

Public Meeting for the Harness Creek Gully Repair (P584605)

June 23, 2022
6:30pm to 7:30pm
Via: Zoom



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Important Meeting Information / Comments

- Tonight's meeting will be audio and video recorded
 - You will only hear the voices of the presenters
- For questions and comments, please use the Q&A function at the top or bottom of your device screen
 - All questions will be answered at the end of the presentation
 - Any questions that cannot be answered tonight will be added to the Q&A document provided to the Office of Planning and Zoning
- For up to 2 weeks after tonight's meeting, send questions and comments to:
<https://www.aacounty.org/departments/planning-and-zoning/development/community-meetings/past-meetings-comments/>
 - Comment period will be two weeks from this meeting or until July 7.



Meeting Agenda

- Welcome and Introduction – Bruce Bruchey, Department of Recreation and Parks Capital Projects (DRP)
- Project Presentation – Yinting Hou, PE, KCI
 - Project Background and Purpose
 - Goals and Objectives
 - Existing Conditions
 - Schematic Design
- Next Steps – Yinting Hou, PE, KCI
- Questions – Melissa Harlinski, Department of Public Works (DPW)



Project Background and Purpose

- During preliminary work for another project, DPW and Rec & Parks identified significant erosion along a drainage channel from a culvert under the trail
- The purpose of this project is to correct the erosion and restore the outfall channel



Goals and Objectives

- Restore channel to stable conditions
 - Protect the park from ongoing erosion
 - Prevent further loss of large trees falling into the gully
 - Reduce discharge of sediment and pollutants into Harness Creek
- Determine what water quality improvements, through prevented sediment and pollution removal can be achieved



Project Location

- From the trail culvert to Harness Creek
- On the right heading into the park, just before the dog park



General Community Meeting Information per Code § 17-2-107

- **Project Name:** Harness Creek Gully Repair
- **CIP Number:** P584600;
Contract Number: P584605
- **Funding:** Anne Arundel County
(Capitol Improvement Project)
- **Address:** 600 Quiet Waters Park Rd.
Annapolis, MD 21403
- **Property Owner:** Public (Anne Arundel County)
- **Grading Permit Number:** Not applied for yet
- **Zoning:** OS – Open Space
- **Water & Sewer Type:** Existing Public Service
- **Impacted Schools:** None
- **Number of Proposed Lots:** None
- **Type of Proposed Product:** Erosion Control
- **Approximate Road Configuration:** None required, access is existing from Quiet Waters Park Road. Some temporary impact to trails, parking.
- **Limit of Disturbance =** 0.74 acres



General Community Meeting Information per Code § 17-2-107



- Modifications Anticipated: Steep Slopes, Wetland Impacts (Nontidal near the D/S end of the project, and tidal Harness Creek fringe wetlands)
- Approximate Location of Environmental Features On-Site:
 - Critical area, tidal wetlands, wetlands, steep slopes, forest
 - Specimen trees (>30") identified and surveyed
- Impacts of Proposed Development on Environmental Features:
 - Critical area (Resource Conservation Area), tidal wetlands, wetlands, steep slopes, tree clearing
- Conceptual Stormwater Management:
 - Step Pool Storm Conveyance



Capital Project Life Cycle



**CURRENT
PHASE OF
PROJECT**

Right-of-Way Process

It is critical that the appropriate rights-of-way, easements and real estate acquisitions necessary to implement a project be secured before the Construction Phase can begin.

1 Project Inception

A Capital Project request is created in response to a need identified by a User Agency. The Bureau of Engineering develops a project description, budget and schedule. The Capital Project request is reviewed by the Capital Improvement Plan Oversight Committee, who weighs costs and public advantages along with those of other ongoing or new project requests. Ultimately, the County Executive determines which projects are included in the Capital Budget request presented to the County Council annually. The request to fund the new Capital Project must be approved by the County Council.

2 Contract Initiation

Once the Capital Project is approved, a new Contract is created. A scope of work is identified and used to competitively select an engineering firm to execute the Design Phases. The DPW Project Manager oversees the engineering firm's selection process and the various Design Phases, including communicating and coordinating with the User Agency and the Public.

3 Design

Schematic Design
During the Pre-Design Phase, the information that has been gathered is transformed into multiple options, alternative evaluations and comparisons, and ultimately a recommended preferred alternative. This evaluation process includes developing conceptual drawings, writing reports and estimating probable construction costs that illustrate the scale and relationship of project components.

Design Development

In Design Development, the Schematic Design is defined and refined through plans, profiles, elevations, and sections depicting the layout of buildings, linear infrastructure, rights-of-ways, limits of disturbance and pertinent site features.

