

High Point Stormwater Management

Background:

The High Point stormwater management facility is an existing facility located off of North Carroll Dale Drive and Firewood Drive in Eldersburg. This facility was targeted because of the current condition of the outfall structure, and the facility was not capturing all of the intended run-off from the subdivision. Due to the condition of the pond, the County wanted to retrofit the facility to bring it up to current standards thereby ensuring that the facility provides stormwater control and can be easily maintained.

Scope of Work:

The site was analyzed by CLSI to determine if infiltration would be feasible. An enclosed storm drain system was designed along Firewood Drive to convey run-off so it would no longer continue to run through a 12" CMP on a private property. The design for the facility included a 22" layer of #2 stone with 4" HDPE type "SP" pipe laying on top to draw any excess water off the surface. The pipe was topped with 14" of #8 stone and then finished with 12" of a sand-soil filter mixture. All of the slopes were designed at 3:1 to allow efficient machine mowing. A trench drain was placed in Firewood Drive to capture the runoff from the drive and several lots. An inlet was also placed above the facility to capture and convey the water from the subdivision. Upon completion Firewood Drive was re-surfaced to make the transition over the trench drain smooth. The facility was designed to meet and exceed all current county and state stormwater management regulations.

Sequence of Construction:

The homeowners around the facility were contacted about the retrofit in April of 2008. At that time staff members met with the adjoining property owners to discuss the proposed retrofit. The county acquired several construction easements to work on private property. The facility went out to bid on January 16, 2009 with bids due back January 30, 2009.

The job was awarded to Stambaugh's, Inc. and was slated to begin April of 2009. The contractor began working May of 2009. The contractor completed the project in October, but had to wait until a two inch stand of grass was established in November before it received it's final grading and sediment control inspection. The as-built was accepted by the County on December 24, 2009.

Project Details:

Watershed:	Liberty Reservoir
Drainage Area:	9.4 acres
Impervious Surface Treated:	1.82 acres
Costs: Engineering	\$ 35,491.30
Construction	\$ 182,480.96
Paving	\$ 12,900.00
Time Frame:	21 Months

Submitted By:

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07/23/2009



07/30/2009



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