Construction

Learning Objectives

- Understand ODOT Specifications and 1200-CA Permit
- Implement Erosion and Sediment Control Plan (ESCP) to comply with Standard Specifications, 1200-CA Permit and Contract requirements
- Identify Best Management Practices (BMPs)
- Recognize when BMPs are not being effective and upgrade and document changes in ESCP to comply with contract requirements
ESCM Certification Program

Question 1

Q: Who is required to be certified as an Erosion and Sediment Control Manager?

A: Labor

00280.30 Erosion and Sediment Control Manager: If the Agency’s NPDES 1200-CA Permit is applicable to the Project, designate a person who possesses a valid ODOT ESCM certificate or who has successfully completed an erosion control training that is acceptable to the Engineer.

Provide the ESCM name, qualifying certifications, and 24-hour contact phone number 10 days before the preconstruction conference. If changes in the appointment of the ESCM occur during the term of the Contract, provide written notice to the Engineer within 5 Calendar Days.

If the Agency’s NPDES 1200 CA-Permit is not applicable to the Project, comply with all requirements of the applicable permits.

ESCM Certification Program

Question 2

Q: 00280.30 - What does “……or who has successfully completed an erosion control training that is acceptable to the Engineer” mean?

A: ODOT will accept a person certified in an erosion and sediment control program that has been approved by DEQ. Found on page 12 of the DEQ 1200-C Permit.
ESCM Certification Program  
Question 2 continued

Q: 00280.30 - What does “……or who has successfully completed an erosion control training that is acceptable to the Engineer” mean?

A: DEQ has approved the following programs per their 1200-C Permit:

(a) Certified Professional in Erosion and Sediment Control,
(b) Certified Professional in Storm Water Quality,
(c) Washington State Certified Erosion and Sediment Control Lead, or
(d) Rogue Valley Sewer Services Erosion and Sediment Control Certification.

ESCM Certification Program  
Question 3

Q: If ODOT will accept a Erosion and Sediment Control Inspector certification from one of the four DEQ approved programs through the 1200-C permit, will an ODOT ESCM certification cover a municipality project that is under a 1200-C permit.

A: No. The ODOT ESCM certification is only valid for the Agency’s NPDES 1200-CA Permitted Projects.
Standard Specifications

- 00100.00’s
  - Order of Precedence and before
    On-site Work can begin
- 00280.00’s
  - Erosion Control
- 290.00’s
  - Environmental Protection
- 01030.00’s
  - Seeding

Standard Specifications – 100.00’s
00150.10(a) – Order of Precedence

- Contract Change Orders
- Special Provisions
- Project Plans
- Reviewed Stamped Working Drawings
- 3D Engineered Models
- Standard Drawings
- Approved Unstamped Working Drawings
- Supplemental Specifications
- Standard Specifications
- All other contract documents not listed above.
Standard Specifications – 100.00’s

00180.40 Limitation of Operations:
(b) On-Site work:
The contractor shall not begin On-Site work until the Contractor has:

- Received a notice to Proceed
- An accepted Project Work schedule
- An approved Erosion and Sediment Control Plan
- An approved Pollution Control Plan
- Met with the Agency at the required preconstruction conference

Standard Specifications – 280.00’s
ESCP on Agency controlled lands

00280.04 Erosion and Sediment Control Plan on Agency Controlled Lands - 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 10 Calendar Days before the preconstruction conference:

- When using the Agency’s ESCP without modification, a written notification indicating the Agency’s ESCP will be used without modification.
- When using a Contractor modified version of the Agency’s ESCP or when using a Contractor developed ESCP, include the following:
  - Proposed ESCP showing all ESC Work and quantities of all Work.
  - Implementation schedules for the ESCP based on each phase of the Contractor’s Work.

Do not begin any site activities that have potential to cause erosion or sediment movement until the ESCP and implementation schedules are approved by the Engineer.

