. All of these factors and the penchant for bicyclists to be riding along this route creates the need for a roadway widening and restructuring.

4. Road Safety Audit

A Road Safety Audit for Route 9 (West Main Street) between the Ware Town Line and Pierce Road was held on December 5, 2012 at the West Brookfield Town Hall in West Brookfield, MA. Audit participants were asked to discuss safety issues along the Route 9 corridor between the Ware Town Line and Pierce Road. Audit participants noted safety issues and contributing factors along the project corridor. A summary of those major safety considerations and how CHA has addressed each potential enhancement can be found on Tables 8~11:

Table 8 – Safety Enhancement Summary – Shoulder/Visibility

	Table 6 - Safety Edinancement Summary - Shoulder, 4 islamity
Issue	Shoulder/Visibility (including all secondary issues)
RSA Enhancement	Widen shoulders along Route 9 between the Ware Town Line and Pierce Road. The width of shoulders should be determined based in part on a cost/benefit analysis performed using the quantitative measures for determining crash reductions included in the Highway Safety Manuals.
CHA Response	12' Travel Lanes and 5' minimum shoulders are proposed throughout the Project Limits.
Issue	Shoulder/Visibility, Emergency Vehicles
RSA Enhancement	Consider gravel or grass clear areas off the roadway for vehicles to pull off.
CHA Response	12' wide gravel turn outs are currently proposed at 2 locations along project corridor. Throughout the project 1' minimum level area consisting of milling mulch is proposed along both edges of the roadway.
Issue	Shoulder/Visibility, Roadside Obstructions
RSA Enhancement	Increase the proposed guardrail setback in areas where guardrail may restrict visibility.
CHA Response	Proposed Road Widening with minimum 5' wide shoulders will increase setback distance and improve visibility.
Issue	Roadside Obstructions
RSA Enhancement	Consider reflectors along the proposed guardrail.
CHA Response	Proposed guardrail along project corridor will be equipped with Demountable reflectorized delineators
Issue	Shoulder/Visibility, Roadside Obstructions
RSA Enhancement	Implement selective ledge removal in the proposed project.
CHA Response	Ledge removal is proposed in order to achieve lane and shoulder widening requirements, which will result in improved sight distance and safety.

Table 9 – Safety Enhancement Summary – Drainage

Issue	Drainage, Snow/Ice
RSA	Provide additional drainage basins along Route 9 and locate all basins in the roadway along the gutter
Enhancement	line.
СНА	Additional Catch Basins are being proposed along West Main Street Corridor.
Response	Additional Catch Dashis are being proposed along West Main Street Corridor.
Issue	Drainage
RSA	Verify adequate superelevation transitions in reverse curves in the proposed design, and confirm that
Enhancement	drainage basins are placed to prevent cross-roadway sheet flow.
СНА	Superelevation transitions in reverse curves have been confirmed to have adequate transitions,
Response	drainage basins have been proposed at locations to prevent cross-roadway sheet flow.
Issue	Drainage
RSA	Provide a shoulder break along the roadway to keep storm water flow in the roadway gutter.
Enhancement	1 Provide a shoulder oreak along the roadway to keep storm water flow in the roadway guiter.
СНА	Shoulder grade breaks have been proposed to keep storm water flow in the roadway gutters.
Response	Shoulder grade oreaks have been proposed to keep storm water now in the roadway gutters.

 $Table\ 10-Safety\ Enhancement\ Summary-Signage/Striping$

Issue	Signage, Snow/Ice		
RSA	Consider "Low Salt Area" signage. (This improvement is not recommended at the current time by		
Enhancement	the audit team, but should be considered in the future if crashes persist.)		
СНА	Signage for low salt areas will be considered and implemented at the direction of the town and or		
Response	MassDOT review sections.		
Issue	Bicycle Accommodation, Signage		
RSA	Provide "Share The Road" signage at each end of the study corridor.		
Enhancement	Trovide Shale the Roll Signage at each old of the study corridor.		
СНА	Changetha mand sings are appropriate and of the project		
Response	Share the road signs are proposed at each end of the project.		
Issue	Signage Provide ourse yearing signs with advisory angels and showen arrows along Pouts 0 within the		
RSA Enhancement	Provide curve warning signs with advisory speeds and chevron arrows along Route 9 within the project limits.		
CHA	project minus.		
Response	Curve warning signs have been provided where warranted per the MUTCD guidelines.		
Issue	Signage		
RSA			
Enhancement	Provide a "Road Narrows" sign on Route 9 eastbound at the Ware town line.		
СНА	"Road Narrows" signs have not been added as the proposed roadway width is transitioning by		
Response	approximately 2 feet in this area.		
Issue	Signage		
RSA	Replace the existing "Steep Downgrade" sign with a W7-1 Hill warning sign.		
Enhancement			
CHA Response	Proposed W7-1 is currently being proposed at station 64+49 LT		
Response			
Iccue	Signogo		
Issue PSA	Signage Relocate the advance guide sign for Poute 32 and consider adding a supplemental distance to the		
RSA	Relocate the advance guide sign for Route 32 and consider adding a supplemental distance to the		
RSA Enhancement	Relocate the advance guide sign for Route 32 and consider adding a supplemental distance to the sign.		
RSA	Relocate the advance guide sign for Route 32 and consider adding a supplemental distance to the		
RSA Enhancement CHA	Relocate the advance guide sign for Route 32 and consider adding a supplemental distance to the sign. Signs D6-1 and D8-1 are currently proposed in the West bound direction.		
RSA Enhancement CHA Response	Relocate the advance guide sign for Route 32 and consider adding a supplemental distance to the sign. Signs D6-1 and D8-1 are currently proposed in the West bound direction. Signage		
RSA Enhancement CHA Response Issue RSA Enhancement	Relocate the advance guide sign for Route 32 and consider adding a supplemental distance to the sign. Signs D6-1 and D8-1 are currently proposed in the West bound direction.		
RSA Enhancement CHA Response Issue RSA Enhancement	Relocate the advance guide sign for Route 32 and consider adding a supplemental distance to the sign. Signs D6-1 and D8-1 are currently proposed in the West bound direction. Signage Provide intersection warning signs in advance of Shoreline Drive and Pierce Road.		
RSA Enhancement CHA Response Issue RSA Enhancement CHA Response	Relocate the advance guide sign for Route 32 and consider adding a supplemental distance to the sign. Signs D6-1 and D8-1 are currently proposed in the West bound direction. Signage Provide intersection warning signs in advance of Shoreline Drive and Pierce Road. Intersection warning signs have been added to the plans as required per MUTCD guidelines.		
RSA Enhancement CHA Response Issue RSA Enhancement CHA Response	Relocate the advance guide sign for Route 32 and consider adding a supplemental distance to the sign. Signs D6-1 and D8-1 are currently proposed in the West bound direction. Signage Provide intersection warning signs in advance of Shoreline Drive and Pierce Road.		
RSA Enhancement CHA Response Issue RSA Enhancement CHA Response Issue RSA	Relocate the advance guide sign for Route 32 and consider adding a supplemental distance to the sign. Signs D6-1 and D8-1 are currently proposed in the West bound direction. Signage Provide intersection warning signs in advance of Shoreline Drive and Pierce Road. Intersection warning signs have been added to the plans as required per MUTCD guidelines.		
RSA Enhancement CHA Response Issue RSA Enhancement CHA Response Issue RSA Enhancement	Relocate the advance guide sign for Route 32 and consider adding a supplemental distance to the sign. Signs D6-1 and D8-1 are currently proposed in the West bound direction. Signage Provide intersection warning signs in advance of Shoreline Drive and Pierce Road. Intersection warning signs have been added to the plans as required per MUTCD guidelines. Signage Replace the existing street name sign for Pierce Road.		
RSA Enhancement CHA Response Issue RSA Enhancement CHA Response Issue RSA Enhancement CHA Response	Relocate the advance guide sign for Route 32 and consider adding a supplemental distance to the sign. Signs D6-1 and D8-1 are currently proposed in the West bound direction. Signage Provide intersection warning signs in advance of Shoreline Drive and Pierce Road. Intersection warning signs have been added to the plans as required per MUTCD guidelines. Signage		
RSA Enhancement CHA Response Issue RSA Enhancement CHA Response Issue RSA Enhancement	Relocate the advance guide sign for Route 32 and consider adding a supplemental distance to the sign. Signs D6-1 and D8-1 are currently proposed in the West bound direction. Signage Provide intersection warning signs in advance of Shoreline Drive and Pierce Road. Intersection warning signs have been added to the plans as required per MUTCD guidelines. Signage Replace the existing street name sign for Pierce Road. All Street Name Signs are proposed for replacement within MUTCD 2009 EDITION Guidelines		
RSA Enhancement CHA Response Issue RSA Enhancement CHA Response Issue RSA Enhancement CHA Response	Relocate the advance guide sign for Route 32 and consider adding a supplemental distance to the sign. Signs D6-1 and D8-1 are currently proposed in the West bound direction. Signage Provide intersection warning signs in advance of Shoreline Drive and Pierce Road. Intersection warning signs have been added to the plans as required per MUTCD guidelines. Signage Replace the existing street name sign for Pierce Road. All Street Name Signs are proposed for replacement within MUTCD 2009 EDITION Guidelines Signage		
RSA Enhancement CHA Response Issue RSA Enhancement CHA Response Issue RSA Enhancement CHA Response Issue RSA Enhancement CHA Response	Relocate the advance guide sign for Route 32 and consider adding a supplemental distance to the sign. Signs D6-1 and D8-1 are currently proposed in the West bound direction. Signage Provide intersection warning signs in advance of Shoreline Drive and Pierce Road. Intersection warning signs have been added to the plans as required per MUTCD guidelines. Signage Replace the existing street name sign for Pierce Road. All Street Name Signs are proposed for replacement within MUTCD 2009 EDITION Guidelines		
RSA Enhancement CHA Response Issue RSA	Relocate the advance guide sign for Route 32 and consider adding a supplemental distance to the sign. Signs D6-1 and D8-1 are currently proposed in the West bound direction. Signage Provide intersection warning signs in advance of Shoreline Drive and Pierce Road. Intersection warning signs have been added to the plans as required per MUTCD guidelines. Signage Replace the existing street name sign for Pierce Road. All Street Name Signs are proposed for replacement within MUTCD 2009 EDITION Guidelines Signage Replace mile marker signage along the corridor.		
RSA Enhancement CHA Response Issue RSA Enhancement CHA Response Issue RSA Enhancement CHA Response Issue RSA Enhancement CHA Response	Relocate the advance guide sign for Route 32 and consider adding a supplemental distance to the sign. Signs D6-1 and D8-1 are currently proposed in the West bound direction. Signage Provide intersection warning signs in advance of Shoreline Drive and Pierce Road. Intersection warning signs have been added to the plans as required per MUTCD guidelines. Signage Replace the existing street name sign for Pierce Road. All Street Name Signs are proposed for replacement within MUTCD 2009 EDITION Guidelines Signage		
RSA Enhancement CHA Response Issue RSA Enhancement CHA Response Issue RSA Enhancement CHA Response RSA Enhancement CHA Response CHA Response Issue CHA Response	Relocate the advance guide sign for Route 32 and consider adding a supplemental distance to the sign. Signs D6-1 and D8-1 are currently proposed in the West bound direction. Signage Provide intersection warning signs in advance of Shoreline Drive and Pierce Road. Intersection warning signs have been added to the plans as required per MUTCD guidelines. Signage Replace the existing street name sign for Pierce Road. All Street Name Signs are proposed for replacement within MUTCD 2009 EDITION Guidelines Signage Replace mile marker signage along the corridor.		
RSA Enhancement CHA Response Issue RSA Enhancement Issue RSA Enhancement RSA Enhancement RSA	Relocate the advance guide sign for Route 32 and consider adding a supplemental distance to the sign. Signs D6-1 and D8-1 are currently proposed in the West bound direction. Signage Provide intersection warning signs in advance of Shoreline Drive and Pierce Road. Intersection warning signs have been added to the plans as required per MUTCD guidelines. Signage Replace the existing street name sign for Pierce Road. All Street Name Signs are proposed for replacement within MUTCD 2009 EDITION Guidelines Signage Replace mile marker signage along the corridor. Existing mile marker signs throughout the project have been proposed to be replaced. Pavement Markings		
RSA Enhancement CHA Response RSA Enhancement CHA Response Issue RSA Enhancement CHA Response Issue RSA Enhancement CHA Response Issue RSA Enhancement Issue RSA Enhancement CHA Response	Relocate the advance guide sign for Route 32 and consider adding a supplemental distance to the sign. Signs D6-1 and D8-1 are currently proposed in the West bound direction. Signage Provide intersection warning signs in advance of Shoreline Drive and Pierce Road. Intersection warning signs have been added to the plans as required per MUTCD guidelines. Signage Replace the existing street name sign for Pierce Road. All Street Name Signs are proposed for replacement within MUTCD 2009 EDITION Guidelines Signage Replace mile marker signage along the corridor. Existing mile marker signs throughout the project have been proposed to be replaced.		
RSA Enhancement CHA Response Issue RSA Enhancement Issue RSA Enhancement RSA Enhancement RSA	Relocate the advance guide sign for Route 32 and consider adding a supplemental distance to the sign. Signs D6-1 and D8-1 are currently proposed in the West bound direction. Signage Provide intersection warning signs in advance of Shoreline Drive and Pierce Road. Intersection warning signs have been added to the plans as required per MUTCD guidelines. Signage Replace the existing street name sign for Pierce Road. All Street Name Signs are proposed for replacement within MUTCD 2009 EDITION Guidelines Signage Replace mile marker signage along the corridor. Existing mile marker signs throughout the project have been proposed to be replaced. Pavement Markings		

 $Table\ 11-Safety\ Enhancement\ Summary-Miscellaneous$

Issue	Speeding	
RSA Enhancement	Increase enforcement for speeding along the corridor.	
СНА		
Response	Speed Limit Signs are proposed along project corridor.	
Issue	Driver Fatigue	
RSA Enhancement	Provide a centerline rumble strip along the project corridor	
СНА	Rumble Strips are not proposed due to maintenance concerns of West Brookfield Highway	
Response	Department.	
Issue	Trees	
RSA Enhancement	Selectively trim trees along the roadway corridor.	
CHA Response	Extensive clearing will be required to facilitate lane/shoulder widening requirements.	
Issue	Truck Traffic	
RSA Enhancement	Provide 12-foot lanes to accommodate truck traffic.	
CHA Response	Proposed 12' Travel lanes with Minimum 5' Shoulders satisfy this condition.	

5. Post Road Safety Audit Review 2013-2015

Accident data from 2013 to 2015 for the project roadways was compiled from the Town of West Brookfield's Police Department. Table 11 provides a summary of the additional nine accidents.

Table 12 – Accident Summary 2013-2015

	West Main Street Corridor	West Main Street at Shoreline Drive	West Main Street at Pierce Rd/ Mill Rd
Year			
2013	3	0	1
2014	3	0	0
2015	2	0	0
Total	8	0	1
Type			
Angle	0	0	1
Head-on	1	0	0
Rear-end	1	0	0
Sideswipe	0	0	0
Single Vehicle Crash	3	0	0
Pedestrian	0	0	0
Unknown	3	0	0
Total	8	0	1
Severity			
Property Damage	0	0	0
Personal Injury	4	0	1
Fatality	0	0	0
Hit & Run	0	0	0
Unknown	4	0	0
Lighting			
Daylight	6	0	0
Dusk	1	0	1
Dark - Lighted Road	0	0	0
Dark – Unlit Road	0	0	0
Dawn	1	0	0
Unknown	0	0	0
Conditions			
Dry	5	0	1
Wet	0	0	0
Ice/snow	2	0	0
Slush	0	0	0
Unknown	1	0	0
Time of Day			
7:00 – 9:00 AM	0	0	0
4:00 – 6:00 PM	1	0	1
Remainder of day	7	0	0

These recent accidents are consistent in nature with the accidents referenced for the road safety audit. Accidents include several single vehicle roadway departure crashes and a wildlife related collisions. A copy of the MassDOT accident reports for these collisions is included in the appendix.

1. Modified Geometry

The proposed roadway closely follows the existing alignments in order to minimize impacts to adjacent properties and environmental resource areas. Vertically, only minor grade adjustments are proposed. Based on the large amount of ledge present, significant vertical alignment change would result in increased cost. The box widening proposed to provide a standard roadway width will be the greatest geometrical improvement.

Proposed Pavement Improvement Program

The existing pavement thickness on Route 9 is adequate and most of the pavement deficiencies are surficial. Therefore the proposed pavement rehabilitation technique is mill and overlay. The recommended pavement rehabilitation program includes variable depth pavement micromilling along the entire length of the corridor and resurfacing with 1.75 inches hot mix asphalt surface course over 1.75 inches of hot mix asphalt intermediate course. The proposed pavement structure for the box widening and isolated full depth reconstruction areas has been designed to meet MassDOT's minimum pavement section for arterial roadways including: 1.75 inches HMA surface course over 1.75 inches HMA intermediate course over 2.5 inches HMA base course over 12 inches of gravel borrow.

Proposed Cross Section

The proposed cross section for the 2.1 mile stretch of Route 9 from Ware town line to Pierce road is to be widened to maintain a minimum 34 foot roadway width for the entire length of the project. There will be a minimum 5-foot shoulder on each side of the roadway. Where superelevation is present there will be a high side break or "crown" one foot outside the travel lane to prevent snow or rain flow across the road. At the westerly limit of work, the roadway width will gradually transition to 40 feet to meet the existing pavement joint at the Ware town line. Also, near the westerly limit of work six double drainage inlets are to be moved into the shoulder of the roadway. HMA berm is proposed along both side of the roadway for most of the project. Guardrail is also proposed to be removed and reset or replaced where necessary for roadway safety.

2. Bicycle Accommodation

The proposed improvements for bicycle accommodation include widening the road to a minimum width of 34 feet for cyclist safety. A solid white edge line is proposed to define the outer edge of the travel lanes and delineate a zone for bicycle travel. The proposed shoulder is to be increased to 5 feet wide along both sides of the roadway. There are no sidewalks proposed along this stretch of Route 9 because there are no pedestrian destinations within the project limits nor are there pedestrian accommodations at either end of the project.

3. Safety Enhancements

The proposed roadway work will widen the existing pavement width by about 5 feet to accommodate vehicular and bicycle users. The wider width will permit a high side break line to be constructed on superelevated curve to prohibit snow melt from sheet flowing across the roadway and refreezing. Solid white edge lines will be painted to better define the 12 foot travelway and provide a minimum 5 foot wide zone for bicyclists at the edge of the roadway. All roadway striping will be reflectorized thermoplastic paint for traveler visibility. All signs will be replaced in accordance with MUTCD standards. Broken guardrail will be removed and guardrail will be installed where needed along the roadway for vehicle safety. Full depth reconstruction and box widening of the roadway will be graded to eliminate steep roadway and shoulder cross slopes.

4. Work By Others

There are overhead telephone, electrical and cable lines running between utility poles along the eastern most 3000 feet of the project. Utility poles will need to be relocated due to the proposed roadway widening. The work required to relocate utility poles and overhead wires is proposed to be done by the respective utility purveyors.

F. Traffic Management

1. Construction Management Outline

The traffic management plan most suitable for this project during construction is one lane with alternating traffic and a single lane closure. Neither of the other two common methods, use of a detour or a two lane shift is plausible for this project. A detour on this project would be a long diversion and add too much to travel time. Since there are routes for local traffic where a detour may be possible, traveling narrow residential roads, variable message boards may be used to alert knowledgeable drivers to take advantage of that option. A two lane shift is implausible due to the alignment of the narrow winding road.

The traffic volumes within the project limits support a one lane closure. As stated in chapter 17 (Exhibit 17-4) of MassDOT Project Development and Design Guide a single lane closure on a two lane roadway has an estimated capacity of up to 1,340 vehicles per hour. Route 9 in West Brookfield has a peak hour volume of approximately 450 vehicles per hour.

a. Traffic Count Data

ATR counts were conducted at two (2) locations along the project corridor during a 48 hour period during February 2012 as follows: West Main Street, west of Rock House Reservation and West Main Street, west of Pierce Road. A third count location on West Main Street at the Ware Town line was performed by the Central Massachusetts Regional Planning Commission during July 2010. The ATR counts located on West Main Street also recorded vehicle classification, travel speeds, and bikes. Copies of the ATR traffic counts are included in the Appendix.

Average Daily Traffic (ADT) was computed from the traffic counts at the specified locations. A summary of ADT's is presented in Table 4. Both ATR counts located on West Main Street exhibited a peak hour volume between 400-450 vehicles per hour. The percentage of trucks was determined to be about 2% for all locations and counts.

Appendix A Traffic Count Data

- 48 Hour Automatic Traffic Recorder Counts
- 48 Hour Automatic Traffic Recorder Counts with Speeds

Traffic Count Data

48 Hour Automatic Traffic Recorder Counts

Location: Route 9

Location: West of Pierce Road

50 Alden Avenue Belchertown, MA 01007

413.668.5094 or www.datayourequested.com

City, State: West Brookfield, Massachusetts Client: Coler & Colantonio / J. Morgan

Start	01-Feb-12		stbound		tbound		nbined	02-Feb-		tbound		tbound		oined
Time	Wed	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	Thu	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.
12:00		1	30	2	40	3	70		3	36	4	43	7	
12:15		1	26	3	34	4	60		2	25	3	43	5	
12:30		1	32	3	33	4	65		2	37	2	36	4	
12:45		1	51	0	33	1	84		2	30	2	40	4	
01:00		1	27	1	35	2	62		4	30	0	39	4	
01:15		2	33	0	30	2	63		4	40	1	41	5	
01:30		1	38	1	42	2	80		1	39	1	28	2	
01:45		2	15	0	33	2	48		0	35	0	44	0	
02:00		1	35	2	27	3	62		1	24	0	31	1	
02:15		0	43	0	41	0	84		3	47	0	44	3	
02:30		3	33	0	43	3	76		1	34	1	46	2	
02:45		3	43	1	46	4	89		0	43	1	46	1	
03:00		2	50	2	41	4	91		1	52	1	35	2	
03:00		1	50	1	44	2	94		1	50	3	48	4	
03:30			72	0		0				50	0			
		0 1			45		117		2		1	50	2	1
03:45		-	33	3	40	4	73		3	48		42	4	
04:00		2	44	1	53	3	97		4	45	2	58	6	1
04:15		3	53	3	65	6	118		3	51	2	49	5	1
04:30		0	45	8	49	8	94		2	42	8	55	10	
04:45		2	50	4	58	6	108		5	68	2	59	7	1
05:00		4	47	5	50	9	97		5	52	9	40	14	
05:15		10	46	13	37	23	83		4	45	12	48	16	
05:30		6	49	23	51	29	100		6	46	25	43	31	
05:45		14	30	23	31	37	61		13	39	18	46	31	
06:00		22	32	20	43	42	75		16	49	18	41	34	
06:15		27	44	22	33	49	77		29	51	19	36	48	
06:30		23	27	34	29	57	56		29	32	30	27	59	
06:45		28	27	35	28	63	55		28	28	31	29	59	
07:00		39	25	29	29	68	54		31	23	49	30	80	
07:15		29	18	37	47	66	65		30	20	29	17	59	
07:30		45	15	34	22	79	37		47	15	35	25	82	
07:45		51	10	30	16	81	26		36	18	31	23	67	
08:00		53	15	28	24	81	39		40	12	35	16	75	
08:15		37	18	22	22	59	40		50	15	27	20	77	
		26									39		69	
08:30			11	33	17	59	28		30	13		20		
08:45		34	15	28	18	62	33		36	13	22	15	58	
09:00		24	11	23	17	47	28		36	12	29	14	65	
09:15		26	10	24	13	50	23		40	8	30	10	70	
09:30		36	9	29	8	65	17		39	12	29	14	68	
09:45		41	13	28	20	69	33		41	17	37	17	78	
10:00		34	10	29	11	63	21		35	5	34	12	69	
10:15		37	7	33	9	70	16		45	12	24	23	69	
10:30		28	6	35	4	63	10		32	2	29	12	61	
10:45		30	3	39	6	69	9		36	4	32	6	68	
11:00		32	14	26	6	58	20		31	9	27	3	58	
11:15		32	6	28	5	60	11		37	3	35	2	72	
11:30		42	2	31	7	73	9		45	8	34	6	79	
11:45		29	5	29	3	58	8		31	7	34	5	65	
Total		867	1328	805	1438	1672	2766		922	1396	837	1477	1759	28
Day Tota	ı		95		243		38			318		314	463	
% Total		19.5%	29.9%	18.1%	32.4%			•	19.9%	30.1%	18.1%	31.9%	400	_
Peak		07:30	02:45	10:00	04:00	07:15	04:00		07:30	04:15	06:45	04:00	07:30	04
Vol.		186	215	136	225	307	417		173	213	144	221	301	2
P.H.F.		0.877	0.747	0.872	0.865	0.948	0.883		0.865	0.783	0.735	0.936	0.918	0.8
1 .1 1.1 .		0.011	0.747	0.012	0.000	0.340	0.000		0.000	0.700	0.733	0.330	0.510	0.0

Location: Route 9

Location: West of Pierce Road

City, State: West Brookfield, Massachusetts Client: Coler & Colantonio / J. Morgan

<u>Nestbound</u> Start		Cars &	2 Axle		2 Axle	3 Axle	4 Axle	<5 AxI	5 Axle	>6 AxI	<6 AxI	6 Axle	>6 AxI	Not	
Time	Bikes	Trailers	Long	Buses	6 Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Classed	Total
02/01/12	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4
01:00	0	4	1	0	0	0	0	0	1	0	0	0	0	0	6
02:00	0	6	1	0	0	0	0	0	0	0	0	0	0	0	7
03:00	0	3	1	0	0	0	0	0	0	0	0	0	0	0	4
04:00	0	5	2	0	0	0	0	0	0	0	0	0	0	0	7
05:00	0	21	12	0	1	0	0	0	0	0	0	0	0	0	34
06:00	0	78	18	1	1	1	0	0	0	0	0	0	0	1	100
07:00	0	132	21	0	3	1	0	0	4	0	0	0	0	3	164
08:00	0	115	26	2	3	0	0	0	0	1	0	0	0	3	150
09:00	0	98	15	1	4	1	0	0	5	0	0	0	0	3	127
10:00	1	97	23	1	4	1	0	0	0	0	0	0	0	2	129
11:00	1	108	13	0	4	1	0	0	5	1	0	0	0	2	135
12 PM	0	107	21	0	6	0	0	0	0	0	0	0	0	5	139
13:00	0	88	12	0	3	1	0	3	3	0	0	0	0	3	113
14:00	0	128	17	1	2	0	0	0	1	0	0	0	0	5	154
15:00	0	164	29	1	3	0	0	0	0	1	0	0	0	7	205
16:00	2	150	24	1	5	3	0	2	1	0	0	0	0	4	192
17:00	0	126	38	0	1	0	0	1	1	0	0	0	0	5	172
18:00	0	106	16	0	3	0	0	1	1	0	0	0	0	3	130
19:00	2	56	8	0	0	0	0	0	0	0	0	0	0	2	68
20:00	0	47	11	0	0	1	0	0	0	0	0	0	0	0	59
21:00	0	36	4	0	2	1	0	0	0	0	0	0	0	0	43
22:00	0	21	5	0	0	0	0	0	0	0	0	0	0	0	26
23:00	0	22	4	0	0	0	0	0	0	0	0	0	0	1	27
Total	6	1722	322	8	45	11	0	7	22	3	0	0	0	49	2195
Percent	0.3%	78.5%	14.7%	0.4%	2.1%	0.5%	0.0%	0.3%	1.0%	0.1%	0.0%	0.0%	0.0%	2.2%	
AM Peak	10:00	07:00	08:00	08:00	09:00	06:00			09:00	08:00				07:00	
Vol.	1	132	26	2	4	1 10 00		10.00	5	1 1				3	
PM Peak	16:00	15:00	17:00	14:00	12:00	16:00		13:00	13:00	15:00				15:00	
Vol.	2	164	38	1	6	3		3	3	1				7	

Location: Route 9

Location: West of Pierce Road

City, State: West Brookfield, Massachusetts Client: Coler & Colantonio / J. Morgan

0.3%

Percent

78.9%

14.4%

0.4%

2.0%

0.6%

0.0%

50 Alden Avenue Belchertown, MA 01007 413.668.5094 or www.datayourequested.com

Westbound Start		Cars &	2 Axle		2 Axle	3 Axle	4 Axle	<5 AxI	5 Axle	>6 Axl	<6 Axl	6 Axle	>6 Axl	Not	
Time	Bikes	Trailers	Long	Buses	6 Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Classed	Total
02/02/12	0	7	0	1	0	0	0	0	0	0	0	0	0	1	
01:00	0	7	2	0	0	0	0	0	0	0	0	0	0	0	g
02:00	0	4	1	0	Ö	Ō	0	0	0	0	0	Ö	0	0	5
03:00	0	5	1	0	0	0	0	0	1	0	0	0	0	0	7
04:00	0	12	2	0	0	0	0	0	0	0	0	0	0	0	14
05:00	0	14	13	0	0	0	0	1	0	0	0	0	0	0	28
06:00	0	75	18	1	3	3	0	1	0	0	0	0	0	1	102
07:00	0	116	16	0	4	2	0	0	5	0	0	0	0	1	144
08:00	1	126	21	0	3	2	0	1	1	0	0	0	0	1	156
09:00	0	114	26	0	3	3	0	0	5	0	0	0	0	5	156
10:00	0	123	16	1	3	1	0	0	2	1	0	0	0	1	148
11:00	1	113	19	0	4	0	0	2	3	0	0	0	0	2	144
12 PM	1	104	15	1	4	1	0	2	0	0	0	0	0	0	128
13:00	0	113	23	0	2	1	0	1	3	0	0	0	0	1	144
14:00	0	117	22	3	3	1	0	0	1	0	0	0	0	1	148
15:00	0	150	30	3	7	0	0	1	1	0	0	0	0	8	200
16:00	2	168	30	0	3	0	0	0	0	0	0	0	0	3	206
17:00	0	145	30	0	2	0	0	0	0	0	0	0	0	5	182
18:00	2	136	19	0	1	0	0	0	0	0	0	0	0	2	160
19:00	0	66	7	1	0	0	0	0	1	0	0	0	0	1	76
20:00	0	49	3	0	0	0	0	0	0	0	0	0	0	1	53
21:00	2	39	7	0	1	0	0	0	0	0	0	0	0	0	49
22:00	0	15	6	0	2	0	0	0	0	0	0	0	0	0	23
23:00	0	23	3	1	0	0	0	0	0	0	0	0	0	0	27
Total	9	1841	330	12	45	14	0	9	23	1	0	0	0	34	2318
Percent	0.4%	79.4%	14.2%	0.5%	1.9%	0.6%	0.0%	0.4%	1.0%	0.0%	0.0%	0.0%	0.0%	1.5%	
AM Peak	08:00	08:00	09:00	00:00	07:00	06:00		11:00	07:00	10:00				09:00	
Vol.	1	126	26	1	4	3		2	5	1				5	
PM Peak	16:00	16:00	15:00	14:00	15:00	12:00		12:00	13:00					15:00	
Vol.	2	168	30	3	7	1		2	3					8	
Grand Total	15	3563	652	20	90	25	0	16	45	4	0	0	0	83	4513
ı Olai															

0.4%

1.0%

0.1%

0.0%

0.0%

0.0%

1.8%

Location: Route 9

Location: West of Pierce Road

City, State: West Brookfield, Massachusetts Client: Coler & Colantonio / J. Morgan

