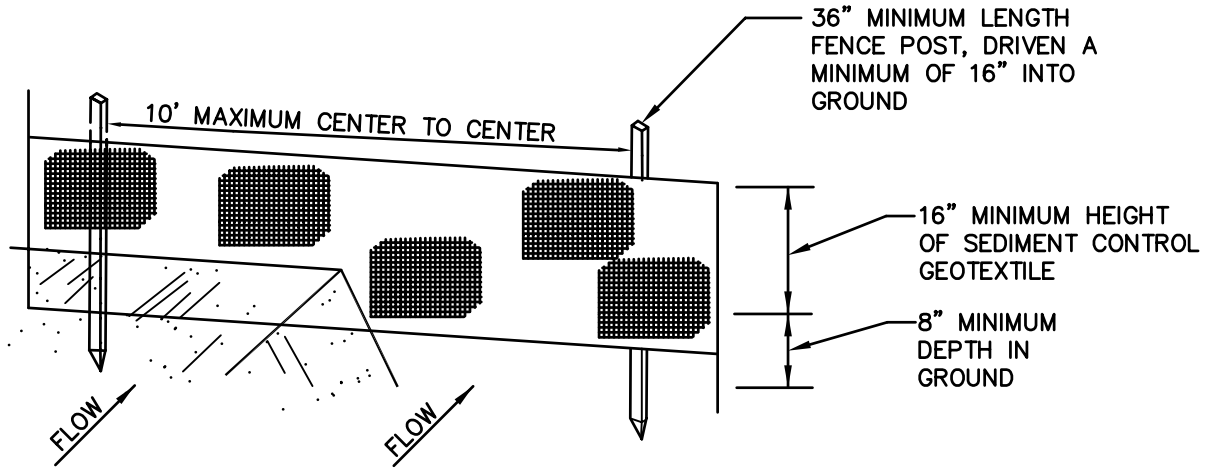


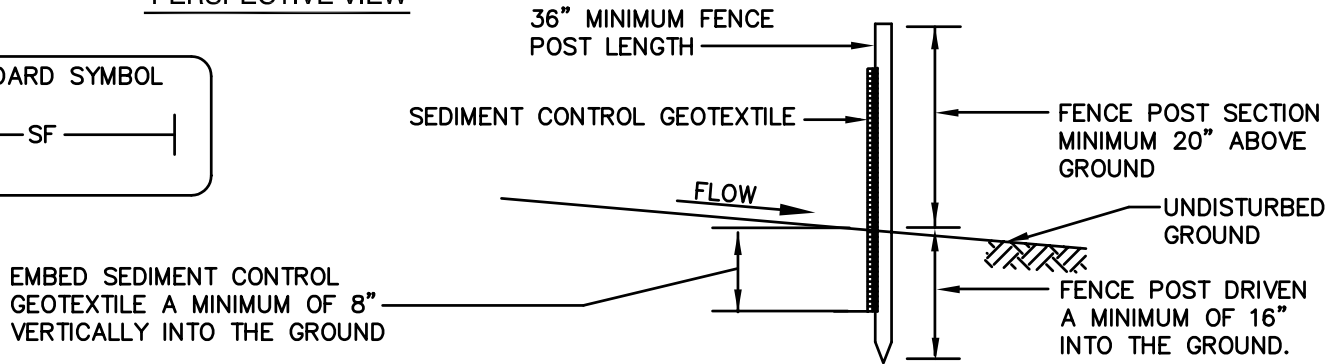
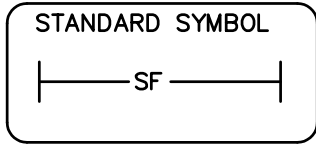
**SECTION VIII-SEDIMENT CONTROL DETAILS****TABLE OF CONTENTS**

<u>TITLE</u>	<u>NUMBER</u>
Silt Fence	SC/1.0
Super Silt Fence	SC/2.0
Stream Bank Protection at Utility Stream Crossing	SC/3.0
Stream Invert Protection for Shallow Utility Stream Crossing	SC/3.1
Riprap Outlet Sediment Trap	SC/4.0
Stone Outlet Sediment Trap	SC/5.0
Stone Outlet Structure	SC/6.0
Stabilized Construction Entrance	SC/7.0
Earth Dike	SC/8.0
Straw Bale Dike	SC/9.0
Pump Around	SC/10.0
Temporary Access Bridge	SC/11.0
Temporary Access Culvert	SC/12.0
Open Diversion	SC/13.0
Culvert Diversion	SC/14.0
Portable Sediment Tank	SC/15.0
Curb Inlet Protection Detail	SC/16.0
Tree Protection Details	SC/17.0
Tree Protection Details	SC/18.0
Special Tree Protection	SC/19.0

