

Harvest Farms 1A Stormwater Management

Background:

The Harvest Farms 1A stormwater management facility is an existing facility located off of Cable Drive and Alfalfa Court in Eldersburg. This facility was targeted because of the current condition of the existing dam, the large amount of sediment deposition in the bottom, and the facility was not capturing all of the intended run-off from the subdivision. Because of the condition of the facility the County wanted to bring it up to current standards thereby ensuring that the facility provides stormwater control for the entire contributing drainage area, and it can be easily maintained.

Scope of Work:

The site was analyzed by Carroll Land Service to determine if the facility was capturing the intended drainage area. The design for the facility included collecting drainage from three stormdrain systems and bringing them together to discharge at a single outfall. A new embankment with a core trench and a 12" clay liner was added constructed. The old riser was removed and a new riser and barrel pipe were constructed. All of the slopes were designed at 3:1 to allow efficient machine mowing. Overburden from this site was hauled to the Klapp farm for disposal. The overburden was spread out per the approved Sediment and Erosion Control plan. Trees that were removed for construction were replaced by Hunter Landscaping. The facility was designed to meet and exceed all current county and state stormwater management regulations.

Sequence of Construction:

The County was contacted by the Harvest Farms Homeowners Association and a community meeting was held on August 25, 2010. A conceptual design was developed and presented to the residents on April 26, 2011. The county entered into several license agreements with adjoining homeowners allowing the contractor to perform minor grading on their property. State and Federal permits were obtained for the retrofit of this facility. The facility went out to bid on September 2, 2011 with bids due back September 28, 2011.

The job was awarded to Stambaugh's Inc. and was slated to begin over the winter. The contractor began working in January 2012. The contractor completed the project in May, but had to wait for a 2" stand of grass to be established before the grading completion certificate was issued. The grading completion certificate was issued on September 26, 2012. The as-built was accepted by the County on June 14, 2012. The trees were replaced in October 2012.

Project Details:

Watershed:	South Branch Patapsco
Drainage Area:	43.8 acres
Impervious Surface Treated:	11.25 acres
Costs: Engineering	\$ 32,681.00
Construction	\$ 312,766.86
Landscaping	\$ 2,810.00

Submitted By:

Janet O'Meara
Watershed Management Specialist









08/07/2012