

4. STORMWATER MANAGEMENT CONTROLS FIRST CONSTRUCTION ACTIVITIES

THE CONTRACTOR SHALL PERFORM THE FOLLOWING:

A. POTENTIAL POLLUTANT SOURCES

Evaluate, identify, locate and describe all potential sources of pollutants at the site in accordance with subsection 107.25, CDPS-SCP and place in the SWMP notebook. All BMPs/Control Measures related to potential pollutants shall be shown on the SWMP site map by the Contractor's SWMP Administrator.

B. OFFSITE DRAINAGE (RUN ON WATER)

1. Describe and record BMPs/Control Measures on the SWMP site map that have been implemented to address off site run-on water in accordance with subsection 208.03.

C. VEHICLE TRACKING PAD/VEHICLE TRACKING CONTROL

1. BMPs/Control Measures shall be implemented in accordance with subsection 208.04.

D. PERIMETER CONTROL

1. Perimeter control shall be established as the first item on the SWMP to prevent the potential for pollutants leaving the construction site boundaries, entering the stormwater drainage system, or discharging to state waters.
2. Perimeter control may consist of vegetation buffers, berms, silt fence, erosion logs, existing landforms, or other BMPs/Control Measures as approved.
3. Perimeter control shall be in accordance with subsection 208.04

5. DURING CONSTRUCTION

RESPONSIBILITIES OF THE SWMP ADMINISTRATOR DURING CONSTRUCTION

The SWMP should be considered a "living document" that is continuously reviewed and modified. During construction, the following items shall be added, updated, or amended as needed by the SWMP Administrator in accordance with subsection 208.

During construction, indicate how items that have not been addressed during design are being handled in construction. If items are covered in the template or other sections of the SWMP notebook indicate below what section the discussion takes place.

A. **STOCKPILE MANAGEMENT:** Shall be done in accordance with subsection 107.25 and 208.07

B. **CONCRETE WASHOUT:** Concrete wash out water or waste from field laboratories and paving equipment shall be contained in accordance with subsection 208.05.

C. **SAW CUTTING:** Shall be done in accordance with subsection 107.25, 208.04, 208.05

D. **STREET SWEEPING:** Shall be done in accordance with subsection 208.04

6. INSPECTIONS

A. Inspections shall be in accordance with subsection 208.03 (c).

7. BMP/CONTROL MEASURE MAINTENANCE

A. Maintenance shall be in accordance with subsection 208.04 (f).

8. RECORD KEEPING

A. Records shall be kept in accordance with subsection 208.03 (d).

9. INTERIM AND PERMANENT STABILIZATION

A. SEEDING PLAN

Soil preparation, soil conditioning or topsoil, seeding (native), mulching (weed free) and mulch tackifier will be required for an estimated 15 acres of disturbed area within the right-of-way limits which are not surfaced. The following types and rates shall be used:

COMMON NAME	BOTANICAL NAME	LBS. PLS PER ACRE
Black grama #	<i>Boutelous eriopoda</i>	2
Blue grama #	<i>Boutelous gracillis v. Hachita</i>	2
Galleta #	<i>Pleuraphis jamesii v. Viv</i>	5
Sideoats grama #	<i>Boutelous curtipendula</i>	4
Sand dropseed #	<i>Sporobulus cryptandrus</i>	0.5
Little bluestem	<i>Schizachyrium scoparium</i>	2
New Mexico feathergrass	<i>Hesperostipa neomexicana</i>	2
American vetch	<i>Vicia americana</i>	2
Scarlet gilia	<i>Ipomopsis aggregata</i>	2
Winterfat	<i>Krascheninnikovia lanata</i>	2
Fourwing saltbush #	<i>Atriplex canescens</i>	2.5
*Cover/Nurse Crop Oats or	<i>Avena sativa (Spring)</i>	3
*Cover/Nurse Crop Regreen	<i>Triticum aestivum (Spring or Fall)</i>	2
TOTAL		28-29

*Use either one depending on seeding period. # mgcl and salt tolerant from road surface.

B. **SEEDING APPLICATION:** Drill seed 0.25 inch to 0.5 inch into the soil. In small areas not accessible to a drill, hand broadcast at double the rate and rake 0.25 inch to 0.5 inch into the soil.

C. **MULCHING APPLICATION:** Apply a minimum of 1½ tons of certified weed free native hay per acre and in accordance with Section 212, and mechanically crimp it into the soil in combination with organic mulch tackifier.

1. Prior to winter shutdown or the summer seeding window closure: Uncompleted slopes shall be mulched with 2 tons of mulching (weed free) per acre, mechanically crimped into the topsoil in combination with an organic mulch tackifier per subsections 208 and 213.

D. SPECIAL REQUIREMENTS:

1. Due to high failure rates, hydroseeding will not be allowed for permanent stabilization.

E. **SOIL CONDITIONING AND FERTILIZER REQUIREMENTS:** Minimum requirements for all disturbances to receive seeding (native).

Soil conditioner paid for as Item 212- Soil Conditioning (Acre)		
Biological nutrient organic based fertilizer (lbs/acre)*	Humate (lbs/acre)	Compost (cys/acre) (1/2 inch depth)
600	200	65


*Biological nutrient shall not exceed 8-8-8 (N-P-K). Humate based material shall be in accordance to Standard Special Provision 212 and compost shall be in accordance to Standard Special Provision 212. Refer to Project Special -Topsoil for additional topsoil amendments. [Include Topsoil Project Special] Placing compost when required to amend embankment and as soil conditioner may be combined as a single application.

F. **SOIL RETENTION COVERING:** On slopes and ditches requiring a blanket or turf reinforcement mat (trm), the blanket/trm shall be placed in lieu of mulch and mulch tackifier and placed after seeding (native). See SWMP site map for blanket/trm locations.

G. RESEEDING OPERATIONS/CORRECTIVE STABILIZATION

Prior to partial acceptance.

All seeded areas shall be reviewed during the 14 day inspections by the SWMP Administrator and or Erosion Control Inspector for bare soils caused by surface or wind erosion. Bare areas caused by surface or gully

Print Date: 3/7/2017	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Sheet Revisions			Colorado Department of Transportation  902 Erie Avenue Pueblo, CO 81001 Phone: 719-562-5509 FAX: 719-546-5702 Region 2 DTD	As Constructed			Project No./Code STM SH45-001 20755 Sheet Number 92	
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Horiz. Scale: 1:1 Vert. Scale: As Noted						Revised:	Designer: LEP	Structure Numbers		
Unit Information Unit Leader DTD						Void:	Detailer: LEP	Sheet Subset: SWMP		Subset Sheets: 2 of 5