

Nantucket Court and Hemlock Avenue Drainage Improvement Project

Status as of January 10, 2020

Background

These two projects were originally put out for bid on September 25, 2019 to address drainage/stabilization issues along with installing stream restoration practices downstream of each respective outfall. In the City's 2015 TMDL Action Plan, Nantucket Court and Hemlock Ave were identified as projects the City would implement in order to address pollutant load reductions within the Chesapeake Bay Watershed Area as mandated by EPA and DEQ. In order to be in compliance with the action plan, stream restoration practices were added to the construction plans.

The City received one construction bid from Shoosmith Construction in the amount of \$279,000. This bid exceeded the engineer's estimate and the City's budget for construction by over 100%. Shortly after the bid opening, City staff met with representatives from Shoosmith to negotiate services to be performed within the City's budget. Through these discussions, we discovered the stream restoration practices were a major cost driver and had to be cut in order to address the stabilization issues that were of great concern to the property owners adjacent to the two projects.

Public Works staff is currently working with our on-call consultant, JMT, to address the TMDL Action Plan and locate potential projects to cover the pollutant load reductions from the removal of Nantucket and Hemlock projects. Projected costs for each project are listed below.

Nantucket Court

Description of Work

Contractor will extend and tie an existing 15 inch stormwater pipe to a 42 inch stormwater pipe downstream utilizing a new junction box. A new 42" stormwater outfall, exiting the junction box, will allow water to discharge from the stormwater pipe system and large erosion control stone will be utilized for outlet protection and energy dissipation. Existing erosion areas will be stabilized as needed and all areas will be restored to similar or better condition.

Estimated Cost

\$110,000

Projected Schedule

Start of construction is scheduled for late January 2020. Construction expected to take 3 weeks, weather depending.

Hemlock Avenue

Description of Work

Contractor will construct a 12 foot wide triangular ditch for approximately 175 feet starting at the end of Hemlock Avenue north toward Swift Creek. Erosion Control stone will be utilized to dissipate energy as the water flows within the ditch. Existing eroded areas will be stabilized as needed and all areas will be restored to similar or better condition.

Estimated Cost

\$52,000

Project Schedule

Start of project will coincide with the completion of the Nantucket project. Current projection for the start of construction is Mid-February. Construction expected to take 1 week, weather depending.

Hemlock Avenue Drainage Project

Project Area



1 inch = 500 feet

Nantucket Court Drainage Project

Project Area



1 inch = 500 feet