SP00280 (2018 Specifications: 07-01-20) *(This Section requires SP02510*

*when reinforcement is required.*

*Requires SP02410 when Temporary*

*Slope drains are required. Requires*

*SP03020 when compost material*

*Is required.)*

(This Section is not required for projects classed as “No Risk” per Advisory GE12‑01(A), i.e., projects with no ground disturbance. It is required for projects classed as “Low Risk” and “High Risk” per Advisory GE12‑01(A)).

# SECTION 00280 - EROSION AND SEDIMENT CONTROL

(Follow all instructions. If there are no instructions above a subsection, paragraph, sentence, or bullet, then include it in the project. The specifications may be modified to include project specific specifications, but all additions, deletions, or modifications must be sent to the ODOT Technical Resource and State Specifications Engineer for review and approval.)

Comply with Section 00280 of the Standard Specifications modified as follows:

(Use the following subsection .00 on ODOT projects that involve one acre of ground disturbance or more.)

**00280.00  Scope** - Add the following paragraph to the end of this subsection:

(Use one of the following two options as instructed. Delete the option that does not apply. Check with the Local Agency Liaison, the Erosion Control Program Leader, or the Region Environmental Coordinator.)

[ Option 1 - Use the following paragraph when ODOT's NPDES 1200‑CA Permit is applicable to the project. ]

The Agency's NPDES 1200‑CA Permit is applicable to the Project.

[ Option 2 - Use the following paragraph when ODOT's NPDES 1200‑CA Permit is NOT applicable to the project and the Contractor is required to use the Local Agency's NPDES 1200 CA Permit or obtain an NPDES 1200‑C Permit. ]

The Agency's NPDES 1200‑CA Permit is not applicable to the Project. Before beginning Work on the Project, obtain an NPDES 1200‑CA Permit from the applicable local jurisdiction or an NPDES 1200‑C Permit that is applicable to the Project.

**00280.04  Erosion and Sediment Control Plan on Agency Controlled Lands** ‑ Replace the paragraph that begins "For Work on Agency Controlled Lands…" with the following paragraph:

For Work on Agency Controlled Lands use either the Agency's ESCP, a Contractor modified version of the Agency's ESCP, or a Contractor developed ESCP. Submit the following for approval at least 10 Calendar Days before the preconstruction conference:

(Use the following subsection .06 for “Low Risk” projects.)

**00280.06  Erosion and Sediment Control Manager** - Delete this subsection.

(Use the following subsection .14(e) when slope and channel liner matting, types F, G or H are required. Modify as needed.)

**00280.14(e)  Slope and Channel Liner Matting** – Add the following sentence to the end of the paragraph that begins “Where shown, furnish rolled slope…”:

Channel liner mattings, types F, G and H may be installed as permanent features and are not required to be fully biodegradable.

(Use the following subsection .14(f) when compost erosion blanket is required.)

**00280.14(f)  Compost Erosion Blanket** - Replace the paragraph that begins "Furnish commercially manufactured…" with the following paragraph:

Furnish commercially manufactured medium compost material meeting the requirements of Section 03020. Add tackifier meeting the requirements of 01030.16.

(Use the following lead-in and subsection .14(g) when straw bales are included in the Schedule of Items.)

Add the following subsection:

**00280.14(g)  Straw Bales** - Furnish rectangular straw bales weighing between 80 and 100 pounds, meeting the requirements of 01030.15(b).

**00280.15(a)  Check Dams** -  Replace the bullet that begins “**Type 2: Fiber Rolls** - Fiber rolls or wattles…” with the following bullet:

* **Type 2: Fiber Rolls** - Fiber rolls or wattles that are pre-manufactured, filled with plant based, naturally occurring fiber (e.g.: straw, wood, excelsior, hemp or coconut fiber) that contains no weed seeds and that is not moldy, caked, decayed or of otherwise low quality. When straw is used, furnish straw meeting the requirements of 01030.15(b). Furnish fiber roll that is fully biodegradable with enclosing netting derived from natural fibers (e.g.: jute, sisal, hemp or coir fiber). Furnish rolls with a minimum density of 2.75 pounds per cubic foot and constructed to hold its shape to provide a diameter of between 8 and 10 inches.

(Use the following subsection .15(f)(1) when compost filter socks are required. Fill in the blank with the diameter of the filter sock. Obtain information form the Erosion Control Designer.)

**00280.15(f)(1)  Filter Sock Material** - Add the following sentence to the end of this subsection:

Furnish filter sock material with a diameter of \_\_\_\_ inches.

(Use the following subsection .16(d) when Type 3 inlet protection is required.)