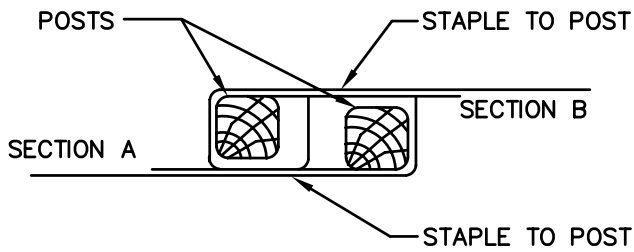




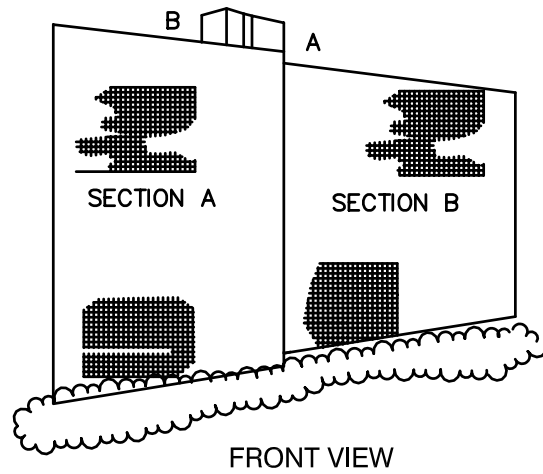
PERSPECTIVE VIEW



CROSS SECTION



TOP VIEW



JOINING TWO ADJACENT SILT FENCE SECTIONS

WASHINGTON  
SUBURBAN  
SANITARY  
COMMISSION

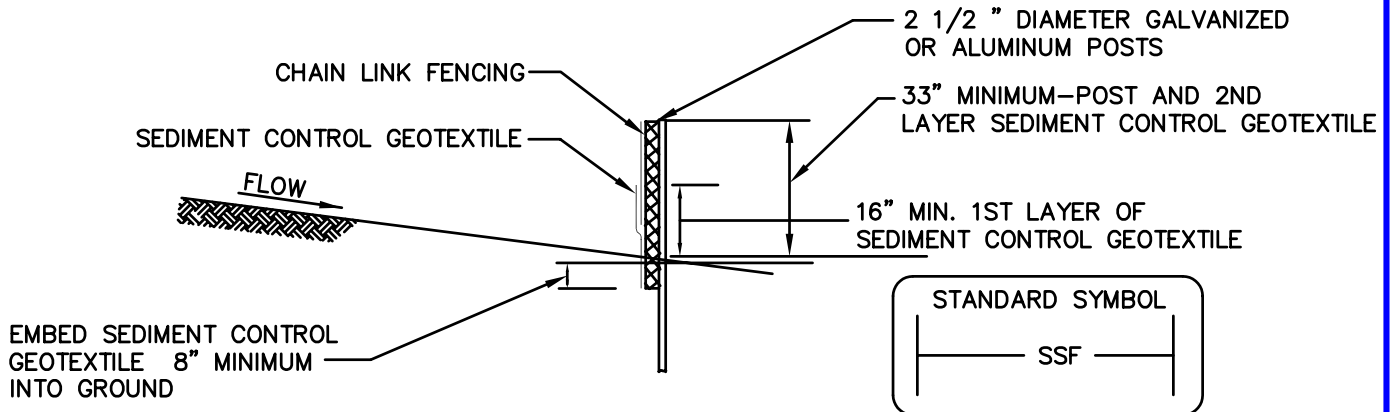
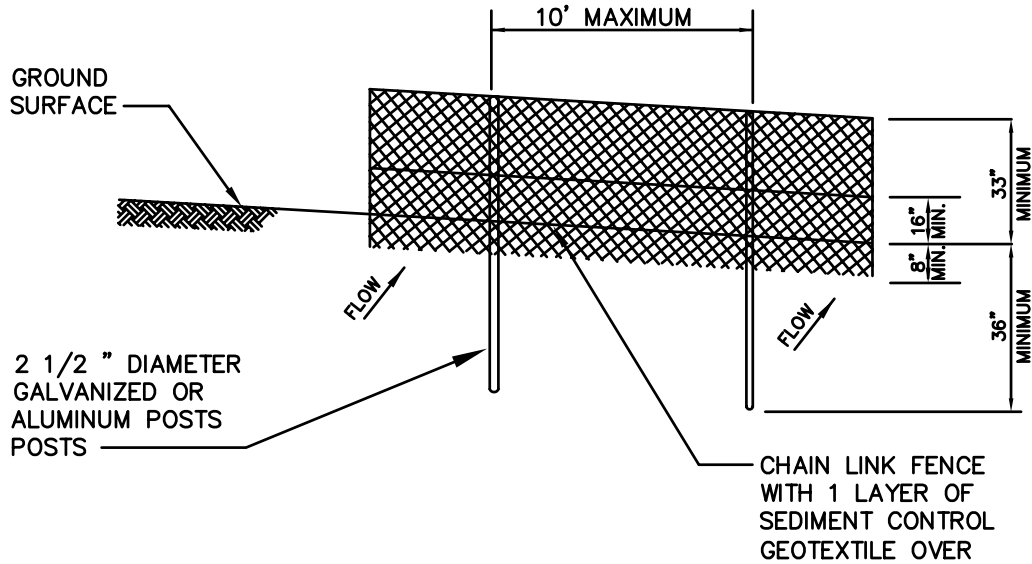
APPROVED: JULY 1, 2005

