

Small Crossings/Savannah Estates Stormwater Management Facility Retrofit

Background:

Small Crossings and Savannah Estates are two subdivisions constructed in the early 1990s located in Hampstead. Stormwater management for the Small Crossings subdivision was provided by a detention basin located behind houses at the intersection of Popes Creek Drive and Creswell Terrace. Existing storm drains from the surrounding streets convey runoff to the facility, which then discharges to Prettyboy Reservoir. Stormwater for the Savannah Estates subdivision was originally provided by an infiltration

Scope of Work:

The Carroll County Bureau of Resource Management partnered with the Town of Hampstead to provide recharge, water quality, channel protection, and 10 year management back to meadow conditions for both subdivisions in the Small Crossings facility. A surface sand filter system was constructed in the location of the detention basin. The Savannah Estates facility was filled in. Additionally, a stub of pavement for the future McAllister Lane extension was removed since the extension is no longer planned. A bio-retention facility was constructed to treat impervious runoff to that area. EA Engineering performed the design work for the project. Throughout the design process, community meetings were held with the residents and Homeowners Association.

Sequence of Construction:

Construction of the facilities was awarded to Thomas, Bennett & Hunter, Inc. in February of 2017. All necessary State permits were obtained for the project. A pre-construction meeting was held on April 20, 2017 and construction began in May. The project wrapped up in late October 2017 with the planting of the bio-retention facility. Because construction completion occurred so late in the growing season, the facilities were replanted in the spring of 2018. The properties on which the facilities are located are owned and maintained by the Town of Hampstead.

The Bureau of Resource Management received \$324,510 from the Department of Natural Resources to use towards construction of this project.

Project Details:

Watershed:	Prettyboy Reservoir
Drainage Area:	29.6 acres
Impervious Surface Treated:	11.5 acres
Costs: Engineering	\$ 33,443.94
Construction	\$399,676.91
Time Frame:	24 Months

Submitted By:

Kelly Martin
Watershed Grants Technician







