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Partner
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Presenter:

Town-Wide Traffic Study

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A plan of recommended actions for consideration by the Town was developed. Posted speed limits, traffic conditions during the data collection period, and to verify field measurements and observations were performed to observe account for seasonal variations. Adjustments were applied to the traffic volume data in order to December using radar data recorders. Data was collected on two (2) consecutive weekdays in early January. The advancement of mitigative measures and informed decision-making to establish baseline conditions and allow for targeted classification data along critical roadways within the Town in order to collect traffic volume, vehicle travel speed, and vehicle Scope of Work.
Overall, observed traffic volumes are consistent roadways.

Traffic volumes along Grove Street, Main Street, and High Street are disproportionate to the density of the land use along these roadways.

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Commuter peak hours community with peak demands occurring during the weekday morning (toward Route 53) and eastbound in the evening.

Flow patterns and flow patterns are characterized by residential traffic through the town, ranging from 11,010 vehicles per day (VPD) to 14,435 VPD, with the primary traffic flow being westbound in the afternoon.
Posted speed limits along a number of roadways vary by direction.

In the absence of a posted speed limit, the regulated travel speed was 10 mph. Place of the posted speed limit or the regulated travel speed was 20 mph. In general, prevailing travel speeds were found to be within 5 to 10 mph.

Prevalent residential roadway features of a residential roadway conductive to the nature of a residential street or the design were generally not characterized by vehicle travel speeds of up to 45 mph, which are generally not categorized by 85th percentile travel speed. River Street was found to have 85th percentile travel speeds of between 43 mph and 47 mph. High travel speeds were observed along Grove Street, with 85th percentile travel speeds of 50 mph.

Results - Travel Speeds
pronounced construction activities and landscaping operations are more

truck traffic will be higher during the spring, summer, and fall when

Vehicle classification data is subject to seasonal fluctuations and

Vehicle Type - Type Vehicle

traffic on similar roadways

Truck traffic typically comprises between 2 and 5 percent of the

the traffic on the remaining study roadways

Large trucks were found to comprise between 1.0 and 1.5 percent of

approximately 5 percent of the traffic

Central Street/River Street, excepting the section of Main Street west of

Main Street, excepting the section on both Grove Street and

approximately 2 percent of the traffic on both Grove Street and

Large trucks (defined as Categories D and E on Figure 4) comprise

passenger vehicles

Over 95 percent of the traffic on Town Roadways consists of

Results - Vehicle Type
The calculated motor vehicle crash rates were found to be below what the state average crash rates of between 3.49 and 3.80 crashes per million vehicle miles traveled for similar roadways.

River Street had the second highest number of reported crashes, with 10 crashes reported.

Scituate Town Line and Central Street/River Street situate between the Hanover Town Line and 17 crashes reported between the Main Street experienced the largest number of reported crashes.

Results - 2016 Crash Data
Recommended Actions

- Continuation of regular enforcement of posted or regulated speed limits
- Complete a sign and pavement marking inventory
- Traffic calming measures during roadway maintenance activities; consider implementing
- A Traffic Calming Guide should be developed
- An internal review of speed zone postings for all town roadways should be undertaken
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- Sensitive residential roadways during the spring or fall
- Additional monitoring of truck activity should be conducted along
- Prioritization Plan

- Projects that are included on the Town’s Complete Streets
- Applications of projects under review by Town Boards should advance
- Adopt a Complete Streets policy and Implementation Plan
Questions
Town-Wide Traffic Study