

Shiloh Middle Stormwater Management Facility Retrofit

Background:

Shiloh Middle School was constructed in 1999 in Hampstead. Stormwater management is provided by a shallow marsh located behind the school athletic fields. Due to the proximity of a water supply well, the marsh includes a geomembrane liner. Recent inspections of the facility have noted severe erosion of the primary riprap inflow swale, including exposure and damage to the geomembrane. The Bureau of Resource Management worked in partnership with the Carroll County Board of Education to upgrade the facility instead of just addressing the maintenance issues.

Scope of Work:

The new facility addresses erosion issues at the inflow swale and provides water quality, channel protection, and 10 year management back to meadow conditions. The drainage area to the facility is approximately 83.83 acres with approximately 26 acres of that being impervious. The receiving water course is Indian Run, a Use III-P watershed.

RK&K was awarded the design contract in September of 2017.

Sequence of Construction:

Construction of the facility was awarded to W.F. Delauter and Sons, Inc. in September of 2019 with Notice to Proceed issued at the end of November. All necessary Federal and State permits were obtained for the project. Construction wrapped up in Summer of 2020.

Project Details:

Watershed:	Liberty Reservoir
Drainage Area:	83.83 acres
Impervious Surface Treated:	25.64 acres
Costs: Engineering	\$122,741.00
Construction	\$962,655.94
Time Frame:	3 years

Submitted By:

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