

- # NOTES
- THE ENGINEER HAS UNDERTAKEN LIMITED FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UNDERGROUND UTILITY LINES, MAKES NO REPRESENTATION THEREABOUTS, AND DOES NOT GUARANTEE THE LOCATION OR LIABILITY THEREFORE. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE IN OR NEAR THE AREA OF THE PROJECT IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY, AND PROTECT ANY AND ALL EXISTING UTILITIES. THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS PERTAINING TO THE LOCATION AND PROTECTION OF EXISTING UTILITIES PRIOR TO CONDUCTING EXCAVATION. WHETHER BY CALLING OR NOTIFYING THE UTILITIES, COMPLYING WITH "BLUE STAKES" PROCEDURES, OR OTHERWISE.
- THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR
- THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, ARE HEREBY OFFERED TO THIS PROJECT AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF GND ENGINEERING. IN THE EVENT OF UNAUTHORIZED USE, THE USER ASSUMES ALL RESPONSIBILITY AND LIABILITY WHICH RESULTS.

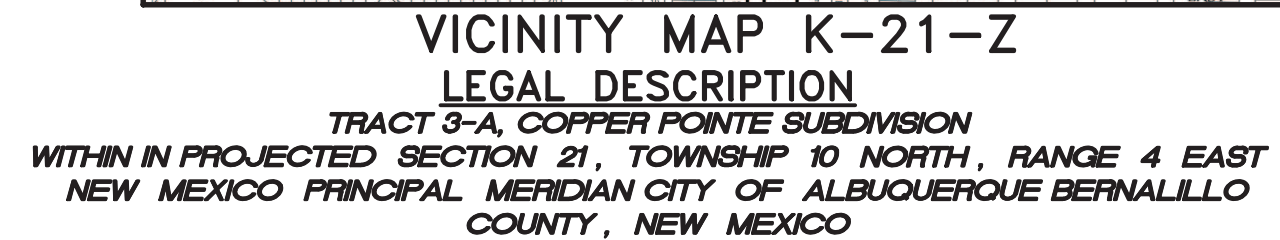
1. ALL WORK IN CITY RIGHT OF WAY WILL REQUIRE CITY WORK ORDER SUBMITTAL.
2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER THIS CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREIN, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION, UPDATE NO. 8.
3. THE EROSION PROTECTION SPECIFIED ON THIS PLAN IS THE MINIMUM RECOMMENDED. THE OWNER IS ENCOURAGED TO INCORPORATE EROSION RESISTANT LANDSCAPING ON AREAS WHERE EROSION MAY OCCUR SUCH AS SLOPES AND SWALES. THE OWNER IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION CONTROL FEATURES NECESSARY TO PRESERVE THE DESIGN INTENT OF THE GRADING PLAN.
4. THE DRAINAGE INFRASTRUCTURE SHOWN ON THIS PLAN IS THE RESPONSIBILITY OF THE PROPERTY OWNER.
5. ALL DISTURBED AREAS OUTSIDE THE BUILDING PAD MUST BE RESEEDED OR LANDSCAPED
6. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, (260-1990) FOR LOCATION OF EXISTING UTILITIES.
7. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS AND EXISTING PAVEMENT. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM OF DELAY.

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
4. REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL (CITY) ACCEPTANCE OF ANY PROJECT.

A graphic scale bar is located at the bottom of the map. It is a horizontal line with tick marks at 0, 20, and 40 feet. The word "SCALE" is written below the 0 mark, and "FEET" is written below the 40 mark. The bar is divided into alternating black and white segments.

The diagram illustrates a cross-section of a road profile with the following features and labels:

- FLOW ARROW**: Indicated by a curved arrow pointing upwards and to the right.
- SLOPE**: Labeled as 2% with a small triangle indicating the slope.
- PROPOSED ELEVATION**: Labeled as $EL=11.28$ with a horizontal line.
- EXISTING ELEVATION**: Labeled as $\times 66.33$ with a small triangle.
- GRADE BREAK**: Indicated by a wavy line.
- EXISTING CONTOUR**: Labeled as 4966 with a horizontal line.
- EXISTING CONTOUR**: Labeled as 4966 with a horizontal line.
- PROPOSED EASEMENT**: Indicated by a dashed line.
- PROPOSED GRADE**: Labeled as 4.00% with a horizontal line.
- EXISTING WALL**: Indicated by a horizontal line with small circles.
- PROPOSED WALL**: Indicated by a horizontal line with small circles.



LOCATION & DESCRIPTION

THE SITE IS 1.60 ACRES LOCATED ON THE SOUTH SIDE OF I-40 AT MORRIS AVE. WITHIN THE COPPER POINT COMMERCIAL DEVELOPMENT AS SEEN ON THE VICINITY MAP. THE SITE IS CURRENTLY UNDEVELOPED. THE ADJACENT PROPERTY TO THE WEST IS A DEVELOPED COMMERCIAL SITE. THE PROPERTIES TO THE SOUTH AND EAST ARE DEVELOPED AS RESIDENTIAL. THE SITE IS TO BE DEVELOPED AS A HOTEL SITE.

THIS PROJECT, AS SHOWN ON FEMA'S FLOOD INSURANCE RATE MAP 35001C0141 G, DATED APRIL 2, 2002 IS NOT WITHIN A DESIGNATED 100-YEAR FLOODPLAIN.

THE HYDROLOGY FOR THIS PROJECT WAS ANALYZED USING AHYMO SOFTWARE.

THE 100-YR 24-HR DURATION STORM WAS USED AS THE DESIGN STORM FOR THIS ANALYSIS. THIS SITE IS WITHIN ZONE 3 AS IDENTIFIED IN THE CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL, SECTION 22.2.

