

GUIDELINES — FOR PROJECTS REQUIRING EARTHWORK OR LAND DISTURBANCE ACTIVITIES.

SS30306-0914

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VIRGINIA DEPARTMENT OF TRANSPORTATION
2007 ROAD AND BRIDGE SUPPLEMENTAL SPECIFICATIONS**SUPPLEMENTAL SECTION 303—EARTHWORK****SECTION 303—EARTHWORK** of the Specifications is amended as follows:**Section 303.02—Materials** is amended to add the following:

- (e) **Seed** shall conform to Section 244.02(c) of the Specifications.

Section 303.03—Erosion and Siltation Control is amended to replace the title with **Erosion and Siltation Control and Stormwater Pollution Prevention**.**Section 303.03—Erosion and Siltation Control** is amended to replace the first three paragraphs with the following:

Erosion, siltation and stormwater pollution shall be controlled through the use of the devices and methods specified herein, identified in other contract documents or as is otherwise necessary. The Engineer reserves the right to require other temporary measures not specifically described herein or in other contract documents to correct an erosion, siltation or pollution condition.

Erosion and sediment control and pollution prevention devices and measures shall be maintained in a functional condition at all times. Temporary and permanent erosion and sediment control and pollution prevention measures shall be inspected and deficiencies corrected in accordance with the requirements of Section 107.16(e) of the Specifications. In addition, the Contractor shall make a daily review of the location of silt fences, filter barriers and other perimeter controls to ensure that they are properly located for maximum effectiveness. Where deficiencies are found, corrections shall be made in accordance with the requirements of Section 107.16(e) of the Specifications or as directed by the Engineer.

When erosion and sediment control devices function by using wet storage, sediments shall be removed when the wet storage volume has been reduced by 50 percent. Sediments shall be removed from dewatering basins when the excavated volume has been reduced by 50 percent. Sediments shall be removed from all other erosion and sediment control devices when capacity, height, or depth has been reduced by 50 percent. Removed sediment shall be disposed of in accordance with the requirements of Section 106.04 of the Specifications. Sediment deposits remaining in place after the device is no longer required shall be removed or dressed to conform to the existing grade. The site shall be prepared and seeded in accordance with the requirements of Section 603 of the Specifications.

Section 303.03(b) Soil Stabilization is replaced with the following:

- (b) **Soil Stabilization:** Soil stabilization shall be initiated on any portion of the project where clearing, grading, excavation or other land disturbing activities have permanently ceased or where land disturbing activities have been temporarily suspended for an anticipated duration of greater than 14 days, or upon completion of grading operation for a specific area. Soil stabilization shall begin as soon as practicable but no later than the next business day (Monday through Friday excluding State holidays) following the day when land disturbing activities temporarily or permanently cease. Initiation of stabilization activities includes, but is

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not limited to 1) prepping the soil for vegetative or non-vegetative stabilization, 2) applying mulch or other non-vegetative product to exposed soil, 3) seeding or planting the exposed area 4) starting any of the above activities on a portion of the area to be stabilized but not on the entire area or 5) finalizing arrangements to have the stabilization product fully installed within the time frame for completing stabilization. Temporary or permanent soil stabilization shall be completed within 7 days after initiation. Areas excluded from this requirement include areas within 100 feet of the limits of ordinary high water or a delineated wetland which shall be continuously prosecuted until completed and stabilized immediately upon completion of the work in each impacted area. Soil stabilization includes: temporary and permanent seeding, riprap, aggregate, sod, mulching, and soil stabilization blankets and matting in conjunction with seeding. The applicable type of soil stabilization shall depend upon the location of areas requiring stabilization, time of year (season), weather conditions and stage of construction operations.

Cut and fill slopes shall be shaped and topsoiled where specified. Seed and mulch shall be applied in accordance with the requirements of Section 603 of the Specifications as the work progresses in the following sequence:

1. Slopes whose vertical height is 20 feet or greater shall be seeded in three equal increments of height. Slopes whose vertical height is more than 75 feet shall be seeded in 25-foot increments.
2. Slopes whose vertical height is less than 20 but more than 5 feet shall be seeded in two equal increments.
3. Slopes whose vertical height is 5 feet or less may be seeded in one operation.