*Ricardo Rodriguez*  
Chief Engineer

STANDARD DETAIL  
SILT FENCE

SC  
1.0

**NOTE:** FENCE POST SPACING SHALL NOT EXCEED 10' CENTER TO CENTER



WASHINGTON  
SUBURBAN  
SANITARY  
COMMISSION

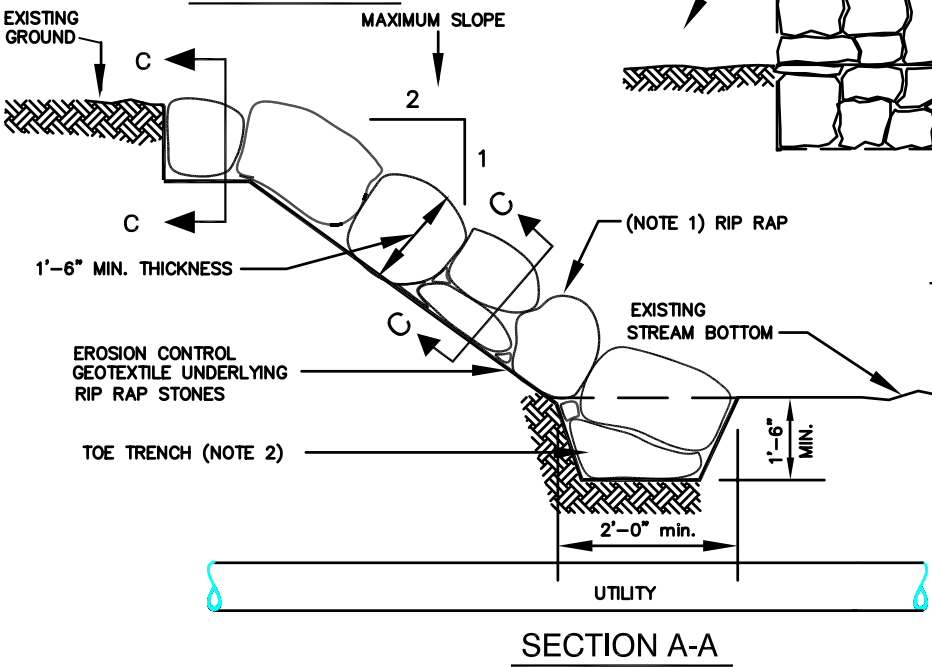
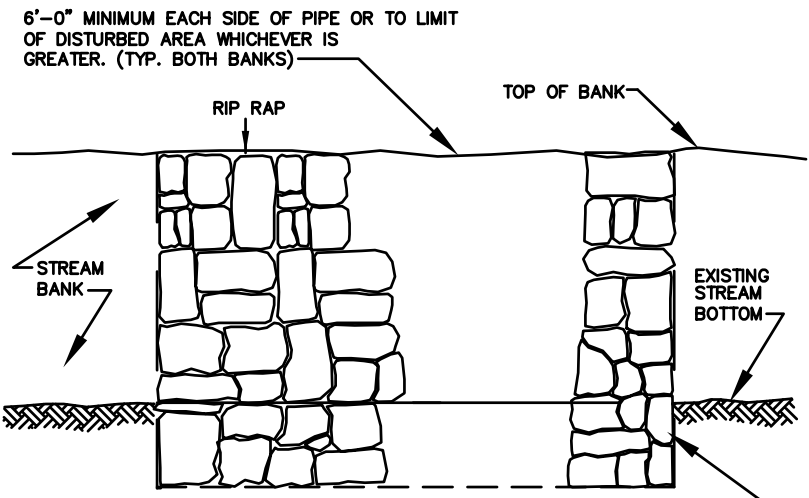
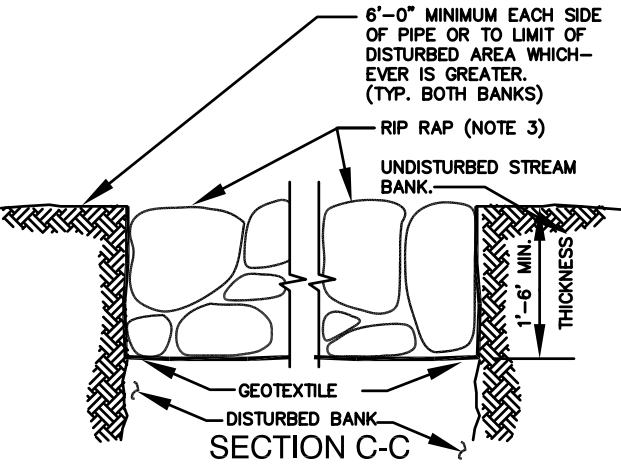
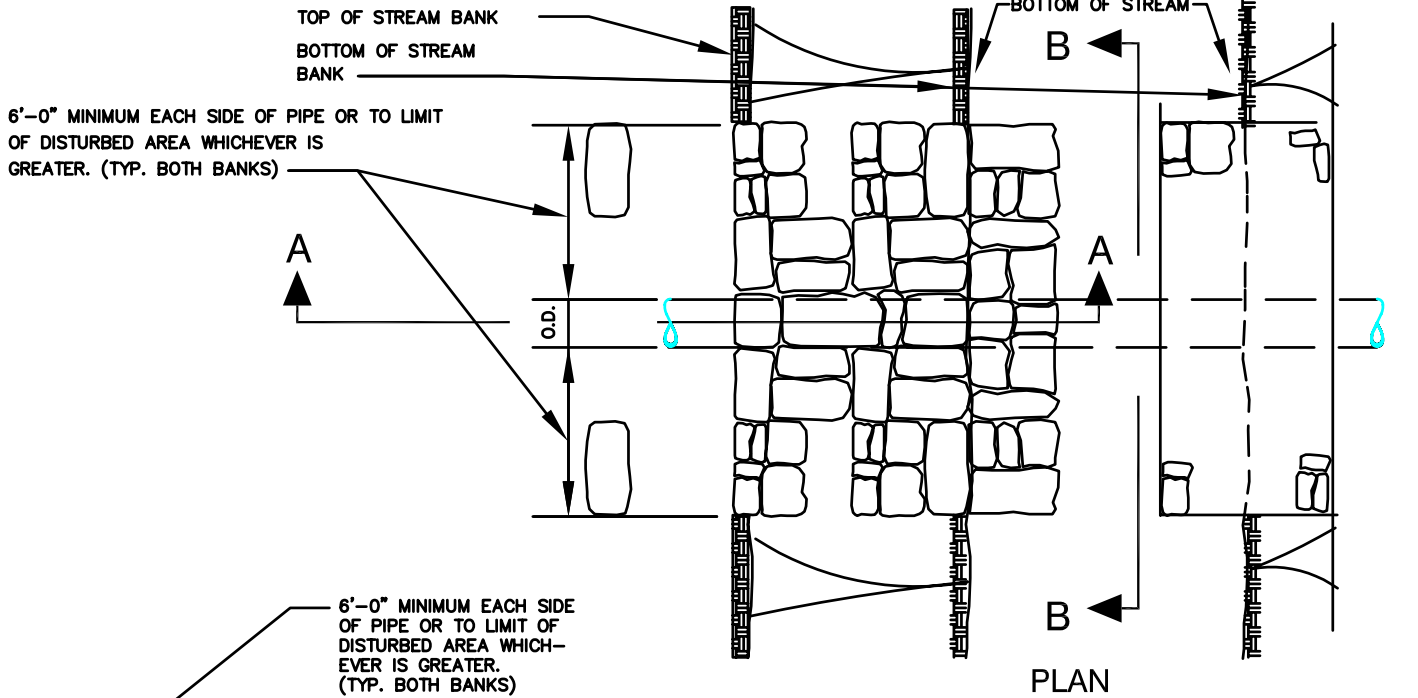
APPROVED: JULY 1, 2005

