



Memorandum

To: Mr. Michael Mauro,
Transportation Program Manager
Martha's Vineyard Commission

Date: February 9, 2018

Project #: 14156.00

From: Randall C. Hart
Principal

Re: Proposed Huseby Residential Project
Old Courthouse Road
Proposed Traffic Scope

The proposed development consists of approximately 27 acres of land in West Tisbury which has previously been approved for a 3 unit and 3 guest houses subdivision. An additional 3-acre parcel has been added to the land assemblage. The additional lot has been approved for 2 additional residential structures. The current proposal is to modify the previously approved to accommodate 8 market residential structures, one of which would house a pre-school (up to 25 students) and add 12 affordable residential units. The 12 affordable units represents the incremental change from the previously approved site plan, along with the conversion of one residential unit to a pre-school.

While the project is not expected to generate much new traffic in the area, there are neighbors and abutters who will have an interest in the project. For the purpose of fully understanding the traffic generation and operational changes that the project may present, a traffic study will be prepared and we propose the following scope for the study:

1.1 Existing Roadway Network Inventory

VHB will perform an inventory of existing traffic conditions at the study area locations identified below. The inventory will include the existing lane geometry, parking, traffic signal operations and timings, pavement conditions, pavement markings, and signage.

Based on VHB's understanding of the project and through initial discussion with MVC staff a study area for the project has been assumed and consists of 5 intersections in the immediate vicinity of the site:

- Huseby Mountain Road at Old Stage Road (2 intersections)
- Old Stage Road at State Road
- Old Courthouse Road at State Road
- Old Courthouse Road at Site Driveway (doesn't exist currently)

In addition, VHB will walk the site and surrounding roadways with MVC staff and the client to identify existing features and the character of the area. Pedestrian features will also be identified within the study area.

1.2 Existing Traffic Data Collection

VHB will collect automatic traffic recorders (ATRs) and manual peak hour turning movement and classification (TMC) counts within the Project study area.

Counts Conducted includes

101 Walnut Street
PO Box 9151
Watertown, MA 02472-4026
P 617.924.1770

Daily Traffic Counts: 48-hour ATR counts will be obtained for Old Courthouse Road and Old Stage Road including collection of vehicular speeds.

Turning Movement Counts: weekday morning (7 AM to 9 AM) and weekday evening peak hour (4 PM to 6:00 PM). Should the town or the MVC city require additional periods of review or additional intersections, an amendment to this contract will be necessary.

1.3 Crash Data Analysis

VHB will review available crash data for the study area intersections to include the most recent five-year period available from MassDOT. The data will be summarized and reviewed to identify correctable crash trends, and crash rates will be calculated following standard MassDOT procedures.

1.4 Seasonal and Historical Adjustment Factors

Counts that are currently available to VHB from other projects, the MVC, or from MassDOT Traffic Counting Stations will be gathered and reviewed to assess appropriate seasonal and historical adjustment factors.

1.5 Background Traffic Growth

VHB will contact the MVC and the Town of Tisbury and review in-house information to determine an appropriate list of background projects that should be included in the TIAS. This data along with the historical adjustment factor will be used to develop traffic volumes for the intersections listed above for the 2025 No-Build condition.

1.6 Project Trip Generation

Trip generation associated with the project will be derived based on Institute of Transportation Engineers (ITE) data and empirical data as appropriate and where available. Both peak hour and daily traffic generation projections will be made to establish potential future traffic associated with the proposed project. Credit for removal of existing uses will be evaluated and applied to the highest extent possible and practical if applicable.

1.7 Project Trip Distribution

VHB will distribute the projected site traffic onto the local roadway network based on the existing travel patterns and review of local journey to work data to develop the 2025 Build networks.

1.8 Conduct Capacity Analysis

VHB will conduct capacity analysis based on the existing roadway conditions and any planned roadway improvements. The extent and nature of any system deficiencies will be identified. The analysis will be conducted during the weekday evening and Saturday midday peak hours for the following conditions:

2018 Existing

2025 No-Build

2025 Build

1.9 Sight Distance

VHB will measure available Stopping Sight Distance (SSD) and Intersection Sight Distance (ISD) at the proposed Old Courthouse Road driveway and along Old Stage Road at the two intersections with Huseby Mountain Road.

1.10 Traffic Impact and Access Study

VHB will prepare a Traffic Impact and Access Study that includes an analysis of the traffic impacts of the project as proposed.