GPI

Greenman-Pedersen, Inc.
Engineering | Design | Planning | Construction Inspection

Funding Modification Summary
Northern Watermain Location

PIN 1761.82: NYS Route 5S Pedestrian/Bicycle Access Improvement Project

10/27/2026

This summary documents the basis for the preferred northern watermain location and the resulting $1,490,000 estimated funding increase. The cost increase is driven by NYSDOT's determination the watermain cannot be placed within the NYS Route 5S pavement. To mitigate not placing the watermain in the roadway, a temporary watermain and a watertight storm system is required. Coordination among the Town, NYSDOT, and CRTC is needed to confirm the applicable funding availability and complete the necessary funding modifications to the TIP.

Proposed Watermain Location

Three potential watermain locations were originally evaluated during development of the waterline design:

1. North under sidewalk
2. Center under roadway (Proposed to NYSDOT)
3. South under sidewalk

The northern watermain location will conflict with the existing watermain, requiring a temporary watermain during construction. Right-of-way constraints and proximity of residential buildings prevent installing the proposed watermain adjacent to the existing main to maintain service without the use of a temporary main. This location also cannot meet the minimum 10-foot horizontal separation between the proposed watermain and storm sewer required by 10 States Standards. The lack of separation requires the storm sewer pipe to be changed to pipe with watertight gaskets. The temporary watermain and watertight storm sewer will significantly increase project costs. This option was previously dismissed because funding was insufficient to cover these higher costs during preliminary design.

The southern watermain location will need to be placed under the sidewalk. Along the southern side of the corridor, the right-of-way generally extends only to the back of the existing and proposed sidewalk. Because of this narrow right-of-way, there would not be sufficient space for both the proposed watermain and existing gas line under the sidewalk. This would require the gas main to be relocated into the roadway, which NYSDOT does not support. The southern location also would result in significant utility pole relocations. Based on these constraints, this option was dismissed.

Based on NYSDOT comments, placement of the watermain within the NYS Rote 5S pavement will not be permitted. Following discussion of the three potential watermain locations during the 9/3/26 meeting with NYSDOT, the northern watermain location was identified as the preferred location.

Northern Watermain Estimate

The Engineer's Estimate for the northern watermain location, shown in 2027 dollars, is as follows:

- Roadway Construction– $5,200,000
- Watermain Construction– $3,500,000
- Construction Inspection - $870,000

The additional estimated cost associated with the preferred northern watermain location is as follows:

- Roadway Construction Increase - $900,000.00
- Watermain Construction Increase - $400,000.00
- Construction Inspection Increase - $130,000.00
- Design Increase - $60,000
- Total Cost Increase - $1,490,000.00

The roadway construction increase is associated with modifying the storm sewer to meet watertight design requirements. The unit prices used to determine the cost of the watertight storm sewer were based on quotes from a contractor on another project. The watermain construction increase is associated with the temporary watermain and additional asbestos concrete removals.

The design increase covers the work required to implement the change to the northern watermain location based on NYSDOT determination, including revisions to plan sheets, details, estimates, and specifications. This effort is necessary to incorporate the temporary watermain, watertight storm-sewer requirements, and other changes associated with the preferred alignment into the contract documents.