*Richard R. Huggins*  
Chief Engineer

STANDARD DETAIL

SUPER  
SILT FENCE

SC  
2.0



- NOTES:**
1. USE UNGROUTED CLASS 2 STONE UNLESS OTHERWISE NOTED.
  2. NO RIP RAP SHALL BE PLACED WITHIN 1' CLEAR ABOVE THE TOP OF THE PIPE.
  3. TOP OF THE RIP RAP SHALL BE FLUSH WITH THE EXISTING UNDISTURBED STREAM BANK.

WASHINGTON  
SUBURBAN  
SANITARY  
COMMISSION

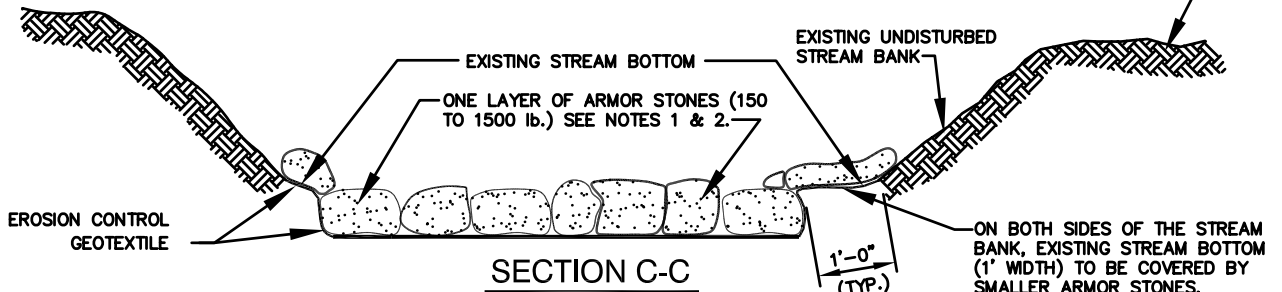
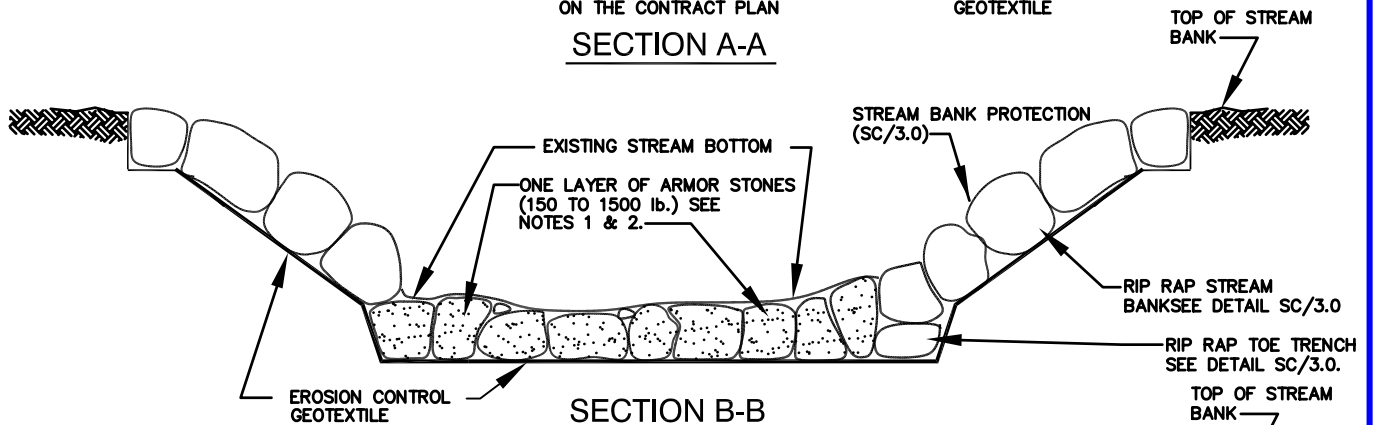
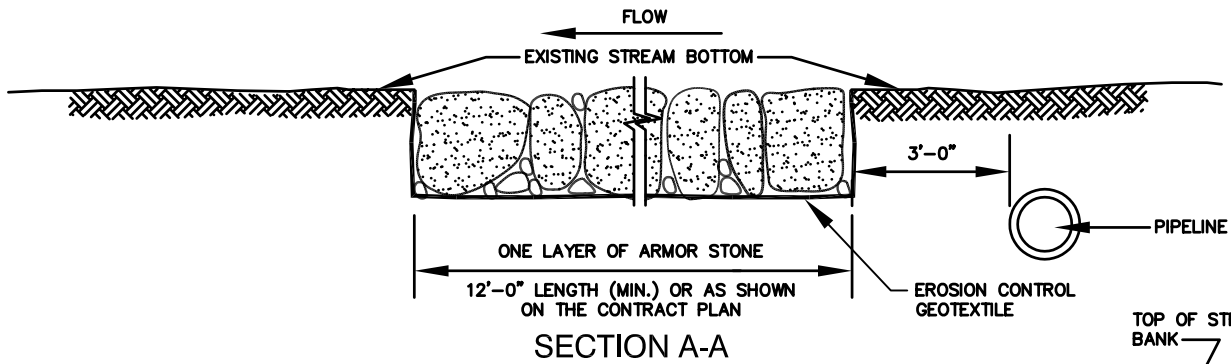
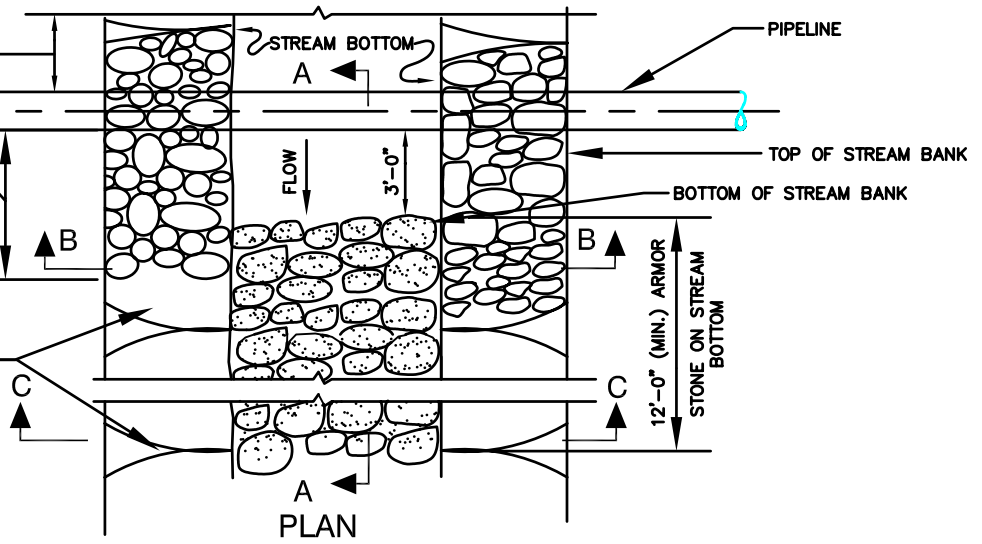
APPROVED: JULY 1, 2005  
*Richard P. Huggins*  
Chief Engineer