Eastbound															
Start	D:1	Cars &	2 Axle		2 Axle	3 Axle	4 Axle	<5 AxI	5 Axle	>6 Axl	<6 Axl	6 Axle	>6 Axl	Not	.
Time	Bikes	Trailers	Long	Buses	6 Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Classed	Total
02/01/12	0	6	1	0	0	0	0	0	1	0	0	0	0	0	8
01:00	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
02:00	0	0	3	0	0	0	0	0	0	0	0	0	0	0	3
03:00	0	3	2	0	0	0	0	0	1	0	0	0	0	0	6
04:00	0	11	3	0	2	0	0	0	0	0	0	0	0	0	16
05:00	0	44	15	1	3	0	0	0	1	0	0	0	0	0	64
06:00	0	73	24	0	11	0	0	1	2	0	0	0	0	0	111
07:00	0	83	28	1	12	0	0	1	2	0	0	0	0	3	130
08:00	0	69	27	0	8	0	1	0	5	0	0	0	0	1	111
09:00	0	72	23	2	5	0	0	0	1	0	0	0	0	1	104
10:00	0	81	30	2	14	0	0	0	3	0	0	0	0	6	136
11:00	1	70	27	2	6	0	0	2	2	0	0	0	0	4	114
12 PM	0	87	33	3	9	3	0	0	2	1	0	0	0	2	140
13:00	0	86	39	1	13	0	0	0	0	0	0	0	0	1	140
14:00	1	98	34	3	11	1	1	3	4	0	0	0	0	1	157
15:00	1	104	47	2	11	1	0	1	1	0	0	0	0	2	170
16:00	2	149	43	0	21	0	0	4	0	0	0	0	0	6	225
17:00	0	122	30	0	9	0	0	2	1	0	0	0	0	5	169
18:00	2	80	40	0	7	0	0	0	1	0	0	0	0	3	133
19:00	0	72	35	0	5	0	0	0	0	0	0	0	0	2	114
20:00	0	57	16	0	6	1	0	0	0	0	0	0	0	1	81
21:00	0	43	14	0	1	0	0	0	0	0	0	0	0	0	58
22:00	0	25	5	0	0	0	0	0	0	0	0	0	0	0	30
23:00 Total	0 7	14	<u>5</u> 524	18	154	0	<u>0</u> 2	0 14	0 27	0	0	0	0	<u> </u>	21 2243
	=	1451	-	_		6					0	0	0	39	2243
Percent AM Peak	0.3%	64.7%	23.4% 10:00	0.8%	6.9%	0.3%	0.1%	0.6%	1.2%	0.0%	0.0%	0.0%	0.0%	1.7%	
Vol.	11:00	07:00 83	30	09:00 2	10:00 14		08:00	11:00 2	08:00 5					10:00 6	
PM Peak	16:00	63 16:00	15:00	12:00	16:00	12:00	14:00	16:00	14:00	12:00				16:00	
Vol.	16.00		47	12.00	21	3	14:00	16.00	14.00	12:00				16.00	
VOI.	2	149	47	3	21	3	1	4	4	Т				б	

Location: Route 9

Location: West of Pierce Road

City, State: West Brookfield, Massachusetts Client: Coler & Colantonio / J. Morgan

Start	5	Cars &	2 Axle	_	2 Axle	3 Axle	4 Axle	<5 Axl	5 Axle	>6 Axl	<6 Axl	6 Axle	>6 AxI	Not	
Time	Bikes	Trailers	Long	Buses	6 Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Classed	Total
02/02/12	0	8	1	0	1	0	0	0	1	0	0	0	0	0	11
01:00	0	1	1	0	0	0	0	0	0	0	0	0	0	0	2
02:00	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
03:00	0	2	2	0	1	0	0	0	0	0	0	0	0	0	5
04:00	0	10	2	0	2	0	0	0	0	0	0	0	0	0	14
05:00	0	46	8	1	7	0	0	0	2	0	0	0	0	0	64
06:00	0	61	22	1	13	0	0	0	0	0	0	0	0	1	98
07:00	0	92	37	0	10	0	0	1	0	0	0	0	0	4	144
08:00	0	65	35	2	12	0	0	1	5	0	0	0	0	3	123
09:00	1	75	28	0	16	1	0	1	1	0	0	0	0	2	125
10:00	0	74	30	1	8	0	0	1	4	0	0	0	0	1	119
11:00	0	73	40	1	11	1	0	0	2	0	0	0	0	2	130
12 PM	0	108	38	0	9	1	0	2	3	0	0	0	0	1	162
13:00	0	96	37	1	15	0	0	2	0	0	0	0	0	1	152
14:00	0	112	35	3	9	1	0	0	4	0	0	0	0	3	167
15:00	0	99	47	3	18	2	0	1	1	0	0	0	0	4	175
16:00	0	153	44	2	15	0	0	1	1	0	0	0	0	5	221
17:00	0	129	35	0	10	0	0	0	0	0	0	0	0	3	177
18:00	0	95	22	1	10	1	0	0	0	0	0	0	0	4	133
19:00	0	67	23	1	3	0	0	0	0	0	0	0	0	1	95
20:00	0	51	14	0	5	0	0	0	1	0	0	0	0	0	71
21:00	0	41	11	0	3	0	0	0	0	0	0	0	0	0	55
22:00	0	40	12	0	1	0	0	0	0	0	0	0	0	0	53
23:00	0	11	2	0	2	0	0	0	1	0	0	0	0	0	16
Total	1	1511	526	17	181	7	0	10	26	0	0	0	0	35	2314
Percent	0.0%	65.3%	22.7%	0.7%	7.8%	0.3%	0.0%	0.4%	1.1%	0.0%	0.0%	0.0%	0.0%	1.5%	
AM Peak	09:00	07:00	11:00	08:00	09:00	09:00		07:00	08:00					07:00	
Vol.	1	92	40	2	16	1		1	5					4	
PM Peak		16:00	15:00	14:00	15:00	15:00		12:00	14:00					16:00	
Vol.		153	47	3	18	2		2	4					5	
Grand Total	8	2962	1050	35	335	13	2	24	53	1	0	0	0	74	4557
Percent	0.2%	65.0%	23.0%	0.8%	7.4%	0.3%	0.0%	0.5%	1.2%	0.0%	0.0%	0.0%	0.0%	1.6%	

Location: Route 9 Location: West of Pierce Road

City, State: West Brookfield, Massachusetts Client: Coler & Colantonio / J. Morgan

Westbound,	Eastbound

Start	asibouria	Cars &	2 Axle		2 Axle	3 Axle	4 Axle	<5 AxI	5 Axle	>6 AxI	<6 Axl	6 Axle	>6 AxI	Not	
Time	Bikes	Trailers	Long	Buses	6 Tire	Single	Single	Double	Double	Double	Multi	Multi	>6 Axi Multi	Classed	Total
02/01/12	0	10	LOTIG1	0	0	0	0	0	1	0	0	0	0	0	12
01:00	0	6	1	0	0	0	0	0	1	0	0	0	0	0	0
02:00	0	6	1	0	0	0	0	0	0	0	0	0	0	0	10
03:00	0	6	3	0	0	0	0	0	1	0	0	0	0	0	10
03.00	0	16	5	0	2	0	0	0	0	0	0	0	0	0	23
05:00	0	65	27	1	4	0	0	0	1	0	0	0	0	0	98
06:00	0	151	42	1	12	1	0	1	2	0	0	0	0	1	211
07:00	0	215	49	1	15	1	0	1	6	0	0	0	0	6	294
08:00	0	184	53	2	11	0	1	0	5	1	0	0	0	4	261
09:00	0	170	38	3	9	1	0	0	6	0	0	0	0	4	231
10:00	1	178	53	3	18	1	0	0	3	0	0	0	0	8	265
11:00	2	178	40	2	10	1	0	2	7	1	0	0	0	6	249
12 PM	0	194	54	3	15	3	0	0	2	1	0	0	0	7	279
13:00	0	174	51	1	16	1	0	3	3	0	0	0	0	4	253
14:00	1	226	51	4	13	1	1	3	5	0	0	0	0	6	311
15:00	1	268	76	3	14	1	0	1	1	1	0	0	0	9	375
16:00	4	299	67	1	26	3	0	6	1	0	0	0	0	10	417
17:00	0	248	68	0	10	0	0	3	2	0	0	0	0	10	341
18:00	2	186	56	0	10	0	Ö	1	2	0	0	0	0	6	263
19:00	2	128	43	0	5	0	0	0	0	0	0	0	0	4	182
20:00	0	104	27	0	6	2	0	0	0	0	0	0	0	1	140
21:00	0	79	18	0	3	1	0	0	0	0	0	0	0	0	101
22:00	0	46	10	0	0	0	Ö	0	0	0	0	0	0	0	56
23:00	0	36	9	1	0	0	0	0	0	0	0	0	0	2	48
Total	13	3173	846	26	199	17	2	21	49	4	0	0	0	88	4438
Percent	0.3%	71.5%	19.1%	0.6%	4.5%	0.4%	0.0%	0.5%	1.1%	0.1%	0.0%	0.0%	0.0%	2.0%	1100
AM Peak	11:00	07:00	08:00	09:00	10:00	06:00	08:00	11:00	11:00	08:00	0.070	0.070	0.070	10:00	
Vol.	2	215	53	3	18	1	1	2	7	1				8	
PM Peak	16:00	16:00	15:00	14:00	16:00	12:00	14:00	16:00	14:00	12:00				16:00	
Vol.	4	299	76	4	26	3	1	6	5	1				10	
v 0	т	200		•		9	•	3	3	•					

9070

0

0.0%

0.0%

0

0.0%

1.5% 09:00

15:00

12

157

1.7%

0.0%

Innovative Data, LLC

Location: Route 9

Westbound, Eastbound

Total Percent

Vol.

Vol.

Grand

Total

Percent

AM Peak

PM Peak

0.2%

08:00

16:00

2

23

0.3%

72.4%

07:00

16:00

208

321

6525

71.9%

18.5%

11:00

15:00

1702

18.8%

59

77

Location: West of Pierce Road

City, State: West Brookfield, Massachusetts Client: Coler & Colantonio / J. Morgan

50 Alden Avenue Belchertown, MA 01007 413.668.5094 or www.datayourequested.com

Start	Dile	Cars &	2 Axle	D	2 Axle	3 Axle	4 Axle	<5 AxI	5 Axle	>6 Axl	<6 Axl	6 Axle	>6 Axl	Not	T-1-1
Time	Bikes	Trailers	Long	Buses	6 Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Classed	<u>Total</u>
02/02/1		15	1	1	1	0	0	0	1	0	0	0	0	1	20
01:0		8	3	0	0	0	0	0	0	0	0	0	0	0	11
02:0		6	1	0	0	0	0	0	0	0	0	0	0	0	/
03:0		/	3	0	1	0	0	0	1	0	0	0	0	0	12
04:0		22	4	0	2	0	0	0	0	0	0	0	0	0	28
05:0		60	21	1	/	0	0	1	2	0	0	0	0	0	92
06:0		136	40	2	16	3	0	1	0	0	0	0	0	2	200
07:0		208	53	0	14	2	0	1	5	0	0	0	0	5	288
08:0		191	56	2	15	2	0	2	6	0	0	0	0	4	279
09:0		189	54	0	19	4	0	1	6	0	0	0	0	/	281
10:0		197	46	2	11	1	0	1	6	1	0	0	0	2	267
11:0		186	59	1	15	1	0	2	5	0	0	0	0	4	274
12 P		212	53	1	13	2	0	4	3	0	0	0	0	1	290
13:0		209	60	1	17	1	0	3	3	0	0	0	0	2	296
14:0		229	57	6	12	2	0	0	5	0	0	0	0	4	315
15:0		249	77	6	25	2	0	2	2	0	0	0	0	12	375
16:0		321	74	2	18	0	0	1	1	0	0	0	0	8	427
17:0		274	65	0	12	0	0	0	0	0	0	0	0	8	359
18:0		231	41	1	11	1	0	0	0	0	0	0	0	6	293
19:0		133	30	2	3	0	0	0	1	0	0	0	0	2	171
20:0		100	17	0	5	0	0	0	1	0	0	0	0	1	124
21:0		80	18	0	4	0	0	0	0	0	0	0	0	0	104
22:0		55	18	0	3	0	0	0	0	0	0	0	0	0	76
23:0		34	5	1	2	0	0	0	1	0	0	0	0	0	43
Tot	al 10	3352	856	29	226	21	0	19	49	1	0	0	0	69	4632

2

0.0%

0.4%

08:00

12:00

4

40

0.4%

0.0%

6

5

98

1.1%

0.0%

10:00

5

0.1%

0.0%

0

0.0%

1.1%

08:00

14:00

4.9%

09:00

15:00

19

25

425

4.7%

0.5%

09:00

12:00

2

38

0.4%

0.6%

06:00

14:00

6

55

0.6%

Location: Route 9

Location: West of Pierce Road

City, State: West Brookfield, Massachusetts Client: Coler & Colantonio / J. Morgan

50 Alden Avenue Belchertown, MA 01007

413.668.5094 or www.datayourequested.com

Westbound																	
Start	1	16	21	26	31	36	41	46	51	56	61	66	71	76		85th	95th
Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total	Percent	Percent
02/01/12	0	0	0	0	0	2	1	1	0	0	0	0	0	0	4	*	*
01:00	0	0	0	0	1	0	1	4	0	0	0	0	0	0	6	48	48
02:00	0	0	0	0	0	2	3	1	0	1	0	0	0	0	7	43	43
03:00	0	0	0	0	1	1	1	1	0	0	0	0	0	0	4	*	*
04:00	0	0	0	0	0	1	3	3	0	0	0	0	0	0	7	46	47
05:00	0	1	0	0	1	5	18	9	0	0	0	0	0	0	34	47	49
06:00	1	0	0	1	7	39	41	8	3	0	0	0	0	0	100	44	48
07:00	3	0	0	2	6	42	91	19	1	0	0	0	0	0	164	45	48
08:00	3	1	0	1	4	45	74	21	1	0	0	0	0	0	150	45	48
09:00	4	0	1	1	7	32	56	25	0	1	0	0	0	0	127	46	48
10:00	2	1	0	4	4	46	59	13	0	0	0	0	0	0	129	45	47
11:00	2	0	1	1	4	38	73	15	1	0	0	0	0	0	135	45	47
12 PM	5	0	0	1	9	42	63	18	1	0	0	0	0	0	139	45	48
13:00	3	0	0	2	5	30	61	11	1	0	0	0	0	0	113	45	47
14:00	4	1	1	1	5	42	71	28	1	0	0	0	0	0	154	45	48
15:00	7	0	0	1	8	59	117	13	0	0	0	0	0	0	205	44	46
16:00	5	4	2	1	4	61	101	14	0	0	0	0	0	0	192	44	46
17:00	6	3	0	3	13	69	70	8	0	0	0	0	0	0	172	43	46
18:00	3	0	0	1	8	58	54	6	0	0	0	0	0	0	130	43	45
19:00	2	0	0	1	2	26	29	7	1	0	0	0	0	0	68	45	48
20:00	1	0	0	0	4	22	29	2	1	0	0	0	0	0	59	43	45
21:00	1	0	0	1	1	14	22	4	0	0	0	0	0	0	43	44	47
22:00	0	0	0	0	2	9	9	4	0	2	0	0	0	0	26	45	47
23:00	2	0	0	1_	0	6	14	4	0	0	0	0	0	0	27	45	47
Total	54	11	5	23	96	691	1061	239	11	4	0	0	0	0	2195		
Percent	2.5%	0.5%	0.2%	1.0%	4.4%	31.5%	48.3%	10.9%	0.5%	0.2%	0.0%	0.0%	0.0%	0.0%			
AM Peak	09:00	05:00	09:00	10:00	06:00	10:00	07:00	09:00	06:00	02:00					07:00		
Vol.	44	1_	1	44	7	46	91	25	3	1					164		
PM Peak	15:00	16:00	16:00	17:00	17:00	17:00	15:00	14:00	12:00	22:00					15:00		
Vol.	7	4	2	3	13	69	117	28	1	2					205		

Location: Route 9

Location: West of Pierce Road

City, State: West Brookfield, Massachusetts Client: Coler & Colantonio / J. Morgan

50 Alden Avenue Belchertown, MA 01007

413.668.5094 or www.datayourequested.com

Westbound		40	04		04		44	40	F.4		0.4		74	70		051	054
Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	85th Percent	95th
02/02/12	13	0	0	0	<u></u>	3	43	1	0	0	0	0	0	999	10tai	43	Percent 44
01:00	0	0	0	0	0	2	5	2	0	0	0	0	0	0	9	45	46
02:00	0	0	0	0	0	2	3	0	0	0	0	0	0	0	5	42	42
03:00	0	0	0	0	1	1	3	1	1	0	0	0	0	0	7	43	43
04:00	0	0	0	0	0	1	9	2	1	ĭ	0	0	0	0	14	45	46
05:00	0	0	0	0	0	11	12	5	0	0	0	0	0	0	28	46	48
06:00	1	0	0	1	4	37	49	8	2	0	0	0	0	0	102	44	47
07:00	1	0	0	1	5	34	84	16	3	0	0	0	0	0	144	45	48
08:00	2	0	0	1	3	40	84	26	0	0	0	0	0	0	156	45	48
09:00	5	0	2	0	5	52	73	17	2	0	0	0	0	0	156	45	48
10:00	1	0	0	3	7	54	63	18	1	1	0	0	0	0	148	45	48
11:00	2	1	1	0	4	45	70	21	0	0	0	0	0	0	144	45	48
12 PM	0	0	0	1	9	47	53	17	0	1	0	0	0	0	128	45	48
13:00	2	0	0	3	6	38	73	21	1	0	0	0	0	0	144	45	48
14:00	1	0	1	0	4	54	75	12	1	0	0	0	0	0	148	44	47
15:00	9	1	0	0	9	57	105	18	1	0	0	0	0	0	200	44	47
16:00	3	2	1	1	3	80	93	22	1	0	0	0	0	0	206	45	47
17:00	4	1	0	1	11	71	79	15	0	0	0	0	0	0	182	44	47
18:00	3	1	1	0	13	70	64	6	1	1	0	0	0	0	160	43	45
19:00	1	0	0	0	7	27	37	3	1	0	0	0	0	0	76	44	46
20:00	1	0	0	0	2	18	24	5	3	0	0	0	0	0	53	46	50
21:00	0	2	0	0	2	18	20	6	1	0	0	0	0	0	49	45	48
22:00	0	0	0	0	4	9	9	1	0	0	0	0	0	0	23	43	45
23:00	0	0	0	0	2	10	11	4	0	0	0	0	0	0	27	45	47
Total	37	8	6	12	101	781	1102	247	20	4	0	0	0	0	2318		
Percent	1.6%	0.3%	0.3%	0.5%	4.4%	33.7%	47.5%	10.7%	0.9%	0.2%	0.0%	0.0%	0.0%	0.0%			
AM Peak	09:00	11:00	09:00	10:00	10:00	10:00	07:00	08:00	07:00	04:00					08:00		
Vol.	5	1_	2	3	7	54	84	26	3	1					156		
PM Peak	15:00	16:00	14:00	13:00	18:00	16:00	15:00	16:00	20:00	12:00					16:00		
Vol.	9	2	1	3	13	80	105	22	3	11					206		
Grand Total	91	19	11	35	197	1472	2163	486	31	8	0	0	0	0	4513		
Percent	2.0%	0.4%	0.2%	0.8%	4.4%	32.6%	47.9%	10.8%	0.7%	0.2%	0.0%	0.0%	0.0%	0.0%			
			cul. Damasa	9.	OF MOLL												

 15th Percentile :
 35 MPH

 50th Percentile :
 40 MPH

 85th Percentile :
 45 MPH

 95th Percentile :
 48 MPH

Statistics 10 MPH Pace Speed: 37-46 MPH Number in Pace: 3260

Number in Pace : 3260 Percent in Pace : 72.2%

Number of Vehicles > 50 MPH: 92
Percent of Vehicles > 50 MPH: 2.0%
Mean Speed(Average): 40 MPH

Location: Route 9

Location: West of Pierce Road
City, State: West Brookfield, Massachusetts
Client: Coler & Colantonio / J. Morgan

50 Alden Avenue Belchertown, MA 01007

413.668.5094 or www.datayourequested.com

Eastbound																	
Start	1	16	21	26	31	36	41	46	51	56	61	66	71	76		85th	95th
Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total	Percent	Percent
02/01/12	0	0	0	0	0	0	2	3	3	0	0	0	0	0	8	51	52
01:00	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2	*	*
02:00	0	0	0	0	0	1	1	1	0	0	0	0	0	0	3	*	*
03:00	0	0	0	0	1	1	4	0	0	0	0	0	0	0	6	43	43
04:00	0	0	0	0	0	1	8	4	3	0	0	0	0	0	16	50	52
05:00	0	0	0	0	2	4	20	29	8	1	0	0	0	0	64	50	52
06:00	1	0	0	0	0	8	38	54	5	5	0	0	0	0	111	49	54
07:00	6	1	0	0	0	7	36	60	19	0	1	0	0	0	130	50	53
08:00	2	0	1	1	0	6	41	37	22	1	0	0	0	0	111	51	54
09:00	1	0	0	0	1	3	31	48	20	0	0	0	0	0	104	51	53
10:00	6	0	0	0	0	6	50	57	16	1	0	0	0	0	136	50	53
11:00	4	0	0	0	2	17	47	34	9	1	0	0	0	0	114	49	52
12 PM	2	0	1	0	0	16	60	49	8	4	0	0	0	0	140	49	52
13:00	2	1	0	0	4	16	41	62	14	0	0	0	0	0	140	50	52
14:00	3	0	0	0	3	16	58	60	16	1	0	0	0	0	157	49	52
15:00	3	1	0	2	3	17	68	56	19	1	0	0	0	0	170	49	52
16:00	7	0	0	0	0	29	73	88	26	2	0	0	0	0	225	49	52
17:00	6	1	0	0	0	31	72	48	9	2	0	0	0	0	169	48	51
18:00	3	0	0	4	4	20	46	48	7	1	0	0	0	0	133	48	51
19:00	2	0	0	0	0	16	54	31	10	1	0	0	0	0	114	49	52
20:00	1	0	0	0	1	6	35	30	6	1	1	0	0	0	81	49	52
21:00	0	0	0	0	2	12	22	15	5	1	1	0	0	0	58	49	53
22:00	0	0	0	0	1	1	14	12	2	0	0	0	0	0	30	48	50
23:00	1	0	0	0	0	1	6	9	4	0	0	0	0	0	21	51	53
Total	50	4	2	7	24	235	827	837	231	23	3	0	0	0	2243		
Percent	2.2%	0.2%	0.1%	0.3%	1.1%	10.5%	36.9%	37.3%	10.3%	1.0%	0.1%	0.0%	0.0%	0.0%			
AM Peak	07:00	07:00	08:00	08:00	05:00	11:00	10:00	07:00	08:00	06:00	07:00				10:00		
Vol.	6	1	1	1	2	17	50	60	22	5	1				136		
PM Peak	16:00	13:00	12:00	18:00	13:00	17:00	16:00	16:00	16:00	12:00	20:00				16:00		
Vol.	7	1	1	4	4	31	73	88	26	4	1				225		

Location: Route 9

Location: West of Pierce Road

City, State: West Brookfield, Massachusetts Client: Coler & Colantonio / J. Morgan

50 Alden Avenue Belchertown, MA 01007

413.668.5094 or www.datayourequested.com

Eastbound																	
Start	1	16	21	26	31	36	41	46	51	56	61	66	71	76		85th	95th
Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total	Percent	Percent
02/02/12	1	0	0	0	0	0	5	4	1	0	0	0	0	0	11	48	49
01:00	0	0	0	0	0	0	0	1	1	0	0	0	0	0	2	*	*
02:00	0	0	0	0	0	0	0	1	1	0	0	0	0	0	2	*	*
03:00	0	0	0	1	0	0	3	1	0	0	0	0	0	0	5	43	43
04:00	0	0	0	0	0	3	4	4	2	1	0	0	0	0	14	48	50
05:00	0	1	0	0	4	2	21	26	8	1	1	0	0	0	64	50	53
06:00	1	0	0	0	0	1	38	35	17	6	0	0	0	0	98	52	56
07:00	5	0	0	0	0	3	40	71	19	6	0	0	0	0	144	51	54
08:00	4	0	1	1	0	4	32	58	19	4	0	0	0	0	123	51	54
09:00	3	0	0	0	2	5	38	66	10	1	0	0	0	0	125	49	52
10:00	1	0	0	0	3	6	45	50	14	0	0	0	0	0	119	50	53
11:00	2	0	0	0	1	7	49	48	21	2	0	0	0	0	130	50	53
12 PM	1	0	0	0	0	7	68	67	17	1	1	0	0	0	162	49	52
13:00	1	0	0	0	5	6	62	63	14	1	0	0	0	0	152	49	52
14:00	4	0	0	1	1	10	56	78	15	1	1	0	0	0	167	49	52
15:00	4	1	1	0	1	9	69	76	12	2	0	0	0	0	175	49	51
16:00	5	0	0	0	3	25	105	73	10	0	0	0	0	0	221	48	50
17:00	3	1	0	0	5	14	83	57	12	2	0	0	0	0	177	49	51
18:00	4	0	0	0	0	15	54	53	7	0	0	0	0	0	133	48	51
19:00	1	0	Ő	0	Ö	10	33	46	5	0	Ő	Õ	Ö	Ö	95	49	51
20:00	0	0	0	0	1	7	21	36	6	0	0	0	0	0	71	49	51
21:00	0	1	0	0	1	8	15	22	8	0	0	0	0	0	55	50	53
22:00	0	0	0	0	1	5	12	29	3	2	0	0	0	1	53	50	52
23:00	0	0	0	0	0	2	4	5	3	2	0	0	0	0	16	52	54
Total	40	4	2	3	28	149	857	970	225	32	3	0	0	1	2314	<u> </u>	<u> </u>
Percent	1.7%	0.2%	0.1%	0.1%	1.2%	6.4%	37.0%	41.9%	9.7%	1.4%	0.1%	0.0%	0.0%	0.0%			
AM Peak	07:00	05:00	08:00	03:00	05:00	11:00	11:00	07:00	11:00	06:00	05:00				07:00		
Vol.	5	1	1	1	4	7	49	71	21	6	1				144		
PM Peak	16:00	15:00	15:00	14:00	13:00	16:00	16:00	14:00	12:00	15:00	12:00			22:00	16:00		
Vol.	5	1	1	1	5	25	105	78	17	2	1			1	221		
Grand Total	90	8	4	10	52	384	1684	1807	456	55	6	0	0	1	4557		
	2.0%	0.2%	0.1%	0.2%	1.1%	8.4%	27.00/	39.7%	10.00/	1.2%	0.1%	0.0%	0.0%	0.00/			
Percent	2.0%		0.1%		1.1%	0.4%	37.0%	39.1%	10.0%	1.270	U. 1%	0.0%	0.0%	0.0%			

 15th Percentile :
 39 MPH

 50th Percentile :
 44 MPH

 85th Percentile :
 49 MPH

 95th Percentile :
 53 MPH

Statistics 10 MPH Pace Speed: 41-50 MPH Number in Pace: 3121

Number in Pace: 3121
Percent in Pace: 68.5%
Number of Vehicles > 50 MPH: 668

Percent of Vehicles > 50 MPH: 14.7%
Mean Speed(Average): 44 MPH

Location: Route 9

Location: West of Pierce Road

City, State: West Brookfield, Massachusetts Client: Coler & Colantonio / J. Morgan

50 Alden Avenue Belchertown, MA 01007

413.668.5094 or www.datayourequested.com

Westbound,	Eastbound																
Start	1	16	21	26	31	36	41	46	51	56	61	66	71	76		85th	95th
Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total	Percent	Percent
02/01/12	0	0	0	0	0	2	3	4	3	0	0	0	0	0	12	51	52
01:00	0	0	0	0	1	0	1	6	0	0	0	0	0	0	8	49	49
02:00	0	0	0	0	0	3	4	2	0	1	0	0	0	0	10	44	45
03:00	0	0	0	0	2	2	5	1	0	0	0	0	0	0	10	44	45
04:00	0	0	0	0	0	2	11	7	3	0	0	0	0	0	23	49	51
05:00	0	1	0	0	3	9	38	38	8	1	0	0	0	0	98	49	52
06:00	2	0	0	1	7	47	79	62	8	5	0	0	0	0	211	48	51
07:00	9	1	0	2	6	49	127	79	20	0	1	0	0	0	294	48	51
08:00	5	1	1	2	4	51	115	58	23	1	0	0	0	0	261	48	52
09:00	5	0	1	1	8	35	87	73	20	1	0	0	0	0	231	49	52
10:00	8	1	0	4	4	52	109	70	16	1	0	0	0	0	265	48	51
11:00	6	0	1	1	6	55	120	49	10	1	0	0	0	0	249	47	50
12 PM	7	0	1	1	9	58	123	67	9	4	0	0	0	0	279	47	50
13:00	5	1	0	2	9	46	102	73	15	0	0	0	0	0	253	48	51
14:00	7	1	1	1	8	58	129	88	17	1	0	0	0	0	311	48	51
15:00	10	1	0	3	11	76	185	69	19	1	0	0	0	0	375	47	50
16:00	12	4	2	1	4	90	174	102	26	2	0	0	0	0	417	48	51
17:00	12	4	0	3	13	100	142	56	9	2	0	0	0	0	341	46	49
18:00	6	0	0	5	12	78	100	54	7	1	0	0	0	0	263	46	49
19:00	4	0	0	1	2	42	83	38	11	1	0	0	0	0	182	47	51
20:00	2	0	0	0	5	28	64	32	7	1	1	0	0	0	140	47	50
21:00	1	0	0	1	3	26	44	19	5	1	1	0	0	0	101	47	51
22:00	0	0	0	0	3	10	23	16	2	2	0	0	0	0	56	48	50
23:00	3	0	0	1_	0	7	20	13	4	0	0	0	0	0	48	48	51
Total	104	15	7	30	120	926	1888	1076	242	27	3	0	0	0	4438		
Percent	2.3%	0.3%	0.2%	0.7%	2.7%	20.9%	42.5%	24.2%	5.5%	0.6%	0.1%	0.0%	0.0%	0.0%			
AM Peak	07:00	05:00	08:00	10:00	09:00	11:00	07:00	07:00	08:00	06:00	07:00				07:00		
Vol.	9	1	1	4	8	55	127	79	23	5	1				294		
PM Peak	16:00	16:00	16:00	18:00	17:00	17:00	15:00	16:00	16:00	12:00	20:00				16:00		
Vol.	12	4	2	5	13	100	185	102	26	4	1				417		

Location: Route 9

Location: West of Pierce Road

City, State: West Brookfield, Massachusetts Client: Coler & Colantonio / J. Morgan

