



To: Mr. John Stefanini

Date: May 9, 2024

Memorandum

Project #: 16012.00

From: Robert Nagi, PE
Director Transportation Planning and
Operations

Re: Preliminary Gardner Equestrian Traffic Assessment

VHB has prepared this technical memorandum to outline transportation elements of the proposed equestrian facility located along Route 140 in Gardner, Massachusetts. The purpose of this memorandum is to both review the current traffic volumes in the vicinity of the Project site and to conceptually outline how the project will function during both the normal 'day-to-day' operations as well as during their Special Event days.

Current Traffic Operations

The site is currently serviced via an existing driveway along Route 140. Along the entire frontage of the site, Route 140 is under the jurisdiction of the City of Gardner. Immediately to the southeast, Route 140 is under the jurisdiction of MassDOT (including its intersection with Green Street approximately 300 feet south of the site's current driveway).

According to MassDOT, Route 140 just south of the Project site carries approximately 11,200 vehicles per day with about 1,000 vehicles during the peak commuter hours. Weekend traffic is slightly lighter with about 10,000 daily trips, but the peaks are not as significant.

Similarly, Green Street south of the site carries approximately 5,100 vehicles per day with about 400-500+/- vehicles/hour during the commuter peak periods.

The intersection of Green Street at Route 140 operates well during the commuter peak periods with some delays for side street turning traffic. According to MassDOT, there are no notable safety issues within the vicinity of the Project site.

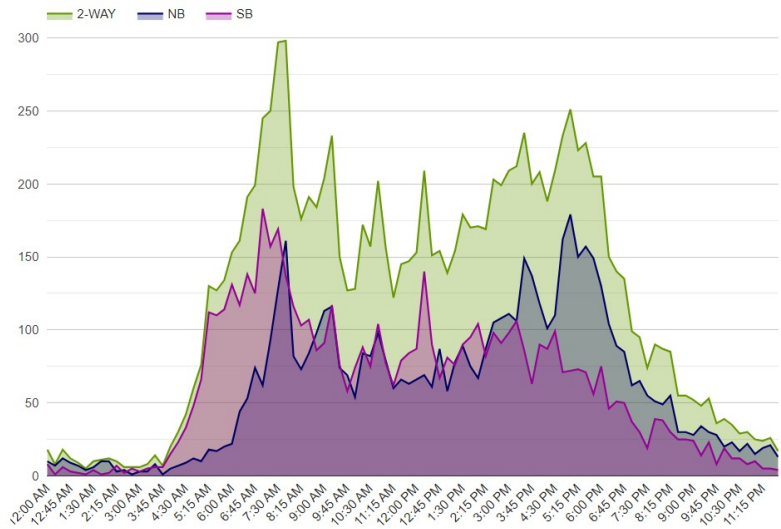


Figure 1 - Route 140 Weekday Daily Traffic Volume 15-minute increments (Source: MassDOT TCDS portal)

Daily Facility Operations

During normal operations, the facility will provide typical equestrian activities (maintenance, training) of which many of those activities would take place during off-peak periods (mostly on weekends and during the middle of the day on weekdays) with only limited full time staff arriving and departing from the site during typical commuter peak hours. As currently envisioned, access to and from the site would be provided via the existing driveway along Route 140 which will be reviewed during the site plan development to assure it is designed to accommodate a safe and efficient operation.

Traffic Impacts

As noted above, the general day to day operations of the equestrian operations do not generate any significant volume of peak hour traffic – with ranges of about 20-40 employees arriving and departing during these time periods. Over the course of the day, the site would typically see anywhere from 250-350 daily trips arriving/departing the site spread out over the typical daylight hours. These are made up of employees arriving and departing from the facility, deliveries, and visitors to the facility. This would equate to about 2-3 percent additional traffic being added to the Route 140 corridor.

Special Event Operations

Assuming that the project will host some number of special event days throughout the year (of which the frequency and number of visitors will be determined through discussions with the City), VHB considered that the majority of visitors arriving to the site would likely do so to the Gardner area via Route 2, with some smaller volume of traffic arriving from the north via Route 140.

As is typical with these types of special events, guests will arrive at the site over the course of several hours depending on the schedule of events to take place at the facility. In most cases, there is a surge of visitors who depart the site within the hour of the conclusion of the schedule of events.

For example, a special event that hosts between 2,000 and 5,000 visitors would typically see about 1,000 to 1,600 vehicles arrive over a two- to four-hour window and depart within an hour of the event conclusion. Arriving traffic during the busiest period would represent about 50 percent of the arriving vehicles (~500-800 cars/hour). As noted, the peak hour of the Route 140 corridor sees about 1,000 vehicles per hour with limited congestion near the project site observed – so the volumes are consistent with what the corridor currently carries during the weekday.

In order to address the impact of these surges in traffic associated with the special events, VHB typically works with the City, MassDOT, police (local and state), and other stakeholders to develop a detailed traffic management plan that is developed cooperatively based on the collective experiences of the stakeholders and VHB. This plan is then presented to the City in advance of the event for discussion and implementation. Following the first events, VHB and stakeholders would review what worked well with the TMP and where adjustments could be made to improve the overall experience (which would be integrated into the next TMP for future events).

Elements of the plan will include, but are not limited to, the following:

- Pre- and post-event staging (deliveries, set up, and break down),
- Event timing (to coincide with off-peak commuter traffic),
- Parking management (guests, VIPs, and participants),
- Shuttle bus routes (to remote parking areas),
- Signage and wayfinding,
- Temporary intersection control (police details and signage),
- Media and digital content outreach, and
- Identification of police/medical emergency access/egress