THE SITE IS WITHIN THE COPPER POINT GRADING AND DRAINAGE PLAN AREA. THE PREVIOUSLY APPROVED DRAINAGE PLAN, SUPPLEMENTAL CALCULATIONS FOR COPPER POINT DATED MAY 2007, WAS APPROVED FOR ALL DISCHARGE TO BE DIRECTED TO THE PRIVATE ROADWAY TO THE WEST AT 7.37 CFS (SEE TABLE). THERE ARE NO OFFSITE FLOWS THAT IMPACT THE SITE.

THE RUNOFF FROM SITE WILL BE ROUTED THROUGH THE FLUSH PONDS ALONG SOUTH AND WEST PROPERTY LINES THEN DISCHARGED INTO THE PRIVATE DRIVE. THE PRIVATE DRIVE WILL CONVEY FLOW ALONG THE CURB TO INLETS LOCATED WEST OF THE SITE AND DISCHARGING TO THE I-40 CHANNEL. THIS DEVELOPMENT WILL HAVE NO ADDITIONAL IMPACT ON DOWNSTREAM FACILITIES.

THERE ARE FLUSH PONDS ALONG THE PERIMETER OF THE SITE TO ACCOMMODATE THE FOLLOWING FIRST FLUSH REQUIREMENTS:

IMPERVIOUS AREA = 56,432Ft²

REQUIRED FLUSH VOLUME = 56,432 Ft² * 0.34/12 FT. = 1,588 CU.FT.

FLUSH VOLUME PROVIDED = 1,211 CU.FT + 380 CU.FT. = 1,591 CU.FT.

BASIN	AREA (acres)	LAND TREATMENT PERCENTAGES BY TYPE				YIELD (cfs/ac)	Q ¹⁰⁰ (cfs)	V ¹⁰⁰⁻² (acft)
		A	B	C	D			
A	1.70	0	7	8	85	4.66	7.37	0.342

BASIN	AREA (acres)	LAND TREATMENT PERCENTAGES BY TYPE				YIELD (cfs/ac)	Q ¹⁰⁰ (cfs)	V ¹⁰⁰⁻²⁰ (acft)
		A	B	C	D			
A-1	1.60	0	13	6	81	4.55	7.20	0.331
A-1								

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Albuquerque, New Mexico 87106
Tel 505.242.1745
Fax 505.242.1737

HOLIDAY INN EXPRESS
10500 COPPER AVENUE
ALBUQUERQUE , NEW MEXICO 87123

[illegible]

C-101

6/19/2018



Stormwater Quality

ESC Plan Information Sheet

Project Name: Holiday Inn Express & Suites - Albuquerque Copper Pointe

Project Location: (address or major cross streets/arroyo)

Copper Ave NE

Plan Preparer Information:

Company: Horizon Environmental Services, Inc.

Contact: Alicia Nichols

Address: PO Box 9057

Durango, CO 91302

Phone Number: (O) (970) 259-4346 (Cell (optional)) _____

e-Mail: Alician@horizonenvservices.com

Owner Information:

Company: Rohin Capital, LLC C

Contact: Owen Johnson

Address: 8300 Carmel Ave NE Ste 402

Albuquerque, NM 87122

Phone: (505) 304-7940

e-Mail: johnson.oj.owen@gmail.com

I am submitting the ESC plan to obtain approval for:

☐ ESC Permit-Grading

☐ ESC Permit-Building Permit

☐ Work Order Construction Plans

Note: More than one item can be checked for a submittal

If you have questions, please contact Curtis Cherne, Stormwater Quality 924-3420, ccherne@cabq.gov

Rev April 2016



City of Albuquerque

Planning Department

Stormwater Control Permit for Erosion and Sediment Control

Project Title Holiday Inn Express & Suites - Albuquerque Copper Pointe

Project Location (Major Cross Streets/Arroyo
or address) Copper Ave NE

Property Owner: (Note: If applying for a Building Permit, the “Owner” or “Company” name on this form must match the “Owner” name on the Building Permit.)

Company or Owner Name: Rohin Capital, LLC

Street: 8300 Carmel Ave NE Ste 402
Street: _____

City, State, Zip Code: Albuquerque, NM 87122

Responsible Person:

Name: Owen Johnson

Phone Number: (505) 304-7940

E-mail: johnson.oj.owen@gmail.com

The person listed on the permit and/or the onsite representative will be contacted if any issues are observed during an inspection.

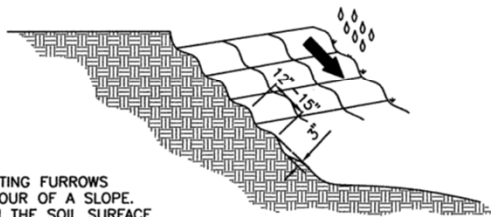
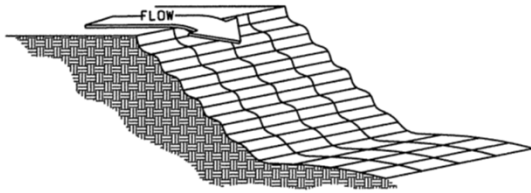
There will be a \$100 Stormwater Quality Inspection fee when the site is inspected. The Owner will be invoiced after the inspection.

Operators are encouraged to be familiar with the NPDES Construction General Permit and BMP installation standards.

For City personnel use only:

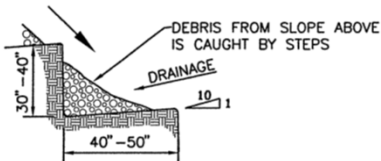
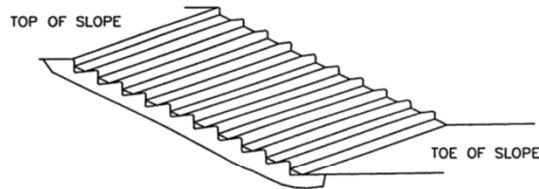
City Personnel Signature: _____ Date _____

(Rev July 2018)



GROOVING IS CUTTING FURROWS ALONG THE CONTOUR OF A SLOPE. IRREGULARITIES IN THE SOIL SURFACE CATCH RAINWATER AND PROVIDE SOME RETENTION OF LIME, FERTILIZER AND SEED.

