Maryland Conservation Planting Guide Table 3.3 Notes

Select turf-type cultivars of Tall Fescue, Kentucky Bluegrass, and Perennial Ryegrass based on recommendations from the University of Maryland Extension, Turfgrass Technical Update TT-77, 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 forage may be also used, but they 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 paddocks), use tall fescue varieties that are endophyte-free or are novel endophyte-infected to avoid livestock health problems due to endophyte toxicity. Tall fescue with the novel endophyte is not toxic to livestock, and has the adaptive advantages of being more resistant to drought, disease, and insects than endophyte-free varieties. Please note that endophyte levels in plantings can vary between varieties, between fields of the same variety, and with the time of year.

For areas where livestock will not have access, tall fescue varieties with higher endophyte levels are preferable because they tend to be more drought tolerant and more resistant to disease and insect damage. Most turf-type tall fescue varieties 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 (i.e., winter grazing) when the risk of endophyte toxicity is much reduced. *Refer to Maryland Conservation Planting Guide for additional seeding mixes and specifications for establishing plantings.
To be used for a simple waterway over 2% slope with drain tile needed and when plotting the profile is not needed.

**USER TO CLICK ON BLOCK AND ENTER INFORMATION**

- Proposed grassed waterway
- Existing grade to slope towards waterway
- User to click on block and enter information

**TYPE OF CONSTRUCTION SPECIFICATIONS**

1. All materials and construction shall be in accordance with applicable Maryland standards and construction specifications.
2. Stressing shall conform to the requirements shown on the plans, i.e., stress-free from dirt, clay, sand, rocks, and other materials not meeting the required gradation, with a minimum of 8 inches of soil placed over top during ground preparation. Stress-free area shall be clear of trees and grass prior to the installation of the grid. When stress-free to a depth of 8 inches is required, it shall be a depth of approved reinforcement in foundation preparations as shown on the plans. Those areas, after stressing, or grid stabilization shall be laid until the foundation preparation is completed and the subgrade surface has been excavated and adopted.
3. The rock riprap shell shall be placed on the surface and the depth specified, i.e., stress-free to a depth of 8 inches from dirt, clay, sand, rocks, and other materials not meeting the required gradation, with a minimum of 8 inches of soil placed over top during ground preparation. Stress-free area shall be clear of trees and grass prior to the installation of the grid. When stress-free to a depth of 8 inches is required, it shall be a depth of approved reinforcement in foundation preparations as shown on the plans. Those areas, after stressing, or grid stabilization shall be laid until the foundation preparation is completed and the subgrade surface has been excavated and adopted.

**GRASSED WATERWAY DETAIL**

- Note: Geotextile to meet the following specifications:
  - Natural Resources Conservation Service (NRCS) standards and construction specifications.
  - All materials and construction shall be in accordance with applicable Maryland standards and construction specifications.
  - Stressing shall conform to the requirements shown on the plans, i.e., stress-free from dirt, clay, sand, rocks, and other materials not meeting the required gradation, with a minimum of 8 inches of soil placed over top during ground preparation. Stress-free area shall be clear of trees and grass prior to the installation of the grid. When stress-free to a depth of 8 inches is required, it shall be a depth of approved reinforcement in foundation preparations as shown on the plans. Those areas, after stressing, or grid stabilization shall be laid until the foundation preparation is completed and the subgrade surface has been excavated and adopted.
  - Key in geotextile to meet the following
    - Natural Resources Conservation Service (NRCS) standards and construction specifications.
    - All materials and construction shall be in accordance with applicable Maryland standards and construction specifications.
    - Stressing shall conform to the requirements shown on the plans, i.e., stress-free from dirt, clay, sand, rocks, and other materials not meeting the required gradation, with a minimum of 8 inches of soil placed over top during ground preparation. Stress-free area shall be clear of trees and grass prior to the installation of the grid. When stress-free to a depth of 8 inches is required, it shall be a depth of approved reinforcement in foundation preparations as shown on the plans. Those areas, after stressing, or grid stabilization shall be laid until the foundation preparation is completed and the subgrade surface has been excavated and adopted.

**TYPICAL CROSS SECTION**

- Not to scale
- Existing grade to slope towards waterway
- Geotextile to be extended under existing ground a minimum of 12" and maximum of 6' of soil placed over top

**PLAN VIEW**

- Top of "X" wooden hub, marked by witness nail
- Top of "X" wooden hub, marked by witness nail, near NW corner of building
- Top of hub in NW corner of concrete

**BENCH MARK DESCRIPTIONS**

- Top of "X" wooden hub, marked by witness nail
- Not to scale

**TILE DRAIN DETAIL**

- Existing grade to slope towards waterway
- Geotextile to be extended under existing ground a minimum of 12" and maximum of 6' of soil placed over top

**CONSTRUCTION NOTES**

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**DESIGNATED ON APPROVED PLANS.**

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**USE MATERIALS THAT HAVE BEEN VALUED FOR SHEAR STRESS EQUAL TO OR HIGHER THAN THE SHEAR STRESS DESIGNATED ON APPROVED PLANS.**

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**OVERLAP OR ABUT EDGES (TYP.)**

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