

# Parrish Park Stormwater Management Facility Retrofit

## **Background:**

The Parrish Park stormwater management facility is an existing facility located near the intersection of Caren Drive and Ryon Court in Eldersburg. This facility was targeted because of drainage problems in the neighborhood, 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 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 upgrading the existing storm drain system, while installing additional inlets to capture the drainage. Under drains were also installed to better convey the water underground, and a grass swale was graded in the HOA open space area to convey the drainage. A retaining wall was constructed in order to gain the necessary water quality volume needed. A new riser was installed and the existing barrel pipe was lined and anti-seep collars were installed. The embankment was lined with a 12" clay liner and an emergency spillway was constructed. All of the slopes were designed at 3:1 to allow efficient machine mowing. Overburden from this site was hauled to the Buppert 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 Red Hill Lawn Service. The facility was designed to meet and exceed all current county and state stormwater management regulations.

## **Sequence of Construction:**

The County was contacted by several homeowners that were having water back up on their property during storm events. A community meeting was held on June 17, 2010. A conceptual design was developed and presented to the residents on November 9, 2010. The county entered into several legal agreements with adjoining homeowners allowing the contractor to perform grading and storm drain installation on their property. State and Federal permits were obtained for the retrofit of this facility. The facility went out to bid in September with bids due back September 28, 2011.

The job was awarded to White Pine Construction and was slated to begin over the winter. Due to wet weather the county delayed construction until after January 1, 2012. The contractor began working mid-January. 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 June 11, 2012. The as-built was accepted by the County on June 16, 2012.

## **Project Details:**

Watershed:	S. Branch Patapsco
Drainage Area:	94.23 acres
Impervious Surface Treated:	18.2 acres
Costs: Engineering	\$ 44,878.00
Construction	\$478,692.12
Landscaping	\$ 3,797.50
Time Frame:	24 Months

## **Submitted By:**

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