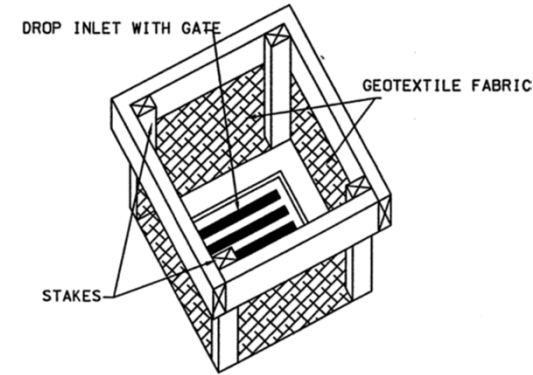
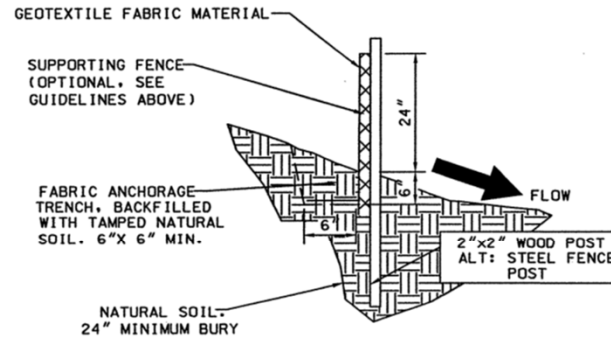
GROOVING SLOPES



STAIR STEPPING CUT SLOPE

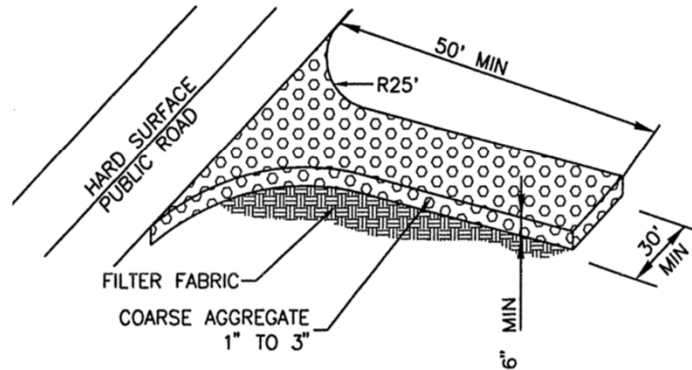
SURFACE ROUGHENING

TYPE I SILT FENCE

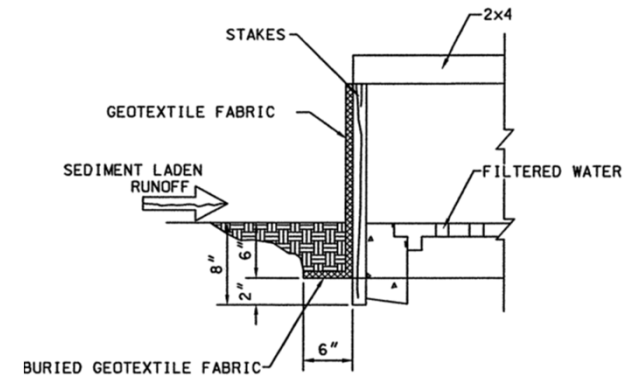


TYPE I

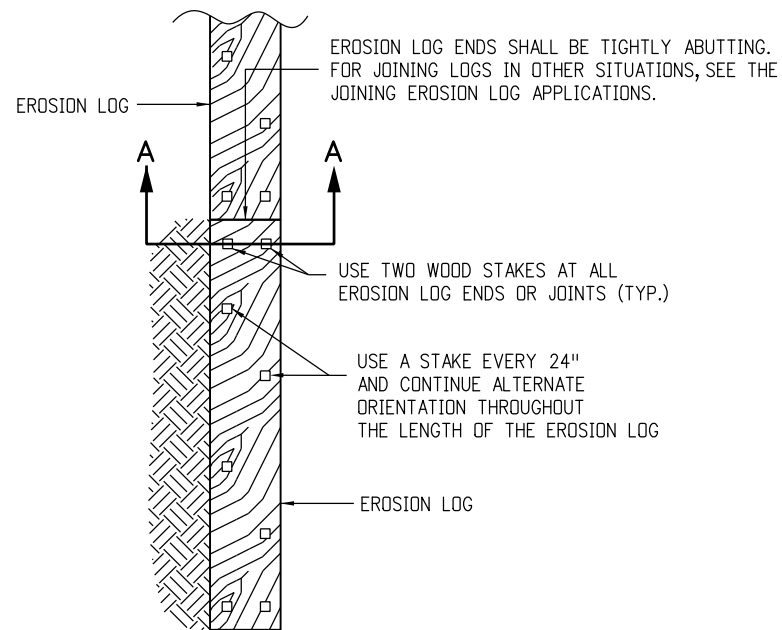
NOTE: WHEN SPECIFIED, ROCKS OR STRAW BALES CAN BE SUBSTITUTED FOR SILT FENCE.