STANDARD DETAIL  
STREAM BANK  
PROTECTION AT UTILITY  
STREAM CROSSING

SC  
3.0

STREAM BANK PROTECTION AT UTILITY  
STREAM CROSSING USE DETAIL SC/3.0  
(TYP. BOTH BANKS)

ON EITHER SIDE OF THE STREAM,  
THE CHANNEL BANK SHALL BE  
PROTECTED BY RIP RAP, IF THE  
BANK IS DISTURBED, USE  
SECTION B-B.



**NOTES:**

1. ARMOR STONES SHALL BE PLACED IN A MANNER TO PROVIDE A RELATIVELY EVEN STREAM BOTTOM WITH THE TOP OF STONE AT OR BELOW THE ORIGINAL STREAM BOTTOM.
2. ARMOR STONE SHALL BE REASONABLY WELL-GRADED FROM THE SMALLEST TO THE LARGEST SIZE SPECIFIED.

WASHINGTON  
SUBURBAN  
SANITARY  
COMMISSION

APPROVED: JULY 1, 2005  
*Rafael Rodriguez*  
Chief Engineer

STANDARD DETAIL  
STREAM INVERT  
PROTECTION FOR  
SHALLOW UTILITY  
STREAM CROSSING

SC  
3.1

TOP OF COMPACTED EMBANKMENT MINIMUM 1' ABOVE TOP OF STONE LINING, MAXIMUM 5' ABOVE EXISTING GROUND

TOP OF EMBANKMENT OR EXISTING GROUND

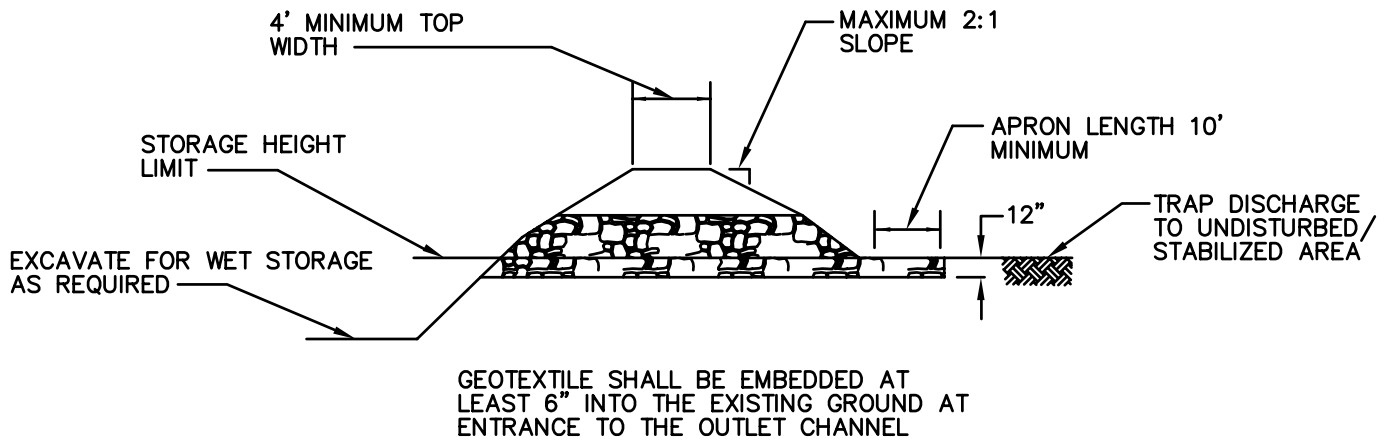
MAXIMUM 2:1 SLOPE

STONE THICKNESS 1' MINIMUM. RIP RAP SIZE 4" TO 12"