50 Alden Avenue Belchertown, MA 01007

413.668.5094 or www.datayourequested.com

Westbound,	Eastbound																
Start	1	16	21	26	31	36	41	46	51	56	61	66	71	76		85th	95th
Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total	Percent	Percent
02/02/12	2	0	0	0	0	3	9	5	1	0	0	0	0	0	20	47	49
01:00	0	0	0	0	0	2	5	3	1	0	0	0	0	0	11	47	48
02:00	0	0	0	0	0	2	3	1	1	0	0	0	0	0	7	43	43
03:00	0	0	0	1	1	1	6	2	1	0	0	0	0	0	12	45	46
04:00	0	0	0	0	0	4	13	6	3	2	0	0	0	0	28	50	53
05:00	0	1	0	0	4	13	33	31	8	1	1	0	0	0	92	49	52
06:00	2	0	0	1	4	38	87	43	19	6	0	0	0	0	200	49	54
07:00	6	0	0	1	5	37	124	87	22	6	0	0	0	0	288	49	52
08:00	6	0	1	2	3	44	116	84	19	4	0	0	0	0	279	48	52
09:00	8	0	2	0	7	57	111	83	12	1	0	0	0	0	281	48	50
10:00	2	0	0	3	10	60	108	68	15	1	0	0	0	0	267	48	51
11:00	4	1	1	0	5	52	119	69	21	2	0	0	0	0	274	48	51
12 PM	1	0	0	1	9	54	121	84	17	2	1	0	0	0	290	48	51
13:00	3	0	0	3	11	44	135	84	15	1	0	0	0	0	296	48	51
14:00	5	0	1	1	5	64	131	90	16	1	1	0	0	0	315	48	51
15:00	13	2	1	0	10	66	174	94	13	2	0	0	0	0	375	47	50
16:00	8	2	1	1	6	105	198	95	11	0	0	0	0	0	427	47	49
17:00	7	2	0	1	16	85	162	72	12	2	0	0	0	0	359	47	50
18:00	7	1	1	0	13	85	118	59	8	1	Ö	0	0	0	293	47	50
19:00	2	0	0	0	7	37	70	49	6	0	0	0	0	0	171	47	50
20:00	1	0	0	0	3	25	45	41	9	0	0	0	0	0	124	49	51
21:00	0	3	0	0	3	26	35	28	9	0	0	0	0	0	104	49	52
22:00	0	0	0	0	5	14	21	30	3	2	0	0	0	1	76	49	51
23:00	0	0	0	0	2	12	15	9	3	2	0	0	0	0	43	48	52
Total	77	12	8	15	129	930	1959	1217	245	36	3	0	0	1	4632		
Percent	1.7%	0.3%	0.2%	0.3%	2.8%	20.1%	42.3%	26.3%	5.3%	0.8%	0.1%	0.0%	0.0%	0.0%			
AM Peak	09:00	05:00	09:00	10:00	10:00	10:00	07:00	07:00	07:00	06:00	05:00				07:00		
Vol.	8	1	2	3	10	60	124	87	22	6	1				288		
PM Peak	15:00	21:00	14:00	13:00	17:00	16:00	16:00	16:00	12:00	12:00	12:00			22:00	16:00		
Vol.	13	3	1	3	16	105	198	95	17	2	1			1	427		
Grand Total	181	27	15	45	249	1856	3847	2293	487	63	6	0	0	1	9070		
Percent	2.0%	0.3%	0.2%	0.5%	2.7%	20.5%	42.4%	25.3%	5.4%	0.7%	0.1%	0.0%	0.0%	0.0%			
1 CICCIII	2.070			0.576	2.7 /0	20.070	74.70	20.070	J. T /U	0.1 /0	0.170	0.070	0.070	0.070			

15th Percentile: 36 MPH 50th Percentile: 42 MPH 48 MPH 85th Percentile: 95th Percentile: 51 MPH

10 MPH Pace Speed : Number in Pace : Statistics 39-48 MPH

5863 64.6% Percent in Pace :

Number of Vehicles > 50 MPH: 759 Percent of Vehicles > 50 MPH: 8.4% Mean Speed(Average): 42 MPH

Location: Route 9 Location: West of Rock House Reservation

City, State: West Brookfield, Massachusetts Client: Coler & Colantonio / J. Morgan

50 Alden Avenue Belchertown, MA 01007

413.668.5094 or www.datayourequested.com

Start	01-Feb-12		stbound		tbound		nbined	02-Feb-		stbound		tbound	Comb	
Time	Wed	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	Thu	A.M.	P.M.	A.M.	P.M.	A.M.	P.M
12:00		1	28	3	35	4	63		4	30	5	42	9	
12:15		1	25	3	42	4	67		2	27	2	46	4	
12:30		1	36	2	30	3	66		2	37	2	34	4	
12:45		1	48	0	31	1	79		1	29	1	40	2	
01:00		1	27	1	33	2	60		4	34	0	40	4	
01:15		1	30	1	36	2	66		4	37	1	39	5	
01:30		2	36	0	38	2	74		1	40	1	32	2	
01:45		2	20	0	36	2	56		0	32	0	38	0	
02:00		1	33	2	26	3	59		1	25	0	33	1	
02:15		0	37	0	39	0	76		2	47	0	44	2	
02:30		3	35	1	40	4	75		2	31	1	46	3	
02:45		4	35	0	45	4	80		0	39	1	38	1	
03:00		2	51	3	37	5	88		1	55	1	41	2	
03:15		1	42	1	44	2	86		1	43	3	44	4	
03:30		0	72	0	44	0	116		2	49	0	52	2	1
03:45		1	34	3	42	4	<i>7</i> 6		3	47	2	37	5	
04:00		2	42	1	57	3	99		1	47	1	62	2	
04:15		3	50	4	65	7	115		6	48	4	52	10	
04:30		0	38	7	50	7	88		2	43	6	50	8	
04:45		2	50	4	53	6	103		5	62	3	64	8	
				_							_			
05:00		3	43	7	47	10	90		3	52	9	32	12	
05:15		8	49	14	41	22	90		5	47	11	50	16	
05:30		9	40	23	43	32	83		6	45	25	40	31	
05:45		12	39	22	38	34	77		12	37	19	47	31	
06:00		22	29	23	39	45	68		16	50	19	40	35	
06:15		25	48	16	30	41	78		28	48	18	37	46	
06:30		27	23	34	30	61	53		26	33	30	24	56	
06:45		29	26	36	28	65	54		35	29	38	31	73	
07:00		35	25	27	31	62	56		29	23	40	29	69	
07:15		30	16	35	43	65	59		32	18	32	20	64	
07:30		47	19	29	25	76	44		41	15	31	23	72	
07:45		51	9	30	16	81	25		46	20	30	23	76	
08:00		46	16	31	27	77	43		34	10	30	17	64	
08:15		44	17	23	18	67	35		47	16	31	26	78	
08:30		23	11	34	17	57	28		36	13	37	19	73	
08:45		36	16	28	17	64	33		39	12	25	11	64	
09:00		26	9	20	16	46	25		31	9	30	13	61	
09:15		23	11	26	15	49	26		39	10	29	12	68	
09:30		34	8	31	7	65	15		40	11	31	16	71	
09:45		38	10	27	20	65	30		40	17	35	13	75	
10:00		38	11	27	12	65	23		31	5	34	13	65	
10:00		30	9	35	8	65	17		49	10	24	22	73	
10:15											31		73 58	
		32	6	34	4	66	10		27	4		11		
10:45		30	3	37	6	67	9		34	3	28	6	62	
11:00		33	11	24	6	57	17		35	9	34	4	69	
11:15		35	8	31	5	66	13		34	3	31	2	65	
11:30		36	2	29	8	65	10		41	8	32	6	73	
11:45		31	3	33	1	64	4		35	6	33	5	68	
Total		862	1286	802	1421	1664	2707		915	1365	831	1466	1746	28
Day Tota	l	21	48		23	43				280		297	457	
% Total		19.7%	29.4%	18.3%	32.5%				20.0%	29.8%	18.2%	32.0%		
Peak		07:30	02:45	10:00	04:00	07:30	03:30		07:30	04:45	06:45	04:00	07:45	04
Vol.		188	200	133	225	301	406		168	206	141	228	291	4
P.H.F.		0.922	0.694	0.899	0.865	0.929	0.875		0.894	0.831	0.881	0.891	0.933	0.8
		J.J	0.50	0.500	3.300	5.520	5.5.0		5.55	3.301	0.50	0.501	0.000	٥.٠

Location: Route 9

Location: West of Rock House Reservation City, State: West Brookfield, Massachusetts Client: Coler & Colantonio / J. Morgan

50 Alden Avenue Belchertown, MA 01007 413.668.5094 or www.datayourequested.com

Westbound	
Start	

VVCSIDOUTIG															
Start		Cars &	2 Axle		2 Axle	3 Axle	4 Axle	<5 AxI	5 Axle	>6 AxI	<6 Axl	6 Axle	>6 AxI	Not	
Time	Bikes	Trailers	Long	Buses	6 Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Classed	Total
02/01/12	0	4	Ō	0	0	0	0	0	0	0	0	0	0	0	4
01:00	0	4	1	0	0	0	0	0	1	0	0	0	0	0	6
02:00	0	7	1	0	0	0	0	0	0	0	0	0	0	0	8
03:00	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4
04:00	0	6	1	0	0	0	0	0	0	0	0	0	0	0	7
05:00	0	21	10	0	1	0	0	0	0	0	0	0	0	0	32
06:00	1	80	19	1	1	1	0	0	0	0	0	0	0	0	103
07:00	0	132	23	0	1	1	0	0	4	0	0	0	0	2	163
08:00	0	113	27	2	2	0	0	0	0	1	0	0	0	4	149
09:00	1	100	12	1	2	0	0	0	4	0	0	0	0	1	121
10:00	1	102	19	0	4	1	0	0	2	0	0	0	0	1	130
11:00	0	111	13	1	2	2	0	0	5	1	0	0	0	0	135
12 PM	0	107	22	0	5	1	0	0	0	0	0	0	0	2	137
13:00	0	92	13	0	1	1	0	3	2	0	0	0	0	1	113
14:00	0	119	17	0	1	0	0	0	1	0	0	0	0	2	140
15:00	0	165	27	0	4	0	0	0	0	1	0	0	0	2	199
16:00	1	144	28	1	1	1	0	2	1	0	0	0	0	1	180
17:00	0	128	36	0	0	0	0	1	2	0	0	0	0	4	171
18:00	0	103	19	0	1	0	0	0	1	0	0	0	0	2	126
19:00	1	60	7	0	1	0	0	0	0	0	0	0	0	0	69
20:00	0	49	10	0	0	0	0	0	0	0	0	0	0	1	60
21:00	0	32	4	0	2	0	0	0	0	0	0	0	0	0	38
22:00	0	24	5	0	0	0	0	0	0	0	0	0	0	0	29
23:00	0	20	4	0	0	0	0	0	0	0	0	0	0	0	24
Total	5	1727	318	6	29	8	0	6	23	3	0	0	0	23	2148
Percent	0.2%	80.4%	14.8%	0.3%	1.4%	0.4%	0.0%	0.3%	1.1%	0.1%	0.0%	0.0%	0.0%	1.1%	
AM Peak	06:00	07:00	08:00	08:00	10:00	11:00			11:00	08:00				08:00	
Vol.	1	132	27	2	4	2			5	11				4	
PM Peak	16:00	15:00	17:00	16:00	12:00	12:00		13:00	13:00	15:00				17:00	
Vol.	1	165	36	1	5	1		3	2	1				4	

3

5

50

1.1%

4428

15:00

0

0.0%

1

0.0%

Innovative Data, LLC

Location: Route 9

Vol.

Vol.

Grand

Total

Percent

17:00

1

9

0.2%

PM Peak

126

166

16:00

3559

80.4%

26

33

638

14.4%

14:00

3

17

0.4%

15:00

Westbound

Location: West of Rock House Reservation City, State: West Brookfield, Massachusetts Client: Coler & Colantonio / J. Morgan

50 Alden Avenue Belchertown, MA 01007 413.668.5094 or www.datayourequested.com

vvesibouriu															
Start		Cars &	2 Axle		2 Axle	3 Axle	4 Axle	<5 AxI	5 Axle	>6 AxI	<6 Axl	6 Axle	>6 AxI	Not	
Time	Bikes	Trailers	Long	Buses	6 Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Classed	Total
02/02/12	0	8	Ō	1	0	0	0	0	0	0	0	0	0	0	9
01:00	0	7	2	0	0	0	0	0	0	0	0	0	0	0	9
02:00	0	4	1	0	0	0	0	0	0	0	0	0	0	0	5
03:00	0	6	0	0	0	0	0	0	1	0	0	0	0	0	7
04:00	0	11	2	0	0	0	0	0	0	0	0	0	0	1	14
05:00	0	14	11	0	0	0	0	1	0	0	0	0	0	0	26
06:00	0	75	21	1	3	2	0	1	0	0	0	0	0	2	105
07:00	1	118	15	0	4	3	0	0	5	0	0	0	0	2	148
08:00	1	126	21	0	2	2	0	1	1	0	0	1	0	1	156
09:00	0	112	26	0	3	3	0	0	5	0	0	0	0	1	150
10:00	0	116	15	1	2	1	0	1	2	0	0	0	0	3	141
11:00	1	116	17	0	3	0	0	1	3	1	0	0	0	3	145
12 PM	0	100	15	1	4	0	0	2	1	0	0	0	0	0	123
13:00	0	110	24	0	2	0	1	0	4	0	0	0	0	2	143
14:00	0	116	17	3	3	1	0	0	1	0	0	0	0	1	142
15:00	0	148	33	2	4	0	0	1	1	0	0	0	0	5	194
16:00	0	166	29	0	2	0	0	0	0	0	0	0	0	3	200
17:00	1	150	28	0	2	0	0	0	0	0	0	0	0	0	181
18:00	0	139	19	0	1	0	0	0	0	0	0	0	0	1	160
19:00	0	66	6	1	0	1	0	0	0	0	0	0	0	2	76
20:00	0	48	3	0	0	0	0	0	0	0	0	0	0	0	51
21:00	0	39	7	0	1	0	0	0	0	0	0	0	0	0	47
22:00	0	15	5	0	2	0	0	0	0	0	0	0	0	0	22
23:00	0	22	3	1	0	0	0	0	0	0	0	0	0	0	26
Total	4	1832	320	11	38	13	1	8	24	1	0	1	0	27	2280
Percent	0.2%	80.4%	14.0%	0.5%	1.7%	0.6%	0.0%	0.4%	1.1%	0.0%	0.0%	0.0%	0.0%	1.2%	
AM Peak	07:00	08:00	09:00	00:00	07:00	07:00		05:00	07:00	11:00		08:00		10:00	

5

4

47

1.1%

0

0.0%

4

0.1%

13:00

3

1

21

0.5%

13:00

1

1

0.0%

12:00

2

14

0.3%

14:00

4

4

67

1.5%

12:00

8

Innovative Data, LLC

Location: Route 9

Location: West of Rock House Reservation City, State: West Brookfield, Massachusetts Client: Coler & Colantonio / J. Morgan

2

152

46

Vol.

2

12

50 Alden Avenue Belchertown, MA 01007 413.668.5094 or www.datayourequested.com

Eastbound															
Start		Cars &	2 Axle		2 Axle	3 Axle	4 Axle	<5 AxI	5 Axle	>6 AxI	<6 Axl	6 Axle	>6 AxI	Not	
Time	Bikes	Trailers	Long	Buses	6 Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Classed	Total
02/01/12	0	6	1	0	0	0	0	0	1	0	0	0	0	0	8
01:00	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
02:00	0	1	2	0	0	0	0	0	0	0	0	0	0	0	3
03:00	0	4	2	0	0	0	0	0	1	0	0	0	0	0	7
04:00	0	11	5	0	0	0	0	0	0	0	0	0	0	0	16
05:00	0	48	13	1	3	0	0	0	1	0	0	0	0	0	66
06:00	0	78	18	0	9	0	0	1	2	0	0	0	0	1	109
07:00	0	82	26	0	7	0	0	1	2	0	0	0	0	3	121
08:00	0	74	26	1	8	0	0	0	4	0	0	0	0	3	116
09:00	0	75	20	1	3	0	0	0	1	0	0	0	0	4	104
10:00	0	89	26	2	11	0	0	0	4	0	0	0	0	1	133
11:00	1	83	23	3	3	0	0	2	1	0	0	0	0	1	117
12 PM	0	90	30	2	8	3	0	0	3	1	0	0	0	1	138
13:00	0	100	34	1	6	0	0	0	1	0	0	0	0	1	143
14:00	1	103	27	2	7	1	1	3	3	0	0	0	0	2	150
15:00	1	112	37	2	10	1	0	1	1	0	0	0	0	2	167
16:00	2	152	46	0	12	0	0	3	2	0	0	0	0	8	225
17:00	0	134	25	0	5	0	0	1	1	0	0	0	0	3	169
18:00	1	84	37	0	3	0	0	0	1	0	0	0	0	1	127
19:00	0	76	35	0	4	0	0	0	0	0	0	0	0	0	115
20:00	1	57	17	0	3	1	0	0	0	0	0	0	0	0	79
21:00	0	45	13	0	0	0	0	0	0	0	0	0	0	0	58
22:00	0	27	3	0	0	0	0	0	0	0	0	0	0	0	30
23:00	0	14	5	0	0	0	0	0	1	0	0	0	0	0	20
Total	7	1547	471	15	102	6	1	12	30	1	0	0	0	31	2223
Percent	0.3%	69.6%	21.2%	0.7%	4.6%	0.3%	0.0%	0.5%	1.3%	0.0%	0.0%	0.0%	0.0%	1.4%	
AM Peak	11:00	10:00	07:00	11:00	10:00			11:00	08:00					09:00	
Vol.	1	89	26	3	11			2	4					4	
PM Peak	16:00	16:00	16:00	12:00	16:00	12:00	14:00	14:00	12:00	12:00				16:00	

1

3

3

3

Location: Route 9

Location: West of Rock House Reservation City, State: West Brookfield, Massachusetts Client: Coler & Colantonio / J. Morgan

0.3%

Percent

70.0%

20.7%

0.7%

4.9%

0.3%

0.0%

0.5%

1.2%

0.0%

0.0%

0.0%

0.0%

1.5%

50 Alden Avenue Belchertown, MA 01007 413.668.5094 or www.datayourequested.com

Eastbound															
Start		Cars &	2 Axle		2 Axle	3 Axle	4 Axle	<5 AxI	5 Axle	>6 AxI	<6 AxI	6 Axle	>6 AxI	Not	
Time	Bikes	Trailers	Long	Buses	6 Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Classed	Total
02/02/12	0	7	1	0	1	0	0	0	1	0	0	0	0	0	10
01:00	0	1	1	0	0	0	0	0	0	0	0	0	0	0	2
02:00	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
03:00	0	2	3	0	1	0	0	0	0	0	0	0	0	0	6
04:00	0	9	2	0	2	0	0	0	0	0	0	0	0	1	14
05:00	0	48	10	1	3	0	0	0	2	0	0	0	0	0	64
06:00	1	73	19	0	11	0	0	0	0	0	0	0	0	1	105
07:00	0	93	31	1	7	0	0	1	0	0	0	0	0	0	133
08:00	0	77	27	2	9	1	0	0	4	0	0	0	0	3	123
09:00	0	84	24	1	12	1	0	1	1	0	0	0	0	1	125
10:00	1	76	25	1	4	0	0	1	3	0	0	0	0	6	117
11:00	0	83	35	1	5	1	0	0	2	0	0	0	0	3	130
12 PM	0	122	27	0	7	1	0	2	3	0	0	0	0	0	162
13:00	0	98	37	1	7	0	0	2	0	0	0	0	0	4	149
14:00	0	116	27	3	6	1	0	0	4	0	0	0	0	4	161
15:00	1	110	45	2	10	2	0	1	1	0	0	0	0	2	174
16:00	1	174	35	1	13	0	0	1	1	0	0	0	0	2	228
17:00	1	123	35	0	7	0	0	0	0	0	0	0	0	3	169
18:00	0	100	22	1	6	0	0	0	0	0	0	0	0	3	132
19:00	0	70	21	1	0	0	0	0	1	0	0	0	0	2	95
20:00	0	55	15	0	3	0	0	0	0	0	0	0	0	0	73
21:00	0	42	9	0	3	0	0	0	0	0	0	0	0	0	54
22:00	0	42	10	0	0	0	0	0	0	0	0	0	0	0	52
23:00	0	12	3	0	1	0	0	0	1	0	0	0	0	0	17
Total	5	1619	464	16	118	7	0	9	24	0	0	0	0	35	2297
Percent	0.2%	70.5%	20.2%	0.7%	5.1%	0.3%	0.0%	0.4%	1.0%	0.0%	0.0%	0.0%	0.0%	1.5%	
AM Peak	06:00	07:00	11:00	08:00	09:00	08:00		07:00	08:00					10:00	
Vol.	1	93	35	2	12	1		1	4					6	
PM Peak	15:00	16:00	15:00	14:00	16:00	15:00		12:00	14:00					13:00	
Vol.	1	174	45	3	13	2		2	4					4	
Grand Total	12	3166	935	31	220	13	1	21	54	1	0	0	0	66	4520

Location: Route 9

Location: West of Rock House Reservation City, State: West Brookfield, Massachusetts Client: Coler & Colantonio / J. Morgan

50 Alden Avenue Belchertown, MA 01007 413.668.5094 or www.datayourequested.com

Westbound, Eastbound

Start		Cars &	2 Axle		2 Axle	3 Axle	4 Axle	<5 AxI	5 Axle	>6 Axl	<6 AxI	6 Axle	>6 Axl	Not	
Time	Bikes	Trailers	Long	Buses	6 Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Classed	Total
02/01/12	0	10	1	0	0	0	0	0	1	0	0	0	0	0	12
01:00	0	6	1	0	0	0	0	0	1	0	0	0	0	0	8
02:00	0	8	3	0	0	0	0	0	0	0	0	0	0	0	11
03:00	0	8	2	0	0	0	0	0	1	0	0	0	0	0	11
04:00	0	17	6	0	0	0	0	0	0	0	0	0	0	0	23
05:00	0	69	23	1	4	0	0	0	1	0	0	0	0	0	98
06:00	1	158	37	1	10	1	0	1	2	0	0	0	0	1	212
07:00	0	214	49	0	8	1	0	1	6	0	0	0	0	5	284
08:00	0	187	53	3	10	0	0	0	4	1	0	0	0	7	265
09:00	1	175	32	2	5	0	0	0	5	0	0	0	0	5	225
10:00	1	191	45	2	15	1	0	0	6	0	0	0	0	2	263
11:00	1	194	36	4	5	2	0	2	6	1	0	0	0	1	252
12 PM	0	197	52	2	13	4	0	0	3	1	0	0	0	3	275
13:00	0	192	47	1	7	1	0	3	3	0	0	0	0	2	256
14:00	1	222	44	2	8	1	1	3	4	0	0	0	0	4	290
15:00	1	277	64	2	14	1	0	1	1	1	0	0	0	4	366
16:00	3	296	74	1	13	1	0	5	3	0	0	0	0	9	405
17:00	0	262	61	0	5	0	0	2	3	0	0	0	0	7	340
18:00	1	187	56	0	4	0	0	0	2	0	0	0	0	3	253
19:00	1	136	42	0	5	0	0	0	0	0	0	0	0	0	184
20:00	1	106	27	0	3	1	0	0	0	0	0	0	0	1	139
21:00	0	77	17	0	2	0	0	0	0	0	0	0	0	0	96
22:00	0	51	8	0	0	0	0	0	0	0	0	0	0	0	59
23:00	0	34	9	0	0	0	0	0	11	0	0	0	0	0	44
Total	12	3274	789	21	131	14	1	18	53	4	0	0	0	54	4371
Percent	0.3%	74.9%	18.1%	0.5%	3.0%	0.3%	0.0%	0.4%	1.2%	0.1%	0.0%	0.0%	0.0%	1.2%	
AM Peak	06:00	07:00	08:00	11:00	10:00	11:00		11:00	07:00	08:00				08:00	
Vol.	11	214	53	4	15	2		2	6	11				7	
PM Peak	16:00	16:00	16:00	12:00	15:00	12:00	14:00	16:00	14:00	12:00				16:00	
Vol.	3	296	74	2	14	4	1	5	4	1				9	

Location: Route 9

Location: West of Rock House Reservation City, State: West Brookfield, Massachusetts Client: Coler & Colantonio / J. Morgan

50 Alden Avenue Belchertown, MA 01007 413.668.5094 or www.datayourequested.com

Westbound, Eastbound

vvesibouriu, La	asibouriu														
Start		Cars &	2 Axle	_	2 Axle	3 Axle	4 Axle	<5 AxI	5 Axle	>6 AxI	<6 Axl	6 Axle	>6 AxI	Not	
Time	Bikes	Trailers	Long	Buses	6 Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Classed	Total
02/02/12	0	15	1	1	1	0	0	0	1	0	0	0	0	0	19
01:00	0	8	3	0	0	0	0	0	0	0	0	0	0	0	11
02:00	0	6	1	0	0	0	0	0	0	0	0	0	0	0	7
03:00	0	8	3	0	1	0	0	0	1	0	0	0	0	0	13
04:00	0	20	4	0	2	0	0	0	0	0	0	0	0	2	28 90
05:00	0	62	21	1	3	0	0	1	2	0	0	0	0	0	90
06:00	1	148	40	1	14	2	0	1	0	0	0	0	0	3	210
07:00	1	211	46	1	11	3	0	1	5	0	0	0	0	2	281
08:00	1	203	48	2	11	3	0	1	5	0	0	1	0	4	279
09:00	0	196	50	1	15	4	0	1	6	0	0	0	0	2	275
10:00	1	192	40	2	6	1	0	2	5	0	0	0	0	9	258
11:00	1	199	52	1	8	1	0	1	5	1	0	0	0	6	275
12 PM	0	222	42	1	11	1	0	4	4	0	0	0	0	0	285
13:00	0	208	61	1	9	0	1	2	4	0	0	0	0	6	292
14:00	0	232	44	6	9	2	0	0	5	0	0	0	0	5	303
15:00	1	258	78	4	14	2	0	2	2	0	0	0	0	7	368
16:00	1	340	64	1	15	0	0	1	1	0	0	0	0	5	428
17:00	2	273	63	0	9	0	0	0	0	0	0	0	0	3	350
18:00	0	239	41	1	7	0	0	0	0	0	0	0	0	4	292
19:00	0	136	27	2	0	1	0	0	1	0	0	0	0	4	171
20:00	0	103	18	0	3	0	0	0	0	0	0	0	0	0	124
21:00	0	81	16	0	4	0	0	0	0	0	0	0	0	0	101
22:00	0	57	15	0	2	0	0	0	0	0	0	0	0	0	74
23:00	0	34	6	1	1	0	0	0	1	0	0	0	0	0	43
Total	9	3451	784	27	156	20	1	17	48	1	0	1	0	62	4577
Percent	0.2%	75.4%	17.1%	0.6%	3.4%	0.4%	0.0%	0.4%	1.0%	0.0%	0.0%	0.0%	0.0%	1.4%	
AM Peak	06:00	07:00	11:00	08:00	09:00	09:00		10:00	09:00	11:00		08:00		10:00	
Vol.	1	211	52	2	15	4		2	6	1		1		9	
PM Peak	17:00	16:00	15:00	14:00	16:00	14:00	13:00	12:00	14:00					15:00	_
Vol.	2	340	78	6	15	2	1	4	5					7	
Grand Total	21	6725	1573	48	287	34	2	35	101	5	0	1	0	116	8948
Percent	0.2%	75.2%	17.6%	0.5%	3.2%	0.4%	0.0%	0.4%	1.1%	0.1%	0.0%	0.0%	0.0%	1.3%	

Traffic Count Data

48 Hour Automatic Traffic Recorder Counts with Speeds

45

45

48

45

Innovative Data, LLC

Location: Route 9

Westbound

Location: West of Rock House Reservation City, State: West Brookfield, Massachusetts Client: Coler & Colantonio / J. Morgan

50 Alden Avenue Belchertown, MA 01007 413.668.5094 or www.datayourequested.com

Start	1	16	21	26	31	36	41	46	51	56	61	66	71	76		85th	95th
Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total	Percent	Percent
02/01/12	0	0	0	0	1	1	2	0	0	0	0	0	0	0	4	*	*
01:00	0	0	0	0	1	2	1	2	0	0	0	0	0	0	6	*	*
02:00	0	0	0	0	1	4	1	2	0	0	0	0	0	0	8	39	39
03:00	0	0	0	0	1	2	1	0	0	0	0	0	0	0	4	*	*
04:00	0	0	0	0	1	2	2	2	0	0	0	0	0	0	7	*	*
05:00	0	0	0	0	0	8	15	8	1	0	0	0	0	0	32	47	49
06:00	0	0	0	0	6	59	35	3	0	0	0	0	0	0	103	43	45
07:00	2	0	0	0	6	60	88	7	0	0	0	0	0	0	163	44	46
08:00	4	0	0	0	2	68	63	12	0	0	0	0	0	0	149	44	46
09:00	1	0	0	0	2	52	58	8	0	0	0	0	0	0	121	44	46
10:00	1	0	0	0	10	71	43	5	0	0	0	0	0	0	130	43	45
11:00	0	0	0	0	3	70	55	6	1	0	0	0	0	0	135	43	46
12 PM	2	0	0	2	10	65	54	4	0	0	0	0	0	0	137	43	45
13:00	1	0	0	0	1	63	45	3	0	0	0	0	0	0	113	43	45
14:00	2	0	0	0	13	60	59	6	0	0	0	0	0	0	140	43	45
15:00	2	0	0	0	6	102	83	6	0	0	0	0	0	0	199	43	45
16:00	1	0	0	1	15	82	70	11	0	0	0	0	0	0	180	44	46
17:00	4	0	0	2	7	81	75	2	0	0	0	0	0	0	171	43	45
18:00	2	0	0	0	8	61	47	8	0	0	0	0	0	0	126	44	46
19:00	0	0	0	1	3	30	29	6	0	0	0	0	0	0	69	44	46

19.00	U	U	U		3	30	23	U	U	U	U	U	U	U	09	
20:00	1	0	0	1	2	31	24	1	0	0	0	0	0	0	60	43
21:00	0	0	0	0	2	21	13	2	0	0	0	0	0	0	38	43
22:00	0	0	0	0	3	12	9	3	2	0	0	0	0	0	29	45
23:00	0	0	0	0	1	14	7	2	0	0	0	0	0	0	24	43
Total	23	0	0	7	105	1021	879	109	4	0	0	0	0	0	2148	
Percent	1.1%	0.0%	0.0%	0.3%	4.9%	47.5%	40.9%	5.1%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%		
AM Peak	08:00				10:00	10:00	07:00	08:00	05:00						07:00	
Vol.	4				10	71	88	12	1						163	
PM Peak	17:00			12:00	16:00	15:00	15:00	16:00	22:00						15:00	
Vol.	4			2	15	102	83	11	2						199	

Location: Route 9

Location: West of Rock House Reservation City, State: West Brookfield, Massachusetts Client: Coler & Colantonio / J. Morgan

