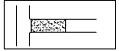


APPENDIX H BMP DETAILS

Primary VTC: Vehicle cleaning and street sweeping Alternates: Rock pad, rumble strip, composite mats.





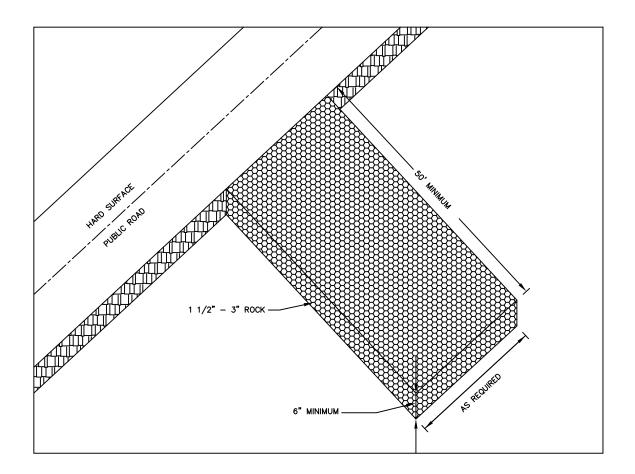
VEHICLE TRACKING CONTROL

DEFINITION:

A STONE STABILIZED PAD LOCATED AT POINTS OF VEHICULAR INGRESS AND EGRESS ON A CONSTRUCTION SITE.

PURPOSES:

TO REDUCE THE AMOUNT OF MUD TRANSPORTED ONTO PUBLIC ROADS BY MOTOR VEHICLES OR RUNOFF.

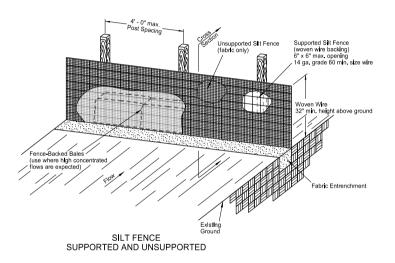


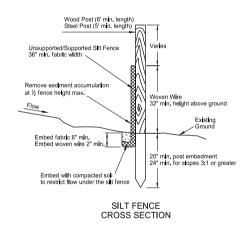
REVISED: MAY 2003

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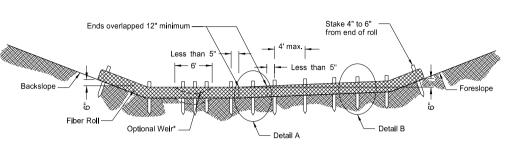


CITY OF SIOUX FALLS ENGINEERING DIVISION TEMPORARY VEHICLE TRACKING CONTROL



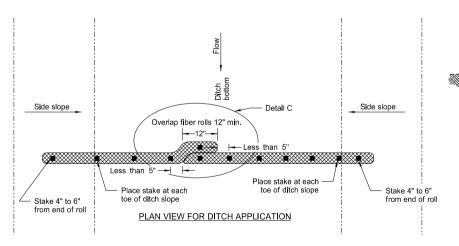


DEPART	NORTH DAKOTA MENT OF TRANSPORTATION 10-03-13 REVISIONS	
DATE	CHANGE	1
06-26-14	Standard drawing resulted from splitting standard D-708-2.	
	Apper	dix Page H-2

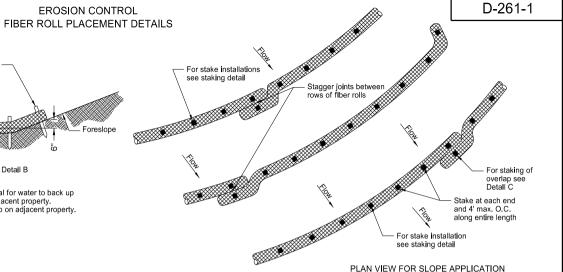


*Optional Weir. Use in flat areas, such as the Red River Valley, where there is potential for water to back up on adjacent property. Lower filber roll enough to prevent water from backing up on adjacent property. Do not use 20-inch filber rolls in flat areas where there is potential for water to back up on adjacent property.

