

Heritage Heights Stormwater Management Facility Retrofit

Background:

The Heritage Heights stormwater management facility is an existing facility located off of Monroe Avenue and Advisory Court in Eldersburg. This facility was targeted because of the current condition of the existing dam, and the facility was not capturing all of the intended run-off from the subdivision. Due to the condition of the facility, the County wanted 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 CTI Consultants, Inc. to determine if the existing dam was constructed of suitable material. The investigation concluded that the existing dam would need to be replaced. The design for the facility was completed in-house and included a 18" layer of #8 stone with 6" HDPE type "S" pipe laying on top to draw any excess water off the surface. The pipe was topped with 18" of a sand-soil wood chip mixture. A manhole was added so that the existing stormdrain could be connected and extended down to outlet into the facility. All of the slopes were designed at 4:1 and 3:1 to allow efficient machine mowing. A new emergency spillway was created and lined with 19" of Class I rip-rap. 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 June of 2010. At that time staff members met with an adjoining property owner to discuss the proposed retrofit. The facility went out to bid on March 18, 2011 with bids due back April 4, 2011.

The job was awarded to White Pine Construction and was slated to begin in the Summer of 2011. The contractor began working in June of 2011. The contractor completed the project in October, and received its grading completion certificate on December 6, 2011. The as-built was accepted by the County on December 8, 2011.

Project Details:

Watershed:	Liberty Reservoir
Drainage Area:	21.38 acres
Impervious Surface Treated:	4.10 acres
Costs: Geo Technical	\$ 3,123.00
Construction	\$95,225.00
Time Frame:	18 Months

Submitted By:

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07/11/2011



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07/13/2011



11/03/2011