Keep a copy of the approved ESCP with updated changes on-site during all construction activities. If there are approved changes, add them to the ESCP no later than 24 hours after implementation.

During inactive periods longer than 7 Calendar Days, keep the ESCP on-site or provide a copy to the Engineer to retain.
Standard Specifications – 280.00’s
ESCP on Non-Agency controlled lands

00280.05 Erosion and Sediment Control Plan on Non-Agency Controlled Lands - For Work on non-Agency controlled lands, in addition to the requirements of 00280.04, submit the following for review 10 days before the preconstruction conference:

Standard Specifications – 280.00’s
Scope

00280.06 Erosion and Sediment Control Manager - Designate and provide a representative as the Erosion and Sediment Control Manager (ESCM) who meets the qualifications of 00280.30.

Standard Specifications – 290.00’s
Turbidity

00290.30 Pollution Control - Prevent, control, and abate pollution of the environment. Comply with new or amended environmental pollution Laws, not contemplated at the time of Bid preparation, according to 00140.50 and ORS 279C.525.

(a) Pollution Control Measures - Comply with the following requirements:

(1) General:

- Allow no pollutant of any kind (e.g., petroleum products or fresh “green” concrete) to come in contact with an active flowing stream or waters of the State and U.S.
- Comply with the erosion prevention and sediment control requirements of Section 00280 and all applicable DEQ NPDES 1200 Permit requirements.
- Do not cause turbidity to waters of the State and U.S. outside of regulated levels.
Standard Specifications – 290.00’s
Pollution Control Plan

00290.30

(b) Pollution Control Plan. - Develop and submit a PCP to prevent pollution related to Contractor operations for approval 10 Calendar Days before the preconstruction conference. Maintain a copy of the PCP on-site at all times during construction activities, readily available to employees and inspectors. Ensure that all employees comply with the provisions of the PCP.

Standard Specifications – 1030.13
Seeding

(g) Availability. - Provide a list of seed sources for all specified seeds within 60 Calendar Days after execution of the Contract. Verify that all specified seed has been located and will be available for use on the Project.

(e) Mixes. - Furnish seed mixes that meet the labeling, quality and inspection requirements stated above. Submit all other proposed seed or seed mixes for consideration and receive written approval before seeding Work begins. Replace rejected seed before planting.

(f) Types of Seed Mixes. - Seed mixes, quantities, standards, seeding rates, and other information will be included in the Special Provisions for each type of seed mix.
Standard Specification 01030.13(f)...

(1) Types of Seed Mixes: Seed mixes, quantities, standards, seeding rates, and other information will be included in the Special Provisions for each type of seed mix.

...tying into the Special Provisions

01030.13(f) Types of Seed Mixes - Add the following to the end of this subsection:

Provide the following seed mix formulas:

- Permanent Seeding:

<table>
<thead>
<tr>
<th>Botanical Name (Common Name)</th>
<th>PLS (lb/acre)</th>
<th>(% Purity x % Germination)</th>
<th>Amount (lb/acre)</th>
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<td>Lolium perenne (Perennial Ryegrass)</td>
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<td>Festuca rubra (Creeping Red Fescue)</td>
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</table>

Special Provisions

Check for language that replaces, adds, and/or eliminates Standard Specification language.

The Agency's NPDES 1200-CA Permit applying to this project is an example of added language:

SECTION 00280 - EROSION AND SEDIMENT CONTROL

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

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

The Agency's NPDES 1200-CA Permit is applicable to the Project.
Special Provisions (continued)

Example of replaced language:

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.
Project Specific Plans (continued)
Erosion and Sediment control plans

GENERAL NOTES:
The construction, adjustment, maintenance, and upgrading of these Erosion and Sediment Control measures is the responsibility of the contractor for the duration of the project to comply with Section 00250 of the Oregon Standard Specifications for Construction and the APESs, 1995-CA edition.

