

Expanded Data Collection Work Plan

As stated in the request for proposals (RFP), the consultant team is responsible for collecting traffic data (all modes) throughout the established study area for on and off-school hours during the school year and summer months. The scope of services outlined below will allow VHB to analyze traffic patterns during different times of the day and year, capturing any potential substantive variation in flow. Working with the school committee and the community to understand the collected data will allow for the development of improvement options that mitigate congestion and safety concerns within the study area and focus on mobility for pedestrians and bicyclists, as well as vehicles.

In addition to the data collection program outlined below, VHB has also prepared a data needs request for the Town of Dedham. Based on the response from the data needs request; the data collection program may be adjusted accordingly.

Data Collection

The study area for the project will include the following roadways and intersections:

- » Roadway Links
 - » Whiting Avenue from East Street to Walnut Street
 - » East Street from High Street to Whiting Avenue
 - » High Street from East Street to Milton Street
 - » Walnut Street from Milton Street to East Street
 - » Eastern Avenue from East Street to BJs shopping Plaza driveway (back entrance)
 - » Mount Vernon Street from High Street to Walnut Street
 - » East Street from Whiting Avenue to Walnut Street
- » Intersections
 - » Whiting Avenue/Eastern Avenue at East Street
 - » Whiting Avenue at Mount Vernon Street
 - » Whiting Avenue at Walnut Street/Oakdale Street
 - » Whiting Avenue at Middle School Egress Driveway
 - » Whiting Avenue at Recreation Road
 - » East Street at High Street
 - » East Street at Middle School Driveway
 - » Mount Vernon Street at Middle School Driveway
 - » Mount Vernon Street at Elmview Place
 - » High Street at Mount Vernon Street/ Parking Lot Driveway
 - » High Street at School Driveway (Recreation Road)
 - » High Street at Pottery Lane
 - » Walnut Street at East Street

VHB is proposing three traffic data collection periods; spring, summer, and fall.

Spring Data Collection

During the spring, Automatic Traffic Recorder (ATR) count data, which will include vehicle classification and speeds, will be collected for a 48-hour period at eight (8) locations.

- » Whiting Avenue, between Dedham Middle School Ingress and Egress Driveways
- » Whiting Avenue, between Mt Vernon Street and Morse Avenue
- » Eastern Avenue, between BJ's shopping Plaza Driveway and East Street
- » East Street, between Eleanor Street and Barrows Street
- » East Street, between Whiting Avenue and Jersey Street
- » Mount Vernon Street, between Whiting Avenue and Mt Vernon Place
- » High Street, between Recreation Road and Maverick Street
- » Walnut Street, between East Street and Mt. Vernon Street

Turning Movement Count (TMC) data, which will include vehicles, bicycles, pedestrians, and heavy trucks, will be collected at the following 10 intersections between the hours of 7 to 9 AM and 2 to 7 PM.

- » Whiting Avenue/Eastern Avenue at East Street
- » Whiting Avenue at Mount Vernon Street
- » Whiting Avenue at Walnut Street/Oakdale Street
- » Whiting Avenue at Middle School Egress Driveway
- » Whiting Avenue at Recreation Road
- » East Street at High Street
- » East Street at Middle School Driveway
- » Mount Vernon at Middle School Driveway
- » High Street at Mount Vernon Street / Parking Lot Driveway
- » High Street at School Driveway (Recreation Road)

VHB will conduct an inventory of the study area roadways that will include documenting the physical conditions of the roadway corridors and intersections within the study area. Information will be collected on existing traffic signal equipment, pavement condition and width, sight distance, designated pedestrian or bicycle facilities, and roadway/intersection geometry.

VHB will request recent crash records within the study area from the Dedham Police Department. These data may be supplemented by public records available from the Registry of Motor Vehicles (RMV). It is noted that no locations within the study area have been identified by MassDOT as high crash locations.

Summer & Fall Data Collection

During the summer and fall, we anticipate collecting data as outlined below. These locations may be adjusted after review of the spring data collection and in consultation with the Town. Automatic Traffic Recorder (ATR) count data, which will include vehicle types and speeds, will be collected for a 48-hour period at the following six (6) locations.

- » Whiting Avenue, between Dedham Middle School Ingress and Egress Driveways
- » Whiting Avenue, between Mt Vernon Street and Morse Avenue
- » Whiting Avenue, between Recreation Road and Fulton Street
- » East Street, between Eleanor Street and Barrows Street

- » Mount Vernon Street, between Whiting Avenue and Mt Vernon Place
- » High Street, between Recreation Road and Maverick Street

Turning Movement Count (TMC) data, which will include vehicles, bicycles, pedestrians, and heavy trucks, will be collected at the following six (6) intersections between the hours of 7 to 9 AM and 2 to 7 PM.

- » Whiting Avenue at Middle School Egress Driveway
- » Whiting Avenue at Recreation Road
- » East Street at Middle School Driveway
- » Mount Vernon at Middle School Driveway
- » High Street at Mount Vernon Street / Parking Lot Driveway
- » High Street at School Driveway (Recreation Road)

Site Observations

VHB will observe morning drop-off and afternoon/evening pick-up activity at the High School, Middle School, and Avery Elementary School; with particular focus paid to the access driveways. These observations will be collected once during each of the data collection periods, weekday morning and afternoon periods. These observations will include traffic, pedestrian, and bicycle site access and on-site circulation as well as bus operations (as applicable). VHB anticipates having one (1) field staff member stationed at each of the three (3) schools to conduct these observations during the spring and fall data collections. A review of the summer schedule and planned activities will determine if, and how many, field observers will be required for the summer data collection