Construction Documents

The plans and outline specifications prepared during Design Development are developed into a complete set of Construction Drawings and Specifications used to secure construction contractor bids, obtain the required permits and rights-of-ways and serve as the basis for preparing the Engineer's final estimate of probable construction cost.

Bid Documents

After completing the Construction Documents, the necessary rights-of-way and construction permits must be received before DPW can warrant the construction documents, sign the drawings and advance the Project to the Bid & Award Phase.

4 Bid & Award

The Bid Documents are provided to prospective bidders as part of a competitive bidding process that determines which Construction Contractor will be awarded the contract to build the proposed capital improvements.

5 Construction

The DPW Project Manager is responsible for overseeing and coordinating the collective efforts of the Construction Contractor, the Consultant providing construction management and inspection services and the Design Consultant providing technical guidance during construction.

6 Project Performance

This is the close-out of the Construction Contract, signifying conditional acceptance of the work. During the one-year Contractor warranty period, the constructed project is monitored - any observed defective construction work is corrected - and the County issues "final acceptance" of the Project. At the end of the Project Performance Period, the User Agency becomes responsible for all required routine maintenance and operation.



Existing Conditions

- Existing culvert under the trail is concentrating flow in the woods, and has eroded out a gully
- Approximately 450 linear feet of channel erosion and gully formation
- Several large trees have fallen in the channel
- Channel “head cut” will continue to move upstream causing further erosion



Existing Conditions

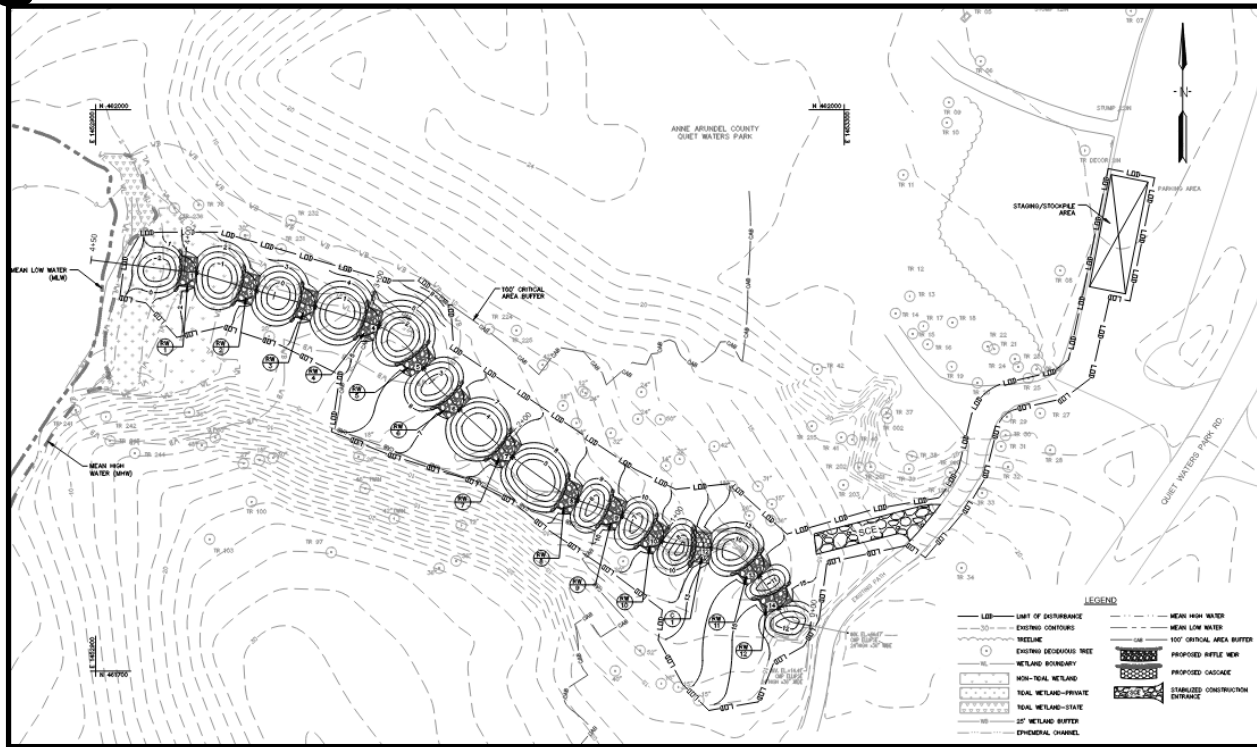


Schematic Design – Step Pool Storm Conveyance (SPSC)

- Cobble / Boulder Riffles, with Pools for Dissipation of Energy
- Underlying Sand Filtration and Groundwater Interaction
- Extensive Native Planting

