

Oregon Department of Transportation

Standard Specifications

2002 Standard Specifications

- Out of print
- No plans to print additional copies
- Available from the Internet:
http://www.oregon.gov/ODOT/HWY/SPECS/2002_std_specs

2008 Standard Specifications

- Included as of 10/23/2008 for all new projects
- Divided into thirteen (13) separate parts and an index
- Each part includes a Table of Contents

Major Changes to Specifications

- ESCP requirements more stringent, provided in more detail
- Arranged by functionality (Erosion Control, Sediment Control, Runoff Control)
- Section entitled "Labor" added detailing duties of ESCM
- Lump sum payment definition altered

Helpful Hints

- You can move around in the specifications by using the six arrow icons in the Adobe tool bar
- You can search for key words or phrases by using the find icon in the tool bar

[http://www.oregon.gov/ODOT/HWY/SPECS/
standard_specifications.shtml](http://www.oregon.gov/ODOT/HWY/SPECS/standard_specifications.shtml)

Part - Description

- 00100 – General Requirements
(Beginning with the first January 2006 bid opening, this Section was replaced with the Supplemental Specifications – Part 00100)
- 00200 – Temporary Features and Appurtenances

Section 00280 - Erosion and Sediment Controls

Section 00280 Description

00280.00 Scope

- This work consists of installing, maintaining and removing temporary erosion and sediment control devices
- Typical work areas include medians, interchanges, cut and fill slopes, areas disturbed by Project construction, material sources and disposal sites

00280.00 Scope, continued

- The work described in these Specifications and shown on the plans is the Erosion and Sediment Control Plan (ESCP) and is the minimum requirement for wet weather conditions

00280.00 Scope, continued

- Coordinate all temporary erosion control features with all permanent erosion control features, if applicable, to the extent practicable to assure economical, effective and continuous erosion control throughout the construction and post-construction period

Section 00280, continued

00280.01 NPDES

The Agency's ESCPs are developed to comply with Federal, State, and local laws, rules and regulations at the NPDES General Construction Permit.

Section 00280, continued

00280.02 Agency Controlled Lands and Erosion and Sediment Control

Submit signed copies of the following for review and approval ten (10) days before the preconstruction conference:

- A Contractor developed ESCP that incorporates the Agency's ESCP and all proposed modifications to it
- Implementation schedules for the ESCP

Section 00280.02, continued

- For each phase of the scheduled work, indicate on the ESCP how the proposed erosion and sediment control devices will divert flows, store flows, limit runoff from exposed areas, stabilize exposed soil and filter sediment

Include in the implementation schedule:

- A list of emergency on-site stockpiled materials
- Clearing and grubbing perimeter controls
- Installing perimeter controls
- Construction phasing
- Grading related to the Project
- Temporary stabilizing exposed soil surfaces
- Final grading, landscaping and stabilization

Include in the implementation schedule:, continued

- Work on or at bridges and other watercourse structures
- Isolating work area from surface water during in-water work
- Installing and removing utilities
- Work required in wetlands
- Monitoring rainfall
- Inspecting controls

Include in the implementation schedule:, continued

- Installing, maintaining, monitoring and removing temporary controls
- Installing and maintaining permanent controls
- Disposing of waste materials
- Haul road and borrow pit controls
- Additional controls for wet season work and temporary work suspensions

Section 00280.02, continued

- The ESCP and the implementation schedules shall be prepared by an individual who is knowledgeable in erosion and sediment control
- Keep a copy of the approved ESCP on-site during all construction activities. During inactive periods longer than 7 calendar days, the ESCP may be on-site or retained by the Agency

Section 00280.02, continued

- Do not begin work until the ESCP and the implementation schedules are approved
- Update the ESCP and schedules as needed. Add approved changes to the ESCP ASAP after changes have been implemented but no later than 24 hours after implementation.

Section 00280, continued

00280.03 Non-Agency Controlled Lands and Erosion and Sediment Control

- Submittals same as Agency-controlled lands, i.e., signed copies of the following for review and approval ten (10) days before the preconstruction conference:
 - A Contractor developed ESCP that incorporates the Agency's ESCP and all proposed modifications to it
 - Implementation schedules for the ESCP

Also furnish the following:

- Signed, written letter from the property owner that allows the Contractor access to the property
- A statement that holds the Agency harmless for consequences related to the use of the property
- Signed agreement with the property owner detailing the Contractor's operation and use of the property
- Copies of permits or proof that permits are not required from all pertinent federal, State, county, city and local agencies

Section 00280, continued

00280.04 Erosion and Sediment Control Manager

- Designate and provide a representative experienced in all disciplines of highway construction as the Erosion and Sediment Control Manager (ESCM).
 - The ESCM is responsible for assuring the duties described in 00280.61 (ineffective controls) are done and has the authority to immediately mobilize personnel to correct and modify erosion prevention and sediment control devices as required.

Section 00280.04, continued

- Provide the ESCM's name and work phone number ten days before the preconstruction conference.
- Provide written changes in the appointment of this individual during the term of the Contract.

