

## **Section 17 – Landscaping**

### **DESIGN REQUIREMENTS**

#### **Landscape Plan**

Not Applicable

#### ***Seeding***

All disturbed areas shall be re-vegetated to replicate or enhance native vegetative communities.

The seed mix shall be as follows:

Kind	% Mix
Slender Wheatgrass, White River	27.50
Mountain Brome, White River	27.50
Alpine Bluegrass	13.00
Rocky Mountain Fescue	20.00
Quickguard	10.00
Mountain Lupine	1.00
Rocky Mountain Penstemon	0.70
Western Yarrow	0.30

This seed mix has been approved by CDOT and the USFS for use on the project. Any substitutions must be submitted in advance of ordering for approval by Jen Klaetsch, CDOT Landscape Specialist, [Jennifer.klaetsch@state.co.us](mailto:Jennifer.klaetsch@state.co.us), 970-683-6223.

#### **Construction Requirements**

##### ***Landscape Plan***

Not Applicable

##### ***Clearing and Work Area Limits Identification and Protection***

The Contractor shall delineate the clearing and work limits in areas adjacent to existing wetlands, trees, and significant vegetation for Acceptance, in writing, by CDOT, see Section 11. Upon Acceptance, the Contractor shall install temporary orange fencing in these areas to identify the clearing boundary. Trees that are damaged shall be replaced in-kind at the Contractor's expense. Trees that are damaged and assessed as salvageable shall be promptly repaired, pruned, wrapped, and protected from further damage at the Contractor's expense. All replacement trees and shrubs shall be native species per the State of Colorado portion of FHWA's *The Roadside Use of Native Plants*, August 2000.

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Date: October 16, 2018

## **Technical Requirements**

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#### ***Protection Areas***

The Contractor shall install temporary fencing for the protection of all existing vegetation. Fencing shall be placed at twice the drip line for trees. The Contractor shall use all appropriate care to avoid damage or removal of trees, see Section 11. Trees that are damaged shall be replaced in-kind at the Contractor's expense. Trees that are damaged and assessed as salvageable shall be promptly repaired, pruned, wrapped, and protected from further damage at the Contractor's expense.

Construction activities, such as earth disturbance, storage, staging, or parking inside the drip line shall be prohibited. No chemicals shall be applied or used around or near these areas that would be detrimental to vegetation health.

The Contractor shall immediately report damage to any tree within the Work area, to CDOT, for assessment of the damage and survivability. Trees that are damaged which, at the sole discretion of CDOT, are determined will not survive, shall be replaced at the Contractor's expense. Trees that are damaged and are assessed as salvageable shall be promptly repaired, pruned, wrapped, and protected from further damage at the Contractor's expense.

#### ***Topsoil***

All topsoil, either imported or salvaged on Site, shall be treated with an herbicide for noxious weeds prior to final seeding.

#### ***Seeding***

Placement of soil conditioner, topsoil, seeding, mulching (weed free), and mulch tackifier (or soil retention blanket) shall not be done in a single operation, but shall be completed immediately following each area that is to final grade per Standard Specifications 101, 107, and 208.

Seeding shall be drilled .25-inch to .5-inch into the soil. In small areas not accessible to drill, the Contractor shall hand-broadcast the seed at double the rate and rake into the soil .25-inch to .5-inch per Section 212 of the Standard Specifications.

Hydro mulching is an acceptable method of stabilization. Hydro seeding shall only be allowed as Accepted by the CDOT landscape architect. Hydro seeding and hydro mulching shall not be done in the same operation

All native seeding areas shall be mulched and mechanically crimped with weed free hay per Section 213 of the Standard Specifications.

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Soil retention blanket shall be used for slopes steeper than 4:1. If soil retention blanket is used, mulching (weed free) and mulch tackifier are not required. Turf reinforcement mats shall be used in swales steeper than 2%. Soil retention blankets shall be per Section 216 of the Standard Special Provisions.

The Contractor shall place native seed, mulch (weed free), and mulch tackifier after each construction phase and prior to any winter shutdown Work.

Native seed areas shall contain a minimum of 90 percent grass species and no noxious weeds. Native seed areas shall have 80 percent coverage prior to Project Final Acceptance. Any native seed areas having poor germination (less than 80 percent coverage) shall be reseeded until establishment is reached. No bare spots greater than 6 feet by 6 feet shall be accepted.

### Deliverables

The Contractor shall submit the following to the CDOT for review, Approval, and/or Acceptance:

<b>Deliverable</b>	<b>Review, Acceptance, or Approval</b>	<b>Schedule</b>
Landscape walkthrough and installation of temporary fencing for the protection of all existing vegetation	Approval	After tagging all existing plant material according to the Landscape Plan and prior to construction
Notification of use of imported topsoil	Approval	At least 30 Days prior to hauling topsoil to the site
A 1-pound sample and Certificate of Compliance for imported topsoil and 2-pound sample of organic soil amendments and Certification of Compliance	Acceptance	Four (4) weeks before its use on the Project Site
Hydro seeding	Acceptance	Four (4) weeks before its use on the Project Site