SAFETY REGULATIONS
ALL CONSTRUCTION AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE MARYLAND OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS AS SET FORTH IN THE LATEST VERSION OF THE CODE OF MARYLAND REGULATIONS

CONSTRUCTION NOTIFICATION
The contractor/owner is to notify the
County Soil Conservation District at least 72 hours prior to construction to facilitate any scheduling, layout, and permitting that may be necessary to ensure proper construction inspection to enable appropriate certification of the project.

It is the Landowner's responsibility to obtain all County, State, and Federal permits that may be needed, and to maintain this structure and related regulations.

THERE WILL BE NO CHANGES IN SPECIFICATION, DIMENSIONS, OR MATERIALS UNLESS APPROVED BY THE ENGINEER RESPONSIBLE FOR THIS DRAWING. THE DRAWINGS ARE PREPARED COOPERATIVELY BY THE NATURAL RESOURCE CONSERVATION SERVICE FOR THE NAMED LANDOWNER.

CONSTRUCTION FOUND NOT IN ACCORDANCE WITH THESE DRAWINGS AND SPECIFICATIONS SHALL VIOLATE THE COOPERATIVE AGREEMENT BETWEEN THE NRCS AND THE LANDOWNER THAT THE DESIGNER/OWNER OR CONTRACTOR SHALL IMMEDIATELY BE RETURNED TO THE LOCAL NRCS OFFICE

LANDOWNER - SITE NAME
412 GRASSED WATERWAY

LOCATION MAP

REVISED 7/1/2021

OWNER/CONTRACTOR STATEMENT
I CERTIFY THAT THIS DESIGN HAS BEEN EXPLAINED TO ME BY A REPRESENTATIVE OF THE COUNTY SOIL CONSERVATION DISTRICT AND I UNDERSTAND THE CONTENTS. ALL CONSTRUCTION WILL BE DONE IN ACCORDANCE TO THESE PLANS AND SPECIFICATIONS. I FURTHER UNDERSTAND THAT ALL CONSTRUCTION WILL BE UNDER THE INSPECTION OF THE OFFICE.

GENERAL NOTES:
1. Location of proposed structure and all related objects are subject to final determination by the NRCS.
2. This map is intended to be used as a visual aid only. The map should not be used for surveying or real property boundary determination

RECOMMENDED SEEDING MIXES (USER TO CHOOSE ONE)

<table>
<thead>
<tr>
<th>Seed Mix</th>
<th>Tall Fescue</th>
<th>65%</th>
<th>Tall Fescue with Novel Endophyte</th>
<th>65%</th>
<th>Bluegrass</th>
<th>5%</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

USER TO ENTER SEEDING INFO

Maryland Conservation Planner Guide: Table 2.4 Mixes
Select tall fescue cultivars of Tall Fescue, Kentucky Bluegrass, and Perennial Ryegrass from the University of Maryland Extension, Turfgrass Technical Update 17:27, and the Virginia and Maryland National Turfgrass Evaluation Program (NTEP). The use of recommended cultivars usually results in a grass stand of higher quality and density, greater drought tolerance, lower nutrient requirements, and fewer pest problems. Cultivars developed for other regions of the country or for foreign may be used, but they may not perform as well as the recommended turf type is a critical area planting.

Tall Fescue: Where livestock may be allowed to graze (e.g., heavy use grass trampling problems), use tall fescue varieties that are endophyte-free or are novel endophyte-infected to avoid livestock health problems due to endophyte toxicity. Tall fescue has the adaptive advantage of being more resistant to drought, disease, and insects than endophyte-free varieties. Please note that endophyte levels are preferable because they tend to be more drought tolerant and have high endophyte levels, as does 'Kentucky 31' tall fescue (originally selected as a forage variety).

Certified varieties of endophyte-infected tall fescue may be used for stockpile grazing (e.g., winter grazing) when the risk of endophyte toxicity is much reduced.

Refer to University’s Conservation Planting Guide for additional seeding mixes and specifications for establishing plantings.
NOTE: A HOLE MUST BE DRILLED IN THE TOP OF THE PIPE TO ALLOW THE RODENT GUARD TO ATTACH AND LET THE TRASH PASS WITHOUT EXPOSING THE RODENT GUARD BEYOND THE PIPE.

PROFILE ALONG PROPOSED TILE

OUTLET DETAIL
NOT TO SCALE
USER TO CLICK ON BLOCK AND ENTER INFORMATION

ADAPTER DETAIL
NOT TO SCALE
USER TO CLICK ON BLOCK AND ENTER INFORMATION

CONSTRUCTION NOTES
Plan, design and construct spring developments in accordance with Federal, State and County laws and regulations. When collecting water for potable uses, meet the requirements of the state health department for materials and installation. Permits may be required for the installation of these systems. Contact the Permits Division of the local county government for regulations and permit requirements.
**PERFORMANCE EXPECTATIONS**

1. Remove topsoil prior to grading and stockpile outside limits of waterway construction.
2. Install excelsior type erosion control matting according to manufacturer's recommendations. Matting shall meet minimum shear stress of 1.75 lb/ft² and maximum velocities of 7 ft/s (see erosion control matting detail sheet for installation instructions).
3. Erosion control matting width shall be equal to the total width of the channel.
4. A minimum of 4" of topsoil shall be placed along the entire length and width of the constructed waterway.
5. Lime, fertilizer, and seed shall be placed in the waterway prior to installing erosion control matting (see seeding details).
6. Waterway shall be maintained as needed to minimize erosion throughout the required maintenance life of 10 years.

**TRIANGULAR GRASSED WATERWAY DETAIL**

- **TOP WALK**: 7 FT
- **Rock**: 6-10 TONS
- **Geotextile**: to be extended under existing ground a minimum of 12" and minimum 6" of soil placed over top.

**ROCK PLUNGE POOL DETAIL**

- **Depth of Pool**: 2 FT
- **Riprap**: 6" to 10" d50 = 9" (see table)
- **Geotextile**: to be extended under existing ground; MIN class "SE" (see table).

**DESIGN SPECIFICATIONS**

- **Length**: 200 FT
- **Top Width**: 20 FT
- **Bottom Width**: 10 FT
- **Depth**: 5 FT
- **Grade**: 1:1
- **Rock**: 6-10 TONS
- **Clearing**: AC
- **Geotextile**: to be extended under existing ground a minimum of 12" and minimum 6" of soil placed over top.
- **Erosion Control Matting**: to meet minimum shear stress of 1.75 lb/ft² and maximum velocities of 7 ft/s.