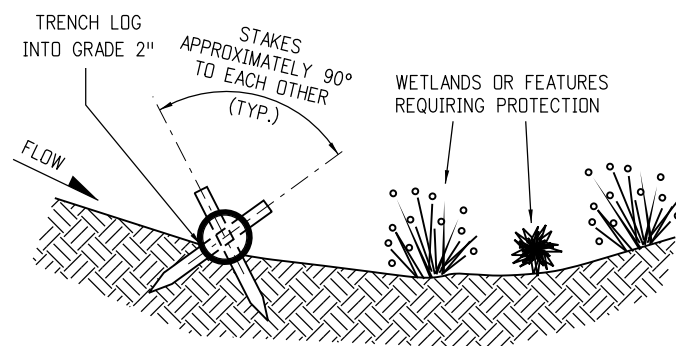
OFFSITE TRACKING PREVENTION



DROP INLET PROTECTION

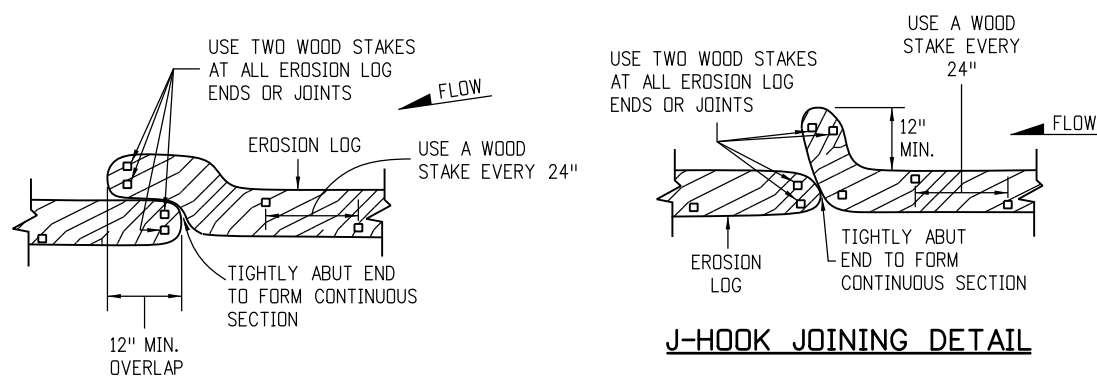


PLAN VIEW



SECTION A-A

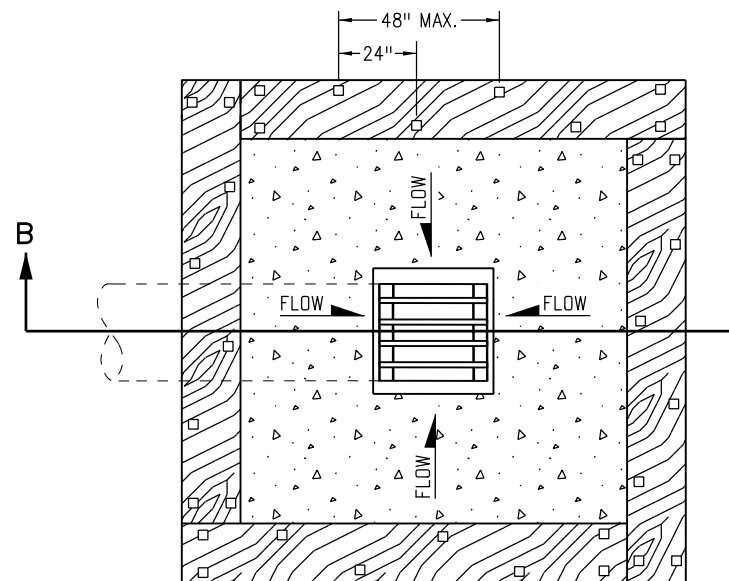
TYPICAL STAKE INSTALLATION



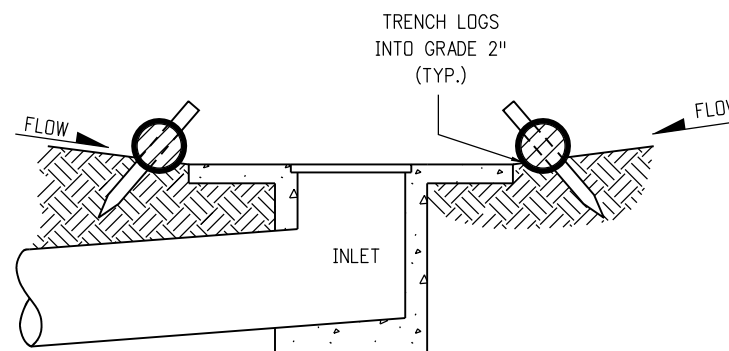
OVERLAP JOINING DETAIL

JOINING EROSION LOG APPLICATIONS

EROSION LOGS PAY ITEMS	
NUMBER	DESCRIPTION
208-00012	TYPE 1 (9")
208-00002	TYPE 1 (12")
208-00013	TYPE 1 (20")
208-00007	TYPE 2 (8")
208-00008	TYPE 2 (12")
208-00009	TYPE 2 (18")



