



TOWN OF MAYNARD Department of Public Works

MUNICIPAL BUILDING
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Administration

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Facilities

Highway

Water & Sewer

Memorandum

To: Select Board
From: Justin DeMarco, DPW Director
CC: Greg Johnson, Town Administrator
Date: April 25, 2023
Subject: Final Design / Engineering of Route 27 at Concord Street Traffic Signal

Recommended Action:

Motion to accept the terms of the contract agreement (#1385) with Vanasse Hangen Brustlin Inc. (VHB) for final design development of Route 27 at Concord Street Traffic Signal for the Town of Maynard.

Purpose:

As part of the Department of Public Works capital improvement plans, we review and evaluate capital infrastructure improvements to provide the community with efficient, effective, reliable, and safe methods of transportation. The intersection of Route 27 at Concord Street has been the community's highest priority traffic safety concern and has been pursued for multiple years as an opportunity for increased safety enhancements. Execution of full design and engineering will allow the Town of Maynard to post a complete bid for the construction of this vital safety improvement.

Background:

On June 24, 2022, the Town of Maynard was awarded an ARPA Spending Bill Earmark Award of \$500,000 for the construction of safety improvements at the intersection of Route 27 and Concord Street.

The estimated project construction cost at the time of submittal was \$510,000 in 2022, which includes items as detailed in the conceptual design cost estimate.

This project includes the construction of a new traffic control signal system and associated vehicle and pedestrian safety improvements at the intersection of Concord Street at Haynes and Brown Street (Route 27) in Maynard, Massachusetts. The project also includes construction administration of the proposed improvements, from design through advertising, bidding, contract procurement, construction, and project closeout.

Specifically, the following improvements will be made at this intersection:

Installation of a new traffic signal cabinet with approved MassDOT controller and ancillary control equipment.

- Installation of a new traffic signal mast arm and post system with signal heads to control vehicular and pedestrian operations at this intersection.
- Installation of traffic signal posts with pedestrian control equipment to guide pedestrians across Haynes Street and Concord Street, as well as specific pedestrian control equipment to meter the Assabet River Rail Trail multi use path crossing of Concord Street.
- Installation of an advanced “SIGNAL AHEAD” illuminated traffic signal beacon on Haynes Street at Walcott Street (south of the intersection). This is included based on limited sight distance in the northerly direction on Haynes Street.
- Installation of MUTCD compliant regulatory and safety traffic and pedestrian signage.
- Sidewalk and pedestrian ramp upgrades throughout the intersection at various locations.
- Sidewalk upgrades on approximately 400’ of Haynes Street between Concord Street and Acton Street.
- Sidewalk and pedestrian ramp upgrades at the Acton and Concord Street intersection, directly adjacent to the project intersection.
- Pavement mill and overlay of all four approaches to the intersection as well as the Acton and Concord Street intersection.
- Relocation of a vehicular speed feedback sign solar unit on Haynes Street to a new location north of Concord Street.
- Minor drainage improvements to approaches of the intersection based on the installation of new sections of sidewalk and new handicap ramps.
- The work will also include removal and resetting of existing granite curb, installation of new granite curb, replacement of existing cement concrete or asphalt sidewalk with new cement concrete or asphalt sidewalk as well as new pavement markings throughout the project intersection.

These improvements will provide a safer mix of vehicular traffic at this location and its intersection with the Assabet River Rail Trail to better accommodate pedestrian and vehicular connections from the abutting neighborhoods and the Assabet River trail system.

This project brings this intersection into compliance with current AAB/ADA standards. The location of these upgrades is part of the Town’s effort to ensure pedestrian and vehicular accommodation, accessibility, and safety at this highly used intersection that connects major roadways to Maynard’s downtown area.

Financial Impact

Engineering Design of Route 27 at Concord Street Traffic Signal intersection improvements funding has been previously approved through contract agreement between the State of Massachusetts and Town of Maynard including receipt of wire transfer of appropriated funding of five hundred thousand dollars (\$500,000.00) as an ARPA Spending Bill Earmark on June 24, 2022.