12 OR 20 INCH FIBER ROLL - DITCH BOTTOM



FIBER ROLL DIAMETER	NOMINAL STAKE SIZE	MINIMUM STAKE LENGTH	MINIMUM TRENCH DEPTH	MAXIMUM TRENCH DEPTH
6"	2" x 2"	18"	2"	2"
12"	2" x 2"	24"	2"	3"
20"	2" x 2"	36"	3"	5"



Overlapping fiber rolls

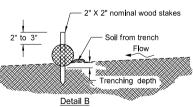
Flow

Soil from trench

2" X 2" nominal wood stakes

Detail A

Fiber Roll Overlapping Staking Detail

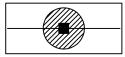


Fiber Roll Staking Detail

NOTE: Runoff must not be allowed to run under or around roll.

Similar sediment control logs installed per manufacturer specifications. Compost and rock logs are self-weighted.

DEPARTM	NORTH DAKOTA SENT OF TRANSPORTATION	
	11-18-10	
	REVISIONS	
DATE	CHANGE	
06-10-13	Added plan view for ditch and slope application. Added table with values for stake and trench dimensions.	
10-04-13	Revised fiber roll overlap detail.	
06-26-14	Changed standard drawing number from D-708-7 to D-261-1.	
	Append	ix Page H-3



INLET PROTECTION

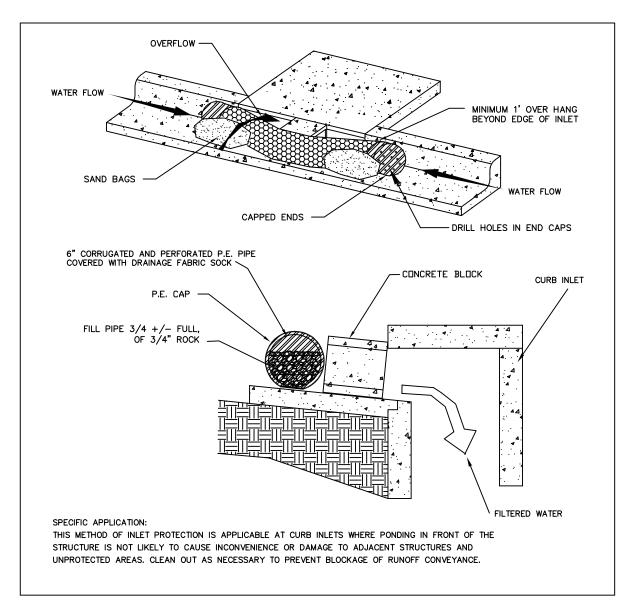


DEFINITION:

A SEDIMENT FILTER OR AN EXCAVATED IMPOUNDING AREA AROUND A STORM DRAIN DROP INLET OR CURB INLET. TO BE USED AT SUMP CONDITIONS.

PURPOSES:

TO REDUCE SEDIMENT FROM ENTERING STORM DRAINAGE SYSTEMS PRIOR TO PERMANENT STABILIZATION OF DISTURBED AREAS.



REVISED: NOVEMBER 2008

SPECIFICATION REFERENCE NO. 734



CITY OF SIOUX FALLS ENGINEERING DIVISION CORRUGATED PIPE AND FABRIC INLET PROTECTION - OVERFLOW





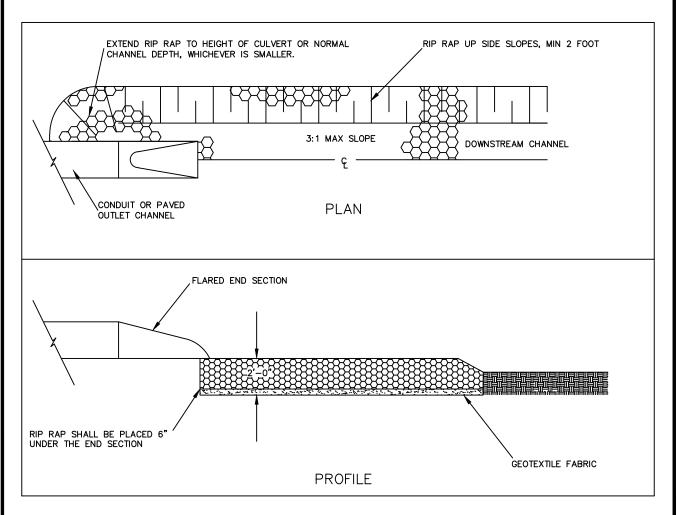
OUTLET PROTECTION

DEFINITION:

STRUCTURALLY LINED APRONS OR OTHER ACCEPTABLE ENERGY DISSIPATING DEVICES PLACED AT THE OUTLETS OF PIPES OR PAVED CHANNEL SECTIONS.