Areas that cannot be seeded because of seasonal or adverse weather conditions shall be mulched to provide some protection against erosion to the soil surface. Mulch shall be applied in accordance with the requirements of Section 603.03(e) of the Specifications and paid for in accordance with the requirements of Section 603.04 of the Specifications. Organic mulch shall be used, and the area then seeded as soon as weather or seasonal conditions permit in accordance with the requirements of Section 603.03 of the Specifications. Organic mulch includes: straw or hay, fiber mulch, wood cellulose, or wood chips conforming to the requirements of Section 244.02(g) of the Specifications.

Section 303.03(f) Sediment Traps and Sediment Basins is replaced with the following:

- (f) **Sediment Traps and Sediment Basins:** Once a sediment trap or basin is constructed, the earthen embankment and all outfall areas shall be stabilized immediately.

Section 303.03—Erosion and Siltation Control is amended to add the following:

- (h) **Temporary Diversion Dike:** This work shall consist of constructing temporary diversion dikes at the locations designated on the plans and in accordance with the plan details and the Specifications, stabilizing with seed and mulch, maintaining, removing when no longer required, and restoration of the area.

Temporary diversion dikes shall be installed as a first step in land-disturbing activities and shall be functional prior to downslope land disturbance. The dike shall be constructed to prevent failure in accordance with Section 303.04 of the Specifications. Seeding and mulch shall be applied to the dike in accordance with Section 603 of the Specifications immediately following its construction. The dikes should be located to minimize damages by construction operations and traffic.

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The Contractor shall inspect the temporary diversion dikes after every storm and repairs made to the dike, flow channel, outlet, or sediment trapping facility, as necessary. Once every two weeks, whether a storm event has occurred or not, the measure shall be inspected and repairs made if needed. Damages to the dikes caused by construction traffic or other activity must be repaired before the end of the working day.

Section 303.04(a)—Regular Excavation is amended to replace the last paragraph with the following:

Stripping topsoil shall be confined to the area over which grading is to be actively prosecuted within 14 calendar days following the stripping operation. Grading operations shall be confined to the minimum area necessary to accommodate the Contractor's equipment and work force engaged in the earth moving work.

Section 303.06(e)—Erosion Control Items is amended to replace "4. **Check dams**" with the following:

4. **Check dams** will be paid for at the contract unit price per each. This price shall include furnishing, excavating, constructing, maintaining, repositioning as may be required during construction and removing the check dams if, or when, no longer required.

Synthetic check dams may be substituted for Type II Rock Check dams (Standard EC-4) at no additional cost to the Department.

Section 303.06(e)—Erosion Control Items is amended to replace "6. **Geotextile fabric**" with the following:

6. **Geotextile fabric** attached to brush barriers or existing fence or used for another function specified on the plans will be measured in square yards, complete-in-place, excluding laps, and will be paid for at the contract unit price per square yard. This price shall include trimming the brush barrier; furnishing, installing, maintaining, and removing the fabric; and dressing and stabilizing the area.

The brush barrier will not be measured for separate payment. The cost thereof shall be included in the price for clearing and grubbing.

Section 303.06(e)—Erosion Control Items is amended to replace "15. **Drop Inlet Silt Trap**" and its corresponding Pay Item and Pay Unit with the following:

15. Inlet protection:

- a. **Inlet Protection Type A** will be measured in units of each and will be paid for at the contract unit price per each location shown or specified. The price shall include furnishing and installing temporary filter barrier including posts and top rails, coarse aggregate and, if required, sediment forebay. This price shall also include maintenance and removal until no longer required. Inlet Protection Type A will be paid for only one time during the duration of the project.
- b. **Inlet Protection Type B** will be measured in units of each and will be paid for at the contract unit price per each location shown or specified. The price shall include furnishing and installing hardware mesh cloth, concrete blocks, wooden studs, coarse aggregate, and maintenance and removal until no longer required. Inlet Protection Type B will be paid for only one time during the duration of the project.

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- c. **Inlet Protection Type C** will be measured and paid for in accordance with the individual pay items and pay units shown in the Standard Drawing for EC-6, Type C. The individual pay items for Inlet Protection Type C will be paid for only one time during the duration of the project for each location shown or specified

Payment will be made under:

Pay Item	Pay Unit
Inlet protection Type A	Each
Inlet protection Type B	Each

Section 303.06(e)—Erosion Control Items is amended to add the following:

- 18. **Temporary diversion dike** will be measured in linear feet, complete-in-place, and will be paid for at the contract unit price per linear foot. This price shall be full compensation for installing the diversion dike, stabilizing with seed and mulch, maintaining, removing when no longer required, and restoration of the area.

Payment will be made under:

Pay Item	Pay Unit
Temporary diversion dike	Linear foot

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