

Locust Wetland

Background:

The Bureau of Resource Management worked in partnership with the Town of Union Bridge to locate a potential property to construct a new stormwater management facility to serve the Town. The facility is adjacent to the Little Pipe Creek and provides water quality for approximately 38.76 acres of the central part of Town which is a mixture of residential, commercial, and industrial property. Approximately 11.9 acres of the drainage area are impervious. The Town purchased property for this restoration opportunity.

Scope of Work:

The constructed wetland stormwater facility was planned within the 100 year floodplain of Little Pipe Creek; therefore, the facility had to be entirely excavated. Runoff diverted from cross culverts under George Street and Locust Street is conveyed to the facility.

Century Engineering was awarded the design contract in April of 2018.

Sequence of Construction:

Construction of the facility was delayed due to property owner changes and land acquisition negotiations. The County eventually awarded the construction contract to Kibler Construction Company in May of 2022. There were several incidences of sink holes developing during the excavation/construction process. Several changes were made to protect the facility from future damage, including pipe liners and lining the facility. A key feature of the constructed wetland is the native plantings through each hydrologic zone of the facility. All necessary Federal and State permits were obtained for the project. The project wrapped up by the end of November 2022.

Project Details:

Watershed:	Double Pipe Creek
Drainage Area:	38.76 acres
Impervious Surface Treated:	11.9 acres
Costs: Engineering	\$ 90,000.00
Construction	\$ 855,459.54
Time Frame:	4.5 years

Submitted By:

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