50 Alden Avenue Belchertown, MA 01007

413.668.5094 or www.datayourequested.com

Westbound																	
Start	1	16	21	26	31	36	41	46	51	56	61	66	71	76		85th	95th
Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total	Percent	Percent
02/02/12	0	0	0	0	0	2	4	3	0	0	0	0	0	0	9	46	47
01:00	0	0	0	0	1	3	5	0	0	0	0	0	0	0	9	43	44
02:00	0	0	0	0	0	5	0	0	0	0	0	0	0	0	5	39	39
03:00	0	0	0	0	2	1	1	3	0	0	0	0	0	0	7	47	47
04:00	1	0	0	0	1	3	6	3	0	0	0	0	0	0	14	46	47
05:00	0	0	0	0	3	7	13	2	1	0	0	0	0	0	26	44	45
06:00	2	0	0	0	4	63	29	6	1	0	0	0	0	0	105	43	46
07:00	2	0	0	0	1	54	82	9	0	0	0	0	0	0	148	44	46
08:00	1	0	0	0	2	55	83	15	0	0	0	0	0	0	156	44	47
09:00	1	0	0	0	6	51	85	7	0	0	0	0	0	0	150	44	46
10:00	3	0	0	0	3	65	60	9	1	0	0	0	0	0	141	44	46
11:00	4	0	0	0	7	66	61	7	0	0	0	0	0	0	145	43	45
12 PM	0	0	0	0	5	51	60	6	0	1	0	0	0	0	123	44	45
13:00	2	0	0	0	5	53	76	6	1	0	0	0	0	0	143	44	46
14:00	1	0	0	0	3	59	71	8	0	0	0	0	0	0	142	44	46
15:00	5	0	0	2	9	73	96	9	0	0	0	0	0	0	194	44	46
16:00	3	0	0	0	3	89	93	12	0	0	0	0	0	0	200	44	46
17:00	0	0	0	1	26	74	69	8	3	0	0	0	0	0	181	43	46
18:00	1	0	0	0	7	86	64	2	0	0	0	0	0	0	160	43	45
19:00	2	0	0	0	4	41	27	2	0	0	0	0	0	0	76	42	44
20:00	0	0	0	0	0	26	20	3	2	0	0	0	0	0	51	44	47
21:00	0	0	0	0	2	24	18	3	0	0	0	0	0	0	47	43	45
22:00	0	0	0	0	3	14	5	0	0	0	0	0	0	0	22	42	44
23:00	0	0	0	0	4	12	9	1	0	0	0	0	0	0	26	43	45
Total	28	0	0	3	101	977	1037	124	9	1_	0	0	0	00	2280		
Percent	1.2%	0.0%	0.0%	0.1%	4.4%	42.9%	45.5%	5.4%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak	11:00				11:00	11:00	09:00	08:00	05:00						08:00		
Vol.	4				7	66	85	15	1						156		
PM Peak	15:00			15:00	17:00	16:00	15:00	16:00	17:00	12:00					16:00		
Vol.	5			2	26	89	96	12	3	1_					200		
Grand Total	51	0	0	10	206	1998	1916	233	13	1	0	0	0	0	4428		
Percent	1.2%	0.0%	0.0%	0.2%	4.7%	45.1%	43.3%	5.3%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%			

15th Percentile : 35 MPH 50th Percentile : 39 MPH 85th Percentile : 44 MPH 95th Percentile : 46 MPH

Statistics 10 MPH Pace Speed: 36-45 MPH

 Number in Pace :
 3465

 Percent in Pace :
 78.3%

 Number of Vehicles > 50 MPH :
 40

 Percent of Vehicles > 50 MPH :
 0.9%

 Mean Speed(Average) :
 40 MPH

Location: Route 9

Location: West of Rock House Reservation City, State: West Brookfield, Massachusetts Client: Coler & Colantonio / J. Morgan

50 Alden Avenue Belchertown, MA 01007

413.668.5094 or www.datayourequested.com

Eastbound																	
Start	1	16	21	26	31	36	41	46	51	56	61	66	71	76		85th	95th
Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total	Percent	Percent
02/01/12	0	0	0	0	0	2	4	1	1	0	0	0	0	0	8	44	44
01:00	0	0	0	0	0	0	1	0	1	0	0	0	0	0	2	*	*
02:00	0	0	0	0	0	1	2	0	0	0	0	0	0	0	3	*	*
03:00	0	0	0	0	1	3	3	0	0	0	0	0	0	0	7	41	42
04:00	0	0	0	1	0	2	9	4	0	0	0	0	0	0	16	46	48
05:00	0	0	0	0	3	7	35	17	4	0	0	0	0	0	66	48	50
06:00	1	0	0	3	0	23	49	22	11	0	0	0	0	0	109	48	52
07:00	3	0	0	0	3	11	51	43	9	1	0	0	0	0	121	49	52
08:00	3	0	0	9	1	16	45	34	8	0	0	0	0	0	116	48	51
09:00	4	0	0	1	3	9	46	37	4	0	0	0	0	0	104	48	50
10:00	1	0	0	7	2	13	72	32	6	0	0	0	0	0	133	47	50
11:00	1	0	0	4	6	23	57	23	3	0	0	0	0	0	117	46	49
12 PM	1	2	5	6	3	34	56	29	1	1	0	0	0	0	138	46	49
13:00	1	0	0	0	7	22	76	35	2	0	0	0	0	0	143	47	49
14:00	2	0	0	8	2	24	67	43	2	2	0	0	0	0	150	47	49
15:00	2	0	3	3	2	36	80	36	5	0	0	0	0	0	167	47	49
16:00	8	0	0	2	0	52	114	43	4	2	0	0	0	0	225	46	49
17:00	3	0	0	0	7	35	89	32	3	0	0	0	0	0	169	46	49
18:00	1	0	0	0	1	20	68	34	3	0	0	0	0	0	127	47	49
19:00	0	0	0	3	3	32	50	21	5	1	0	0	0	0	115	47	51
20:00	0	0	0	0	1	16	44	17	1	0	0	0	0	0	79	46	49
21:00	0	0	0	0	5	23	17	11	2	0	0	0	0	0	58	46	49
22:00	0	0	0	0	2	8	14	5	1	0	0	0	0	0	30	46	49
23:00	0	0	0	0	0	3	10	6	1	0	0	0	0	0	20	48	50
Total	31	2	8	47	52	415	1059	525	77	7	0	0	0	0	2223		
Percent	1.4%	0.1%	0.4%	2.1%	2.3%	18.7%	47.6%	23.6%	3.5%	0.3%	0.0%	0.0%	0.0%	0.0%			
AM Peak	09:00			08:00	11:00	06:00	10:00	07:00	06:00	07:00					10:00		
Vol.	4			9	6	23	72	43	11	1_					133		
PM Peak	16:00	12:00	12:00	14:00	13:00	16:00	16:00	14:00	15:00	14:00					16:00		
Vol.	8	2	5	8	7	52	114	43	5	2					225		

Location: Route 9

Grand

Total

Percent

Location: West of Rock House Reservation City, State: West Brookfield, Massachusetts Client: Coler & Colantonio / J. Morgan

50 Alden Avenue Belchertown, MA 01007 413.668.5094 or www.datayoureguested.com

Eastbound 85th 95th Start Time Percent Percent Total 02/02/12 01:00 02:00 03:00 04:00 O O 05:00 06:00 07:00 O 08:00 O 09:00 10:00 11:00 12 PM 13:00 14:00 15:00 16:00 17:00 18:00 O 19:00 20:00 21:00 22:00 23:00 Total Percent 1.5% 0.0% 0.2% 1.5% 2.2% 16.9% 48.5% 23.6% 5.1% 0.3% 0.1% 0.0% 0.0% 0.0% 07:00 AM Peak 10:00 10:00 08:00 10:00 09:00 07:00 07:00 07:00 05:00 05:00 Vol. PM Peak 13:00 14:00 16:00 15:00 14:00 12:00 14:00 22:00 14:00 16:00 16:00 16:00 Vol.

0.3%

0.0%

0.0%

0.0%

0.0%

15th Percentile: 37 MPH 50th Percentile: 42 MPH 47 MPH 85th Percentile: 95th Percentile: 50 MPH

2.3%

17.8%

48.1%

23.6%

4.3%

Statistics 10 MPH Pace Speed: 39-48 MPH

0.0%

1.5%

Number in Pace: Percent in Pace: 68.5% Number of Vehicles > 50 MPH:

Percent of Vehicles > 50 MPH: 6.9% Mean Speed(Average): 42 MPH

0.3%

Location: Route 9

Location: West of Rock House Reservation City, State: West Brookfield, Massachusetts Client: Coler & Colantonio / J. Morgan

50 Alden Avenue Belchertown, MA 01007 413.668.5094 or www.datayourequested.com

Westbound, Eastbound

Start	1	16	21	26	31	36	41	46	51	56	61	66	71	76		85th	95th
Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total	Percent	Percent
02/01/12	0	0	0	0	1	3	6	1	1	0	0	0	0	0	12	44	45
01:00	0	0	0	0	1	2	2	2	1	0	0	0	0	0	8	*	*
02:00	0	0	0	0	1	5	3	2	0	0	0	0	0	0	11	43	44
03:00	0	0	0	0	2	5	4	0	0	0	0	0	0	0	11	42	43
04:00	0	0	0	1	1	4	11	6	0	0	0	0	0	0	23	46	48
05:00	0	0	0	0	3	15	50	25	5	0	0	0	0	0	98	48	51
06:00	1	0	0	3	6	82	84	25	11	0	0	0	0	0	212	46	50
07:00	5	0	0	0	9	71	139	50	9	1	0	0	0	0	284	46	49
08:00	7	0	0	9	3	84	108	46	8	0	0	0	0	0	265	46	49
09:00	5	0	0	1	5	61	104	45	4	0	0	0	0	0	225	46	49
10:00	2	0	0	7	12	84	115	37	6	0	0	0	0	0	263	45	49
11:00	1	0	0	4	9	93	112	29	4	0	0	0	0	0	252	45	48
12 PM	3	2	5	8	13	99	110	33	1	1	0	0	0	0	275	45	47
13:00	2	0	0	0	8	85	121	38	2	0	0	0	0	0	256	45	48
14:00	4	0	0	8	15	84	126	49	2	2	0	0	0	0	290	45	48
15:00	4	0	3	3	8	138	163	42	5	0	0	0	0	0	366	45	48
16:00	9	0	0	3	15	134	184	54	4	2	0	0	0	0	405	45	48
17:00	7	0	0	2	14	116	164	34	3	0	0	0	0	0	340	45	47
18:00	3	0	0	0	9	81	115	42	3	0	0	0	0	0	253	46	48
19:00	0	0	0	4	6	62	79	27	5	1	0	0	0	0	184	46	49
20:00	1	0	0	1	3	47	68	18	1	0	0	0	0	0	139	45	48
21:00	0	0	0	0	7	44	30	13	2	0	0	0	0	0	96	45	48
22:00	0	0	0	0	5	20	23	8	3	0	0	0	0	0	59	46	50
23:00	0	0	0	0	11	17	17	8	11	0	0	0	0	0	44	46	49
Total	54	2	8	54	157	1436	1938	634	81	7	0	0	0	0	4371		
Percent	1.2%	0.0%	0.2%	1.2%	3.6%	32.9%	44.3%	14.5%	1.9%	0.2%	0.0%	0.0%	0.0%	0.0%			
AM Peak	08:00			08:00	10:00	11:00	07:00	07:00	06:00	07:00					07:00		
Vol.	7			9	12	93	139	50	11	1					284		
PM Peak	16:00	12:00	12:00	12:00	14:00	15:00	16:00	16:00	15:00	14:00					16:00		
Vol.	9	2	5	8	15	138	184	54	5	2					405		

Location: Route 9

Location: West of Rock House Reservation City, State: West Brookfield, Massachusetts Client: Coler & Colantonio / J. Morgan

50 Alden Avenue Belchertown, MA 01007

413.668.5094 or www.datayourequested.com

Start	1	16	21	26	31	36	41	46	51	56	61	66	71	76		85th	95th
Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total	Percent	Percer
02/02/12	0	0	0	0	0	5	10	4	0	0	0	0	0	0	19	46	48
01:00	0	0	0	0	1	3	6	0	1	0	0	0	0	0	11	43	4
02:00	0	0	0	0	0	5	2	0	0	0	0	0	0	0	7	40	4
03:00	0	0	0	0	3	2	5	3	0	0	0	0	0	0	13	46	4
04:00	2	0	0	0	2	7	9	8	0	0	0	0	0	0	28	47	49
05:00	0	0	0	2	3	13	50	15	5	1	1	0	0	0	90	47	5
06:00	3	0	0	0	4	72	86	38	6	1	0	0	0	0	210	46	49
07:00	2	0	0	0	2	67	143	54	12	1	0	0	0	0	281	47	50
08:00	4	0	0	9	3	73	140	41	9	0	0	0	0	0	279	46	49
09:00	2	0	0	0	6	76	139	44	8	0	0	0	0	0	275	46	49
10:00	9	0	1	7	5	80	119	28	9	0	0	0	0	0	258	45	49
11:00	7	0	0	0	9	82	119	52	5	1	0	0	0	0	275	46	49
12 PM	0	0	0	6	10	85	123	52	7	2	0	0	0	0	285	46	49
13:00	6	0	0	0	10	79	148	44	5	0	0	0	0	0	292	46	49
14:00	5	0	3	7	7	81	139	43	16	1	1	0	0	0	303	46	50
15:00	7	0	0	4	13	96	178	58	11	1	0	0	0	0	368	46	49
16:00	5	0	0	2	15	132	215	55	3	1	0	0	0	0	428	45	48
17:00	3	0	0	1	27	115	159	37	8	0	0	0	0	0	350	45	48
18:00	4	0	0	0	10	113	136	23	6	0	0	0	0	0	292	44	48
19:00	4	0	0	0	6	61	77	20	3	0	0	0	0	0	171	45	48
20:00	0	0	1	0	2	39	55	20	7	0	0	0	0	0	124	47	5
21:00	0	0	0	0	3	37	48	11	2	0	0	0	0	0	101	45	48
22:00	0	0	0	0	6	27	29	10	1	0	0	0	1	0	74	45	48
23:00	0	0	0	0	4	15	17	5	2	0	0	0	0	0	43	45	49
Total	63	0	5	38	151	1365	2152	665	126	9	2	0	1	0	4577		
Percent	1.4%	0.0%	0.1%	0.8%	3.3%	29.8%	47.0%	14.5%	2.8%	0.2%	0.0%	0.0%	0.0%	0.0%			
AM Peak	10:00		10:00	08:00	11:00	11:00	07:00	07:00	07:00	05:00	05:00				07:00		
Vol.	9		1	9	9	82	143	54	12	11	1				281		
PM Peak	15:00		14:00	14:00	17:00	16:00	16:00	15:00	14:00	12:00	14:00		22:00		16:00		
Vol.	7		3	7	27	132	215	58	16	2	1		11		428		
Grand Total	117	2	13	92	308	2801	4090	1299	207	16	2	0	1	0	8948		
Percent	1.3%	0.0%	0.1%	1.0%	3.4%	31.3%	45.7%	14.5%	2.3%	0.2%	0.0%	0.0%	0.0%	0.0%			

15th Percentile: 36 MPH 50th Percentile: 41 MPH 85th Percentile: 46 MPH 95th Percentile: 49 MPH

Statistics 10 MPH Pace Speed: 37-46 MPH

 Number in Pace :
 6313

 Percent in Pace :
 70.6%

 hicles > 50 MPH :
 353

Number of Vehicles > 50 MPH: 353
Percent of Vehicles > 50 MPH: 3.9%
Mean Speed(Average): 41 MPH

Appendix B Accident Data

- Accident Reports
- Crash Rate Worksheets
 - Collision Map

Accident Data

MassDOT and Town of West Brookfield Police Accident Reports

MAS	SHIGHWAY	MassDO	OT Cras	h Reports	s for W	est Bro	kfield betwee	n Pierce Road and	I Ware T.L.2007											
		Total Total Distance from Number of Nonfatal Fatal Distance from Nearest Distance from N																		
																Distance from Nearest Roadway	Nearest	Distance from	Distance from Nearest	
Crash Number	City/Town Name	Crash Date	Crash Time	Crash Severity	Vehicles	Injuries Inju	ies Manner of Collision	Vehicle Action Prior to Crash	Vehicle Travel Directions	Most Harmful Events	Vehicle Configuration	Condition	Ambient Light	Weather Condition	At Roadway Intersection	Intersection	Milemarker	Nearest Exit	Landmark	Non Motorist Type
#REF!																				
																500 feet W from Intersection MAIN				
	WEST							V1: Unknown / V2:Travelling		V1: Overturn/rollover / V2:	V1: Passenger car / V2:Not					STREET Rte 9 W / SHORELINE				
2168174	BROOKFIELD	12-Mar-2007	10:17 AM	Non-fatal injury	2	4 0	Angle	straight ahead	V1:Eastbound / V2:Westbound	Collision with tree	reported	Dry	Daylight	Clear		DRIVE				
				Property damage																
	WEST			only (none											MILL ROAD / MAIN STREET	•				
2217325	BROOKFIELD	15-Aug-2007	8:26 AM	injured)	1	0 0	Single vehicle crash	V1: Travelling straight ahead	V1:Eastbound	V1: Collision with utility pole	V1: Not reported	Dry	Daylight	Clear	/ PIERCE ROAD					

WEST BROOKFIELD2007.xls Page 1

mas	SDOT	MassDo	OT Cras	h Reports	s for We	est Broo	kfield betweer	n Pierce Road and	d Ware T.L. 2008										
Crash Number	City/Town Name	Crash Date	Crash Time			Total Total Nonfatal Fatal Injuries Injuri		Vehicle Action Prior to Crash	Vehicle Travel Directions	Most Harmful Events	Vehicle Configuration	Road Surface Condition		Weather Condition	At Roadway Intersection	Distance from Nearest Roadway Intersection	Distance from Nearest Milemarker	Distance from Nearest Landmark	Non Motorist Type
#REF!																			
2345373	WEST BROOKFIELD	11-Jun-2008	9:45 PM	Non-fatal injury	1	1 0	Single vehicle crash	V1: Turning left	V1:Westbound	V1: Collision with guardrail	V1: Passenger car		Dark - roadway not lighted	Clear		Rte 9 W / Rte 9		NEAR WARE LINE	
	WEST							V1: Travelling straight ahead / V2:Travelling straight ahead /		V1: Collision with motor vehicle in traffic / V2: Collision with motor vehicle in / traffic / V3: Collision with	V1: Passenger car / V2:Passenger car /								

WEST BROOKFIELD2008.xls Page 1

From: 01/01/2005 Thru: 01/01/2010

09/23/2010

Vehicle Owner> (Veh# 1 Operator> 4 Veh# 1 Officer State Rpt/Acc. Date & Time Location / Street Names 16-55-AC WFL 12/05/2006 1205 LONG HILL RD Vehicle Owner> Veh# 1 Veh# 1 Operator> Veh# 1 Passenger> 37-2-AC Officer State Rpt/Acc. Date & Time Location / Street Names W MAIN ST 12/30/2006 1347 veh# 1 Vehicle Owner> Veh# 1 Operator> State Rpt/Acc. Date & Time Officer Location / Street Names 17-1-AC 01/01/2007 0110 HAP Yes NEW BRAINTREE RD Veh# 1 Injured Vehicle Owner> Operator> Veh# 1 Injured Witness> Officer State Rpt/Acc. Date & Time 77-3-5C Location / Street Names 01/06/2007 1245 BIL Yes W MAIN ST @ SHORELINE DR Veh# 1 Vehicle Owner> Injured Operator> Veh# 1 Injured Veh# 2 Operator> Vehicle Owner> Veh# 2 37-4-AC Officer State Rpt/Acc. Date & Time Location / Street Names BIL Yes 01/07/2007 0830 BOSTON POST RD @ W MAIN ST Vehicle Owner> Veh# 1 Veh# 1 Operator> Veh# 1 Passenger> Passenger> Veh# 1 Passenger> Veh# 1 Operator> Veh# 2 Vehicle Owner> Veh# 2 07-5-AC Officer State Rpt/Acc. Date & Time Location / Street Names 01/14/2007 1215 HAP Yes W MAIN ST @ BOSTON POST RD Vehicle Owner> Veh# 1 Operator> Veh# 1 Operator> Veh# 2 Vehicle Owner> 4 Veh# 2 07-6-AC Officer State Rpt/Acc. Date & Time Location / Street Names CHL 01/15/2007 1530 CHURCH ST @ LAKE ST Vehicle Owner> Veh# 1 Injured Veh# 1 Operator> Injured Vehicle Owner> Veh# 2 Operator> Veh# 2 Officer 07-7-AC State Rpt/Acc. Date & Time Location / Street Names HAP Yes 01/22/2007 1753 FOSTER HILL RD Vehicle Owner> Veh# 1 Operator> Veh# 1 Passenger> Veh# 1 07-8-AC Officer State Rpt/Acc. Date & Time Location / Street Names 01/27/2007 1430 BIL Yes IN FRONT OF SACRED HEART / W MAIN ST @ MILK ST

Veh# 1

Veh# 1

Vehicle Owner>

Operator>

From: 01/01/2005 Thru: 01/01/2010 09/23/2010

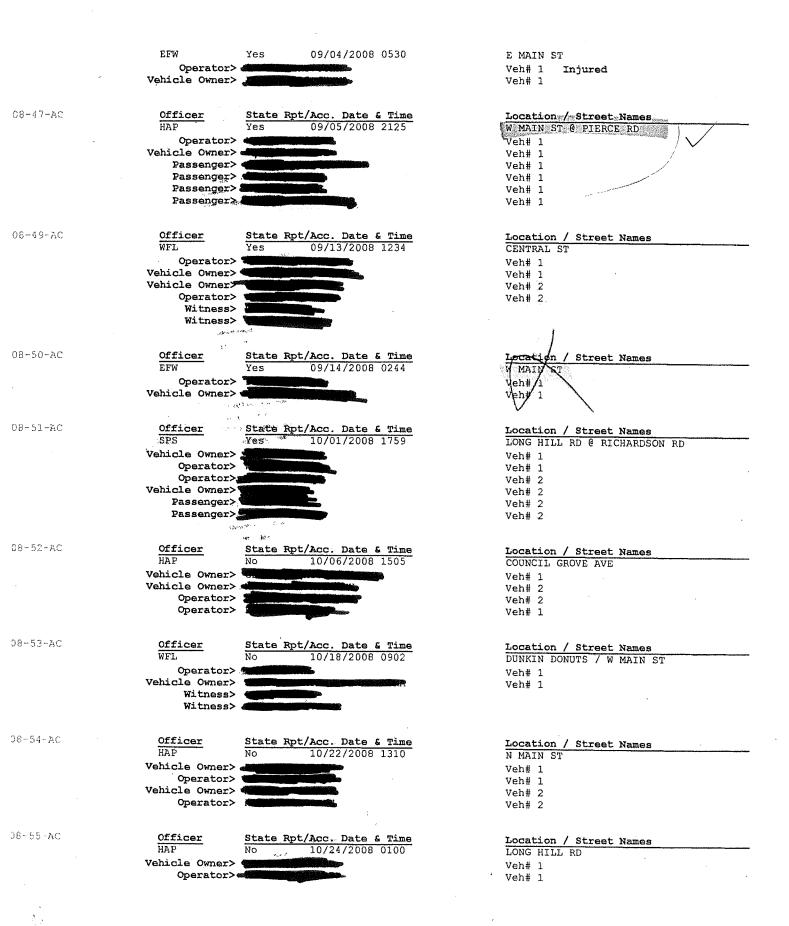
Veh# 1

Operator> LEAS JOSEPH Veh# 2 07-26-AC State Rpt/Acc. Date & Time Location / Street Names 07/01/2007 1115 · W MAIN ST @ SHORELINE DR BIL Yes Vehicle Owner> Veh# 1 Veh# 1 Operator> Operator> Veh# 2 Vehicle Owner> Veh# 2 : 54 '46 Officer State Rpt/Acc. Date & Time Location / Street Names 07-27-AC HAP 07/12/2007 2026 LONG HILL RD Veh# 1 Operator> Injured Vehicle Owner> Veh# 1 Passenger> Veh# 1 Injured Officer State Rpt/Acc. Date & Time Location / Street Names 07-28-AC SPS 07/19/2007 2313 WICKABOAG VALLEY RD Vehicle Owner> Veh# 1 Operator> Veh# 1 Injured 07-29-AC Officer State Rpt/Acc. Date & Time Location / Street Names 07/22/2007 0010 Yes B.TA W MAIN / W MAIN ST Veh# 1 Operator> Vehicle Owner> Veh# 1 07-30-AC Officer State Rpt/Acc. Date & Time Location / Street Names HAP Yes 07/22/2007 1517 W MAIN ST @ BOSTON POST RD Vehicle Owner> Veh# 1 Operator> Veh# 1 Operator> Veh# 2 Vehicle Owner> Veh# 2 Officer 07-31-AC State Rpt/Acc. Date & Time Location / Street Names 07/23/2007 1025 CHT Yes NEAR WALSH INSURANCE / CENTRAL ST Vehicle Owner> Veh# 1 Operator> Veh# 1 Vehicle Owner> Veh# 2 Operator> (Veh# 2 Off<u>icer</u> 07-32-¤₽ State Rpt/Acc. Date & Time Location / Street Names CHL 07/23/2007 1815 CHURCH ST Vehicle Owner> Veh# 1 Operator> & Veh# 1 07-33-AC Officer State Rpt/Acc. Date & Time Location / Street Names CHL 07/27/2007 1024 Yes DUNKIN DONUTS / W MAIN ST Vehicle Owner> Veh# 1 Operator> Veh# 1 Vehicle Owner> Veh# 2 Injured Operator> Veh# 2 Injured Officer 07-34-AC State Rpt/Acc. Date & Time Location / Street Names WFL 08/15/2007 0826 MILL RD @ W MAIN ST Vehicle Owner> Veh# 1 Operator> Veh# 1 State Rpt/Acc. Date & Time Yes 08/22/2007 1400 07-35-AC Officer Location / Street Names BIL E MAIN ST @ RIDGE RD Vehicle Owner> Veh# 1

Operator>

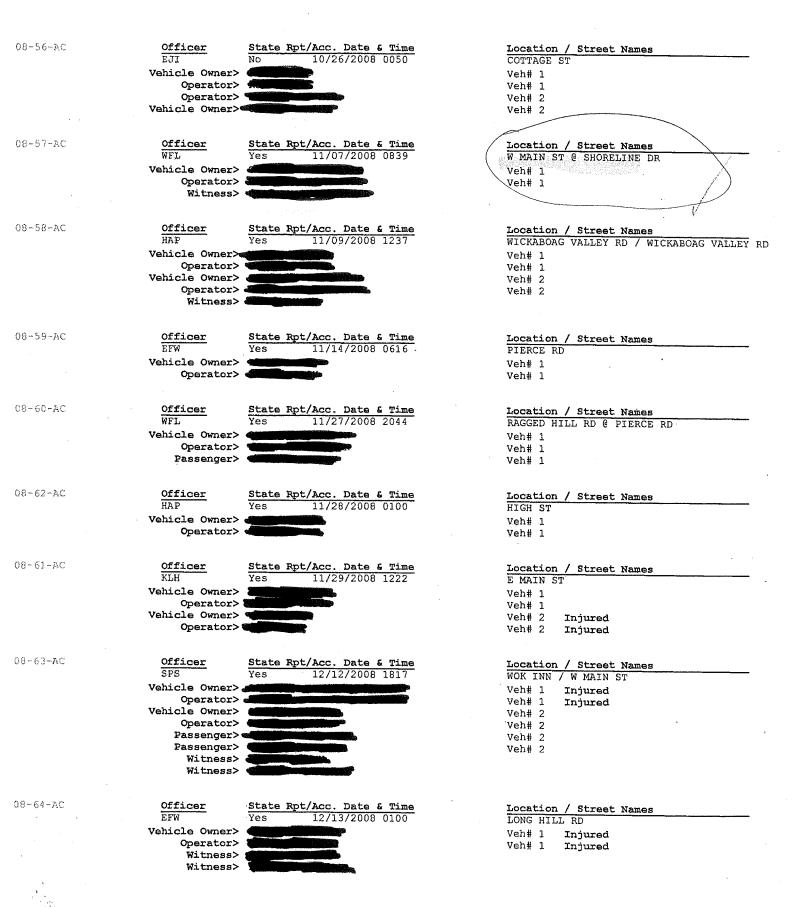
From: 01/01/2005 Thru: 01/01/2010

09/23/2010



From: 01/01/2005 Thru: 01/01/2010

09/23/2010



- 40	4			Commony	wealth o	of Massac	huset	ts				
,	Date of Crash	Time of Crash	City/Town West Brookf	Mot	tor Veh	icle Crasi	Num Vehi		r Speed Li	mit <u>40</u>	State Police Local Police MBTA Police	ce D
ľ	11/12/2010	2130 24HR	Mede Droom		Police I	Report	1	0	Lon.		MBTA Po	olice U
	1	AT INTER	SECTION:		LOCA	TION >		NOT.	AT INT	ERSEC'	TION:	
ſ							015		FR TRY (~ 271		2
1	Route# Dire	ction	· Name of R	oadway/Street		Route# Direction	315 Addres		IAIN S	e of Roadw	ay/Street	
]	141,57			At		F., [N	SEW					2
	Route# Dire	ction	Name of Intersec	ting Roadway/Street		Feet [10	o E W		Marker	— 01 <u> </u>	Exit Num	ber
	Route# Dife	cnon		ersection with	·	Feet N	SEW	of		4tt) d	
1						Feet N	SEW	Route#	111	tersecting r	Roadway/Stree	1
-	Route# Dire	ction	Name of Intersec	ting Roadway/Stree						Landmarl	ζ	
	Please Select		le 1 <u>1</u> #Occupants	Hit/Run	Moped			10-	4-A	C		
-	License #1		St DOB/A	OP COLUMN	Reg /			Reg "	vpe	R	eg State	
	Sex Lic.	Clare 18	18 Lic. Restrictions	19 CDL	_	Year			-		Config.	20
4	***************************************	Class D M	Lie. Restrictions	Endorseme							1	
	Operator	last	First	Middle	Addr	Lo	l .	First		М	iddle	3
	Address				Addi				State	Zio 🚅		
	City	C	- Signes - Zip			cle Action Prior to C	meh:	1 21		NAME .	: (Circle Up to	Three
_	Insurance Com			ing to Emergency?			L	10.000000000000000000000000000000000000	2	3	4	7 1160,
-	Vehicle Travel	المبسيا	S W Respondi	ing to Emergency?_			27 ²³	2 (1) \$15 (1) (5)		4	0 Non	e lercarriage
	Citation # (If Is					er Contributing Cod	[N-90-38]		**	州	97 Oth	aled er
_			Viol, 2: Ch/S						8	7	99 Unk	nown
	Viol. 3: Ch/Sec		Viol. 4: Cl/S		· Ond	emde/Ovemde	26	27 28	29 30	31 32	33	
	Name (Last First		ut for operator and an o	Address		DOB/Age	Sex Pos	Safety Airbag A	urbag Eject witch Code	Trap Injury Code Status	Transtr	ical Facility 2
		Operator		See Abov	е			99 4 9	9 0	0 5	1	
			•									
			· .									
					· · · · · · · · · · · · · · · · · · ·							
	Please Select	One Co	icle 2#Occupani			14 Action	15 Locatio	16	ondition	17	Hit/Run	Monad
	of the Follow	ving: Ven	cie Z	T Mon-Motor	ist A Type	Action	Localio		,8%			, iropea
	License #	[700 vol∞	S1 DOB/.	Age	Reg	#		Reg	Туре	1	Reg State	20
	Sex Lic	c. Class	Lic, Restrictions	CDL		Year	Veh M	ake		Ve	ch Config.	
	Operator	Losi	First	Middle	Ow	ner	nst	Fir	si	. 1	Middle	
_	Address					lress		· · · · · · · · · · · · · · · · · · ·				
	City		State Zí	p	City		1		_State	Zip	`	
	Insurance Con	npany	<u> </u>		Vel	nicle Action Prior to		21	•	d Area Cod	e; (Circle Up	to Three)
	Vehicle Trave	l Direction: N	S E W Respond	ding to Emergency?.	Eve	nt Sequence	22 22	22 22	2	ďЯ	0 No	
	Citation # (1f I	ssued)			Мо	st Harmful Event	23		1	9	5 10 Un	dercarriage taled
	Viol. 1: Ch/Se	ec/Sub ———	/ Viol. 2: Ch/	Sec/Sub	/ Dri	ver Contributing Co	ie	24 24		$\frac{1}{7}$	97 Ot 99 Ur	her iknown
	Viol. 3: Ch/Se	c/Sub	/ Viol. 4: Ch/	Sec/Sub	/ Une	derride/Override	25	Towed	8	/		
	Name (Last Fire		operator/non-motorist	and all occupants inv		DON/Age	26 Seat Sex Pos	27 28 Safety Airbag System Status	29 30 Airbag Eject Switch Code	31 32 Trup Injus Code State	y Transp.	alical Facility
		perator/Non-Moto	orist	See Abo								-
	ļ							 		 		
	1		}						ı			j
					· · · · · · · · · · · · · · · · · · ·							

