
Seeding, Fertilizing, and Mulching

Design Manual
Chapter 10
Roadside Development
and Erosion Control

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Consult Roadside Development for assistance in determining the need for and the rates and quantities of seeding, fertilizing, and mulching. Roadside Development will provide a letter that lists the required bid items and the notes to be included in Tabulation [100-4A](#). Quantity is typically estimated by determining the area disturbed from edge of shoulder to 8 feet past the need line.

If the seeding, fertilizing, and mulching items contain less than 1 acre, they will typically be noted as incidental to construction and no bid item for these units will be required in the plan. When this is the case, one or more of the following standard notes is included in the plans:

- Standard Note [232-3A](#) (Rural Seeding).
- Standard Note [232-3B](#) (Urban Seeding).
- Standard Note [232-3C](#) (Native Grass Seeding).
- Standard Note [232-7](#) (Salvage and Removal Projects).
- Standard Note [232-11](#) (Stabilizing Crop Seeding).

See Section [1E-9](#) for more information regarding these standard notes.

When seeding is a bid item, seed mixtures should not be included in the Estimate Reference Information unless the mixture is different than the mixture provided in Section [2601](#) of the Standard Specifications.

When projects require Wetland Seeding, the Location and Environment Bureau will assist with presenting the areas in the plans. Designers will calculate the areas.

Permanent erosion control of ditches may require Special Ditch Control, Turf Reinforced Mat (TRM), or rock. Refer to the Permanent Erosion Control Matrix in the [Designer Info](#) for Standard Road Plan [EC-104](#) to determine the type of material appropriate for different ditch grades and lengths.

Chronology of Changes to Design Manual Section:

010B-001 Seeding, Fertilizing, and Mulching

7/27/2021	Revised Added guidance for permanent erosion control in ditches.
6/25/2019	Revised Updated hyperlinks. Updated header logo and text.
5/15/2014	Revised Changed "10 feet" dimensions to "8 feet" (mowers are 8 feet wide) and added reference to Section 2601 of the Standard Specifications for seed mixtures. Added information that when Wetland Seeding is required, OLE will assist designers with presenting the information in the plans. Moved some of the information associated with the standard notes to Section 1E-9.
5/8/2013	Revised Effective with October 2012 revision, Standard Note 232-3C can be used on projects with or without a 404 permit.
2/10/2012	Revised Updated information.
9/1/1995	NEW New material.