**00280.16(d)  Inlet Protection** – Replace the bullet that begins “**Type 3:  Prefabricated Filter Inserts** …” with the following bullet:

* **Type 3:  Prefabricated Filter Inserts** - Prefabricated filter inserts manufactured specifically for collecting sediment in drainage inlets and from the QPL. Include handles and fasteners sufficient to keep the insert from falling into the inlet during maintenance and removal of the insert from the inlet.

(Use the following bullets when Type 10 inlet protection is required.)

Add the following bullet to the end of the bullet list:

**Type 10:  Curb Inlet Sediment Dam** ‑ Provide one (or more) of the following curb inlet sediment barrier from products, or as approved:

Ertec ‑ Curb Inlet Protection

ACF ‑ Econo Curb

GEI Works ‑ Taurus Curb Inlet Filter

GEI Works ‑ Ultra-Curb Inlet Guard

Ultratech ‑ Ultra-Curb Guard Plus

(Use the following subsection .16(e) when Type 7 sediment barriers are required.)

**00280.16(e)  Sediment Barriers** – Replace the bullet that begins “**Type 7:  Prefabricated Barrier System** …” with the following bullet:

* **Type 7:  Prefabricated Barrier System -**Prefabricated barriers manufactured specifically for temporarily obstructing the flow of sediment-laden water and from the QPL.

(Use the following subsection .16(i) when a concrete washout(s) is required.)

**00280.16(i)  Concrete Washout** - Delete the bullet that begins “**Geotextile** - Type 2 drainage…”.

(Use the following lead-in paragraph and subsection .16(k) when flocculant is required.)

Add the following subsection:

**00280.16(k)  Flocculant** - Furnish chitosan flocculant material in gel or powdered form packaged in a pervious sleeve.

(Use the following subsection .44(f) when compost erosion blanket is required.)

**00280.44(f)  Compost Erosion Blanket** - Replace this subsection, except for the subsection number and title, with the following:

Blend tackifier with compost according to the manufacturer’s recommendations. Apply compost and tackifier with equipment that propels the material directly at the soil surface and achieves direct contact with the soil. Apply compost at a uniform depth of 2 inches to all exposed soil surfaces.

(Use the following lead-in and subsection .44(g) when straw bales are included in the Schedule of Items.)

Add the following subsection:

**00280.44(g)  Straw Bales** - Break straw bales apart and spread as mulch to a thickness of 2 inches. Tack in place according to 01030.48(b)(3).

Do not use straw bales for any other application unless approved.

(Use the following subsection .46(d) when Type 10 inlet protection is required.)

**00280.46(d)  Inlet Protection** – Add the following sentence to the end of the paragraph:

Install inlet protection, Type 10 ‑ curb inlet sediment dam according to manufacturer’s recommendations.

(Use the following subsection .48 on projects that require emergency materials. Obtain information from the Erosion Control Designer. Include in the Schedule of Items all emergency items listed in this subsection. The listed items do not need to be shown on the plans if they are for emergency use only and are not otherwise part of the Agency’s ESCP.)

**00280.48  Emergency Materials** - Add the following paragraphs after the paragraph that begins "Provide, stockpile, and protect...":

Provide and stockpile the following emergency materials on the Project site:

**Item Quantity**

(Use the following subsection .62 for “Low Risk” projects.)

**00280.62  Inspection and Monitoring** - Replace this subsection, except for the subsection number and title, with the following:

Inspect the Project Site and all ESC devices for potential erosion or sediment movement on a weekly basis and when 1/2 inch or more of rainfall occurs within a 24-hour period, including weekends and holidays.

If a significant noncompliance or serious water quality issue occurs that could endanger health or the environment, verbally report it to the Engineer within 24 hours.

(Use the following subsection .90 when straw bales are included in the Schedule of Items and listed as an emergency material in 00280.48, or for “Low Risk” projects when “Erosion Control” is the only pay item used.)

**00280.90  Payment** -

(Use the following paragraph and pay item when straw bales are included in the Schedule of Items and listed as an emergency material in 00280.48.)

Add the following pay item to the pay item list:

(v) Straw Bale Each

(Use the following three paragraphs for “Low Risk” projects when “Erosion Control” is the only pay item used.)

In the paragraph that begins "Item (a) includes...” delete the bullet that specifies "providing the Erosion and Sediment Control Manager".

Replace the paragraph that begins "When only Item (a) is..." with the following paragraph:

When only item (a) is listed in the Contract Schedule of Items, additional ESC devices required for permit compliance will be paid for as Extra Work according to Section 00196.