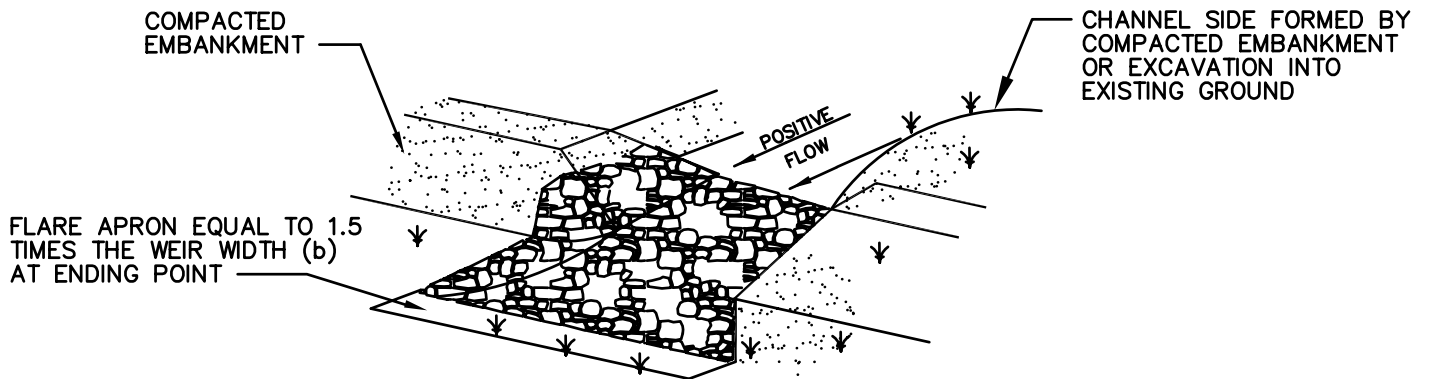
BOTTOM WIDTH OF WEIR (b) MINIMUM DEPTH OF CHANNEL (a)

EROSION CONTROL GEOTEXTILE

CROSS SECTION



PROFILE



ROST

PERSPECTIVE

WASHINGTON  
SUBURBAN  
SANITARY  
COMMISSION

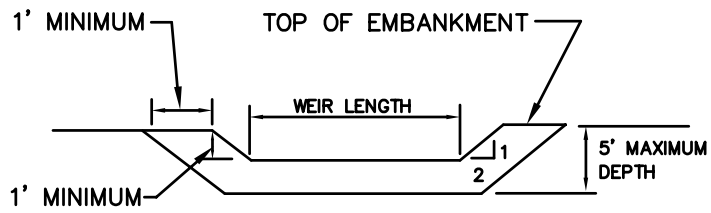
APPROVED: JULY 1, 2005

*Ricardo Rodriguez*  
Chief Engineer

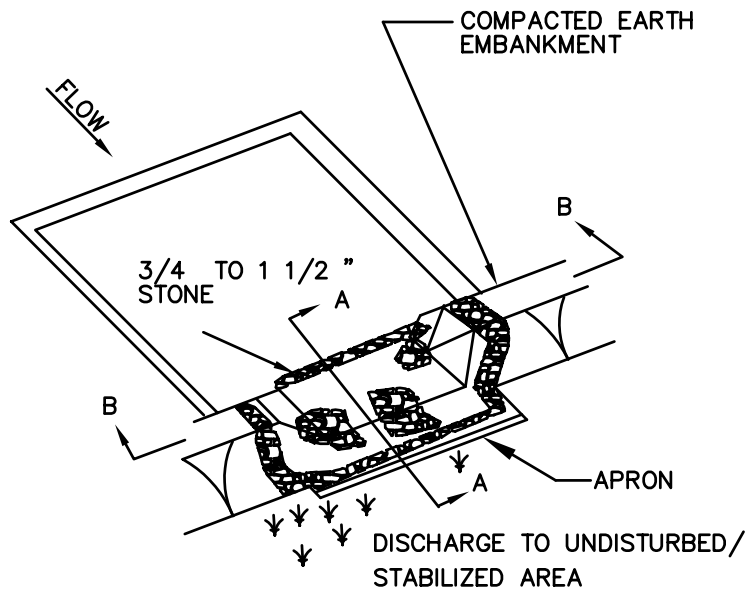
STANDARD DETAIL

RIPRAP OUTLET  
SEDIMENT  
TRAP

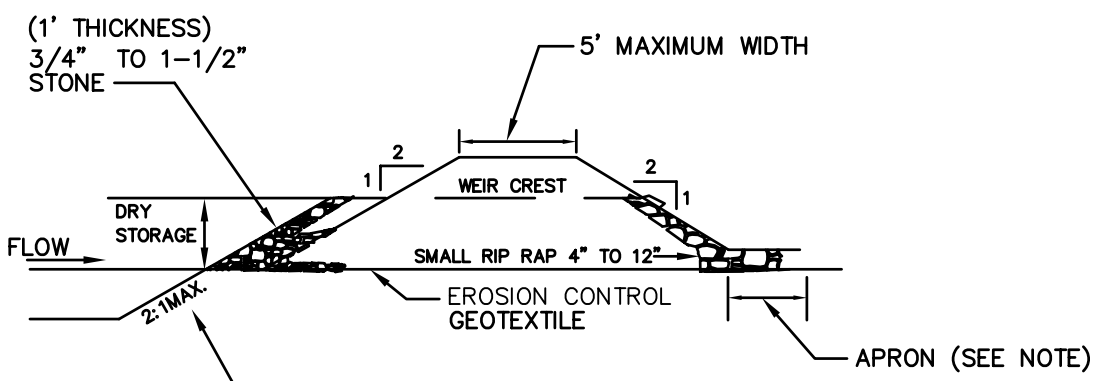
SC  
4.0



SECTION B-B



PERSPECTIVE VIEW



SECTION A-A

NOTE: 5' MINIMUM LENGTH UP TO 5 ACRES. OVER 5 ACRES USE 10' MIN.