	= Direction						
Grash Diagrams	ie: 🕩 🗌	1 2		<u>≥ </u>			•
						If Crash <u>Did</u> on a Public V	
						Off-Street Parl	ing Lot
		street		N		☐ Garage	_
	Main			À			Contor
West		- Clare	The second section of the second second			Mall/Shopping	
and the second s	_	merenda de la companya della companya della companya de la companya de la companya della company	Language Language Control			Other Private \	Vay ∫
•		ng ang ang ang ang ang ang ang ang ang a					
Mary State of the Confession o				<u>a</u>)	(B)		
	,		•	7	7	/ *	
	# 315					North	
Crash Narrative:							
Wehicle 1, a	bear	ring Massach	suetts reg	istration	n of the latest and t	was opera	ted by
			ding to Re				
hen it hit sand	at the edge of	the roadway	. rene st	ated he	lost con	trol of th	je
ehicle and hit	a large rock on	the side of	the roadw	ay and th	nen an e	embankment	of snow.
							2
					<u> </u>		
	<u>aniana (</u> a anaga ania arang ang ang ang ang ang ang ang an anananan	Acceptable to the second secon					
Witnesses:							
translational and the second and the		Address			Phone #		Stateme
translational and the second and the		Address			Phone #		Stateme
Standarfilmed assets of the second standard and second standard frameworks		Address			Phone #		Stateme
Name (Last,First,Middle)		Address			Phone #		Stateme
Witnesses: Name (Last,First,Middle) Property Damage: Owner (Last,First,Middle)	Address	Address	Phone #	34-Туре		Damaged Property	
Name (Last,First,Middle) Property Dannage:	Address	Address	Phone #	34-Type		Damaged Property	
Name (Last,First,Middle) Property Damage:	Address	Address	Phone #	34-Type		Damaged Property	
Name (Last,First,Middle) Property Dannage:	Address	Address	Phone #	34-Type		Damaged Property	
Name (Last,First,Middle) Property Damage:		Address				Damaged Property	
Name (Last,First,Middle) Property Damage; Owner (Last,First,Middle)	mation: Registration#		(From Vel	nicle Section)	Description of	·	35
Name (Last, First, Middle) Property Damage; Owner (Last, First, Middle) Truck and Bus Inford Carrier Name	mation: Registration #		(From Vel	nicle Section)	Description of Carrier Is:	suing Authority Code	35
Name (Last, First, Middle) Property Damage: Owner (Last, First, Middle) Truck and Bus Information Carrier Name Address	mation: Registration #		(From Vel	nicle Section)	Description of Carrier Is:	suing Authority Code	35
Property Damage: Owner (Last, First, Middle) Truck and Bus Information Carrier Name Address	metion: Registration #		(From Vel	nicle Section)	Description of Carrier Is:	suing Authority Code	35
Property Damage; Owner (Last, First, Middle) Pruck and Bus Information Carrier Name Address	mation: Registration #	38	(From Vel	nicle Section)	Description of Carrier Is:	suing Authority Code	35
Property Damage: Owner (Last,First,Middle) Truck and Bus Inford Carrier Name Address US DOT #: Cargo Body Type Code	Registration #	38	City Issuing State	nicle Section)	Description of Carrier Is:	suing Authority Code	35
Property Damage: Owner (Last,First,Middle) Truck and Bus Inford Carrier Name Address US DOT #: Cargo Body Type Code	Registration #	38	City Issuing State	nicle Section)	Description of Carrier Is:	suing Authority Code	35
Property Damage: Owner (Last, First, Middle) Truck and Bus Inford Carrier Name Address US DOT #: Cargo Body Type Code Trailer Reg #: Hazmat Information:	State Number Gross Vehicle Weight Reg Type	38	City	nicle Section) ICC #:	Description of Carrier Is: S ler Length	suing Authority Code St Zip Intersta	35 ate 36
Property Dannage: Owner (Last, First, Middle) Truck and Bus Inford Carrier Name Address US DOT #: Cargo Body Type Code Trailer Reg #: Hazmat Information:	State Number Gross Vehicle Weight Reg Type	Reg State	City	nicle Section) ICC #:	Description of Carrier Is: S ler Length	suing Authority Code St Zip Intersta	35 ste 36
Property Damage: Owner (Last, First, Middle) Truck and Bus Inford Carrier Name Address US DOT #: Cargo Body Type Code Trailer Reg #: Hazmat Information:	State Number State Number Gross Vehicle Weight Reg Type al 1 digit # Material	Reg State	City	nicle Section) ICC #:	Description of Carrier Is: S ler Length	suing Authority Code St Zip Intersta	35 ate 36

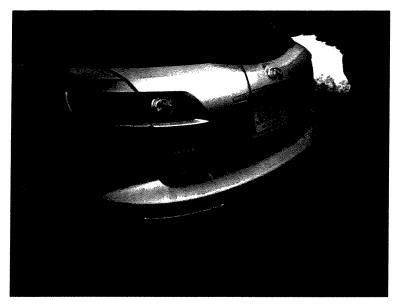
•					Comn	nonv	vealth	of Mas	sacl	hus	etts	S							7	
	Date of Crash 03/11/2013	Time of Crash	West	City/Town Brookf	i a l d	Mo	tor Vel	nicle Ci	rash	\ [;	Number /ehicle:		nber ured	1 -		1_4	0	State Police Local Police MBTA Police	1	
	03/11/2013	24HR	i	DIOORI	1614		Police	Report	t	3		3		Lat.				MBTA Police C	5	
		AT INTER	SECT	ION:		<	LOC	ATION	>			NO	T A	ΓIN	TER	RSEC	CTIC	ON:		و
		W M	AIN	em.															2	
¹ 1	Route# Direc			Name of Ro	oadway/Stre	et		Route# Di	rection	Add	lress #			N	ame of	Road	way/S	treet		10
L	1	nrmi	000		At			Fe	et N S	SEV	of			_ (- or			2	
	Route# Direc		RCE Nan	ne of Intersect	ing Roadwa	ay/Street						M	ile Ma	arker				Exit Number	4	
<u></u>				Also at Inte	rsection wit	th		Ī	et N S		_	Route	e#		Inters	ecting	Road	way/Street		
² 2	Route# Direc	ction	Nan	ne of Intersect	ing Roadwa	y/Street		Fe	et N S	S E W	of								_ 2 '	11
3	Please Select C)ne 521	-	" O	<u> </u>			l				_	4	4		andma	rk		╁	
	of the Followin		e 14_	_#Occupants	Hit/R	un	Moped					3-	Ί.	<u> </u>	AC	-				
	License # S	10	St _	DOB/Ag	e 10		Reg	#	6			Re	д Туре			F	Reg St	ate 20		
	Sex Lic. (Class D	Lic. F	Restrictions	CD End	L	Veh	Year	<u> </u>	Veh N	lake¶					Ve	h Con	fig. 1		
⁴ 1	Operator	Lest		First		Middle	Own	er Manager	Last			Fi	rst			N	Aiddle .		1	2
	Address			***************************************			Addr	ess .			SD.								-	ل
	City	B	Stat	Zip			City!	3				<u> </u>	_ Sta	te.	_ 2	Zip O				
	Insurance Compa						Vehic	ele Action Prior	to Cras		2	21	Da 2	amage	d Area	Code	(Circ	cle Up to Three)		
⁵ 2	Vehicle Travel D	rirection: N S	Xw	Responding	g to Emerge	ncy? 2	Even	Sequence 1	. 22	22	22	22			Tİ	<u>,</u>	7	0 None		
	Citation # (If Issu	•						Harmful Event	1	23			1	+	P		(3	10 Undercarriag	ge	
6		Sub/		Viol. 2: Ch/Sec				r Contributing		1	24	24	8		Ц,	_لا_	ഽ	97 Other 99 Unknown		
6 1	Viol. 3: Ch/Sec/S			/iol. 4: Ch/Sec			Unde	rride/Override	99		Towe	,			T	T				
	Name (Last First Mi		tor opera	tor and all occ	•	ived ddress		DOB/Age	Sex	26 Seat Pos.	27 Safety System	28 Airbag Status	29 Airbag Switch	30 Eject Code	31 Trap Code	32 Injury Status	33 Transp Code	Medical Facility	1 1	3
		Operator			See	Above					1	4	99	0	0	4	2	Mary Lane Hospital	-	لـ
				1															1	
											<u> </u>								1	
									1	 	 				-	 			1	
⁷ 3	Please Select O	ne 🔀 Vehicle	- 2	#Occupants	<u> </u>			14	15			16		Г	17			<u> </u>	1	
	of the Followin		24		Non-M	1otorist /	A Type	Action		Location	on _		onditi	on			Hit/R	un Moped	1	
	License #	18 1	····y	DOB/Age	19		4 Reg #		5			Reg	Туре		<u> </u>	R	eg Sta	20		
	See Lic. C	Class D 1	Lic. R	estrictions	CDL	orsement	Veh Y	ear Caract		Veh M	ake 👤		<u> </u>		····	Veh	Confi			
1	Operator	Lest		First)	Middle	Owne	r S	Last			Fin	st			м	iddle			
	Address						Addre	ss			D									
l	City		D State	Zip_			_ City _					21	_ Stat			ip O				
	Insurance Compa		N					e Action Prior	to Crash	22	22		Da:	maged	Area 3	Code:	(Circl	le Up to Three)		
l	Vehicle Travel Di		AW	Responding	to Emergen	1cy?_ <u></u>		Sequence 1		23					Ţ	7	J	0 None		
	Citation # (If Issu	720CMR9 .m				1		Harmful Event	<u> </u>	ᆛ	24	24	₩		٦		-) -	10 Undercarriage 11 Totaled 97 Other		
	Viol. 1: Ch/Sec/Si	,	•	iol. 2: Ch/Sec/		, ,		Contributing (99	<u> </u>	Tower		8		7	_لا_	6	99 Unknown		
-	Viol. 3: Ch/Sec/Su Plea	se fill out for oper		iol. 4: Ch/Sec/		s involve		inc/Overnae	 39 	26	27	28	29	30	31	32	33		-	
-	Name (Last First Mid	-			•	ktress	-	DOB/Age	Sex	Scat Pos.	Safety System	Airbeg / Status /	turbeg Switch	Eject Code	Trap Code	Injury Status	Transp Code	Medical Facility	-	
	Operat	tor/Non-Motorist			See A	Above					1	4 9	9	0	0	4	1			
				7						3	1	4 9	9	0	•	4	1			
																			İ	

•		Comm	ionwealth	oi Massac	husetts	S				
	Date of Crash Time of Crash	City/Town	Motor Veh	icle Crast	Number Vehicle:		Speed Limit	40	State Police	1
	03/11/2013 1605 West	Brookfield	Police	Report	3	Injured 3	Lat Lon		State Police Local Police MBTA Police Other:	
	AT INTERSECTI	ON:	< LOC				r inter			
									71 (*	2 9
	W MAIN S	T. T			***************************************			W		.
1	Route# Direction	Name of Roadway/Stree	et .	Route# Direction	Address #		Name of	Roadway/S	treet	2 10
	PIERCE P			Feet N	S E W of		- •	or		F
		e of Intersecting Roadway	y/Street			Mile Ma	ırker	<u> </u>	Exit Number	1
		Also at Intersection with	1	Feet N	S E W of	Route#	Interse	ecting Road	wav/Street	
² 2	Route# Direction Nam	e of Intersecting Roadway	//Street	Feet N	S E W of				,	2 11
	Touch proton	e or microcolling routeway	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				La	ndmark		┡
3	Please Select One of the Following:	#Occupants Hit/Ru	n Moped		1	3-1	1-AC	;		
L	License # 21 St	DOB/Age	Reg	2008		Reg Type		Reg St	ate Car	
	18 19	19	•					-	20	
			orsement		Veh Make	•		ven Con	ng.	
⁴ 1	Operator Last	First N	Own	er Last		First		Middle	· · · · · · · · · · · · · · · · · · ·	1 12
	Address	RD	Addr	ess						
	City State	Zip 0	City			Sta	te 7	Cip		
	Insurance Company		Vehic	le Action Prior to Cra	ih 1		amaged Area	Code: (Circ	cle Up to Three)	
⁵ 2	Vehicle Travel Direction: NSWW	Responding to Emergen	cy? 2 Event	Sequence 22	22 22	22 (2)	<u> </u>	\frac{1}{1}	0 None	
	Citation # (If Issued)	_	Most	Harmful Event 1	23	(1)	← }	5	10 Undercarriage 11 Totaled	
	Viol. 1: Ch/Sec/Sub/ V	iol. 2: Ch/Sec/Sub	/Drive	r Contributing Code	1 24	24			97 Other 99 Unknown	ĺ
⁶ 1	Viol. 3: Ch/Sec/Sub/ Vi	iol. 4: Ch/Sec/Sub		rride/Override 9	25 Towe	8 d 1	7	6	99 Ulikilowii	
		or and all occupants invol-			26 27 Scat Safety	28 29 Airbag Airbag	30 31 Eject Trap	32 33 Injury Transp		_ 13
	Name (Last First Middle)	<u> </u>	kdress	DOB/Age Sen	Pos. System	Status Switch	Code Code	Status Code		1
	Operator	Sec /	Above		1	4 99	0 0	5 1		
⁷ 3		<u> </u>	<u> </u>	14 15	<u> </u>	16	17			l
3	Please Select One of the Following: Vehicle 4	#Occupants Non-M	otorist A Type	Action	Location	Conditi	on 1/	Hit/R	un Moped	
	License #St	DOB/Age	Reg #			Reg Type		Reg Sta	ite	
	18 18	19	-	ear					20	
8_	Operator .		rsement	r					, []	
° 1	Last t	First M	iddle	Last		First		Middle		
	•			SS		٠	~			
	City State_	Zıp	-	<u> </u>		21	e Zi			
	Insurance Company			e Action Prior to Cras		Da م	maged Area	Code: (Circi	le Up to Three)	ı
	Vehicle Travel Direction: NSEW	Responding to Emergence	cy? Event	Sequence 22	22 22	22 2	NĬ	7	0 None	
	Citation # (If Issued)	-	Most 1	Harmful Event	23	1	- ∫ •	(3	10 Undercarriage 11 Totaled	
	Viol. 1: Ch/Sec/Sub/ Viol.	ol. 2: Ch/Sec/Sub ———	/ Driver	Contributing Code	24	24		إللا	97 Other 99 Unknown	
	Viol. 3: Ch/Sec/Sub/ Viol.	ol. 4: Ch/Sec/Sub	/ Under	ride/Override	25 Tower	8 	7	6		
	Please fill out for operator/non-i			Po=::	26 27 Sont Safety	28 29 Airbag Airbag	30 31 Eject Trap	32 33 Injury Transp.	14.1: 15. "	
	Name (Last First Middle)	Add Son A		DOB/Age Sex	Pos. System	Status Switch	Code Code	Status Code	Medical Facility	
	Operator/Non-Motorist	See A	WOVE							
		*								
1		į			1 1 1	1 1	1 1	ı	ı l	

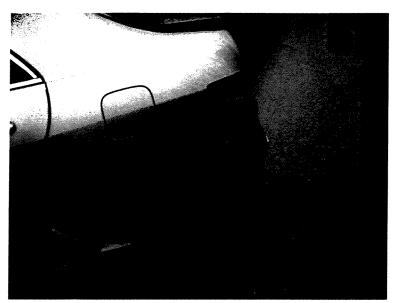
				¥ = Pedest		
Crash Diagram:	ie: 👈 🗀	□ →□	→	. ₹		
		PEROS TO			If Crash Did Non a Public W Off-Street Parkin Garage Mall/Shopping C Other Private Wa	ay:
	÷. ≩			a		
				V		/
					North	
Crash Narrative:						
Vehicle 1,		i, opera	ated by		was stopped in	attempt
to make a left handed	turn from W	lest Main S	Street onto	Pierce	Road. Vehicle 2,a	
2 ope	rated by		l, struck ve	hicle	1 from behind. Veh	icle 3,
a (bearing	Massachuse	tts H	d, oper	ated by
J. struck	vehicle 2 a			-		
				-		
•						· · · · · · · · · · · · · · · · · · ·
,						
Witnesses:					Dhara #	
Witnesses: Name (Last,First,Middle)		Address			Phone #	Statement
Witnesses:		Address			Phone #	Statement
Witnesses: Name (Last,First,Middle)		Address				Statement
Witnesses: Name (Last,First,Middle) I		Address				Statement
Witnesses: Name (Last,First,Middle)	Address	Address	Phone #	34-Туре		Statement
Witnesses: Name (Last,First,Middle) E Property Damage:	Address	Address	Phone #		037	Statement
Witnesses: Name (Last,First,Middle) E Property Damage:	Address	Address	Phone #		037	Statement
Witnesses: Name (Last,First,Middle) E Property Damage:	Address	Address	Phone #		037	Statement
Witnesses: Name (Last,First,Middle) E Property Damage:				34-Туре	037	Statement
Witnesses: Name (Last,First,Middle) Property Damage: Owner (Last,First,Middle) Truck and Bus Information:			Phone #	34-Type Section)	Description of Damaged Property	Statement 35
Witnesses: Name (Last,First,Middle) E Property Damage: Owner (Last,First,Middle)			(From Vehicle	34-Type Section)	Description of Damaged Property Carrier Issuing Authority Code	
Witnesses: Name (Last,First,Middle) Property Damage: Owner (Last,First,Middle) Truck and Bus Information:			(From Vehicle	34-Type Section)	Description of Damaged Property	
Witnesses: Name (Last,First,Middle) Property Damage: Owner (Last,First,Middle) Truck and Bus Information: Carrier Name	Registration #		(From Vehicle	34-Type Section)	Description of Damaged Property — Carrier Issuing Authority Code St Zip	
Witnesses: Name (Last,First,Middle) Property Damage: Owner (Last,First,Middle) Truck and Bus Information: Carrier Name Address US DOT #: 37	Registration #		(From Vehicle	34-Type Section)	Description of Damaged Property — Carrier Issuing Authority Code St Zip	35
Witnesses: Name (Last,First,Middle) Property Damage: Owner (Last,First,Middle) Truck and Bus Information: Carrier Name Address US DOT #: Cargo Body Type Code 37 Gros	Registration # State Number ss Vehicle Weight	38	City Issuing State	34-Type Section) ICC #:	Description of Damaged Property — Carrier Issuing Authority Code St Zip — Interstate	35
Witnesses: Name (Last,First,Middle) Property Damage: Owner (Last,First,Middle) Truck and Bus Information: Carrier Name Address US DOT #: 37	Registration # State Number ss Vehicle Weight	38	City Issuing State	34-Type Section) ICC #:	Description of Damaged Property — Carrier Issuing Authority Code St Zip — Interstate	35
Witnesses: Name (Last,First,Middle) Property Damage: Owner (Last,First,Middle) Truck and Bus Information: Carrier Name Address US DOT #: Cargo Body Type Code 37 Gros	Registration # State Number ss Vehicle Weight	38	City Issuing State	34-Type Section) ICC #:	Description of Damaged Property — Carrier Issuing Authority Code St Zip — Interstate	35
Witnesses: Name (Last,First,Middle) Property Damage: Owner (Last,First,Middle) Truck and Bus Information: Carrier Name Address US DOT #: Cargo Body Type Code Trailer Reg #:	Registration # State Number ss Vehicle Weight Reg Type	38 Reg State	City Issuing State	34-Type Section) ICC #: Trai	Description of Damaged Property — Carrier Issuing Authority Code St Zip — Interstate	35
Witnesses: Name (Last,First,Middle) Property Damage: Owner (Last,First,Middle) Truck and Bus Information: Carrier Name Address US DOT #: Cargo Body Type Code Trailer Reg #: Hazmat Information: 40	Registration # State Number ss Vehicle Weight Reg Type	38 Reg State	City Issuing State	34-Type Section) ICC #: Trai	Description of Damaged Property — Carrier Issuing Authority Code St Zip Interstate Seer Length	35
Witnesses: Name (Last,First,Middle) Property Damage: Owner (Last,First,Middle) Truck and Bus Information: Carrier Name Address US DOT #: Cargo Body Type Code Trailer Reg #: Hazmat Information: 40	Registration # State Number ss Vehicle Weight Reg Type	Reg State	City Issuing State	34-Type Section) ICC #: Trai	Description of Damaged Property — Carrier Issuing Authority Code St Zip Interstate Seer Length	36

CDP1 11-24-0

West Brookfield Police Department Images Associated with 13-11-AC













		Comn	onwealth	of Massach	usetts					
à	Date of Crash Time of Crash	City/Town	Motor Veh	icle Crash	Number Vehicles	Number Injured	Speed Limit_	40	State Police Local Police MBTA Police	7
	04/30/2013 1500 West	t Brookfield	Police :	Report	2	0	Lat		MBTA Police Other:	
	AT INTERSECT	ION:	< LOCA	TION >		NOT A	T INTERS			1
										2 9
1 1	Route# Direction W MAIN	ST Name of Roadway/Stre	et	Route# Direction	Address #		Name of Re	nadway/9	Street	
1	Touter Direction	At At					Name of Ke	Jauway	bucci	2 10
	COY HII			Feet N S	E W of	— — — — Mile Mi	• ,	or	Exit Number	
	Route# Direction Na	me of Intersecting Roadwa Also at Intersection with		Feet N S	E W of	111110 1111	<i>11</i> 1001			1
2	4	Also at Intersection with		Feet N S		Route#	Intersect	ing Road	way/Street	
² 1	Route# Direction Na	me of Intersecting Roadwa	y/Street	reet [N] 3	[2]**] OI		Land			2
3	Please Select Onc Vehicle 11	#Occupants True	Б.,		4	2 1		шагк		1 -
	of the Following: Vehicle	#Occupants Hit/R	un Moped			2-1	6-AC]
		DOB/Age	Reg #			Reg Type		_ Reg St		
	See Lic. Class D 18 Lic.	Restrictions CDI	Veh Y	/ear	Veh Make			Veh Con	ifig. 1	
⁴ 1	Operator K		Own	er Last		First		Middle		12
	Address	,	Addre	4		riist		Middle		
	City State	e Zip	City		È.	Sta	te Zip		M	
	Insurance Company SAFETY IN	SURANCE	Vehic	le Action Prior to Crash	1	21 D	amaged Area Co	ode: (Circ	cle Up to Three)	
5	Vehicle Travel Direction: NSWW	Responding to Emerger	ncy? 2 Event	Sequence 22	22 22	22 2	3	4	A 3.4	
	Citation # (If Issued)	*******	Most	Harmful Event 1	23		<u> </u>	1 3	0 None 10 Undercarriage	
	Viol. 1: Ch/Sec/Sub/	Viol. 2: Ch/Sec/Sub	/ Drive	r Contributing Code	1 24	24			11 Totaled 97 Other	
⁶ 1		Viol. 4: Ch/Sec/Sub		ride/Override 1	25 Tower	2 8	7	6	99 Unknown	
		ator and all occupants invol		T I	26 27 Sent Safety	28 29 Airbag Airbag	30 31 Eject Trap In	32 33 jury Transp		13
	Name (Last First Middle)		ddress	DOB/Age Sex	Pos System	Status Switch	Code Code St	atus Code	Medical Facility	1
	Operator	See .	Above		1	4 99	0 0 5	1	 	
			W-W-W-W-W-W-W-W-W-W-W-W-W-W-W-W-W-W-W-							
				,						
1	Please Select One of the Following:	_#Occupants Non-M	lotorist A Type	14 Action 15 L	ocation	16 Conditi	on 17] Hit/R	un Moped	
	18 18	DOB/Age 19	1 Reg#			Reg Type		Reg Sta	20	
2		Restrictions CDL Endo	rsement		eh Make	D F		Veh Conf	ng. 🗘	
1	Operator	First N	Owne	Last		First		Middle		
	Address State		Addre	SS	<u>*</u>					
	City State Insurance Company LIBERTY M	•	City	A ci Di co C	[Stat		1 (0)		
			_	e Action Prior to Crash	1 ⁴ 22 22] Da	maged Area Co 3	de: (Circ	le Up to Three)	
	Vehicle Travel Direction: NSWW	Responding to Emergen	•		23		ΛI		0 None 10 Undercarriage	
	Citation # (If Issued)			Iannia Event		(1)◀	- /	3	11 Totaled 97 Other	
	,	/iol. 2: Ch/Sec/Sub ———			늨ᆜ	$ ^{8}$ $^{-}$	V 1 3	' '	99 Unknown	
ļ	Viol. 3: Ch/Sec/Sub	/iol. 4: Ch/Sec/Sub		ride/Override 1	26 27	28 29	30 31 3.	2 33		
	Name (Last First Middle)	•	dross	DOB/Age Sex	Seat Safety /	Airbag Airbag	Eject Trap Inju Code Code Sta	ary Transp.	Medical Facility	
	Operator/Non-Motorist	See A	Above		1	99	0 0 5	1		
Ţ					$\neg \uparrow \uparrow$					
t			4, 1							

<u> </u>	= Direction	1 = Vehicle 1	2 = Vehicle 2	¥ = Pedes:	trian		
Črash Diagram:	ie: →□	→ [2	→ X			
	Coy Hill Rd.	East				If Crash <u>Did No</u> on a Public Wa	y:
F 186/F 1	Rte 9/W	e von en	en maneriman en	and the same of the decided rate of the same of		Off-Street Parking	Lot
	Main St.				1	☐ Garage	
T	urtleMA Reg: 589FF4	MV#1 ⊖€%	□/ MV#2			Mall/Shopping Cer	iter
						Other Private Way	
		w	est			\bigvee	
			-		Y	North	
Crash Narrative:					•		
Operator of MV#1	stopped due to	a motoriet	operating			copping for T	urtle
crossing roadway							
stossing todaway	. operator or in	VWZ COUIU	ioc scop ii	15 14 111	cime and	I Teal ended	LIVWI.
	\ \						
,							
Witnesses:							
Name (Last,First,Middle)		Address			Phone #		Statement
	K				5	6	
		3			35		
D					<u> </u>		
Property Damage: Owner (Last, First, Middle)	Address		Phone #	34-Type	Description of I	Damaged Property	
				1			
Truck and Bus Inform	Registration #		(From Ve	nicle Section)			-
Carrier Name	***************************************				— Carrier Issu	ing Authority Code	35
Address			City		St.	Zip	
US DOT #:	State Number		Issuing State	ICC #:		Interstate	36
Cargo Body Type Code	Gross Vehicle Weight	38					nagy posensual
Trailer Reg #:	Reg Type	Reg State	Reg Year_	——— Trai	ler Length	39	
Hazmat Information:	**************************************				L	لسبب	***************************************
Placard Material 1	digit # 41 Material Na	ne		Material 4 dig	git #	Release code	42
						t C	
olice Officer Name (Please Print)	Signature		ID/Badge # D	epartment	Precinct/	Barracks Date	

		Comn	nonwealth	of Massacl	husetts]
	Date of Crash Time of Crash 06/30/2013 1230 Wes	City/Town t Brookfield	Motor Veh	icle Crash	Number Vehicles	Number Injured	Speed Lim	it 40	State Police Local Police MBTA Police	7
	24HR	5 5100211010	Police	Report	1	1	Lat Lon		MBTA Police D	_
	AT INTERSECT	ΓΙΟΝ:	< LOCA	TION >		NOT A	r intei	RSECT	ION:	9
				Q TR		W MZ	AIN S'	p.		2
1	Route# Direction	Name of Roadway/Stre	et	Route# Direction	Address #	<u> </u>		f Roadway	/Street	10
	1	At		Feet N S	EW of -			– or		
	Route# Direction N	ame of Intersecting Roadwa		50 [5]	1-82	Mile Ma			Exit Number	4
· · · · ·		Also at Intersection wit	h	50 Feet N S		Route#		CE RI secting Roa	adway/Street	<u></u>
² 1	Route# Direction N	ame of Intersecting Roadwa	y/Street	Feet NS	E W of		т	andmark	· · · · · · · · · · · · · · · · · · ·	1 11
3	Please Select One Vehicle 11	#Occupants Hit/R	un Moped		1 .	3-2	1-A			1
	or the rollowing.				٠.	5 -2.	T _W			4
	18 18	DOB/Age 19	Reg #						20	
		Restrictions CDI End	lorsement		Veh Make			Veh Co	onfig.	
1	Operator Last	First	Middle Own	Last		First		Middle		1 12
	Address 4 Sta	te Zip	Addre	ess <u> </u>				~ (*		
	Insurance Company COMMERCE	•	City]	le Action Prior to Crasl	1 1 2	a	amaged Are	•	ircle Up to Three)	
5	Vehicle Travel Direction: NSXW		_	Sequence 51 22		22 2	amaged Are	3)	4	
	Citation # (If Issued)		•	Harmful Event 97	23	_\		://	0 None 10 Undercarriage	,
	Viol. 1: Ch/Sec/Sub	Viol. 2: Ch/Sec/Sub		r Contributing Code	99 24	24		\mathbb{N}_{J}	97 Other	Ì
1	Viol. 3: Ch/Sec/Sub			rride/Override	25 Towed	1_8		9 (6) ^{99 Unknown}	
	Please fill out for ope	rator and all occupants invol	lved	<u> </u>	26 27 Sout Safety	28 29 Airbag Airbag	30 31 Eject Trap	32 3: Injury Tran	3 1sp.	42 ¹³
	Name (Last First Middle) Operator		Above	DOB/Age Sex		Status Switch	Code Code	Status Co	de Medical Facility	42
	Орегания	3.0				-		╫		1
								╂┼-		
								 		
_					<u> </u>					
1	Please Select One of the Following:	_#Occupants Non-M	lotorist A Type	Action 15	Location	Conditi	ion 17	Hit/	Run Moped	
	License # St	DOB/Age	Reg #			Reg Type		Reg S		
	Sex Lic. Class 18 18 Lic.	Restrictions 19 CDL	Veh Yer	ear	Veh Make			Veh Co	nfig. 20	
1	Operator		_	rlast		First		Middle		
	Address		Addre	ss						
	City Stat	e Zip	City_			7	e	Zip		
	Insurance Company	***************************************	Vehicl	e Action Prior to Crash		Da	maged Area	,	cle Up to Three)	
	Vehicle Travel Direction: NSEW	Responding to Emergen	cy? Event	Sequence 22		2 2	N		0 None	•
	Citation # (If Issued)			Harmful Event	23	1 1 ◀	- ∫9]	10 Undercarriage	
	Viol. 1: Ch/Sec/Sub			Contributing Code	24 25 Towns	24 8	<u> </u>	وللإ	97 Other 99 Unknown	
	Viol. 3: Ch/Sec/Sub /		 	ride/Override	10weu_	28 29	30 31	32 33		
	Please fill out for operator/no Name (Last First Middle)	•	s involved dress	DOB/Age Sex	Scat Safety Ai	irbag Airbag atus Switch	Eject Trap Code Code	Injury Trans Status Codi	p 1	
	Operator/Non-Motorist	See A	Above							
ĺ										