PLAN VIEW

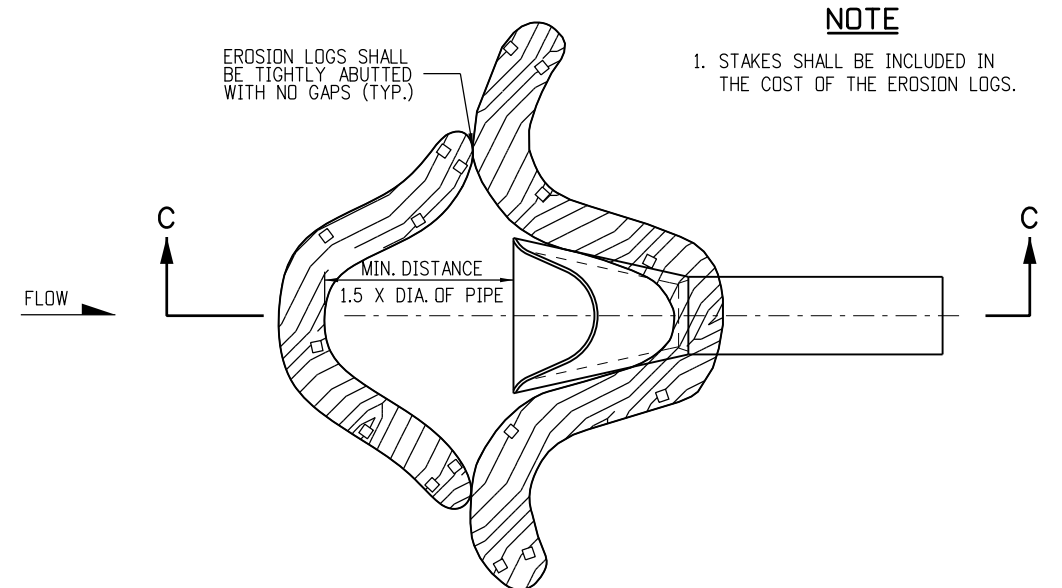


SECTION B-B

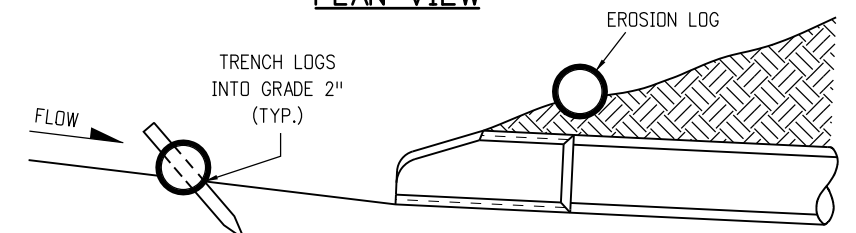
NOTE: LOCATE EROSION LOGS AT THE OUTSIDE EDGE OF THE CONCRETE APRON.

EROSION LOG FILTER AT DROP INLET

EROSION LOG APPLICATIONS

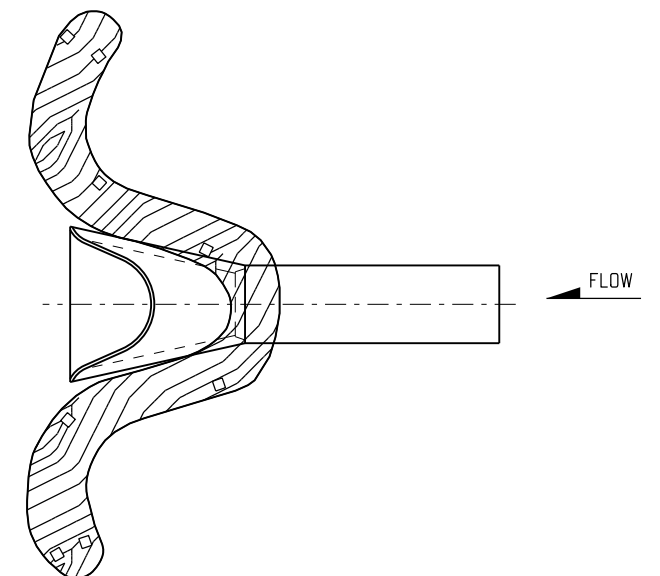


PLAN VIEW



SECTION C-C
(NOT ALL LOGS SHOWN)