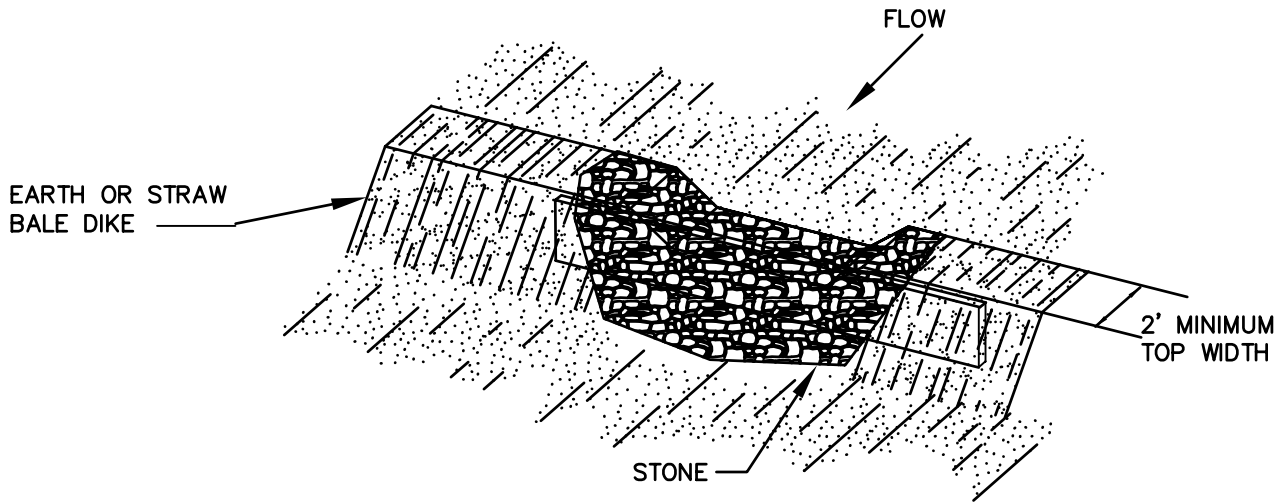
SOST

WASHINGTON  
SUBURBAN  
SANITARY  
COMMISSION

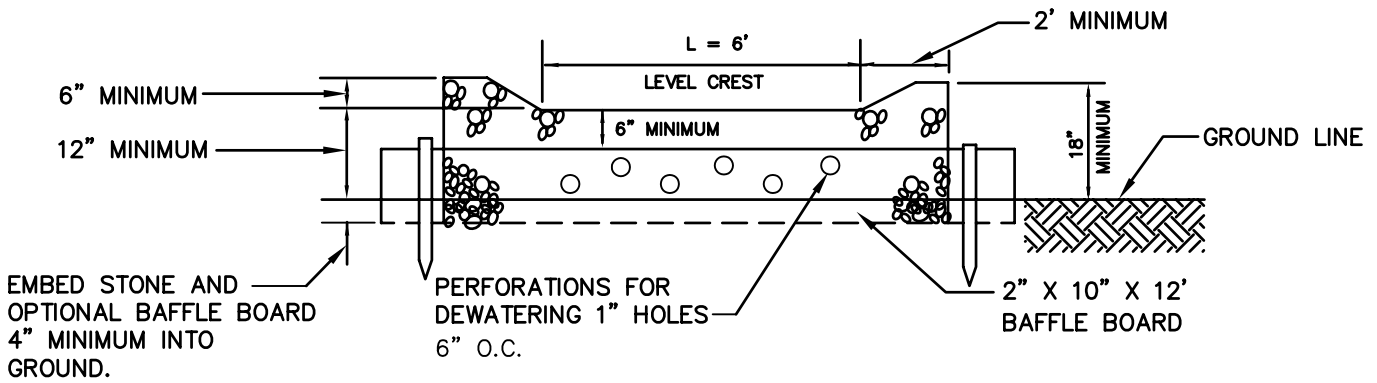
APPROVED: JULY 1, 2005  
*Richard R. Huggins*  
Chief Engineer