X	■ Direction 1 = Vehicle 1	1	O = Pedestrian		
∞ Crash Diagram:	ie: → 1 -	2 -	→ ♀		
	W. MAIN (RT. 9)	IST.		If Crash <u>Did No</u> on a Public Way	
390 W. MAIN ST	Γ «∤			Off-Street Parking I	Lot
	•			☐ Garage	
				Mall/Shopping Cent	ter
				Other Private Way	
	PIERCI	E RD.	2 >	North)
Crash Narrative:					-
•					
Vehicle one was oper	rating e/b on Route 9	(W. Main ST)	when op atter	apted to break :	for
vehicles ahead. Stat	ted that his rear end	i began to swa	y and the m/c	began to slide	along
roadway on its side,	, coming to rest ifo	390 W. Main s	t. Officer obs	served approxima	ately
60' of scrape marks.	•				
		···			
					
					·
Witnesses:	**************************************	W			
Name (Last,First,Middle)	Address		Phon	e#	Statement
	<u> </u>				
Property Damage:		T			
Owner (Last, First, Middle)	Address	Phone #	34-Type Description	of Damaged Property	
				•	
Truck and Bus Information	Registration #	(From Vehi	cle Section)		
Carrier Name			Carrier	Issuing Authority Code	35
Address		City		St Zip	
US DOT #:	State Number	Issuing State	ICC #:	Interstate	36
Cargo Body Type Code	Gross Vehicle Weight			L	
	Reg Type Reg State	eReg Year	Trailer I enoth	39	
Hazmat Information:			vi sviigiii		
Placard Material 1 digits	# Material Name		Material 4 digit #	Release code	42
Police Officer Name (Please Print)	Signature	ID/Badge # De	partment Prec	cinct/Barracks Date	

CDP1 11-24-00

Date of Crash 12/26/2013	m: 10 1					- a L							
	Time of Crash 0929 W	City/Tov est Broo	m kfield	Motor Vel		asii	Numbe Vehicle		red La	eed Lim	it 4	0 8	State Police Local Police MBTA Police
	24HR			Police	Report		1	1	Lo				MBTA Pólice D Other:
	AT INTERSI	ECTION:		< LOC	ATION	>	NOT AT INTERSECTION:						
											_		
Route# Direc	etion	Name of	Roadway/Street		Route# Dire	ction /	Address #		MAI	Name o		way/Si	treet
			At	***************************************								-	
- B'	.*				. Feet	NSE	w of		e Marke	• — r	- or		Exit Number
Route# Direc	ction		ntersection with	Street	Feet	NSE	w of						
!					1	NSE		Route	#	Inter	secting	Roady	way/Street
Route# Direc	tion	Name of Inters	ecting Roadway/	Street		L	L			1.	andma	rk	
Please Select C	ne XI Vahiela 1	1 #Occupar	nts Hit/Run	1 Moped			1	.3-	25				
of the Followin	ig: Venicle	- Occupati		Mopeu									
License #		S DOB		Reg	#			Reg	Type		I	Reg Sta	20
Sex Lic. C	Class D 18	Lic. Restrictions	19 CDL	Veh	Year B	Ve	h Make				Ve	h Conf	ig. 1
Operator	Last	First	E		ner	Last		Firs		F		Aiddle	
Address	123	7111			ress	Last		Pits		₽		лівше	
City		State Z	р 💮	City		\-A~/\\\			State 1		Zip _		
Insurance Compa	any T			Veh	icle Action Prior t	Crash	1	21	Dama	ged Are	a Code	: (Circ	le Up to Three)
Vehicle Travel Di	-	Respon	ding to Emergenc	_	nt Sequence 26			22	2	_ (3 ×	4	•
	ıed)			•	t Harmful Event	26 ²	3				$ \cdot $)_	0 None 10 Undercarriage
			Sec/Sub		er Contributing C		24	24	"				11 Totaled 97 Other
Viol. 1: Ch/Sec/S	,				-	1 2			8	× (D	6	99 Unknown
Viol. 3: Ch/Sec/S	Please fill out for		Sec/Sub		erride/Override	<u> </u>	26 27	28	29 3	31	32	33	1
Name (Last First Mic		operator and an	Addr		DOB/Age		os. System	Airbag /	Airbag Ej iwitch Co	ct Trap	Injury	Transp Code	Medical Facility
	Operator		See Al	bove		-	1	1 4	ı o	0	4	2	Mary Lane Hospital
	· ·												
							_						
							-	 		+	-	 	
									,		_		
Please Sales (A)		#Occupan											un Moped
Please Select Or of the Following	g: Tempere A.		ts Non-Mot	torist A Type	14 Action	15 Loc	ation	16 Co	ndition	17		Hit/R	
of the Following	ā:				Action	Loc		Co					
of the Following	18 18	St DOB/	Age	Reg	#	Loc		Reg	Гуре		R	eg Sta	te
of the Following License # Lic. Cl	18 18		Age	Reg :	#Year	Loc		Reg	Гуре		R	eg Sta	te
of the Following License # Sex Lic. Cl Operator	18 18	St DOB/	AgeCDL_ Endors	Reg : Veh ' sement Own	#Year	Veh		Reg	Гуре		R Vel	eg Sta	te
of the Followin: License # Sex Lic. C Operator Address	lass 18 18	St DOB/A	Age	Reg Veh Sement Own	#Action	Veh		Reg Tirst	Гуре		R Veh	eg Stat	20 20
of the Followin: License # Sex Lic. Cl Operator Address	lass 18 18	St DOB/A	Age	Reg Veh Sement Own Addr City	#Yeareereess	Veh		Cc Reg '	Type	2	R Veh	eg Star	ze
of the Followins License # Sex Lic. Cl Operator Address	lass 18 18	St DOB/. Lic. Restrictions First State Zij	AgeCDL Endors	Reg sement Own Addr City.	#Action	Veh Last Crash	Make	Reg Trist	State	2	R Veh	eg Star	20 20
of the Followin: License # Sex Lic. Cl Operator Address City insurance Compar	lass 18 18	St DOB/. Lic. Restrictions First State Zij	Age	Reg sement Own Addr City.	#Yeareereess	Veh	Make	Reg T	Type	2	R Veh	eg State Confi	e Up to Three)
of the Followins License # Sex Lic. Ci Operator Address City insurance Compar Vehicle Travel Dir	lass 18 18	St DOB/A Lic. Restrictions First State Zij W Respond	AgeCDL Endors	Reg sement Own Addr City Vehicy? Even	# Year eer cle Action Prior to	Veh Last Crash	Make	Reg First	State	2	R Veh	eg Star a Confi iddle	e Up to Three) O None 10 Undercarriage
of the Followins License # Sex Lic. Cl Operator Address City nsurance Compar Vehicle Travel Dir Citation # (If Issue	lass 18 18 18 Inny	St DOB/. Lic. Restrictions First State Zij W Respond	Age	Reg sement Own Addr City. Vehic Vehic Most	#	Veh Last Crash 22 22 de	Make	Reg 7	State Damage	2	R Veh	eg Star a Confi	e Up to Three) O None 10 Undercarriage
of the Followins License # Sex Lic. Cl Operator Address City insurance Compar Vehicle Travel Dir Citation # (If Issue Viol. 1: Ch/Sec/Su	lass 18 18 18 Inny	St DOB/A Lic. Restrictions First State Zij W Respond — Viol. 2: Ch/S	Age	Reg sement Own Addr City Vehic Yelic Drive	#	Veh Last Crash 22 22 22	Make	Reg	State	2	R Veh	eg State Confi	e Up to Three) O None 10 Undercarriage 11 Totaled
of the Followins License # Lic. Cl Operator Address City Vehicle Travel Dir Citation # (If Issue Viol. 1: Ch/Sec/Su Viol. 3: Ch/Sec/Su Pleas	lass 18 18 18 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	St DOB/A Lic. Restrictions First State Zij W Respond Viol. 2: Ch/S Viol. 4: Ch/S	Age	Reg sement Own Addr City Vehic Year Drive / Unde	#	Veh Last Crash 22 22 22 23 25 25 25 25 25 25 25 25 25 25 25 25 25	Make	Reg	State Dama; 2 29 33; strbag Ejo	ged Area	R R Vel	eg Stat a Confi iddle (Circle 4 5 6	e Up to Three) O None Undercarriage Totaled Or Other Unknown
Of the Followins License # Sex Lic. C Operator Address City insurance Compar Vehicle Travel Dir Citation # (If Issue Viol. 1: Ch/Sec/Su Pleas Name (Last First Mide	lass 18 18 18 18 18 18 18 18 18 18 18 18 18	St DOB/A Lic. Restrictions First State Zij W Respond Viol. 2: Ch/S Viol. 4: Ch/S	Age	Reg sement Own Sement Own Addr City Vehic Y? Even Most / Unde	#	Veh Last Crash 22 23 de 25 Sex Pr	Make	Reg	State Dama 2 2 3 29 3x	ged Area	R Veh	eg Star a Confi	e Up to Three) O None 10 Undercarriage 11 Totaled
Of the Followins License # Sex Lic. C Operator Address City insurance Compar Vehicle Travel Dir Citation # (If Issue Viol. 1: Ch/Sec/Su Pleas Name (Last First Mide	lass 18 18 18 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	St DOB/A Lic. Restrictions First State Zij W Respond Viol. 2: Ch/S Viol. 4: Ch/S	Age	Reg sement Own Sement Own Addr City Vehic Y? Even Most / Unde	#	Veh Last Crash 22 22 22 23 25 25 25 25 25 25 25 25 25 25 25 25 25	Make	Reg	State Dama; 2 29 33; strbag Ejo	ged Area	R R Vel	eg Stat a Confi iddle (Circle 4 5 6	e Up to Three) O None Undercarriage Totaled Or Other Unknown
of the Followins License # Sex Lic. Co Operator Address City nsurance Comparing //ehicle Travel Dir Citation # (If Issue //iol. 1: Ch/Sec/Su //iol. 3: Ch/Sec/Su Pleas Name (Last First Mide	lass 18 18 18 18 18 18 18 18 18 18 18 18 18	St DOB/A Lic. Restrictions First State Zij W Respond Viol. 2: Ch/S Viol. 4: Ch/S	Age	Reg sement Own Sement Own Addr City Vehic Y? Even Most / Unde	#	Veh Last Crash 22 23 de 25 Sex PR	Make	Reg	State Dama; 2 29 33; strbag Ejo	ged Area	R R Vel	eg Stat a Confi iddle (Circle 4 5 6	e Up to Three) O None Undercarriage Totaled Or Other Unknown
of the Followins License # Sex Lic. Co Operator Address City nsurance Comparing //ehicle Travel Dir Citation # (If Issue //iol. 1: Ch/Sec/Su //iol. 3: Ch/Sec/Su Pleas Name (Last First Mide	lass 18 18 18 18 18 18 18 18 18 18 18 18 18	St DOB/A Lic. Restrictions First State Zij W Respond Viol. 2: Ch/S Viol. 4: Ch/S	Age	Reg sement Own Sement Own Addr City Vehic Y? Even Most / Unde	#	Veh Last Crash 22 23 de 25 Sex PR	Make	Reg	State Dama; 2 29 33; strbag Ejo	ged Area	R R Vel	eg Stat a Confi iddle (Circle 4 5 6	e Up to Three) O None Undercarriage Totaled Or Other Unknown

			_ ~	= Direction	on _	= vehic	:ie I	≥ Vehicle 2		* Pedesi	rian					
Crash Di	agrai	n:		ie:	→ [1	→ [:	2	<u> </u>	<u> </u>						
				,	We Rte9. Main	est co ro: MV	now overed adway Eas	r (C)		(12) MV#	!1			Crash Di a Public Off-Street Pa Garage Mall/Shoppi	Way:	rt.
	•							.*					(Nort) th	
Crash Na	rrati	ve:														
Operator	of	MV#1	state	ed she	was	travel	ing w	estbound	on	Rte 9	/W M	ain :	St. t	oward	s Wa	re
when her	MV	spun	out o	of con	trol d	due to	the	slippery	roa	d con	diti	ons.				
												······				
-		.	-													
												_i				
									······································							
										-						
Witnesses Name (Last,Firs		le)				Address						Phone #			1	Statement
Ivame (Last, I II	56,171ruu	K)				Address					<u> </u>	I moute #				Statement
						-								 		
Property I	Dama	ige:														
Owner (Last,Fir	st,Mide	ile)		Address				Phone #		34-Туре	Descr	iption of	Damage	i Property		
			i													
														-		
Truck and	Bus	nform	ation:	Registrati	ion #			(From '	Vehicle S	Section)						35
Carrier Name_											(Carrier Iss	uing Auth	ority Code		
Address								City				St		Zip		
US DOT #:			S	tate Number				_ Issuing State		ICC #:				Intersta	, [36
			37			38								mersta	" <u> </u>	
Cargo Body Typ	e Code	L		Vehicle Wei	· Ŀ								39			
Trailer Reg #: _	·····			Reg Typ	e	Reg S	State	Reg Yea	r	Trai	ler Len	gth				
Hazmat Infor	mation:		г	41						•					ſ	42
Placard	40	Material 1	l digit#	41 M	laterial Nan	ne			N	1aterial 4 dig	git #			Release coo	ie	74
									W					nt		
Police Officer Na	me (Plea	ase Print)		n	Signature		II	D/Badge #	Departi	ment		Precinct	/Ваггаск		Date	

	. Commonwealth of Massachusetts										
	Date of Crash Time of Crash	City/Town	Motor Vel	icle Crash	Number Vehicles	Injured	peed Limit	40	State Police Local Police MBTA Police	1	
	01/12/2014 1100 West	Brookfield	Police	Report	1_ 1	م ال	at on		MBTA Police Other:		
	AT INTERSECTI	ON:	< LOC	ATION >		NOT AT	INTER	SECTION	ON:	1	
										2 9	
1.	Route# Direction	Name of Roadway/Stree	3 †	Route# Direction	Address #	W MAI		Roadway/S	Street		
1	Notice Breeden	At					1144117 01	. coaa way c	, , , , , , , , , , , , , , , , , , ,	2 10	
				Feet N S	EW of -	Mile Mark	er	or	Exit Number	H	
	Route# Direction Nam	e of Intersecting Roadway Also at Intersection with	<u></u>	100 Feet N	EW of		COY H	ILL	RD	1	
² 1	-			Feet N S		Route#	Interse	cting Road	lway/Street	11	
Route# Direction Name of Intersecting Roadway/Street							Laı	ndmark			
³ 97	Please Select One X Vehicle 11	#Occupants Hit/Ru	ın Moped		1	4-2-					
	or the ronowing:									-	
	19 19	DOB/Age	Reg	-				_	20		
	Sex Lic. Class D Lic. Ro	estrictions CDI	Orsement Veh	Year	Veh Make	<u> </u>		Veh Con	nfig. 1		
⁴ 1	Operator Last	First	Own	erLast		Fırst		Middle		1 12	
	Address		Addr	ess							
	Cit State	•	City			7	_ z	ip (
	Insurance Company LYMOUTH	ROCK	Vehic	cle Action Prior to Crasl		J Dam	aged Area	Code: (Cir	cle Up to Three)		
5	Vehicle Travel Direction: NEW	Responding to Emerger	ncy? 2 Even	t Sequence 97 22		22 4	ΛĬ		0 None		
	Citation # (If Issued)	_	Most	Harmful Event 97		1	-)©	[5	10 Undercarriage 11 Totaled		
	Viol. 1: Ch/Sec/Sub V	iol. 2: Ch/Sec/Sub ———	/ Drive	er Contributing Code	1 24	24 8	<u> </u>	يرلا	97 Other)99 Unknown		
1	Viol. 3: Ch/Sec/Sub / Vi	iol. 4: Ch/Sec/Sub ——	/ Unde	rride/Override 99		2					
	Please fill out for operate Name (Last First Middle)	or and all occupants invol	ved kkress	DOB/Age Sex	Seat Safety A	irbag Airbag I	30 31 ject Trap Code Code	32 33 Injury Trans Status Code	p. Medical Facility	42 ¹³	
	Operator	See .	Above		1 5	99 0	0	5 1			
						\top					
		-					+	_			
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		-	-	-				
									<u> </u>		
1	Please Select One of the Following:	#Occupants Non-M	otorist A Type	Action 15	Location	Condition Condition	17	Hit/R	Run Moped		
	License # St	DOB/Age	Reg #	f		Reg Type_		Reg St	ate		
	Sex Lic. Class 18 18 Lic. Re	estrictions 19 CDL		/ear	Veh Make			_ Veh Con	fig. 20		
1	Operator		orsement Own	erlast							
-	Address	First N	fiddle Addre	Last		First		Middle			
	CityState_	Zip	City_			State_	Zi	р			
	Insurance Company		Vehic	le Action Prior to Crash	21	Dam	aged Area (Code: (Circ	cle Up to Three)		
	Vehicle Travel Direction: NSEW	Responding to Emergen	cy? Event	Sequence 22	22 22 2	2 2	3	4	0 None		
	Citation # (If Issued)	-	Most	Harmful Event	23	1	. }	5	10 Undercarriage 11 Totaled		
	Viol. 1: Ch/Sec/Sub/ Viol.	ol. 2: Ch/Sec/Sub	/ Drive	r Contributing Code	24	24	VT	للا	97 Other 99 Unknown		
	Viol. 3: Ch/Sec/Sub/ Viol.	ol. 4: Ch/Sec/Sub ———	/Under	rride/Override	25 Towed_	8 	7	6	>> CHRIIO WII		
	Please fill out for operator/non-i	•	involved	DOB/Age Sex	Seat Safety Ai	rbag Airbag E		32 33 Injury Transp Status Code	Medical Facility		
	Name (Last First Middle) Operator/Non-Motorist		Above	DOB/Age Sex	Pos. System St	ania Swiich C	oue Code	code Code	resources recenty		
	-						\dashv	_			
						+	+	-			
ļ											
į								1			

。 。Crash Diagram:	ie:	Vehicle I	2 = Vehicle 2	¥ = Pedestri ♀	120	
	<u>-</u>			^		<u>Did Not</u> Occur blic Way:
1	Veh. 1 ree				☐ Off-Stre	et Parking Lot
	* 3				☐ Garage	
					☐ Mall/She	opping Center
	Wes Mair	-			Other Pr	
						lorth
Crash Narrative:						
Vehicle 1 was traveli						······
a branch from one of	:					the
operators truck causi	ng extensive	damage to	the bed and	cab o	f the truck.	
· · · · · · · · · · · · · · · · · · ·						
<u> </u>						
		······································				
	· · · · · · · · · · · · · · · · · · ·					
Witnesses:					· · · · · · · · · · · · · · · · · · ·	
Name (Last, First, Middle)		Address			Phone #	Statement
						
				· · · · · · · · · · · · · · · · · · ·		
Property Damage:						
Owner (Last,First,Middle)	Address		Phone #	34-Type	Description of Damaged Prope	rty
Truck and Bus Information:			1			
Carrier Name	Registration #		(From Vehicle		Coming Insulus Authority C	35
Address			City		— Carrier Issuing Authority Co	L
	State Number					36
37	State Number	38	issuing state	ICC #	Inte	rstate
Cargo Body Type Code Gro	ss Vehicle Weight				39	
Trailer Reg #:	Reg Type	Reg State	Reg Year	——— Traile	er Length	
Hazmat Information:	41					42
Placard Material 1 digit #	Material Name	e	N	Aaterial 4 digit	#Release	code
Police Officer Name (Please Print)	Signature	II	D/Badge # Depart	ment	Precinct/Barracks	Date

•			ĺ	(Comn	onwealth of Massachusetts												
	Date of Crash	Time of Crash	Wost	City/Town Brookf		Mo	tor Vel	icle Cr	ash	ı [;	Numbe Vehicle		4 1	ed Lim	it <u>4</u>	10	State Police Local Police MBTA Police	7
	02/14/2014	1128 24HR	Mest	Brooki	. Terd		Police	Report		2		3	Lat.				MBTA Police Other:	
		AT INTERS	ECTI	ON:		<	LOC	ATION	>			NOT	AT II	NTE	RSE	CTI	ON:]
																		2
¹ 1	Route# Direc	ction		Name of Ro	oadway/Str	eet		9 W Route# Dire	ection	Add	dress #		<u>(AI)</u>	Name o		lway/S	Street	10
					At			0 -	[N]	. M.	7.	7	1	. 5	5			2 "
	Route# Direc	ction	Nam	e of Intersect	ing Roadw	av/Street		O _Feet		· IAI	ot		 Marker	_	- or		Exit Number	
				Also at Inte				Feet	NS	EV	of	D . //					10.	
² 1	Route# Direc		N 1		D 1	/C++		Feet	NS	EV	v of	Route#		inter	secting	з коаа	way/Street	6 11
	Route# Direc	ction	Nam	e of Intersect	ing Koadw	ay/Street								I	andma	urk		
3	Please Select C of the Followi		.1	_#Occupants	☐ Hit/F	Run	Moped				1	4-1	1-	-A(C			
	License #		_	DOB/Ag			Reg		<u> </u>			Reg T	vne C	5		Reg St	ate	1
	Sex Lic. 6	Class 18 18	1	estrictions 2	19	NI.	Veh				_		_			-	fig. 1 20	l
<u> </u>	Operator.	Ciass <u>F</u>] Die R	estrictions [2		dorsemen				ven iv	iake 3					Jii Coii		
⁴ 1	Address	Last	<u>r</u>	First		Middle	Addr		Last		_	First				Middle		1 12
	City		Stat	Zip.		.	City			<u> </u>			State	_	Zip			
		any PLYMOU			SSUR	ANCE	•	le Action Prior t	o Crasi	h	1	21	-		•	a: (Cir	cle Up to Three)	
5	Vehicle Travel D	-		Responding				Sequence 1	22	22	22	<u></u>		cu Aic	3	4	the op to timee;	
	Citation # (If Issue			Responding	g to Emerge	oney: ==		Harmful Event	1	23					<u>[/</u>]).	0 None 10 Undercarriage	
	· `	Sub 90 /17	7	- 	./CL	/		r Contributing C	<u> </u>		24	24	()	11 Totaled	
⁵ 7	1	Sub/						rride/Override	99		Tow	<u>., 1</u> 8)	<u> </u>	7	6	99 Unknown	
•	Viol. 3. Cil/Sec/S	Please fill out fo					- Olide	T	1	26	27	28 2		31	32	33		_ 13
	Name (Last First Mi				-	Address		DOB/Age	Sex	Scat Pos.	Safety System	Status Sw		e Code	Injury Status			1 "
		Operator			See	Above			<u> </u>	<u> </u>	1	1 4	0	0	4	2	HOSPITAL	
										<u> </u>								
Ì									1	T								
1	Please Select O	ne Vehicle	, 2	#Occupants	□ Non N	/lotorist /	A Type	14 Action	15	Location		16	dition	17	ila	Hit/R	un Moped	
	of the Followin	g: Za vemere				/IUIUIISI /				Locati	L					nivk	un intoped	
	License #	18 18		DOB/Age	19		Reg #					Reg Ty	ре	<u>-</u>	F	Reg Sta	20	
	Sex Lic. C	Class D	Lic. Re	strictions	CD	L orsement	Veh Y	ear		Veh M	ake _			T.	Vel	h Conf	ig.	
1	Operator	Lest	1	rirst		Middle	Owne	r k	Last	,		First	·····		N	1iddle		
	Address						Addre	ss _										
ı	City	57 m 40 m	_ State	Zip			City		3 - 11/2		<u> </u>	21	tate _		Zip O			
	•	ny PLYMOU	7			_		e Action Prior to			22	<u>- </u>	Damage	ed Area	_	: (Circi	le Up to Three)	
l	Vehicle Travel Di		W	Responding	to Emerge	ncy? <u>2</u>		Sequence 1	22	22				abla	1	7	0 None 10 Undercarriage	
	Citation # (If Issu	ed)		•				Harmful Event	1	ᆫ	24	24	+	المرا	$\langle $	3	11 Totaled 97 Other	
	Viol. 1: Ch/Sec/St			ol. 2: Ch/Sec/				Contributing Co		1	24	(8)		<u> </u>	<u></u>		97 Other 99 Unknown	
ļ	Viol. 3: Ch/Sec/St			ol. 4: Ch/Sec/		/	·····	ride/Override	99		Towe	d	1 30	1 31	T 33	1 22		
	Pica Name (Last First Mid	ise fill out for opera	ior/non-t	motorist and a	•	ts involve ddress	a	DOB/Age	Sex	26 Seat Pos.	27 Safety System	28 29 Aurbag Airb Status Swit	g Eject ch Code	31 Trap Code	32 Injury Status	33 Transp. Code	Medical Facility	
	Operat	tor/Non-Motorist			See	Above					1	1 4	0	0	4	2	Mary Lane Hospital	
ļ									5	3	1	1 4	0	0	4	2	Mary Lane Hospital	
f									F	<u> </u>			T			 		
}				 									 	+				
- 1				I				i	1		1		1	1	1	ı		

Crash Diagram:	ie: <u></u> 1	P [2]	ŧ	If Crash <u>Did Not</u> Occur on a Public Way:
ys.		(र डी (र डी		Off-Street Parking Lot
<u>්</u>	V2 V1			☐ Mall/Shopping Center ☐ Other Private Way
	THE RES		® ∀	North
Crash Narrative:				
1 was traveling west on	West Main St,	Rt 9, a publicwa	ay in West Br	cookfield. As she
pproached the 71.5 mile	marker, she was	headed down hi	ll, with a cu	rve to the left.
ue to her speed (she st	ated to a office	er at the scene	that she was	going fast as she
as late for work.) and t	he slushy/sandy	condition of the	e road, she l	ost control of her
ehicle and crossed into		3		served this, tried

to pull as far to the right as possible and stopped. V1 struck V2 head on, the proceeded to come to rest across the west bound lane. O1, O2 and P2 were all treated for possible injuries and transported from the scene. APR from Ware towed both vehicles. O1, Corish, was issued citation warning for Speed too fast for conditions.

Name (Last, First, Middle) Address Phone #	Statement										
Property Damage:											
Owner (Last, First, Middle) Address Phone # 34-Type Description of Damaged Property											
Truck and Bus Information: Registration #]										
US DOT #: State Number Issuing State ICC #: Interstate 36 Cargo Body Type Code Gross Vehicle Weight											
Trailer Reg #: Reg Type Reg State Reg Year Trailer Length Reg Type Reg State Reg Year Trailer Length Reg Year Trailer Length Reg Year Trailer Length Reg Year Trailer Length Reg Year Trailer Length Reg Year Trailer Length Reg Year Trailer Length Reg Year Trailer Length Reg Year Trailer Length Reg Year Trailer Length Reg Year Trailer Length Reg Year Trailer Length Reg Year Trailer Length Reg Year Trailer Reg Year Trailer Reg Year Trailer Reg Year Trailer Reg Year Trailer Reg Year Trailer Reg Year Trailer Reg Year Trailer Reg Year Trailer											
Placard Material 1 digit # Material Name Material 4 digit # Release code 42	2										

ID/Badge #

Department

Signature

Precinct/Barracks

Police Officer Name (Please Print)

•				vealth	lth of Massachusetts													
	Date of Crash	Time of Crash	Woot	City/Town Brookf	1014	Mot	tor Veh	icle Cr	ash	1	lumber ehicle:		-d	Speed L	imit	40	State Police Local Police MBTA Police	3
	02/27/2014	1050 24HR	west	. BIOOKI	1910		Police :	Report		1		3	ľ	Lat Lon			MBTA Police C	5
		AT INTERS	SECT	ION:		<	LOCA	TION	>			NOT	`AT	INT	ERSI	ECT	ION:	
												•••		-	~ ~			2
1	Route# Dire	ction		Name of Ro	adway/Stree	et		Route# Dire	ection	Add	lress #	_ W	MA.	IN Nam		adway	y/Street	10
	-	•			At			Feet	NS	EX	of			- •		nr.		2
	Route# Dire	ction	Nan	ne of Intersecti	ng Roadwa	y/Street						Mil	e Mar				Exit Number	4
				Also at Inter	section with	h		Feet			_	Route		WEL In			RD adway/Street	
² 1	Route# Direc	ction	Nan	ne of Intersection	ng Roadway	y/Street		Feet	NS	EW	of							_ 1 11
3	Please Select 0					T									Land	mark		
	of the Followi		_ كا	_#Occupants	Hit/Ru	un	Moped					4-	13	5 – F	7C			
	License #		_ s	DOB/Age			Reg #	3				Reg	Type		· · · · · · · · · · · · · · · · · · ·	_ Reg		
	See Lic.	Class D 18 1	Lic. F	Restrictions	19 CDI	orsement	Veh Y	ear		Veh M	lake 👤			***************************************		Veh C	onfig. 20	
⁴ 1	Operator	Last		First		Middle	Own	er (Last			Firs				Middl	e	1 12
	Address				**************************************		Addr	ess 2										· F
	City.		State	Zip _		<u> </u>	City_						State		_ Zip			
	Insurance Comp	any CAB EA	ST	LLC			Vehic	le Action Prior t			1_	21	_	naged A	rea Co	ode: (C	Circle Up to Three)	
5 2	Vehicle Travel D	Direction: N S	EX	Responding	to Emerger	ncy? <u>2</u>	Event	Sequence 2:		22	22	22	2)		Ĭ7	1	0 None	
	Citation # (If Iss							Harmful Event	21	23		`])◆	- ,	回		5 10 Undercarriag	ge
6	1	Sub/						r Contributing C	ode	1	24	24	9	V	1	لا	97 Other 99 Unknown	
⁶ 1	Viol. 3: Ch/Sec/S	Sub/					Unde	rride/Override	1_	25	Towe	d <u>1</u>		50 T	1		1	
	Name (Last First M	Please fill out f	or opera	itor and all occi	•	ved ddress		DOB/Age	Sex	26 Seat Pos	27 Safety System			Eject 7	rap In	jury Tra	ansp. ode Medical Facility	21 ¹³
		Operator			See .	Above			-	<u> </u>	1	1 1		0	4	2	Mary Lane Hospital	
	:				<u> </u>				—	4	99	4 9	9 (0	4	2	Mary Lane Hospital	
										3	1	1 1	.) o	4	2	Mary Lane Hospital	
⁷ 1	Please Select C		2	#Occupants [Non-M	lotorist A	A Type	14 Action	15	Locatio	on [16 C	nditio	n T	17] Hit	/Run Moped	
	of the Followin	ig:																-
	License #	18 18	1	DOB/Age	19		_									•	20	
	Sex Lic. C	lass	Lic. R	estrictions	CDL Endo	rsement		ear		Veh M	ake				······ `	veh Co	onfig.	
1	Operator	Last		First	N	Aiddle		ss	Last			First				Middle		
			State	Zip				33					State		Zip			
		any		•				e Action Prior to				21	Dan	naged A	rea Co	de: (Ci	ircle Up to Three)	
	Vehicle Travel Di	irection: NS	E W	Responding	to Emergen	cy?	Event	Sequence	22 .	22	22	22	-را		3		4	
	Citation # (If Issu	ıed)		-	-		Most	Harmful Event	T	23				_ \	1		0 None 10 Undercarriage	e
	Viol. 1: Ch/Sec/S	iub/	V	/iol. 2: Ch/Sec/S	Sub	/	Driver	Contributing C	ode		24	24	C	V	$T \setminus$		97 Other	
l	Viol. 3: Ch/Sec/S	iub/	v	iol. 4: Ch/Sec/S	Sub	/	Under	ride/Override	[25	Towe	d	3		7		6 99 Unknown	
		ase fill out for opera	ator/non-	-motorist and a	•		d	pon.	T.	26 Scat	27 Safety	Aurbag A	rbag 1		ap Inju	ry Trac	ısp.	1
-	Name (Last First Mic Opera	tor/Non-Motorist				Above		DOB/Age	Sex	Pos	System	Status S	vitch (Code Co	de Stat	hus Co	de Medical Facility	
`	*			1									+	\dashv	+	+		1
-									\vdash				+	+	-	+		-
-									 				+		+	+		-
													1					1

