SAFETY REGULATIONS

All excavation and methods of construction shall be in accordance with the Maryland Occupational Safety and Health Administration (MOSHA) 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, or health and safety notifications 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 specifications, dimensions, or materials unless approved by the Engineer 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 void the cooperative agreement. Agreement to proceed without certification of a Conservation Technician shall immediately be returned to the local NRCS office.

GENERAL NOTES:

- Please contact the soil conservation district at least 3 days prior to construction to arrange a pre-construction meeting at phone #.
- A conservation technician shall set cut/grade stakes at the contractors request.
- A conservation technician must be present at the time of pipe installation, if required.

AS BUILT STATEMENT

The conservation practice(s) meets or exceeds NRCS standards and specifications.

Signed

Date

Construction Approval

Verified District Conservationist

Date

Conservation Contract Items

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 according to these plans and specifications. I further understand that all construction will be under the inspection of this office.

Date

Landowner - Site Name

412 Grasped Waterway

Revised 7/1/2021

Recommended Seeding Mixes (User to Choose One)

<table>
<thead>
<tr>
<th>Mix</th>
<th>Tall Fescue</th>
<th>perennial Ryegrass</th>
<th>white Top</th>
<th>red Top</th>
<th>Kentucky Bluegrass</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tall Fescue</td>
<td>60%</td>
<td>10%</td>
<td>5%</td>
<td>5%</td>
<td>15%</td>
</tr>
<tr>
<td>perennial Ryegrass</td>
<td>40%</td>
<td>8%</td>
<td>20%</td>
<td>20%</td>
<td>5%</td>
</tr>
<tr>
<td>white Top</td>
<td>8%</td>
<td>20%</td>
<td>20%</td>
<td>20%</td>
<td>5%</td>
</tr>
<tr>
<td>red Top</td>
<td>5%</td>
<td>5%</td>
<td>5%</td>
<td>5%</td>
<td>5%</td>
</tr>
</tbody>
</table>

User to enter seeding info

Maryland Conservation Practices: Table 2:3 Acres

Selected high successful of tall fescue, Kentucky bluegrass, and perennial ryegrass based on the selection of Maryland Wide Turfgrass Evaluation Program (WRTP). The use of recommended varieties usually results in a grass stand higher quality and density, greater drought tolerance, lower nutrient requirements, and fewer pest problems. Cultivars developed for other regions of the country or for forage may also be used, but may not perform as well as the recommended turf types in a critical area planting.

Tall Fescue: Where livestock may be allowed to graze (e.g., heavy use grass loafing areas), tall fescue varieties that are endophyte free or are inoculated with endophyte free or soil tolerant strains of endophyte are recommended. Tall fescue is not a winter annual and does not have the high levels of winter hardiness compared to other grasses. It is a cool season grass and is less tolerant of summer heat stress.

Kentucky Bluegrass: Where livestock may be allowed to graze (e.g., heavy use grass loafing areas), Kentucky bluegrass is a good choice because of its higher nutritive value and for its resistance to disease and insects. Kentucky bluegrass can be used in a rotational grazing system, but it is not as resistant to the endophyte as tall fescue.

Perennial Ryegrass: Where livestock may be allowed to graze (e.g., heavy use grass loafing areas), perennial ryegrass is an excellent choice because of its high levels of winter hardiness, and its resistance to disease and insects. It is a cool season grass and is less tolerant of summer heat stress.

User to insert sheet list table

User to enter practices

Owner/contractor statement

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Date

_User to enter practices_
**Design Specifications:**

- **Geotextile:** Continuously met in accordance with Section B-4 Vegetative Stabilization. Establish and maintain vegetation so that requirements for adequate vegetative establishment are met.

- **Parabolic Rock Outlet Detail:** Minimum, with the upstream mat overlapping on top of the next downstream mat. Overlap or abut the roll edges per manufacturer recommendations. Overlap roll ends by 6 inches or as required.

- **Top Width:** Minimum, with the upstream mat overlapping on top of the next downstream mat.

- **Depth:** Minimum, with the upstream mat overlapping on top of the next downstream mat.

- **Grade:** Minimum, with the upstream mat overlapping on top of the next downstream mat.

- **Riprap:** Minimum, with the upstream mat overlapping on top of the next downstream mat.

**Natural Resources Conservation Service**

- **Chute Anchor Detail:** (See detail)

- **Riprap Channel Outlet Detail:** (See detail)

**Profiles/Cross Sections**

- **Typical Cross Section:** (See detail)

**Beach Mark Descriptions**

- **TBM #1:** Elev = ???.?? Top at 1" X 2" wooden hub, marked by witness lath.

- **TBM #2:** Elev = ???.?? Top at 1" X 2" wooden hub, marked by witness lath near NW corner of building.

- **TBM #2:** Elev = ???.?? Top of 1" X 2" wooden hub, marked by witness lath.

**Plan Map**

- **Proposed Grassed Waterway:** (See detail)

**Erosion Control Matting**

- **Erosion Control Matting Application:** (See detail)

**Construction Notes**

- **Proposed Grassed Waterway:** (See obstruction)

**Riprap Channel Outlet Detail**

- **Riprap Channel Outlet Detail:** (See detail)
Existing grade to slope towards waterway

General Notes:
- Remove topsoil prior to grading and stockpile outside limits of waterway construction.
- 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).
- Erosion control matting width shall be total width of channel.
- A minimum of 4” of topsoil shall be placed along entire length and width of constructed waterway.
- Lime, fertilizer and seed shall be placed in waterway prior to installing erosion control matting (see seeding details).
- Waterway shall be maintained as needed to minimize erosion throughout the required maintenance life of 10 years.

Existing ground

Geotextile to be extended under existing ground a minimum of 12” and minimum 6” of soil placed over top.

TRAPEZOIDAL ROCK OUTLET DETAIL

TRAPEZOIDAL GRASSED WATERWAY DETAIL