

Merridale Gardens Stormwater Management Facility Retrofit

Background:

The Merridale Gardens subdivision was constructed in the late 1970s in Mount Airy, Maryland. Stormwater quantity control was provided by a detention basin located along Ridge Avenue, south of Merridale Boulevard. Flow from the facility traveled under Ridge Avenue and then MD 27, eventually to the South Branch of the Patapsco River.

Scope of Work:

The Carroll County Bureau of Resource Management, in partnership with the Town of Mount Airy, hired an engineer to analyze the site and design a facility to meet all current State and County stormwater management standards. The goal was to make the facility easier to maintain and meet Water Quality Volume, Channel Protection Volume, and Overbank Flood Protection Volume requirements. The facility must be a dry facility due its location in a Use III watershed. A surface sand filter facility was designed.

Carroll Land Services, Inc. was awarded the design contract in February of 2016.

Sequence of Construction:

Construction of the facility was awarded to Conewago Enterprises, Inc. in June of 2018. All necessary Federal and State permits were obtained for the project. The project wrapped up in July of 2019. The property on which the facility is located is owned and maintained by the Town of Mount Airy.

The Bureau of Resource Management was awarded \$425,000 from the Department of Natural Resources Chesapeake & Atlantic Coastal Bays Trust Fund towards construction of this project.

Project Details:

Watershed:	South Branch Patapsco
Drainage Area:	81 acres
Impervious Surface Treated:	23.81 acres
Costs: Engineering	\$ 94,381.00
Construction	\$1,196,768.63
Time Frame:	3 years, 5 months

Submitted By:

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