PURPOSES:

1. TO PREVENT SCOUR AT STORM WATER OUTLETS AND TO MINIMIZE THE POTENTIAL FOR DOWNSTREAM EROSION BY REDUCING THE VELOCITY OF CONCENTRATED STORM WATER FLOWS.



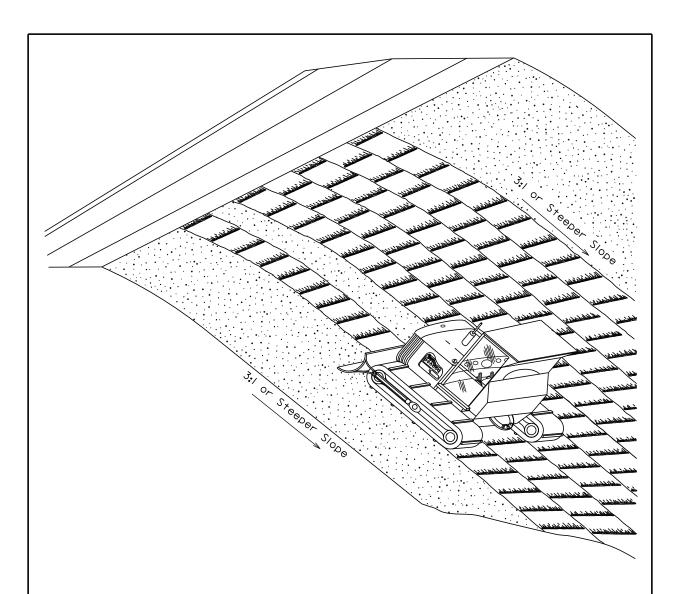
QUANTITY AND SIZE OF RIP RAP TO BE DETERMINED BY DESIGN. ALL RIP RAP SHALL BE UNDERLAID BY A SUITABLE FILTER FABRIC.

REVISED: DECEMBER 2009

SPECIFICATION REFERENCE NO. 734



CITY OF SIOUX FALLS ENGINEERING DIVISION OUTLET PROTECTION



GENERAL NOTES:

Where practical, surface roughening shall be done on slopes 3:1 and steeper and on slopes deemed necessary by the Engineer.

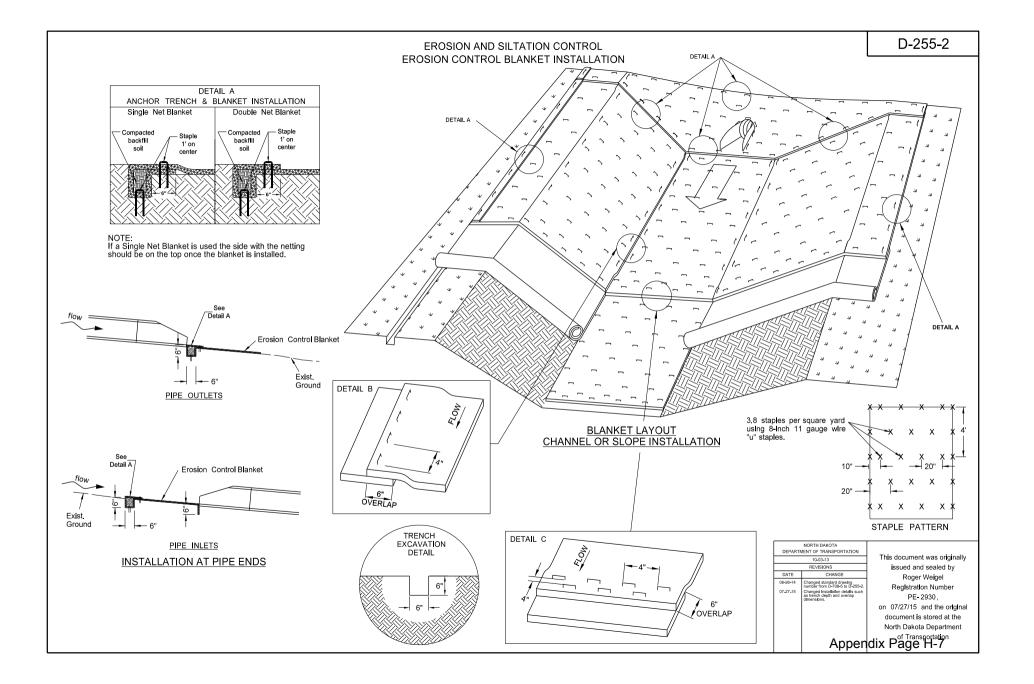
The equipment used for surface roughening shall be equipped with tracks that are capable of creating ridges in the soil that are perpendicular to the slope. The final condition of the surface roughening shall be approved by the Engineer.