EROSION LOG CULVERT INLET PROTECTION



EROSION LOG CULVERT OUTLET PROTECTION

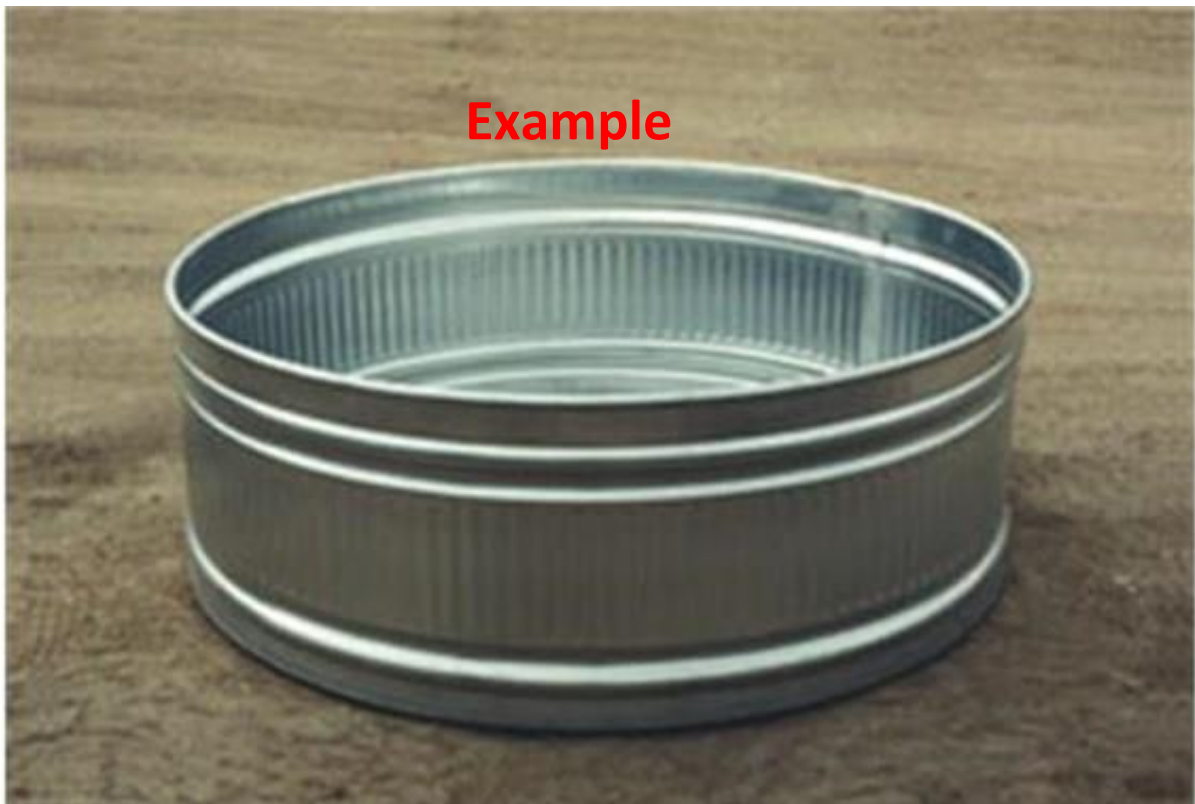
NOTE

1. STAKES SHALL BE INCLUDED IN THE COST OF THE EROSION LOGS.

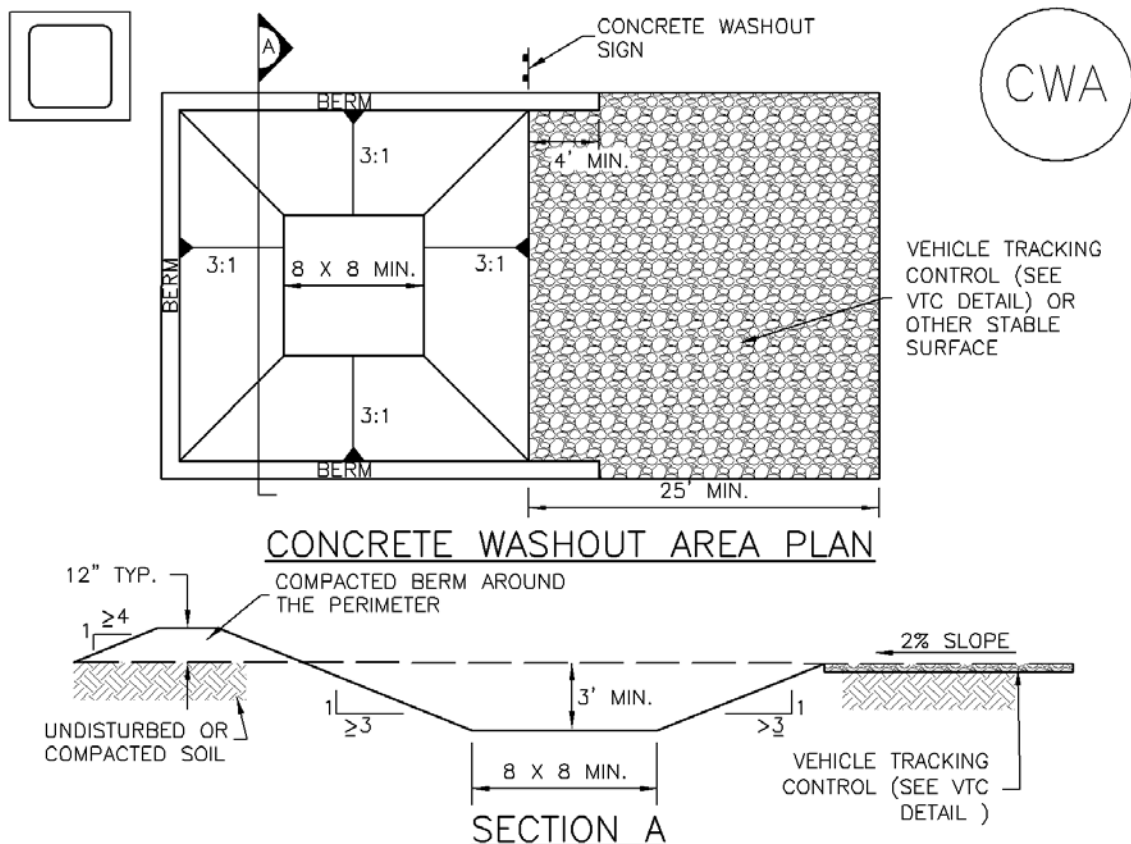
Computer File Information		Sheet Revisions		Colorado Department of Transportation  4201 East Arkansas Avenue CDOT HQ, 4th Floor Denver, CO 80222 Phone: 303-757-9021 FAX: 303-757-9868 Division of Project Support JBK/LTA <th colspan="2">TEMPORARY EROSION CONTROL</th> <th>STANDARD PLAN NO.</th>	TEMPORARY EROSION CONTROL		STANDARD PLAN NO.
Creation Date: 07/04/12	Initials: JBK	Date: 03/29/16	Comments: Minor revisions to some dimensions. Added Erosion Logs Pay Item table.		M-208-1		Sheet No. 2 of 11
Last Modification Date: 03/29/16	Initials: LTA						
Full Path: www.coloradodot.info/business/designsupport							
Drawing File Name: 2080102011.dgn							
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English				Issued By: Project Development Branch on July 4, 2012			

Concrete Washout Structure Standards

1. Concrete Washout structure shall consist of metal tubs of sufficient size to contain all concrete waste water to be created onsite.
2. Concrete Washout shall be located at least 50 feet from all state waters.
3. Site shall be clearly marked with a sign stating "Concrete Washout" in clear lettering.
4. All concrete truck drivers shall know the location of the concrete washout.
5. The structure shall be cleaned out and disposed of when it reaches $\frac{3}{4}$ capacity.
6. All concrete waste water will be properly disposed of offsite.
7. No concrete waste shall be left anywhere onsite except in the designated concrete washout structure.
8. Location of concrete washout will be clearly marked on the SWPPP site map located in the project trailer.



Dimensions will be added when CWO is on site.



CWA-1. CONCRETE WASHOUT AREA

CWA INSTALLATION NOTES

1. SEE PLAN VIEW FOR:
-CWA INSTALLATION LOCATION.
2. DO NOT LOCATE AN UNLINED CWA WITHIN 400' OF ANY NATURAL DRAINAGE PATHWAY OR WATERBODY. DO NOT LOCATE WITHIN 1,000' OF ANY WELLS OR DRINKING WATER SOURCES. IF SITE CONSTRAINTS MAKE THIS INFEASIBLE, OR IF HIGHLY PERMEABLE SOILS EXIST ON SITE, THE CWA MUST BE INSTALLED WITH AN IMPERMEABLE LINER (16 MIL MIN. THICKNESS) OR SURFACE STORAGE ALTERNATIVES USING PREFABRICATED CONCRETE WASHOUT DEVICES OR A LINED ABOVE GROUND STORAGE ARE SHOULD BE USED.
3. THE CWA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.
4. CWA SHALL INCLUDE A FLAT SUBSURFACE PIT THAT IS AT LEAST 8' BY 8' SLOPES LEADING OUT OF THE SUBSURFACE PIT SHALL BE 3:1 OR FLATTER. THE PIT SHALL BE AT LEAST 3' DEEP.
5. BERM SURROUNDING SIDES AND BACK OF THE CWA SHALL HAVE MINIMUM HEIGHT OF 1'.
6. VEHICLE TRACKING PAD SHALL BE SLOPED 2% TOWARDS THE CWA.
7. SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE CWA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CWA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
8. USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.