Crash Diagram:		1 = Vehicle 1	2 = Vehicle 2	र्ट्र ≖ Pedes	rian	
	ie: → [_ →	2	→Ř		
						sh <u>Did Not</u> Occur ublic Way:
		, 188			☐ Off-S	treet Parking Lot
					☐ Garag	· e
	(II) (I) (I)		West Main	ı	☐ Mall/	Shopping Center
	(T) (2)		Stree	et .	Other	Private Way
						North
Crash Narrative:			·			
Vehicle 1	operat	ed by a 4			was tra	veling West
on West Main Stree	at a public way	in the t	own of West	Brookfi	eld, when	drove into
the oposite travel	. lane and stru	ck a tree	ad	vised me	he did not rem	ember what
had happened.			wh	o was in	the passenger	seat and
	who wa	s sitting	in the bac	k seat b	hind the drive	r seat were
transported to Mar	y Lane hospita	l by ambu	lance for t	here inj	ries. Hucks to	wing arrived
on scene a short t	·		· · · · · · · · · · · · · · · · · · ·			
					· · · · · · · · · · · · · · · · · · ·	
Witnesses						
Witnesses:	,	Address			Phone #	Statement
Witnesses: Name (Last,First,Middle)	,	Address			Phone #	Statement
		Address			Phone #	Statement
	,	Address			Phone #	Statement
Name (Last, First, Middle)		Address			Phone #	Statement
	Address	Address	Phone #	34-Type	Phone # Description of Damaged Pro	
Name (Last, First, Middle) Property Damage:	Address	Address	Phone #	34-Type		
Name (Last, First, Middle) Property Damage:	Address	Address	Phone #	34-Type		
Name (Last, First, Middle) Property Damage:	Address	Address	Phone #	34-Type		
Name (Last, First, Middle) Property Damage:						
Name (Last, First, Middle) Property Damage: Owner (Last, First, Middle)	On: Registration #		(From Ve	hicle Section)		perty 35
Name (Last, First, Middle) Property Damage: Owner (Last, First, Middle) Truck and Bus Informatic	On: Registration #		(From Ve	hicle Section)	Description of Damaged Pro Carrier Issuing Authority	perty Code 35
Name (Last, First, Middle) Property Damage: Owner (Last, First, Middle) Truck and Bus Informatic Carrier Name Address	On: Registration #		(From Ve	hicle Section)	Description of Damaged Pro Carrier Issuing Authority St Z	Code 35
Property Damage: Owner (Last, First, Middle) Truck and Bus Informati Carrier Name Address US DOT #:	Registration #State Number		(From Ve	hicle Section)	Description of Damaged Pro Carrier Issuing Authority	Code 35
Name (Last, First, Middle) Property Damage: Owner (Last, First, Middle) Truck and Bus Informatic Carrier Name Address	Registration #State Number		(From Ve	hicle Section)	Description of Damaged Pro Carrier Issuing Authority St Z	Code 35
Property Damage: Owner (Last, First, Middle) Truck and Bus Informati Carrier Name Address US DOT #: Cargo Body Type Code	Registration # State Number Gross Vehicle Weight	38	City Issuing State	hicle Section)	Description of Damaged Pro Carrier Issuing Authority St Z	Code 35
Name (Last, First, Middle) Property Damage: Owner (Last, First, Middle) Truck and Bus Informati Carrier Name Address US DOT #: 37	Registration # State Number Gross Vehicle Weight	38	City Issuing State	hicle Section)	Description of Damaged Pro Carrier Issuing Authority St Z	Code 35
Property Damage: Owner (Last, First, Middle) Truck and Bus Informatic Carrier Name Address US DOT #: Cargo Body Type Code Trailer Reg #: Hazmat Information: 40	State Number Gross Vehicle Weight Reg Type	38 Reg State	City Issuing State Reg Year_	hicle Section) ICC #:Train	Description of Damaged Pro Carrier Issuing Authority St Z	Code 35 ip 36 interstate 36
Property Damage: Owner (Last, First, Middle) Truck and Bus Informatic Carrier Name Address US DOT #: Cargo Body Type Code Trailer Reg #: Hazmat Information: 40	State Number Gross Vehicle Weight Reg Type	38 Reg State	City Issuing State Reg Year_	hicle Section) ICC #:Train	Description of Damaged Pro Carrier Issuing Authority St Z	Code 35 ip 36 interstate 36
Property Damage: Owner (Last, First, Middle) Truck and Bus Informatic Carrier Name Address US DOT #: Cargo Body Type Code Trailer Reg #: Hazmat Information: 40	State Number Gross Vehicle Weight Reg Type	38 Reg State	City Reg Year _	hicle Section) ICC #:Train	Description of Damaged Pro Carrier Issuing Authority St Z	Code 35 ip 36 interstate 36

West Brookfield Police Department Images Associated with 14-13-AC





	وز	Comr	nonwealth	wealth of Massachusetts							
•	Date of Crash 01/18/2015 0940 West	City/Town Brookfield	Motor Veh	icle Crash	Number Vehicles	Innered	Speed Limit _ Lat	40	State Police Local Police MBTA Police		
	24HR	BIOORIIGIG	Police	Report	2	2	Lon.		MBTA Police U		
	AT INTERSECTI	ON:	< LOCA	ATION >		NOT AT	INTERS	ECTI	ON:	9	
				9 E	500	ET MA	IN ST			2	
11	Route# Direction	Name of Roadway/Str	eet	Route# Direction	Address #	N MAA	Name of R	loadway/S	Street	10	
		At		Feet N	S E W of		_ •	or		2	
	Route# Direction Nam	e of Intersecting Roadw	ray/Street	1000		Mile Mar	ker	V	Exit Number		
		Also at Intersection w	ith	Feet N	S E W of	Route#	Intersec	ting Road	lway/Street	<u> </u>	
² 5	Route# Direction Nam	e of Intersecting Roadw	av/Street	Feet N	S E W of					6 11	
			1					dmark		╂═╌	
³ 2	Please Select One of the Following:	#Occupants Hit/I	Run Moped		•	15-6	-AC				
	License # St	DOB/Age	Reg			Reg Typ		Reg S			
	See Lic. Class D Lic. R		DL Veh	Yea	Veh Make			_ Veh Cor	nfig. 1 20		
41	Operator	3	dorsement Middle Own					Middle		1 12	
1	Last	First	Addı	Last		First		Middle			
	City State	Zip	City			Stat	e Zij	p.			
	Insurance Company QUINCY MU	TUAL FIRE	Vehi	cle Action Prior to Cra	sh 1	21 Da	maged Area (Code: (Cir	cle Up to Three)		
5	Vehicle Travel Direction: NSW	Responding to Emerg	ency? 2 Even	t Sequence 22	22 22	22 ②	3	7	0 None		
	Citation # (If Issued)	-	Most	Harmful Event 1	23		- 9	/	10 Undercarriage 11 Totaled		
	Viol. 1: Ch/Sec/Sub /	fiol. 2: Ch/Sec/Sub —	/ Drive	er Contributing Code	12 ²⁴	24		إللا	97 Other 99 Unknown		
⁶ 4	Viol. 3: Ch/Sec/Sub V	iol. 4: Ch/Sec/Sub	/ Unde	erride/Override 1	25 Towe	d 1 8	7	6			
	Please fill out for operat	*	olved Address	DOB/Age Set	26 27 Sent Safety x Pos. System	28 29 Airbag Airbag Status Switch	30 31 Eject Trap Code Code	32 33 Injury Trans Status Cod	p.]	1 13	
	Operator		e Above		1			3 2	Mary Lane Hospital		
								+			
7_				14 15		16	17		1		
1	Please Select One of the Following: Vehicle 21	#Occupants Non-	Motorist A Type	Action 15	Location	Condition	on 1	Hit/I	Run Moped		
	License # St	DOB/Age	Reg #			Reg Type		Reg Si			
	Ser Lic. Class D 18 Lic. R	estrictions 19 CI	OL Veh Y	/ear	. Veh Mak			. Veh Con	fig. 1 20		
³ <u>1</u>	Operator Last	First	Own	er Last		First	<u></u>	Middle			
	Address		Addr	ess			<u></u>				
	City State	Zi	City			State	Zip				
	Insurance Company ARBELLA IN	<u>IS</u>	Vehic	le Action Prior to Cras	in 1		maged Area C	Code: (Cir	cle Up to Three)		
	Vehicle Travel Direction: NSE	Responding to Emerg	ency? 2 Event	Sequence 1 22	22 22	22 (2)	ΛÌ	不 ,	0 None		
	Citation # (If Issued)	-	Most	Harmful Event 1	23	0	- 項	5	10 Undercarriage 11 Totaled		
	Viol. 1: Ch/Sec/Sub / V	iol. 2: Ch/Sec/Sub ——	/ Drive	r Contributing Code	1 24	24	<u> </u>	<i>ر</i> للا	97 Other 99 Unknown		
		iol. 4: Ch/Sec/Sub ——		rride/Override 1	25 Towe	d_ 1					
	Please fill out for operator/non- Name (Last First Middle)	-	nts involved Address	DOB/Age Sex	26 27 Seat Safety Pos. System	28 29 Airbag Airbag Status Switch		32 33 Injury Transp Status Code	Medical Facility		
	Operator/Non-Motorist	Sec	Above		1	3 4	0 1 2	2 2	BAYSTATE TRAUMA CENTER		
			A. W. S.								
					+++		_ _				

Crash Diagram:	ie:	= Vehicle I		X = redesti Q	180		
		Veh#1				If Crash <u>Did Not</u> on a Public Way	
	ď		•			Off-Street Parking L	ot
		î,	,			☐ Garage	
	•					☐ Mall/Shopping Cente	er
	4) 🧵				Other Private Way	
	•	<u>등</u> Veh#2	*			Outer Filvate way	
		ven#2 W % to	•				
		,*· 		<i>6</i> b	_	(\rightarrow)	
		क :					
						North	
Crash Narrative:							
On 01/18/15 at approx	imately 0940)	hrs, I Off	icer	·	was disp	atched to a tw	o car
MVA with PI near 494		·				.,	
requested immediate r							
I observed two vehic							
Veh#1, a blue in col	···						
of the vehicle and no							
as well as the air ba							
with visible severe in							
WBRS to Mary Lane Hosp							
vehicle. Warren and W							OP to
Baystate Trauma Center	r for evaluat	tion. Life	Flight was	unavai	lable d	ue to weather	
Witnesses:					The	· · · · · · · · · · · · · · · · · · ·	State
Name (Last, First, Middle)	-	Address			Phone #		Statemen
					7		<u> </u>
							<u> </u>
Property Damage:							
Owner (Last,First,Middle)	Address		Phone #	34-Туре	Description o	Damaged Property	
		11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
Truck and Bus Information:	Registration #		(P. 11111	<u> </u>			
Carrier Name	registrator #		(From Vehicle	ŕ	Carrier Is	suing Authority Code	35
Address			City			St Zip	
	State Number		,				36
US DOT #:	state Number	38	ssuing State	ICC #		Interstate	
	ss Vehicle Weight				_	20	
Trailer Reg #:	Reg Type	Reg State	Reg Year	Trai	ler Length	39	
Hazmat Information:					L	p	
Placard Material 1 digit #	Material Name			Material 4 dig	git #	Release code	42
Police Officer Name (Please Print)	Signature	11	D/Badge # Depart	tment	Precin	ct/Barracks Date	

CDP1 11-24-00

Commonwealth of Massachusetts

Date of Crash 01/18/2015	1	City/Town West Brooks	field		nicle Cra ge Form				State Police Local Police MBTA Police Other:
		SECTION:	<		ATION	>	NOT AT IN	NTERSECT	ION:
Route# Dir	ection	Name of R	oadway/Street		9 E Route# Dire	500 Address #	W MAIN	I ST Name of Roadwa	ıy/Street
			At		Feet	N S E W of		• — or _	
Route# Dir	ection	Name of Intersec	ting Roadway/Street				Mile Marker		Exit Number
B. 4# Bi-			ersection with ting Roadway/Street		FeetFeet		Route#	Intersecting Ro	oadway/Street
Route# Dir	ection	Name of intersec	ting Roadway/Street		<u> </u>			Landmark	
Please Select of the Follow		le 11#Occupants	Hit/Run	Moped			15-6-	AC	
License #	18	18 DOB/A	ge	Reg			Reg Type	Re _t	g State 20
Sex Lic	. Class D	Lic. Restrictions	CDL	Veh	Yea	Veh Make		Veh (Config. 1
Operator	Last	Fürst	Middle	Owi		Last	First	Mide	dle
Address	1			Add	ress	U.S			
Cit	OTTIVO	State		_ City	<u> </u>	***************************************	Stat		
Insurance Com	pany QUINC	Y MUTUAL I	TKE	-					
Also, be s If you wo requested occurred	ure to forward a ould like to obtain a report made payalong with your no	operator crash report and submit the original copy to your insurance a copy of the police re able to: RMV. Please ame, address and the	Registry of Motor P.O. Box 55889 Boston, MA 02205- Attn: Accident Rec agency, the local poliport or another opera	Vehicles 5889 ords ice departmentor report, you are req	ent where the cr please send a lett uesting and list t	ash occurred, and ter to the address the date and time o	retain a copy for above with a chec of the crash and c	yourself. k for \$10 for ea ity/town where	
Please Select of the Follow		e 21#Occupants	Non-Motorist A	Туре	Action	Location Location	Condition Condition	H	it/Run Moped
License #		DOB/Ag		_ Reg			Reg Typ	Reg	State 20
S Lic.	Class D	Lic. Restrictions	CDL Endorsement	_ Veh	Yea	Veh Make		Veh C	Config. 20
Operator	Last	First	Middle	_ Own		Last	First	Midd	le
Addres		State		Cit	CSZ		Stat		
Insurance Comp	oany	State		-			June		
to any per Please obt	son, you are requi	s General Law, Chapt ired to complete a cra operator crash report nd submit the origina	sh report within 5 day from your local police	s of the date department of the te of the crash.					
If you wou requested	ld like to obtain a report made paya	opy to your insurance copy of the police republe to: RMV. Please time, address and the i	oort or another operat specify which report y	or report, p	olease send a lette eesting and list th	er to the address a he date and time o	bove with a checl	k for \$10 for eac	

West Brookfield Police Department Images Associated with 15-6-AC











	Police Use Only Col					Commonwealth of Massachusetts RMV Document Number						umber						
	Date of Crash	Time of Crash	<u> </u>	City/Town		Moto	r Veh	icle Cr	ash		umber chicles	Numb	,	d Limit	40	State	Police DI Police	1
	07/28/2015	0640 24HR		Brookf	1eta	Po	olice l	Report		1	incies	1	Laur	ude gitude _		MB1	TA Police	
		AT INTER		ON:		<	LOCA	TION	>			NOT	AT IN	TER	SEC	TION	•]
Π_	Route# Dire	etion		Name of Ro	adway/Stree			9 W Dire	ection	44 Addr	ess #	WI	AIN			/ay/Stree	t	10
1	1.00.00				At			***************************************										2 10
						· · · · ·		Feet	NS	EW	of		Marker	• —	or _	Exit	Number	
	Route# Dire	ction	Name	e of Intersecti Also at Inter	rsection with		[Feet	NS	EW	of]
2								Feet	NS	EW	of	Route#		Inters	ecting F	Roadway	/Street	1 11
6	Route# Dire	ction	Name	e of Intersecti	ng Roadway	/Street								La	ındmark	ς		
3	Please Select (le 11	#Occupants	☐ Hit/Ru		Moped	Crash	Report	ID#	1	5-3	31-	-AC	•			
<u> </u>	of the Followi	ng:																ł
	License #	19	19	DOB/Ag	20		Reg #					Reg 1	_			eg State	21	
	Se. Lic.	Class D		estrictions	CDL Endo	orsement	Veh Y	ea		Veh M	ak				Veh	Config.	<u> </u>	
41	Operator	Last		First	N	/hddle	Owne		Last			First			Mie	ddle		1 12
L	Address						Addre	ess							_			М
	City		State	Zip)	City					22	Stat Damag		Zip	7 ²⁷ 8	27 6 27	
	Insurance Comp	pany GEICO		ERAL I	NS		Vehic	le Action Prior			1		Test Sta		Code	7 28	- 6 -	
5	Vehicle Travel I	Direction: N S	EX	Responding	to Emergen	cy? <u>2</u>	Event	Sequence 4:		23	23	23	Type of			29		
	Citation # (If Iss	sued) <u></u>		-			Most :	Harmful Event	43	ᅮ	~		BAC T	est Res	ult:	30		
c	Viol. 1: Ch/Sec/	Sub	Vi	iol. 2: Ch/Sec	/Sub		_ Driver	Contributing C		<u> </u>	25	25	Susp. A	dcohol:	31		Orug: 32	
⁶ 1	Viol. 3: Ch/Sec/	Sub	Vi	iol. 4: Ch/Sec	/Sub		_ Driver	Distracted by	99				Towed			1 33		
	Name (Last First M	Please fill out	for operate	or and all occ	-	ved Mress		DOB/Age	Sex	34 Seat Pos	35 Safety System	Airbag E	37 38 ject Trap ode Code	39 Injury Status	40 Transp. Code	Mex	fical Facility	40 ¹³
	Operate	or			See A	Above		><	X	1	99	1 0	2	2	2	Mary La	ne Hospital	
	-												7					
				1					 			-	_					
									+	-		_		+		-		
7									<u></u>				ᆜ		igsquare			
⁷ 1	Please Select C of the Followi		e 2	#Occupants	Non-Me	otorist A	Туре	15 Action	16	Locatio	n	Cor	ndition	18		Hit/Run	Moped	
	License #		St	DOB/Age			Reg#					Reg T	уре		Re	g State_		1 14
	SexLic. (Class 19	Lic. Re	estrictions	20 CDL		Veh Ye	ear		Veh Ma	ake	_			Veh	Config.	21	
⁸ 1	Operator	<u> </u>		, L	Endo	rsement		r								_	······	
	Address	Last	1	First	M	fiddle	Addre	ss	Last			First			Mid	idle		
	City		State _	Zip			City_						State	Z	ip	,		
	Insurance Comp	any		-			Vehicle	e Action Prior t	o Crash	ſ	:	22	Damage	ed Area	Code:	27	27 27	
	Vehicle Travel D	orection: NS	EW	Responding	to Emergence	cy?	Event	Sequence	23	23	23	23	Test Sta	itus:		28		
⁹ 2		ued)					Most I	Harmful Event		24			Type of		.	30		
	,	Sub			Sub			Contributing C	ode	\Box	25	25	BAC Te Susp. A			Susp. D)mio 32	
		Sub						Distracted by	<u> </u>	26			Towed i	1		33	″"⁵∐	
		ase fill out for ope						T	 	34 Seet	35 Safety		7 38	39	40 L			
	Name (Last First M	iddie)			Add	iress		DOB/Age	Sex		Safety System	Airbag Ej Status Co	ect Trap ide Code	Injury Status	Transp. Code	Med	ical Facility	
	Operato	or/Non-Mo	otorist		See A	bove			X	1				-				
	-																	

-	= Direction 1	= Vehicle 1	= Vehicle 2	♀ Pedestr	rian 🚳 :		
Crash Diagram:	ie: 👈 🗔	→ □	□ →	ያ	→ 85		
Veh#1	Path attravelled	West Main St.	POI Veh#	1		If Crash Did Note on a Public Way: Off-Street Parking Lo Garage Mall/Shopping Center	t
			D			Other Private Way	
Crash Narrative:	•				M	Indicate North by A	Arrow
On 07/28/15 at approx	imately 0642	hre I Off	icer		longiwi	th Officer	
						W. main St. U	pon
arrival, Officers met							pon
She was visibly injur							side.
ALS was requested alo							•
during the crash with							
dizziness and weaknes							
WBFD and WBRS/BRS. Br							
evaluation. Woodard's							ona
the south side of Wes			· · · ·				
from the point of imp				***			
Witnesses:							
Name (Last, First, Middle)		Address			Phone #		Statement
			,				
			<u></u>				
Property Damage:							
Owner (Last, First, Middle)	Address		Phone #	41-Type	Description of	Damaged Property	
Truck and Rus Information:							
Truck and Bus Information:	Registration #		(From Vehicle	e Section)		Bus Use	42
Carrier Name					s		42
Carrier Name			City			tZip	42
Carrier Name			City			tZip	42
Carrier Name	State Number		City			tZip	42
Carrier Name Address US DOT #: Interstate	State Number	GVWR/GCWR	City Issuing State 45	MC/MX/	/ICC #:	tZip	42
Carrier Name Address US DOT #: Interstate	State Number	GVWR/GCWR	City Issuing State 45	MC/MX/	/ICC #:	tZip	42
Carrier Name Address US DOT #: Interstate	State Number	GVWR/GCWRReg State	City Issuing State 45	MC/MX/	ICC #:	zip	42
Carrier Name	State Number	GVWR/GCWRReg State	City Issuing State	MC/MX/	ICC #:	zip	

West Brookfield Police Department Images Associated with 15-31-AC













West Brookfield Police Department Images Associated with 15-31-AC













West Brookfield Police Department Images Associated with 15-31-AC



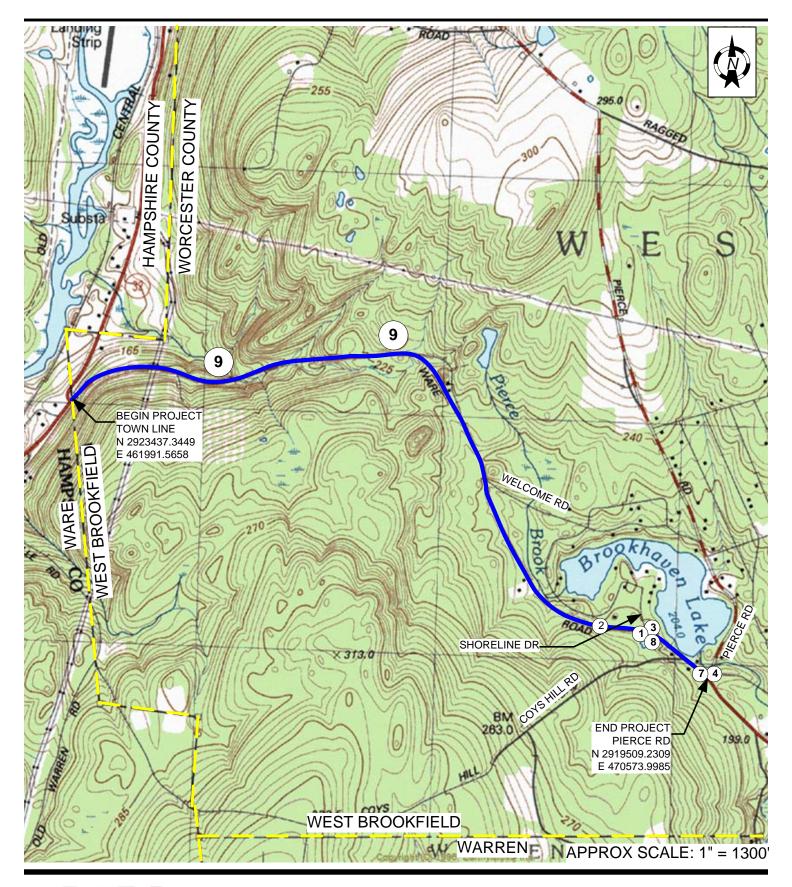
Accident Data

- Crash Rate Worksheets
- Collision Map



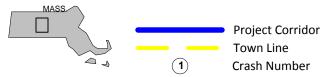
SEGMENT CRASH RATE WORKSHEET

CITY/TOWN :	West Broo	okfield		COUNT DATE :		2/1/2012	
DISTRICT:	2						
		_	~ SEGMEN	T DATA ~			
ROADWAY NA	AME:	West Main S	treet (Route 9)			
START POINT	:Ware Tow	vn Line					
END POINT:	Pierce Ro	ad					
FUNCTIONAL	CLASSIFIC	CATION OF R	OADWAY:	Principal Rur	al Arterial	_	
	ROADWA	Y DIAGRAM	(LABEL ROA	DWAY AND	CROSS STREET	「 S)	
North	ware T.L.		ROUTE 9	h	COVS HILL R		Pierce Rd
		A	VERAGE DA	ILY TRAFFIC			
		SEGMEN	Γ LENGTH IN	MILES (L):	2.1		
	AVI	ERAGE DAILY	TRAFFIC VO	DLUME (V):	5,350		
TOTAL # OF (CRASHES:	9	# OF YEARS :	4	AVERAGE # CRASHES PER A):		2.25
CRASH I CALCULA		0.55	RATE =		(A * 1,000,0 (L * V * 36	00) 5)	
Comments : _					mal crash rate of		
Project Title &	Date:	Route 9 Res	urfacing and	Related Work	(606517) - Cons	struction Sp	oring 2016





Town of West Brookfield Route 9 Resurfacing and Related Work



*Accidents 5,6 and 9 could not be pinpointed on a map from the data given

Collision Map

Appendix C Road Safety Audit Road Safety Audit

ROAD SAFETY AUDIT

Route 9 (East Main Street)
Ware Town Line to Pierce Road
Town of West Brookfield
December 14, 2012
DRAFT

Prepared For: MassDOT Highway Division



Prepared By: BETA Group, Inc.



Table of Contents

Project Data		1
Background .		2
Project Descr	ription	2
Audit Observ	vations	5
Potential Safe	ety Enhancements	9
Summary of	Road Safety Audit12	2
List of App	endices	
Appendix A. Appendix B. Appendix C. Appendix D.	RSA Meeting Agenda RSA Audit Team Contact List Detailed Crash Data Highway Safety Manual Analysis	
List of Figu	ıres	
Figure 1. Lo	cation Map	3
List of Tabl	les	
Table 2. Est	rticipating Audit Team Members	9

Project Data

A Road Safety Audit for Route 9 (West Main Street) between the Ware Town Line and Pierce Road was held on December 5, 2012 at the West Brookfield Town Hall in West Brookfield, MA. As indicated in Table 1, the audit team consisted of representatives from State, Regional and Local agencies and included a cross-section of engineering, planning and emergency response expertise.

Table 1. Participating Audit Team Members

Audit Team Member	Agency/Affiliation
Lisa Schletzbaum	MassDOT Highway Division – Safety Section
Doug White	MassDOT Highway Division – District 2
Laurie Scarbrough	MassDOT Highway Division – District 2
Sujatha Mohanakrishnan	CMRPC
Dan Daniska	CMRPC
Kevin Krasnecky	CMRPC
Johanna Barry	Town of West Brookfield – Selectmen's Office
John Morgan	Coler & Colantonio (Designer)
Paul Guertin	Coler & Colantonio (Designer)
Chris Chambers	MassDOT Highway Division – District 6
Barry Nadon Jr.	Town of West Brookfield – Selectmen
Tom O'Donnell	Town of West Brookfield – Police Chief
Jim Daley	Town of West Brookfield – Highway Superintendent
Greg Lucas	BETA Group, Inc.
Justin Curewitz	BETA Group, Inc.

Background

The Federal Highway Administration defines a Road Safety Audit (RSA) as the formal safety examination of an existing or future road or intersection by an independent, multidisciplinary team. The purpose of an RSA is to identify potential safety issues and possible opportunities for safety improvements considering all roadway users. A Road Safety Audit was scheduled for Route 9 (West Main Street) in West Brookfield from the Ware Town Line to Pierce Road, a length of approximately 2.1 miles, because the crash history of the roadway segment shows a number of lane departure crashes. The roadway segment is scheduled to be reconstructed by the MassDOT Highway Division under the statewide Transportation Improvement Plan (TIP). The RSA is intended to identify potential short and long term safety improvements that can be made along the Route 9 corridor, which can then be implemented through general maintenance for short term low cost improvements or incorporated into the planned reconstruction project to the greatest extent practicable.

Project Description

Route 9 (West Main Street), shown in Figure 1, is a Principal Arterial providing direct access between the town centers of West Brookfield and Ware. Route 9 is the primary route for residents of West Brookfield traveling to more developed retail areas in Ware, and serves as an important regional connector. Route 9 within the study area is under Town of West Brookfield jurisdiction, but is State Highway west of the Ware Town Line. Route 9 is a National Highway System roadway in West Brookfield and along its entire length statewide.

The project corridor is mostly undeveloped with wooded areas and steep slopes or rock ledge outcroppings at the edge of roadway. The Rock House Reservation is a 196-acre open space preserve on the north side of Route 9 within the project limits, and some residential properties are found at the eastern end of the project. Route 9 provides a single travel lane in each direction separated by a double yellow



Route 9 Eastbound - Typical Roadway Cross Section

centerline. A solid white edge line is provided in each direction with an edge offset varying between one and two feet, although the edge line and offset are often covered with sand or other runoff debris at the roadway edge. Guardrail is provided along much of the project corridor due to the steep side slopes. The total roadway width varies but is as narrow as 23 feet at certain points. This narrow cross section provides little recovery area for errant vehicles, and provides no room for vehicles to pull over to allow an emergency vehicle to pass. It was noted that this segment of Route 9 is the primary access route from West Brookfield to Baystate Mary Lane Hospital in Ware.



Road Safety Audit Route 9 (West Main Street) West Brookfield, MA

Figure 1Location Map

Dec 13,2012 9:02am 0:\4200s\4270 — MassDOT Road Safety Audit On Call\Assignment 9 — West Brookfield\Report\Figures\Location Map.dwg A 40 mph speed limit is posted for Route 9 within the project area. Speed data collected by the project design engineer at two locations along Route 9 show 85th percentile speeds varying between 44 and 49 mph along the corridor, with higher speeds eastbound at both locations. The state highway segment of Route 9 in Ware west of the project limits provides wider shoulders, a 45 mph speed limit and a generally flatter, straighter alignment; the resultant effect for eastbound vehicles is a noticeable change in roadway character as they climb the hill from the Ware Town Line into West Brookfield. The western end of the project corridor is characterized by a continuous downhill westbound grade, and it was noted that the majority of crashes occur in this segment.

Crash data provided by the West Brookfield Police Department and summarized by MassDOT show twelve crashes between September 2008 and August 2011. It was noted that due to the lack of adjacent houses or intersecting streets, it is difficult to pinpoint crashes along the corridor, and that additional crashes may have occurred within the project limits. Town personnel noted that the roadway grade, vehicle speed and a reduction of salt use in West Brookfield compared with the segment of Route 9 under State jurisdiction contribute towards a number of crashes in wintry conditions, and that emergency vehicles responding to crashes have at times seen additional crashes occur while responding to a single crash. Only one of the twelve crashes reported were identified as having occurred under winter conditions and no crashes occurred subsequent to other crashes, supporting the claim that the crash history of the roadway is more significant than the twelve crashes report.

The twelve reported crashes include eight single vehicle crashes, two sideswipe crashes, and two rear-end crashes. It should be noted that one of the rear-end crashes involved a mechanical failure of a vehicle, and two single vehicle crashes involved a tree or branch in the roadway. It was noted that the tree canopy was cleared recently to provide more sunlight on the roadway to help with snow and ice melt, but that trees and branches falling on the roadway is a common problem, and that guardrail is damaged in several locations from tree branches striking it from above.

Seven of the twelve crashes involve a vehicle leaving the roadway or striking a roadway obstruction such as a tree, utility pole or guardrail. Six of the twelve crashes occurred at night, when the lack of roadway lighting and lack of adjacent homes or businesses result in a dark roadway which has limited curve warning signage.