Materials

00280.14 – 00280.16

- .14 – Erosion; .15 – Runoff; .16 - Sediment
- Material descriptions ranging from Biofilter Bags to Chemical Soil Stabilization
- Contractor may submit a request for proposed alternate materials by following the requirements of 00140.70 (cost reduction)

Construction

00280.40 Installation

00280.41 Work Restrictions

00280.42 Stabilization

00280.42 (a) Soil Exposure Limitations

- Statewide (Entire Year) – Stabilize within seven days of exposure, all areas within 100 ft (30 m) of waterways, wetlands or other sensitive areas using methods that do not rely solely upon germination to control erosion

Construction, continued

00280.42 Stabilization, continued

00280.42 (a) Soil Exposure Limitations, continued

- West of the Cascades (Entire Year) – Stabilize all other areas within 14 days of exposure
- East of the Cascades (October 1 – April 30) – Stabilize all other areas within 14 days of exposure
- East of the Cascades (May 1 – September 30) – Stabilize slope and embankment construction in stages based on site conditions, weather and as determined by Agency

Construction, continued

00280.42 Stabilization, continued

00280.42 (b) Temporary Stabilization

00280.42 (c) Permanent Stabilization

00280.43 Area Preparation

00280.44 - .46 - BMPs

We will cover preparation, installation and application of BMPs in the Inspector's Course and in other sections of this course.

Construction, continued

00280.47 Work Quality

00280.48 Emergency Materials

- Stockpile materials on-site for unknown weather or erosion conditions

Maintenance

00280.60 General

00280.61 Ineffective Controls

00280.62 Inspection and Monitoring

00280.63 Sediment Removal

Finishing and Clean-up

00280.70 Removal

00280.71 Sediment Disposal

Measurement

00280.80 – Multiple methods for calculation

Lump Sum Basis

Unit Basis

Length Basis

Area Basis

Limitations

Payment

00280.90 General

– Pay Item – Unit of Measurement

Section 01000

Right of Way Development and Control

Section 01030 - Seeding

Description

01030.00 Scope

This work consists of seeding and associated tasks to develop plant growth for erosion control, environmental mitigation and roadside development

Section 01030, continued

01030.02 Definitions

- Certified Seed
- Establishment Period
- Native Plant (existing)
- Noxious Weeds
- Pure Live Seed (PLS)
- Weed

Materials

- 01030.11 Topsoil
- 01030.12 Soil Conditioners, Amendments and Bio-Amendments
- 01030.13 Seed
- 01030.14 Fertilizer
- 01030.15 Mulch
- 01030.16 Tackifier

Details on these BMPs will be covered in the Inspector's Course

Construction

- 01030.40 General
- 01030.41 Area Prep
- 01030.43 Temporary & Permanent Seeding
- 01030.43 Permanent and Other Seeding
 - West of the Cascades (March 1- May 15 & September 1 – October 31) – If new lawn areas are watered regularly, they can be seeded anytime between March 1 and November 15.

Construction, continued

01030.43 Permanent and Other Seeding, continued

- East of the Cascades (October 1 – February 1) – If new lawn areas are regularly watered they can be seeded anytime between March 1 and October 31.
- Wetland (East and West) (September 1 – October 31 & March 1- April 30)

Construction, continued

- 01030.44 Fertilizer
- 01030.45 Soil Testing
- 01030.46 Topsoil and Wetland Topsoil
- 01030.47 Soil Amendments and Bio-Amendments
- 1030.48 Application
- 1030.49 Work Quality

Maintenance

01030.60 General

01030.61 Establishment Period

01030.62 Establishment Work

Finishing and Clean-up

01030.70 Cleanup

01030.71 Waste Disposal

Measurement

01030.80 General
– Lump Sum, Unit, Area Basis

Payment

01030.90 General
– Pay Item – Unit of Measurement

Example:
Section 01030 - Seeding

SECTION 01030 - SEEDING

Comply with Section 01030 of the Standard Specifications supplemented and/or modified as follows:

01030.13(b) Quality - Furnish "Oregon Certified Seed" for all seed types in the mix listed with an asterisk (*). For all seed types not listed with an asterisk, furnish seed that meets the requirements of the Oregon Seed Law.

01030.13(f) Types of Seed Mixes - Provide the following seed mix formulas:

- **Permanent Seeding** - Provide permanent seed mix as follows:

Botanical Name (Common Name)	PLS (kg/ha)	÷ (% Purity (minimum)	x % Germination) (minimum)	= Amount (kg/ha)
*Festuca rubra (Creeping Red Fescue)	11	_____	_____	_____
*Festuca rubra commutata (Chewings Fescue)	11	_____	_____	_____
*Lolium perenne (Perennial Ryegrass)	17	_____	_____	_____
*Agrostis tenuis (Colonial Bentgrass)	3	_____	_____	_____
Trifolium repens 'Grassland Huia' (New Zealand White Clover)	2	_____	_____	_____

01030.15 Mulch - Furnish the following kind of mulch:

- Straw

01030.15(a) Hydromulch - Add the following to the end of the second paragraph:

Add green dye to the cellulose fiber to provide visual aid in application.

01030.15(c) Tracer - Replace this Subsection with the following:

(c) Tracer - Tracer is a hydromulch material applied with seed to provide a visual aid for uniform application.

01030.41 Temporary Seeding - Add the following:

This work includes permanent seeding and other seeding work when applied outside the seeding dates that are specified in 01030.42.

01030.48(a-1-a) Two-step operation - Replace the first bulleted item with the following:

- **Step 1** - Apply seed and fertilizer (separately or together). Include a hydromulch tracer, at a rate of 560 kg/ha (500 pounds per acre), with the seed.

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*Festuca rubra (Creeping Red Fescue)	11	<u>98.5</u>	<u>94.5</u>	<u>11.8</u>
*Festuca rubra commutata (Chewings Fescue)	11	<u>98.0</u>	<u>97.5</u>	<u>11.5</u>
*Lolium perenne (Perennial Ryegrass)	17	<u>97.0</u>	<u>98.5</u>	<u>17.8</u>
*Agrostis tenuis (Colonial Bentgrass)	3	<u>98.5</u>	<u>97.0</u>	<u>3.1</u>
Trifolium repens 'Grassland Huia' (New Zealand White Clover)	2	<u>96.5</u>	<u>95.5</u>	<u>2.2</u>

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