Description

Wind erosion and dust control BMPs help to keep soil particles from entering the air as a result of land disturbing construction activities. These BMPs include a variety of practices generally focused on either graded disturbed areas or construction roadways. For graded areas, practices such as seeding and mulching, use of soil binders, site watering, or other practices that provide prompt surface cover should be used. For construction roadways, road watering and stabilized surfaces should be considered.



Photograph DC-1. Water truck used for dust suppression. Photo courtesy of Douglas County.

Appropriate Uses

Dust control measures should be used on any site where dust poses a problem to air quality. Dust control is important to control for the health of construction workers and surrounding waterbodies.

Design and Installation

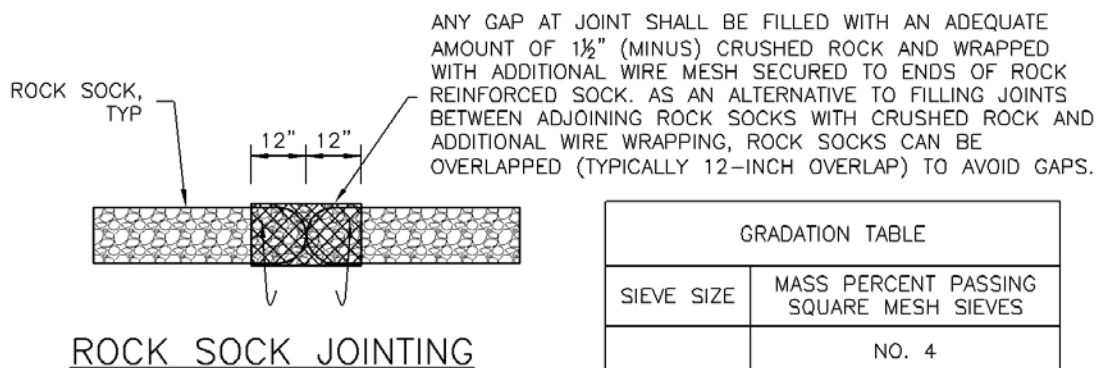
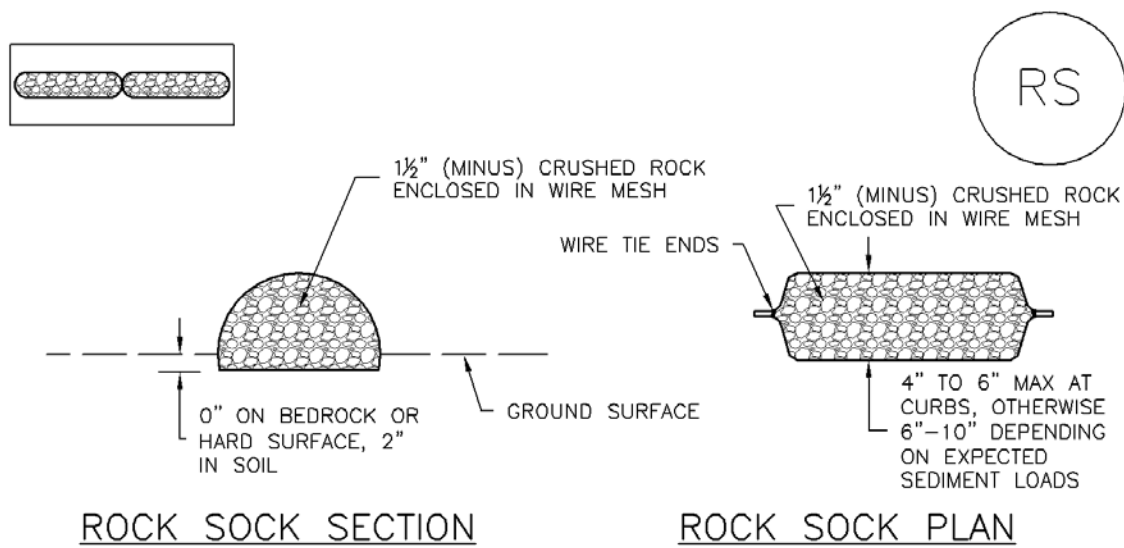
The following construction BMPs can be used for dust control:

- An irrigation/sprinkler system can be used to wet the top layer of disturbed soil to help keep dry soil particles from becoming airborne.
- Seeding and mulching can be used to stabilize disturbed surfaces and reduce dust emissions.
- Protecting existing vegetation can help to slow wind velocities across the ground surface, thereby limiting the likelihood of soil particles to become airborne.
- Spray-on soil binders form a bond between soil particles keeping them grounded. Chemical treatments may require additional permitting requirements. Potential impacts to surrounding waterways and habitat must be considered prior to use.
- Placing rock on construction roadways and entrances will help keep dust to a minimum across the construction site.
- Wind fences can be installed on site to reduce wind speeds. Install fences perpendicular to the prevailing wind direction for maximum effectiveness.

Maintenance and Removal

When using an irrigation/sprinkler control system to aid in dust control, be careful not to overwater. Overwatering will cause construction vehicles to track mud off-site.