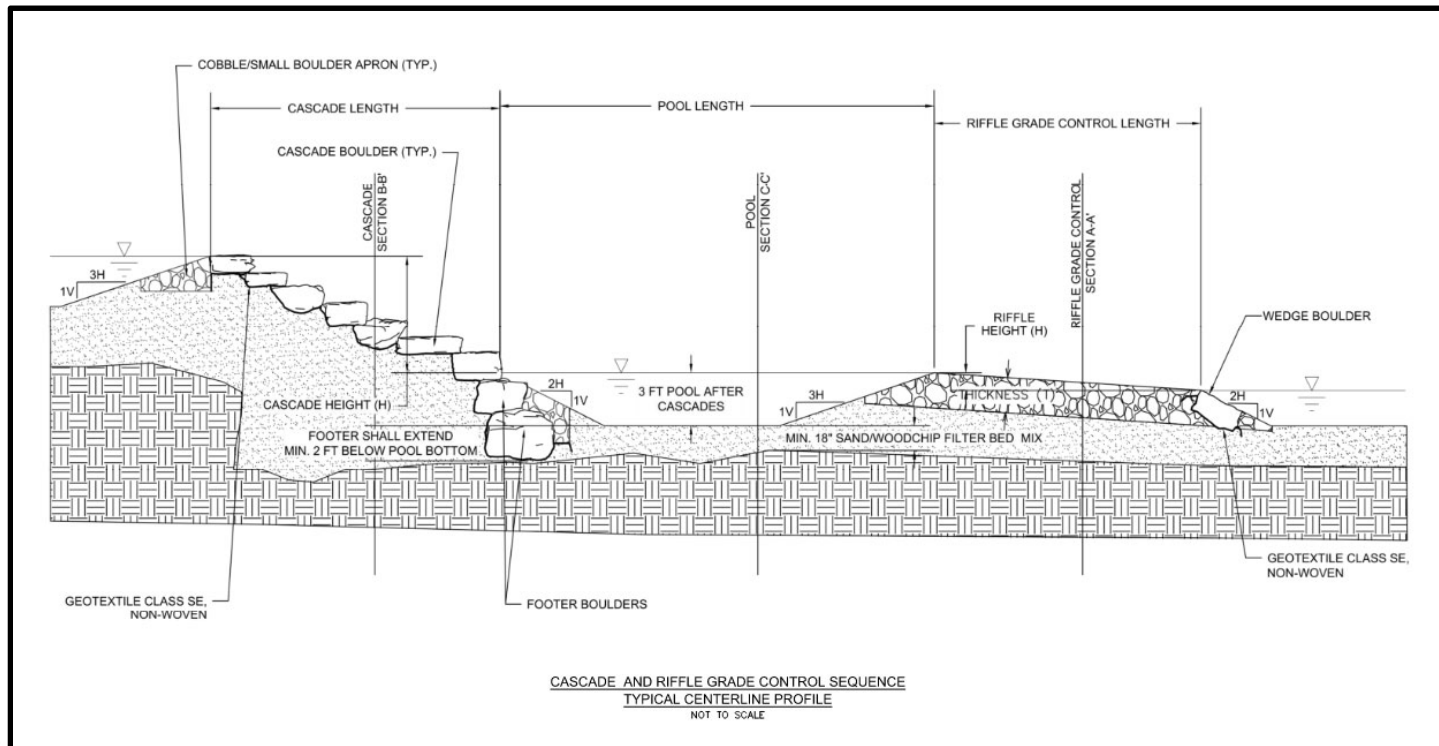


Design Plan



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Typical Profile



Similar Projects



Fairoaks SPSC



Southdown Shores Tidal Transition



Vegetated SPSC* During a Storm

* Step pool storm conveyance



Impacts During Construction



Trail from Parking Lot to Site

- Staging – Adjacent Parking Lot at Holly Pavilion
- Access Along Trail
- Temporary Closure of Portion of Trail
- Approx. 6-Week Duration



Next Steps

- Finalize Design and Permitting
 - County Grading Permit
 - MDE Tidal Wetland License
 - USACE Authorization
 - Critical Area Commission Concurrence
- On-Call Contractor
- Begin Construction
 - Winter 2023



Questions?

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 - Send questions and comments to:
<https://www.aacounty.org/departments/planning-and-zoning/development/community-meetings/past-meetings-comments/>
 - Use "Harness Creek Gully Repair P584605" in the search bar
 - Project team will provide written responses to all comments received on the OPZ website. Written responses will be included in the grading permit package





Bureau of Utility Operations

24-Hour Emergency
Water Service: (410) 222-8400
Billing Inquiries: (410) 222-1144



Bureau of Waste Management Services

Bulk Trash Service / Curbside Collections: (410) 222-6100



Bureau of Highways

General Inquiries: (410) 222-7321
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Bureau of Engineering

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Bureau of Watershed Protection and Restoration

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