Audit Observations

Following a brief introduction to the RSA process and a summary of existing crash information, the audit participants were asked to discuss safety issues along the Route 9 corridor between the Ware Town Line and Pierce Road. Audit participants then viewed a video recording of the corridor in each direction, and noted safety issues and contributing factors both during and following the video. A summary of those major safety considerations is as follows:

- Drainage Drainage is provided by means of berm openings allowing runoff under the guardrail as
 well as drop inlets with grates located off the roadway throughout the western half of the study area.
 A number of issues related to drainage were discussed and are detailed below.
 - The spacing between basins is too great, which creates significant sheet and gutter flow during heavy rain events. The velocity of gutter runoff during heavy rain may cause it to bypass a specific inlet, creating greater flow at the downstream inlet and the possibility of sheet flow across the roadway through superelevated reverse curves.
 - The accumulation of sand from winter roadway treatment and leaves from the abundant trees frequently blocks drainage inlets and requires maintenance, which in itself creates a safety issue due to limited roadway width to operate maintenance vehicles.
 - Ponding is evident in some areas during heavy rain, as is sheet flow across the roadway.
 Both are evidence of potentially inadequate existing drainage, and both present icing concerns during cold weather.
 - The lack of a shoulder slope break prevents runoff from being contained along the roadway edge.
- Snow/Ice A number of safety issues related to snow, ice, snow removal and treatment of wintry road conditions were discussed.
 - As previously discussed, drainage inlets are located off the roadway throughout the
 western half of the study area, and accumulation of sand and leaves can block these
 inlets. This is also true of snow during plowing operations, which must be cleared from
 the roadside basins after being cleared from the roadway.
 - O Town personnel reported that it is common for snow melt to lead to drainage runoff, which then causes icing conditions and requires further treatment. Sand from this roadway treatment can potentially block drainage inlets as described above. It was noted that the tree canopy over Route 9 was selectively thinned, which has helped with snow melt by allowing more sunlight onto the roadway.
 - It was noted that the state uses salt for treatment of its roadways, but the Town of West Brookfield typically uses a three to one sand to salt mixture due to cost concerns. This can create a notable difference in roadway conditions for eastbound vehicles traveling

from the state highway section of Route 9 in Ware into West Brookfield, especially during the early stages of winter events, and may be a contributing factor along with speed in crashes known to occur in wintry conditions.

- Shoulder/Visibility The lack of shoulder was noted as a safety concern, both directly and specifically as it relates to other safety issues. The lack of shoulders provides little offset to roadside obstructions, which create visibility concerns. Safety concerns related to both the lack of shoulder and limited visibility are summarized below.
 - Maintenance Vehicles As previously noted, the existing width of the roadway provides no opportunity for maintenance vehicles to occupy the roadway without impacting traffic in both directions. This complicates the Town's ability to provide ongoing maintenance, including tree trimming and clearing of drainage inlets. It was noted that maintenance operations require two police detail officers to maintain traffic flow due to visibility restrictions created by the existing roadway geometry. This creates an added cost to the town and allocates police resources away from other departmental needs.
 - O Roadside Obstructions Rock ledge outcroppings and guardrails are close to the roadway edge, which may cause drivers to shy away from the roadway edge and encroach on the opposite lane. This increases the possibility of more severe encroachment due to driver error or excessive speed. This may be a factor in the history of lane departure crashes along the corridor.
 - Emergency Vehicles The lack of shoulder provides no room for a vehicle to pull over in case of emergency, or to allow passage by an ambulance or other emergency vehicle.
 - Bicycle Accommodation Existing lane and shoulder widths do not effectively
 accommodate bicycles, which are known to travel the roadway due to its regional
 connectivity and connection to recreational trail areas.
 - Truck Traffic It was noted that there is significant truck traffic along the corridor due to the roadway's regional connectivity. The lack of shoulders and frequent horizontal curves increase the likelihood of a truck encroaching on the opposite travel lane. It should be noted that none of the twelve identified crashes involved trucks.
- Trees Two crashes along the corridor involved trees or tree branches falling on the roadway, and guardrail damage along the corridor appears to be the result of tree branches falling from above.
 Town personnel noted that they cleared the tree canopy above the roadway, which helped with snow melt and also reduces the chance of limbs falling on the roadway.
- Speeding Speeding was noted as a safety concern along the corridor, and was specifically cited as a factor in three of the twelve reported crashes. Speed data collected for the corridor show that 85th percentile speeds exceed the posted 40 mph speed limit. Vehicle speed also exacerbates concerns about snow and ice, as drivers traveling eastbound from Ware may be traveling at speeds that are appropriate for roadway conditions in the state highway segment but unsafe for roadway conditions in West Brookfield. It was also noted that little to no room exists for police vehicles to park during

speed enforcement operations, and that they typically use private driveways, or use the Rock House Reservation driveway when the reservation is closed.

- Driver Fatigue Two crashes involved a driver that was fatigued or asleep. One struck a utility pole; the other crossed the double yellow centerline and sideswiped a vehicle traveling in the opposite direction.
- Signage Several issues related to signage were discussed by the audit team.
 - There is limited existing advance signage for curves and grades along the roadway, and what is provided appears to be older, faded and is not likely reflective at night.
 - No chevron signage is provided on curves along the corridor. Town personnel noted that chevron signs have been posted but quickly get knocked down or stolen.



Substandard existing sign

- No intersection warning signs are posted along Route 9 in advance of Pierce Road or Shoreline Drive. Crash data collected by the designer in support of a Design Exception Report noted three crashes at the intersection of Shoreline Drive and two at Pierce Road.
- Mile marker signage is sporadically located along the corridor. It was noted that increased mile marker signage would assist in emergency response by providing a reference point both for incident reporting and crash record keeping.
- A private No U-Turn sign posted at a business on the north side of Route 9 in Ware immediately west of Route 32 may indicate a deficiency in advance signage westbound for Route 32. It was suggested that signage may not be located far enough in advance of the intersection, and that drivers may as a result miss the intersection and need to turn around.
- Pavement Markings Pavement markings are faded and are assumed to not be reflective at night. It was noted that centerline markings are typically repainted each year in the spring. Edge lines are faded and covered in sand, dirt and debris in many areas.
- Animals It was noted that four recent crashes that are not included in the twelve reported crashes involved animal strikes (three deer and one moose).



Edge Lines obstructed by sand

- Lighting The lack of lighting along the corridor was noted as a safety issue, especially in combination with the lack of reflectivity of existing pavement markings and the lack of reflective signage. It was noted that much of the corridor does not have access to power lines, and that lighting may be impractical and inappropriate given the roadway character.
- Seasonal Traffic Traffic increases from mid-September to mid-October coinciding with the fall
 foliage season. This reinforces the need for appropriate warning and directional signage along the
 corridor. It was noted that crashes typically involve drivers from West Brookfield and the
 immediately surrounding communities.

Potential Safety Enhancements

Audit participants identified safety issues and recommended potential improvements to address these issues. Audit participants were encouraged to consider both short and long term improvements for each issue. Each improvement considered has been categorized as short-term, mid-term, or long-term based on the definitions shown in Table 2. Additionally, a cost category has been assigned to each improvement based on the parameters set forth in Table 2.

Table 2. Estimated Time Frame and Costs Breakdown

Time	Frame	Costs		
Short-term	<1 year	Low	<\$10,000	
Mid-term	1–3 years	Medium	\$10,000-\$50,000	
Long-term	>3 years	High	>\$50,000	

• Widen shoulders along Route 9 between the Ware Town Line and Pierce Road. A number of safety issues discussed can be addressed by widening Route 9 to provide shoulders. The current design plans provide an 11-foot travel lane a 4-foot shoulder along the length of Route 9 within the project limits. This meets minimum standards as established by MassDOT's Project Development and Design Guide (PDDG) for an arterial roadway, but does not meet minimum standards for a National Highway System roadway, which calls for 12-foot lanes and 8-foot shoulders. The existing topography of the project area prevents the ability to do significant widening without significant cut and fill work including extensive rock excavation.

AASHTO's 2010 Highway Safety Manual (HSM) provides tools for conducting quantitative safety analyses, allowing for safety to be quantitatively evaluated alongside other transportation performance measures such as traffic operations, environmental impacts, and construction costs. A preliminary HSM analysis done for the project area shows that widening to a 4-foot shoulder results in an expected decrease of 0.3 crashes/year. Further widening to provide an 8-foot shoulder would result in an expected decrease of 0.9 crashes/year. This is based on the twelve reported crashes in a three year period; the analysis would show a more substantial decrease if additional crashes were included. A summary of HSM analysis for the corridor is included in the Appendix.

The HSM analysis allows for a quantitative cost-benefit analysis comparing the expected reduction in crashes to the added cost of wider shoulders. The project designer may also consider selectively widening shoulders beyond the proposed 4-foot width in areas where widening impacts will be minimized. This would provide additional locations along the corridor for emergency vehicle passage, would provide additional room for correction of errant vehicles, and would facilitate maintenance operations along the corridor. Widening shoulders is a long-term, high cost improvement assumed to be included in the proposed project.

Consider gravel or grass clear areas off the roadway for vehicles to pull off the roadway. These clear
areas should be essentially level with the widened shoulder and will provide areas where vehicles can
pull completely off the roadway in an emergency. These areas can also be used by police for

enforcement efforts. This is a long-term, high cost improvement that should be assessed for inclusion in the proposed project.

- Increase the proposed guardrail setback in areas where guardrail may restrict visibility. Guardrail to be replaced as part of the proposed project should be set further back from the roadway at areas where sight distance is limited. This is a long-term, low cost improvement that should be incorporated into the proposed design.
- Provide additional drainage basins along Route 9 and locate all basins in the roadway along the gutter line. Keeping basins in the roadway will allow them to be cleared along with the roadway surface during snow events, and reduce the likelihood of the basins getting blocked by sand, leaves or other debris. Providing additional basins will promote positive drainage and prevent excessive runoff or sheet flow. This is a long-term, high cost improvement assumed to be included in the proposed project.
- Verify adequate superelevation transitions in reverse curves in the proposed design, and confirm that
 drainage basins are placed to prevent cross-roadway sheet flow. Inadequate superelevation in
 combination with inadequate drainage is the likely cause of sheet flow across the roadway during
 heavy rain events. Verification of design techniques is a short-term, low cost improvement;
 implementation of the design is a long-term, high cost improvement assumed to be included in the
 proposed project.
- Provide a shoulder break along the roadway to keep stormwater flow in the roadway gutter. This
 long-term, high cost improvement is included in the proposed design and will also help prevent sheet
 flow across the roadway.
- Selectively trim trees along the roadway corridor. Consistent selective trimming done as an ongoing
 maintenance operation will remove dead or damaged limbs before they have a chance to impact the
 roadway and the traveling public. This is a short-term (and ongoing) low cost improvement.
- Consider "Low Salt Area" signage. A discussion was raised regarding placement of "Low Salt Area" signage eastbound to warn drivers that Route 9 in West Brookfield is not treated with as much salt as Route 9 in Ware. It was noted that these signs are typically used in areas where the water supply is protected. Ultimately it was determined to not erect signs to avoid sign clutter. This improvement should be considered by the Town if crashes persist in the eastbound direction just over the town line in wintry conditions.
- Implement selective ledge removal in the proposed project. Existing ledge outcroppings are located very close to the roadway edge and may cause drivers to shy away from them and encroach on the opposing travel lane. It was noted that removal of some ledge areas is required as part of widening proposed for the project. Additional ledge removal should be included on a spot-treatment basis in areas where ledge to remain will be located closed to the roadway, and/or where ledge has the most significant impact on visibility. This is a long-term, high cost improvement that should be included in the proposed project. Specific areas of ledge removal should be determined by the designer and MassDOT District 2 personnel.

- Provide 12-foot lanes to accommodate truck traffic. 11-foot lanes have been proposed for the project meeting minimum MassDOT PDDG requirements. 12-foot lanes should be considered to meet requirements for a National Highway System roadway. This will provide additional width for trucks, which are known to encroach on the opposing travel lane when navigating the many curves along the project corridor. This is a long-term, high cost improvement that should be included in the proposed project.
- Provide "Share The Road" signage. W11-1 Bicycle signs with W16-1 "Share The Road" supplemental plaques should be provided at each end of the study corridor to alert motorists that they may encounter bicycles along the roadway. This is a short-term, low cost improvement.
- Provide curve warning signs with advisory speeds and chevron arrows along Route 9 within the project limits. Existing signage is sporadic and does not meet current retroreflectivity standards. New signs should be erected where appropriate to alert drivers to the roadway geometry. This is a long-term, low cost improvement assumed to be included in the proposed project.
- Provide a "Road Narrows" sign on Route 9 eastbound at the Ware town line.
 This sign will alert drivers of the change in roadway width as they enter West Brookfield. This is a short-term, low cost improvement.
- Replace the existing "Steep Downgrade" sign with a W7-1 Hill warning sign. The existing sign is substandard and is missing letters. The proposed improvement will more clearly warn drivers of the westbound downgrade. This is a short-term, low cost improvement.
- Relocate the advance guide sign for Route 32 and consider adding a supplemental distance to the sign. The sign can be relocated further east into the clear area in advance of the horizontal curve, which will allow greater visibility for approaching vehicles. Although the existing sign meets MassDOT guidelines for D6/D8 series signs, it was suggested that adding a supplemental distance to the sign would provide additional awareness for approaching vehicles. This is a short-term, low cost improvement.
- Increase enforcement for speeding along the corridor. Additional enforcement is a short-term improvement with no cost, except for the cost of potential reduced enforcement elsewhere. Widened shoulders in the proposed design should increase the officers' ability to pull over speeders in the future.
- Provide intersection warning signs in advance of Shoreline Drive and Pierce Road. Since both intersections are T-intersections, W2-2 warning signs as shown at right are appropriate. Signs should be posted in each direction in advance of each street. This is a short-term, low cost improvement.
- Replace the existing street name sign for Pierce Road. Town personnel noted that they have begun replacing street name signs town-wide with signs meeting new Manual on Uniform Traffic Control

SHARE

NARROW

W16-1

Devices (MUTCD) requirements for Title Case legends on street name signs. It was noted that the sign at Shoreline Drive has been replaced with a newer, larger sign. The sign at Pierce Road should be similarly replaced as a short-term, low cost improvement.

- Replace mile marker signage along the corridor. Existing mile marker signage is sporadically located.
 Signage should be updated so that it is consistently located along the corridor, which will help with incident reporting and crash record keeping. This is a long-term, low cost improvement that can be included in the proposed project.
- Reapply pavement markings. It is assumed that centerline markings will continue to be repainted each
 year by the Town of West Brookfield. Markings included in the proposed project should be six inches
 wide and should be reflective thermoplastic. This is a long-term, low cost improvement assumed to be
 included in the proposed project.
- Provide a centerline rumble strip along the project corridor. Centerline rumble strips are being
 considered by MassDOT in areas showing a history of lane departure crashes. Rumble strips will alert
 the driver through vibration and noise when they cross the center line, and would address the two
 crashes attributed to fatigue and one additional crash attributed to inattention. This is a long-term,
 medium cost improvement that can be included in the proposed project.
- Consider reflectors along the proposed guardrail. Reflectors will help delineate the edge of roadway
 obstructions at night. It should be noted that two of the reported crashes involved vehicles striking the
 existing guardrail. This is a long-term, low cost improvement that can be incorporated into the
 proposed project.

Summary of Road Safety Audit

Table 3 summarizes potential recommendations discussed by the audit team. The recommendations are categorized based on the potential safety payoff, as well as by time frame and cost. The safety payoff is a qualitative judgment of the effectiveness of the potential safety improvements. Each recommendation has a responsibility assigned to it stating whether MassDOT or the Town of West Brookfield would be responsible for implementing the recommended improvement. The term "Project" refers to improvements that are assumed to be included or could reasonably be accommodated as part of planned improvements. Project improvements have a cost category assigned to them; short-term and ongoing maintenance improvements have an order of magnitude cost assigned.

Table 3. Potential Safety Enhancement Summary

Safety Issue	Safety Enhancement	Responsibility	Safety Payoff	Time Frame	Cost			
All Locations								
Shoulder/Visibility (including all secondary issues)	Widen shoulders along Route 9 between the Ware Town Line and Pierce Road. The width of shoulders should be determined based in part on a cost/benefit analysis performed using the quantitative measures for determining crash reductions included in the Highway Safety Manuals.	Project	High	Long-term	High ^{**}			
Shoulder/Visibility, Emergency Vehicles	Consider gravel or grass clear areas off the roadway for vehicles to pull off.	Project	High	Long-term	High*			
Shoulder/Visibility, Roadside Obstructions	Increase the proposed guardrail setback in areas where guardrail may restrict visibility.	Project	High	Long-term	Low*			
Drainage, Snow/Ice	Provide additional drainage basins along Route 9 and located all basins in the roadway along the gutter line.	Project	Medium	Long-term	High**			
Drainage	Verify adequate superelevation transitions in reverse curves in the proposed design, and confirm that drainage basins are placed to prevent cross-roadway sheet flow.	Project	Medium	Short-term (Design)	Low*			
Drainage	Provide a shoulder break along the roadway to keep stormwater flow in the roadway gutter.	Project	Medium	Long-term	High**			
Trees	Selectively trim trees along the roadway corridor.	Town	Medium	Short-term	\$5,000			
Signage, Snow/Ice	Consider "Low Salt Area" signage. (This improvement is not recommended at the current time by the audit team, but should be considered in the future if crashes persist.)	Town	Medium	Mid-term	\$1,000			
Shoulder/Visibility, Roadside Obstructions	Implement selective ledge removal in the proposed project.	Project	High	Long-term	High*			
Truck Traffic	Provide 12-foot lanes to accommodate truck traffic.	Project	High	Long-term	High*			
Bicycle Accommodation, Signage	Provide "Share The Road" signage at each end of the study corridor.	Town	Medium	Short-term	\$1,000			
Signage	Provide curve warning signs with advisory speeds and chevron arrows along Route 9 within the project limits.	Project	High	Long-term	Low**			

Table 3. Potential Safety Enhancement Summary

Safety Issue	Safety Enhancement	Responsibility	Safety Payoff	Time Frame	Cost
Signage	Provide a "Road Narrows" sign on Route 9 eastbound at the Ware town line.	Town	Medium	Short-term	\$250
Signage	Replace the existing "Steep Downgrade" sign with a W7-1 Hill warning sign.	Town	Medium	Short-term	\$250
Signage	Relocate the advance guide sign for Route 32 and consider adding a supplemental distance to the sign.	MassDOT	Medium	Short-term	\$1,000
Speeding	Increase enforcement for speeding along the corridor.	Town	High	Short-term	Use of police resources
Signage	Provide intersection warning signs in advance of Shoreline Drive and Pierce Road.	Town	Medium	Short-term	\$1,000
Signage	Replace the existing street name sign for Pierce Road.	Town	Medium	Short-term	\$250
Signage	Replace mile marker signage along the corridor.	Project	Medium	Long-term	Low*
Pavement Markings	Reapply pavement markings.	Project	High	Long-term	Low**
Driver Fatigue	Provide a centerline rumble strip along the project corridor.	Project	High	Long-term	Medium*
Roadside Obstructions	Consider reflectors along the proposed guardrail.	Project	High	Long-term	Low*

^{*} These improvements were not part of the proposed project as described and should be included in the next submission. All other "Project" safety enhancements are assumed to already be included in the proposed improvements.

^{**} Improvements to be incorporated into the proposed project are assumed to be included as part of the overall project cost.

Road Safety Audit- Prepared by BETA G	—West Elm Street High Crash Lo Group, Inc.	ocations between West St and Warren Ave—Brockton, MA
	A non an dive A	DCA Mosting Agends
	Appendix A.	RSA Meeting Agenda



Road Safety Audit

West Brookfield

Route 9 - Ware Town Line to Pierce Road

Meeting Location: Lower Level Conference Room
West Brookfield Town Hall
2 East Main Street, West Brookfield, MA
Friday, December 7, 2012
10:00 AM – 12:00 noon

Type of meeting:

Road Safety Audit

Attendees:

Invited Participants to Comprise a Multidisciplinary Team

Please bring:

Thoughts and Enthusiasm!!

10:00 AM

Welcome and Introductions

10:15 AM

Discussion of Safety Issues

- Crash history provided in advance
- Existing Geometries and Conditions

11:00 AM

Site Visit

- Drive to Route 9 between Ware Town Line and Pierce Road
- As a group, identify areas for improvement

11:30 AM

Discussion of Potential Improvements

- Discuss observations and finalize safety issue areas
- Discuss potential improvements and finalize recommendations

12:00 noon

Adjourn for the Day - but the RSA has not ended

Instructions for Participants:

- Before attending the RSA on December 7th, participants are encouraged to drive through the corridor and complete/consider elements on the RSA Prompt List with a focus on safety.
- All participants will be actively involved in the process throughout. Participants
 are encouraged to come with thoughts and ideas, but are reminded that the
 synergy that develops and respect for others' opinions are key elements to the
 success of the overall RSA process.
- After the RSA meeting, participants will be asked to comment and respond to the document materials to assure it is reflective of the RSA completed by the multidisciplinary team.

Road Safety Audit—West Elm Str Prepared by BETA Group, Inc.	eet High Crash Locations between West St and Warren Ave—Brockton, MA
Appendix B.	RSA Audit Team Contact List

Participating Audit Team Members Location: West Brookfield - Route 9

Date: December 7, 2012 Location: West E

Audit Team Member	Agency/Affiliation	Email Address	Phone Number
Green Lucas	BFA Grave	GLUCAS @ RETA-INC. COM	781-255-1983
Justin Concepte	BETA GAUP	Stuan's & BEH-In. com	781-255-1887
DOUZ WHITE	MASSDOT - DIST, 2	Douglas, M. White @ 2017. A. A. M. M. as known	413 582-055T
LAVENTE SCARBEOCKH	MASSDOT DZ	laurie-Scarbroggh@DG.STATE,HA-US	413-582-0891
Suiotha Maharaknishnan	an CMRPC	Sujotha (a) controc. Ora	508.459.3335
Day Dayska	CHRPC	domisent Porcher	508.459-3581
JOHANNA BARRY	selectmens office	ibarry@wbrookfield.com	508-867-1421 X300
John Morgan	Coler + Colantonia	smorgan@col-col.com	781-982-5437
Chris Chambus	M45 Do T-D6	Christopher. Chambers @ DoT. state mans 978-395-1080	978-395-1080
Iom O'Dannell	WBPD	Ctoclome 11@ Whoolfield. Com	508-867-1405
Kevin KrASWECKY	CM RPC	KKruswech Ocm RR. ord	508-459-3314
Bany Nadon Jr.	Selectmen	bear 69 Vette @ charter. Net	413-355-4606
Fauld Guentin	C+C Engrs	Engrs pquertingcul-col.com (617) 510-6081	(617) 510-6081
Jin Daley	Hwy Supuralagent	they supuralizatent I dalay ewbrookfield, con 508-867-141.	161-198-805
Lisa Schletzbaum	MassDOT-Safety	Lisa. Scheltbaune state, ma. 115	857-358-9634
			10 May 10
	1000		

Road Safety Audit—V Prepared by BETA Grou	Vest Elm Street High Crash Locat up, Inc.	ions between West St and Warren Avo	e—Brockton, MA
	Appendix C.	Detailed Crash	Data

Crash Data Summary Table West Main Street (Rt 9); West Brookfield, MA

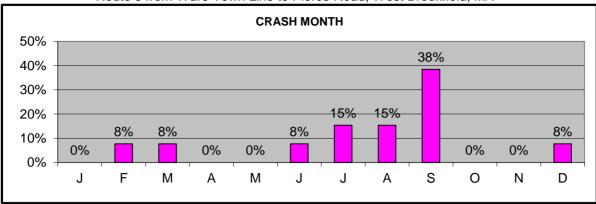
9/1/2008 - 8/1/2011

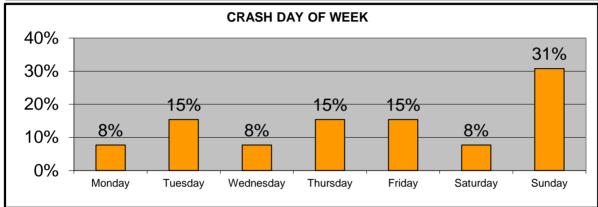
	Crash				Weather					
#	Date	Time of Day	Manner of Collision	Light Condition	Condition	Road Surface	Driver Contributing Code	A	ges	Comments
	m/d/y		Туре	Туре	Туре	Туре	Туре	D1	D2	
1	9/5/08	9:25 PM	Single Vehicle Crash	Dark - roadway not lighted	Clear	Dry	Operating Vehicle in erratic, reckless, careless, negligent, or aggressive manner	22		Operator was traveling down Pierce Rd. too fast, ran through stop sign, crossed W Main St and came to rest in a ditch.
2	9/14/08	2:44 AM	Single Vehicle Crash	Dark - lighted roadway	Cloudy	Wet	Fatigued/asleep	36		Operator fell asleep and struck utility pole #58
3	6/7/09	2:58 PM	Sideswipe, opposite direction	Daylight	Clear	Dry	Exceeded authorized speed limit	18	32	Operator came around corner, went over double yellow line, side-swiped Veh 2, ran off right side of road up hill, then back across road into guardrail.
4	9/22/09	5:29 AM	Single Vehicle Crash	Dark, unknown roadway lighting	Clear	Dry	Operating Vehicle in erratic, reckless, careless, negligent, or aggressive manner	27		Vehicle veered across road and hit guard rail on opposite side of road
5	7/12/10	3:42 PM	Single Vehicle Crash							**INCIDENT REPORT Branch fell on Veh 1 (motorcycle) at 494 W Main St.
6	8/6/10	12:25 AM	Single Vehicle Crash	Dark - roadway not lighted	Clear	Dry	No Improper Driving	17		Vehicle struck guardrail then crossed roadway and hit tree
7	8/17/10	11:04 AM	Rear-end	Daylight	Clear	Dry	No Improper Driving	48	unk	Veh 1's wheel came off while driving and it rolled into Veh 2 which was parked in #389 W Main St.
8	9/22/10	11:56 AM	Rear-end					58	56	**INCIDENT REPORT Police veh was stopped to turn left into #342 W Main St., Veh 1, which was behind police veh, was rear- ended by Veh 2.
9	9/30/10	12:40 PM	Single Vehicle Crash	Daylight	Rain	Wet	No Improper Driving	47		Vehicle struck a small tree in roadway
	12/23/10 2/6/11	3:31 PM 11:20 PM	Sideswipe, opposite direction Single Vehicle Crash	Dawn	Cloudy Clear	Dry Snow	Fatigued/asleep	25 43	52	Vehicle 1 crossed double yellow center line at curves in road and side-swiped vehicle 2
		3:19 AM	Single Vehicle Crash	Dark - lighted roadway Dark - roadway not lighted	Clear	Dry	Driving too fast for conditions Inattention	20		Vehicle traveled off roadway into embankment Vehicle left roadway and struck tree on opposite side of road

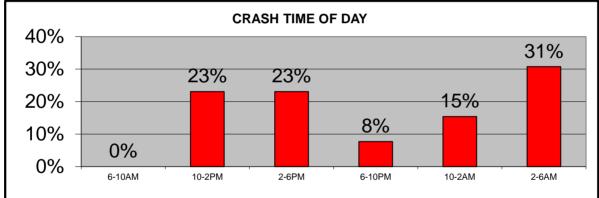
Summary based on Crash Reports obtained from the West Brookfield Police Department

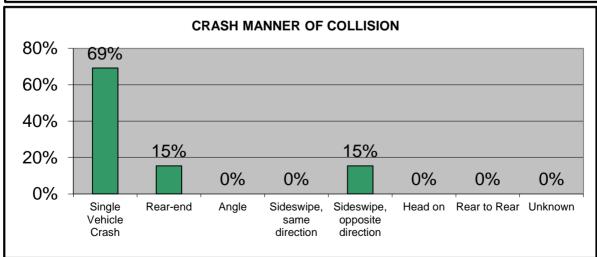
Crash Data Summary Tables and Charts

Route 9 from Ware Town Line to Pierce Road; West Brookfield, MA

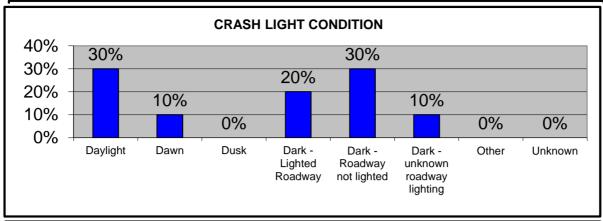


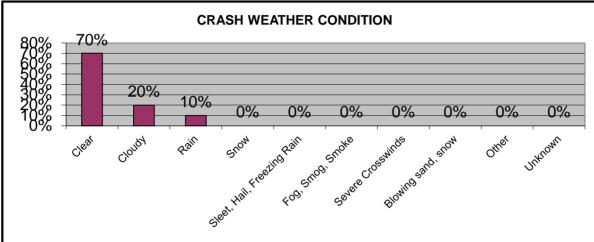


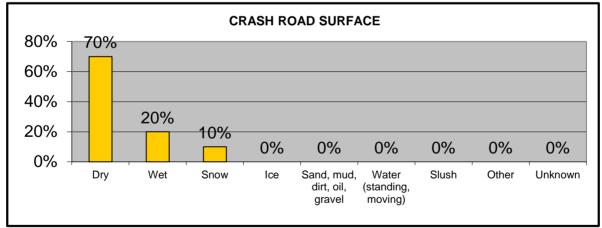


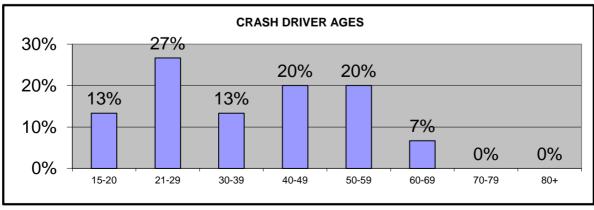


Crash Data Summary Tables and Charts Route 9 from Ware Town Line to Pierce Road; West Brookfield, MA









Road Safety Audit—West Elm Street High Crash Locations between West St and Warren Ave—Brockton, MA Prepared by BETA Group, Inc.
Appendix D. Highway Safety Manual Analysis

Road Segment Element Treatment

Shoulder Width Treatment

 $2012 \text{ AADT} = 5400 \qquad \textit{from FDR, June 2012}$ $2032 \text{ AADT} = 6000 \qquad \textit{from FDR, June 2012}$ $\text{Related Crashes* (crash/yr)} = 2.3 \qquad \textit{From West Brookfield PD records, 9/1/2008 - 8-1-2011}$ $\text{Total Crashes (crash/yr)} = 4 \qquad \textit{From West Brookfield PD records, 9/1/2008 - 8-1-2011}$ $p_{ra} = 0.58$

Crash Modification Factors

Width of shoulder	2 ft (current)	4 ft	8 ft	
CMF_{ra}	1.3	1.15	0.87	from figure 13-5
CMF _{ra treatment}	1	0.88	0.67	
CMF_{total}	1.18	1.09	0.92	from equation 13-3
CMF _{total treatment}	1	0.93	0.79	

Expected Number of Crashes

Width of shoulder	2 ft (current)	4 ft	8 ft
Related Crashes (crash/yr)	2.3	2.1	1.6
Crash Reduction (crash/yr)	0	0.3	0.8
Total Crashes (crash/yr)	4	3.7	3.1
Crash Reduction (crash/yr)	0	0.3	0.9

^{*}Related crashes are crashes that are single-vehicle run-off-road, multiple-vehicle head on, oppositedirection sideswipe, and same-direction sideswipe as stated in Figure 13-5.