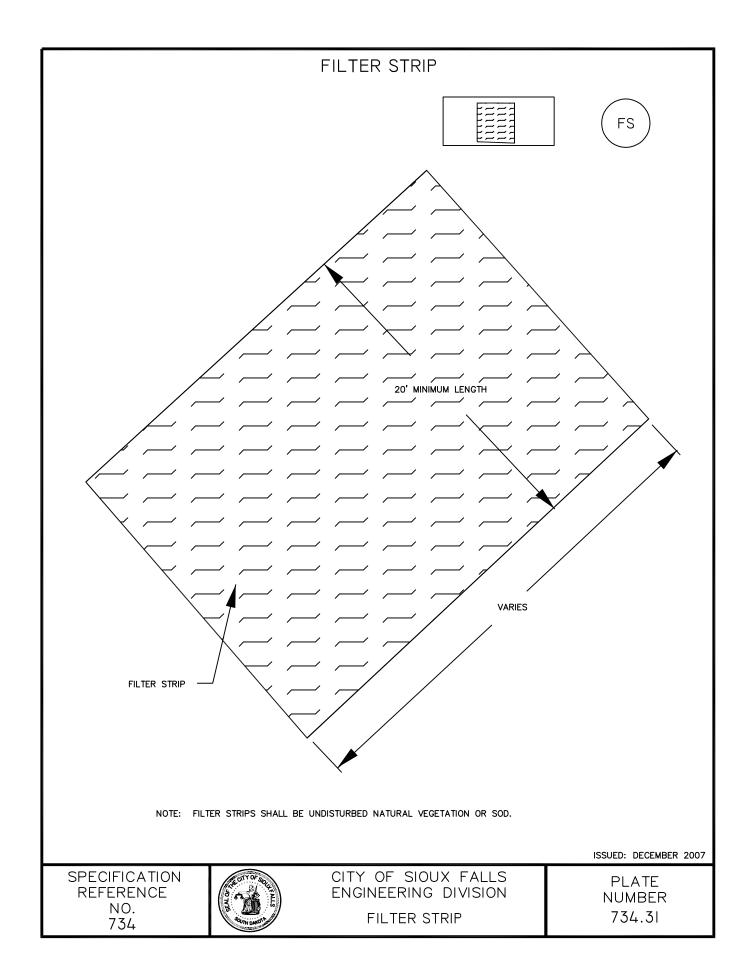
Measurement for surface roughening shall be to the nearest tenth of an acre.

All costs associated with surface roughening including labor, equipment, and materials shall be incidental to the contract unit price per acre for "Surface Roughening".

June 26,2009

	S D D	SURFACE ROUGHENING	PLATE NUMBER 734.25
Published Date: 3rd Qtr. 2015	O T		Sheet Lof L



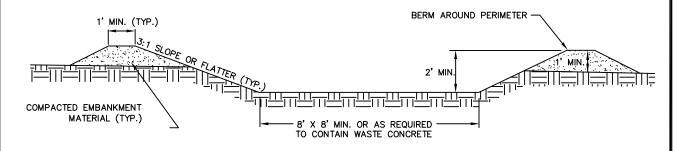


CONCRETE WASHOUT FACILITY



NOTES:

- 1. CONCRETE WASHOUT FACILITY SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON SITE.
- 2. A SIGN SHALL BE INSTALLED ADJACENT TO EACH WASHOUT FACILITY TO INFORM CONCRETE EQUIPMENT OPERATORS TO UTILIZE THE CWF.
- 3. THE CONCRETE WASHOUT FACILITY SHALL BE REPAIRED AND ENLARGED OR CLEANED OUT AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE.
- 4. WHEN CWF ARE NO LONGER REQUIRED FOR THE WORK, THE HARDENED CONCRETE AND MATERIALS USED TO CONSTRUCT THE CWF SHALL BE REMOVED AND DISPOSED OF.
- 5. WHEN THE CONCRETE WASHOUT FACILITY IS REMOVED, THE HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCE SHALL BE BACKFILLED, REPAIRED AND STABILIZED.



CROSS SECTIONAL VIEW

REVISED: DECEMBER 2008

SPECIFICATION REFERENCE NO. 734



CITY OF SIOUX FALLS ENGINEERING DIVISION CONCRETE WASHOUT FACILITY