Erosion and Sediment Control measures shown on this site are for anticipated site conditions. Adjust or upgrade these measures for unexpected storm events to ensure that sediment and sediment-laden water does not leave the site.

Develop a revised plan of the Erosion and Sediment Control measures shown as required by Section 00250, Oregon Standard Specifications for Construction. Implement this plan for all of the construction activities and to segments identified in each sheet of plans. Construct at such a rate as to ensure that sediment and sediment-laden water does not enter the roadway or drainage system, or violate applicable water standards.

Install measures within the right-of-way unless directed otherwise.

There are wetlands and sensitive sites in close proximity to the edge of paved surface of the highway. Do not leave the paved surface of the highway unless specifically designated on the plan or directed.
Other Resources you will use during construction

QPL

OREGON DEPARTMENT OF TRANSPORTATION
CONSTRUCTION SECTION

QUALIFIED PRODUCTS LIST
PUBLISHING DATE: JANUARY 2018

This list is compiled and updated through the efforts of the Transportation Department's Construction Section. This list represents the qualified products as determined by the Oregon Department of Transportation. It is intended to assist contractors in selecting products that meet the specific requirements of the project.

QPL NTMAG

OREGON DEPARTMENT OF TRANSPORTATION
NONFIELD TESTED MATERIALS ACCEPTANCE GUIDE

Other Resources you will use during construction

QPL

OREGON DEPARTMENT OF TRANSPORTATION
QUALIFIED PRODUCTS LIST

The "QUALIFIED PRODUCTS LIST" (QPL) is a comprehensive list of all finished products which have been evaluated and/or used by the Oregon DOT.

The "QUALIFIED PRODUCTS LIST" is made up of two types of lists:

1. The QUALIFIED LIST - "Q" is for products that have been reviewed and found to be suitable for use in a specific category. Job control testing may still be necessary. Consult the ODOT Nonfield Tested Materials Acceptance Guide, the "ODOT Field Tested Materials Acceptance Guide", and the Project Specifications.

2. The APPROVED LIST - "A" is for commercially available products having a low consequence of failure. These products are only usable for appropriate applications. Any questions or issues should be directed to the Project Inspector.

The use of all products is restricted to the category in which they are listed. Products should be used and installed as the manufacturer recommends. The QPL does not distinguish between domestic and foreign steel. Use of this list by ODOT Maintenance Personnel as an information resource is encouraged not required.

Note: Any change to a product on the QPL, without prior approval, will be cause for rejection of the product.
### QPL (continued)

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<thead>
<tr>
<th>Category</th>
<th>SPEC #</th>
<th>Description</th>
<th>SPEC #</th>
<th>Remarks</th>
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<td>CONCRETE MODIFIER - Latex</td>
<td>00395.00</td>
<td>REMOVABLE AND REUSABLE</td>
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<td>00140.22</td>
<td>CONCRETE BOM - BINDER</td>
<td>00390.00</td>
<td>PAVEMENT REPAIR FOR HOT-MIX</td>
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<td>CONCRETE BOM - FLY ASH</td>
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<td>DRIP - BURMENAGE REINFORCEMENT</td>
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<td>MAKER ROAD</td>
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### Erosion Control

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<td>Type 2 – Bio Filter Bag</td>
<td>00280.15b</td>
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<td>Sediment Barrier, Temporary</td>
<td>Type 3 – Sand Bags</td>
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**Construction**

**December 2018**
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<td>P - Field Report</td>
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*This Guide does not have precedence over the Special Provisions, Contract Plans, or Standard Specifications.*
### NTMAG (continued)

#### Oregon Department of Transportation
**Road Field Materials Acceptance Guide**
**2008 Standard Specifications**

<table>
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<th>SECTION</th>
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**NTMAG (continued)**

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*Special Provisions, Contract Plans, and Standard Specifications take precedence over the information in this guide. Refer to your Contract for documentation requirements.*