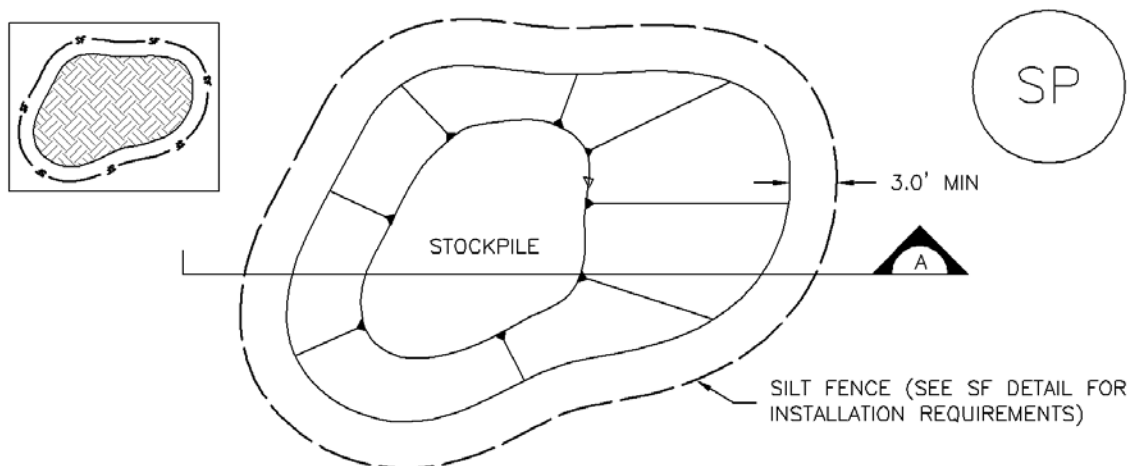
Wind Erosion Control/ Dust Control	
Functions	
Erosion Control	Yes
Sediment Control	No
Site/Material Management	Moderate



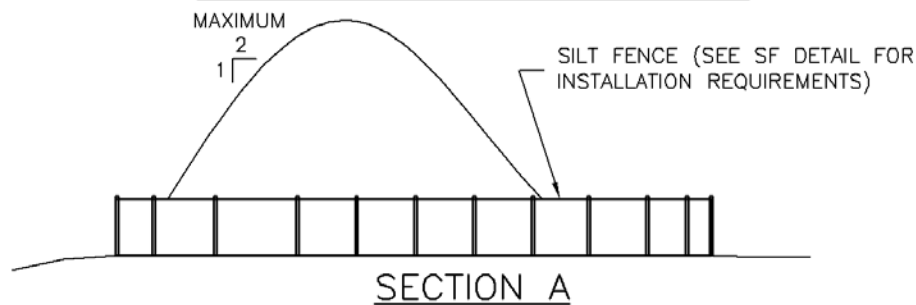
ROCK SOCK INSTALLATION NOTES

1. SEE PLAN VIEW FOR:
-LOCATION(S) OF ROCK SOCKS.
2. CRUSHED ROCK SHALL BE 1½" (MINUS) IN SIZE WITH A FRACTURED FACE (ALL SIDES) AND SHALL COMPLY WITH GRADATION SHOWN ON THIS SHEET (1½" MINUS).
3. WIRE MESH SHALL BE FABRICATED OF 10 GAGE POULTRY MESH, OR EQUIVALENT, WITH A MAXIMUM OPENING OF ½", RECOMMENDED MINIMUM ROLL WIDTH OF 48"
4. WIRE MESH SHALL BE SECURED USING "HOG RINGS" OR WIRE TIES AT 6" CENTERS ALONG ALL JOINTS AND AT 2" CENTERS ON ENDS OF SOCKS.
5. SOME MUNICIPALITIES MAY ALLOW THE USE OF FILTER FABRIC AS AN ALTERNATIVE TO WIRE MESH FOR THE ROCK ENCLOSURE.

RS-1. ROCK SOCK PERIMETER CONTROL



STOCKPILE PROTECTION PLAN



SECTION A

SP-1. STOCKPILE PROTECTION

STOCKPILE PROTECTION INSTALLATION NOTES

1. SEE PLAN VIEW FOR:
 - LOCATION OF STOCKPILES.
 - TYPE OF STOCKPILE PROTECTION.
2. INSTALL PERIMETER CONTROLS IN ACCORDANCE WITH THEIR RESPECTIVE DESIGN DETAILS. SILT FENCE IS SHOWN IN THE STOCKPILE PROTECTION DETAILS; HOWEVER, OTHER TYPES OF PERIMETER CONTROLS INCLUDING SEDIMENT CONTROL LOGS OR ROCK SOCKS MAY BE SUITABLE IN SOME CIRCUMSTANCES. CONSIDERATIONS FOR DETERMINING THE APPROPRIATE TYPE OF PERIMETER CONTROL FOR A STOCKPILE INCLUDE WHETHER THE STOCKPILE IS LOCATED ON A PERVIOUS OR IMPERVIOUS SURFACE, THE RELATIVE HEIGHTS OF THE PERIMETER CONTROL AND STOCKPILE, THE ABILITY OF THE PERIMETER CONTROL TO CONTAIN THE STOCKPILE WITHOUT FAILING IN THE EVENT THAT MATERIAL FROM THE STOCKPILE SHIFTS OR SLUMPS AGAINST THE PERIMETER, AND OTHER FACTORS.
3. STABILIZE THE STOCKPILE SURFACE WITH SURFACE ROUGHENING, TEMPORARY SEEDING AND MULCHING, EROSION CONTROL BLANKETS, OR SOIL BINDERS. SOILS STOCKPILED FOR AN EXTENDED PERIOD (TYPICALLY FOR MORE THAN 60 DAYS) SHOULD BE SEEDDED AND MULCHED WITH A TEMPORARY GRASS COVER ONCE THE STOCKPILE IS PLACED (TYPICALLY WITHIN 14 DAYS). USE OF MULCH ONLY OR A SOIL BINDER IS ACCEPTABLE IF THE STOCKPILE WILL BE IN PLACE FOR A MORE LIMITED TIME PERIOD (TYPICALLY 30-60 DAYS).
4. FOR TEMPORARY STOCKPILES ON THE INTERIOR PORTION OF A CONSTRUCTION SITE, WHERE OTHER DOWNGRADIENT CONTROLS, INCLUDING PERIMETER CONTROL, ARE IN PLACE, STOCKPILE PERIMETER CONTROLS MAY NOT BE REQUIRED.