STANDARD DETAIL  
STONE OUTLET  
SEDIMENT TRAP

SC  
5.0



PERSPECTIVE VIEW



CROSS SECTION

SOS

WASHINGTON  
SUBURBAN  
SANITARY  
COMMISSION

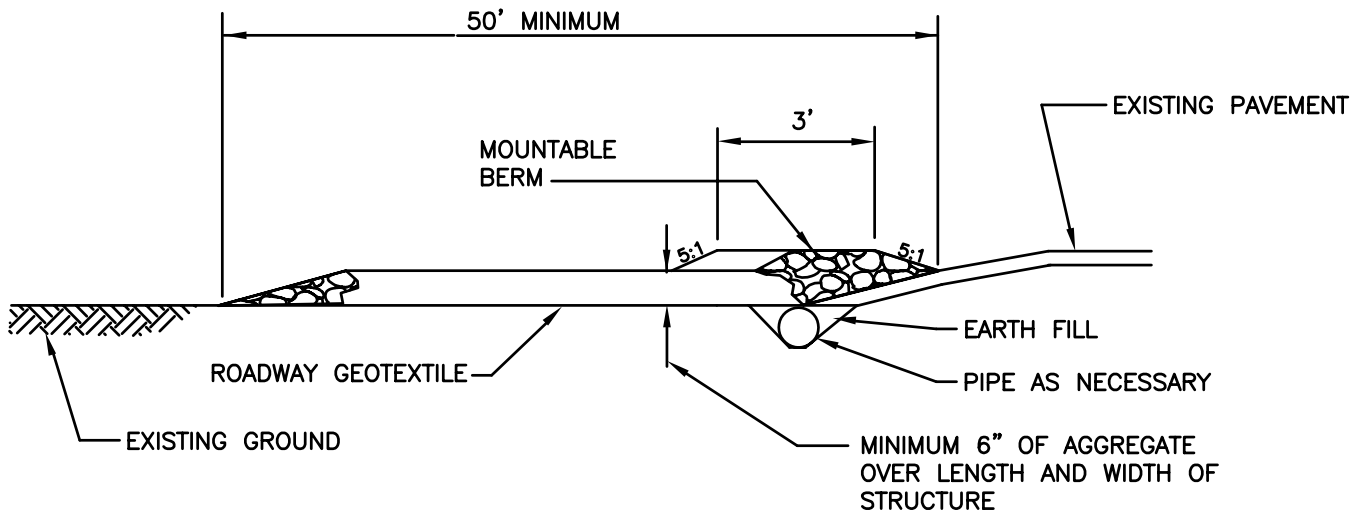
APPROVED: JULY 1, 2005

*Ricardo R. Hernandez*  
Chief Engineer

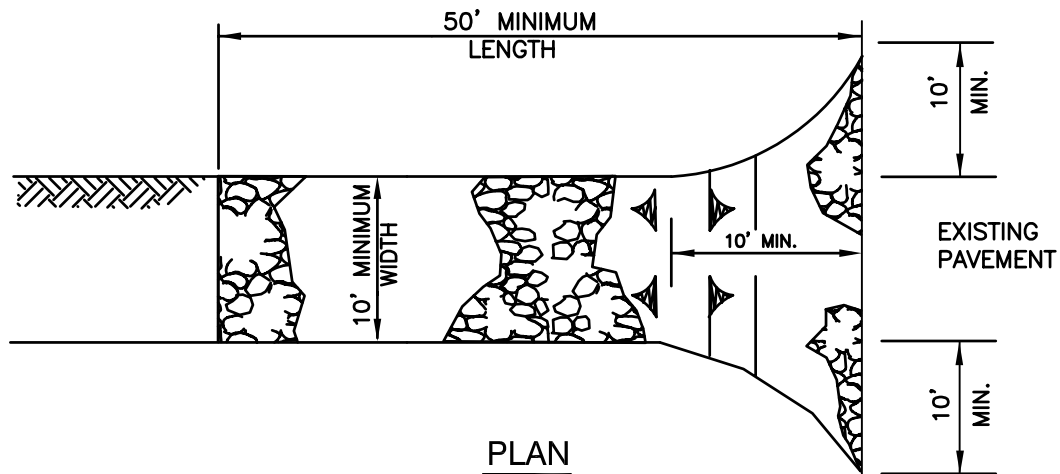
STANDARD DETAIL  
STONE OUTLET  
STRUCTURE

SC  
6.0

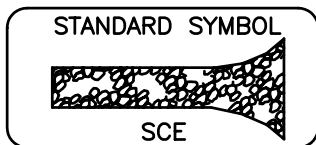




PROFILE



PLAN



WASHINGTON  
SUBURBAN  
SANITARY  
COMMISSION

APPROVED: JULY 1, 2005

*Rafael Rodriguez*  
Chief Engineer

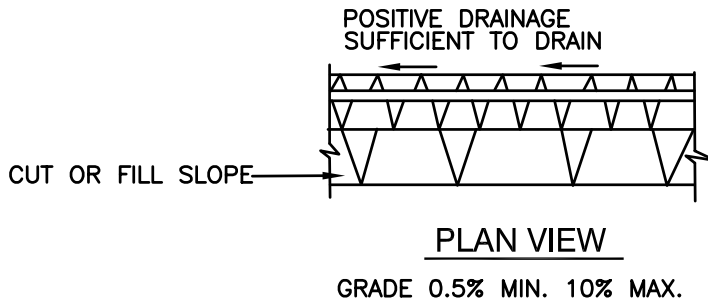
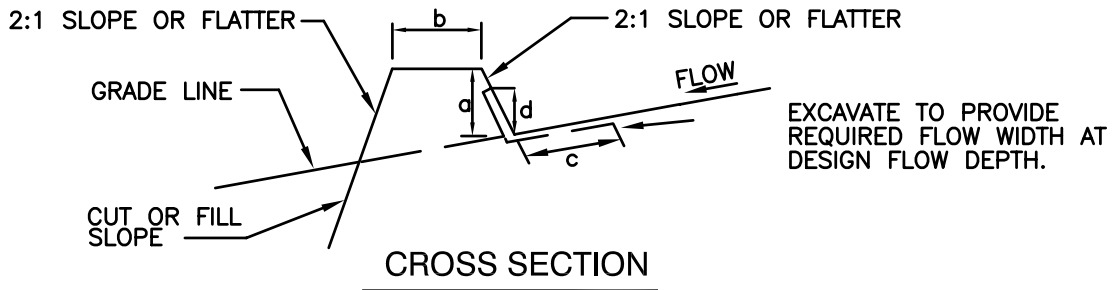
STANDARD DETAIL

STABILIZED  
CONSTRUCTION  
ENTRANCE

SC  
7.0

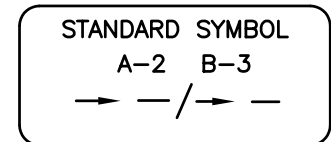
STABILIZATION AS REQUIRED.

	DIKE A (5AC OR LESS)	DIKE B (5-10AC)
a-DIKE HEIGHT	18"	30"
b-DIKE WIDTH	24"	36"
c-FLOW WIDTH	4'	6'
d-FLOW DEPTH	12"	24"

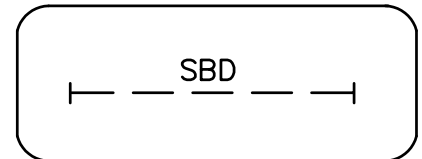
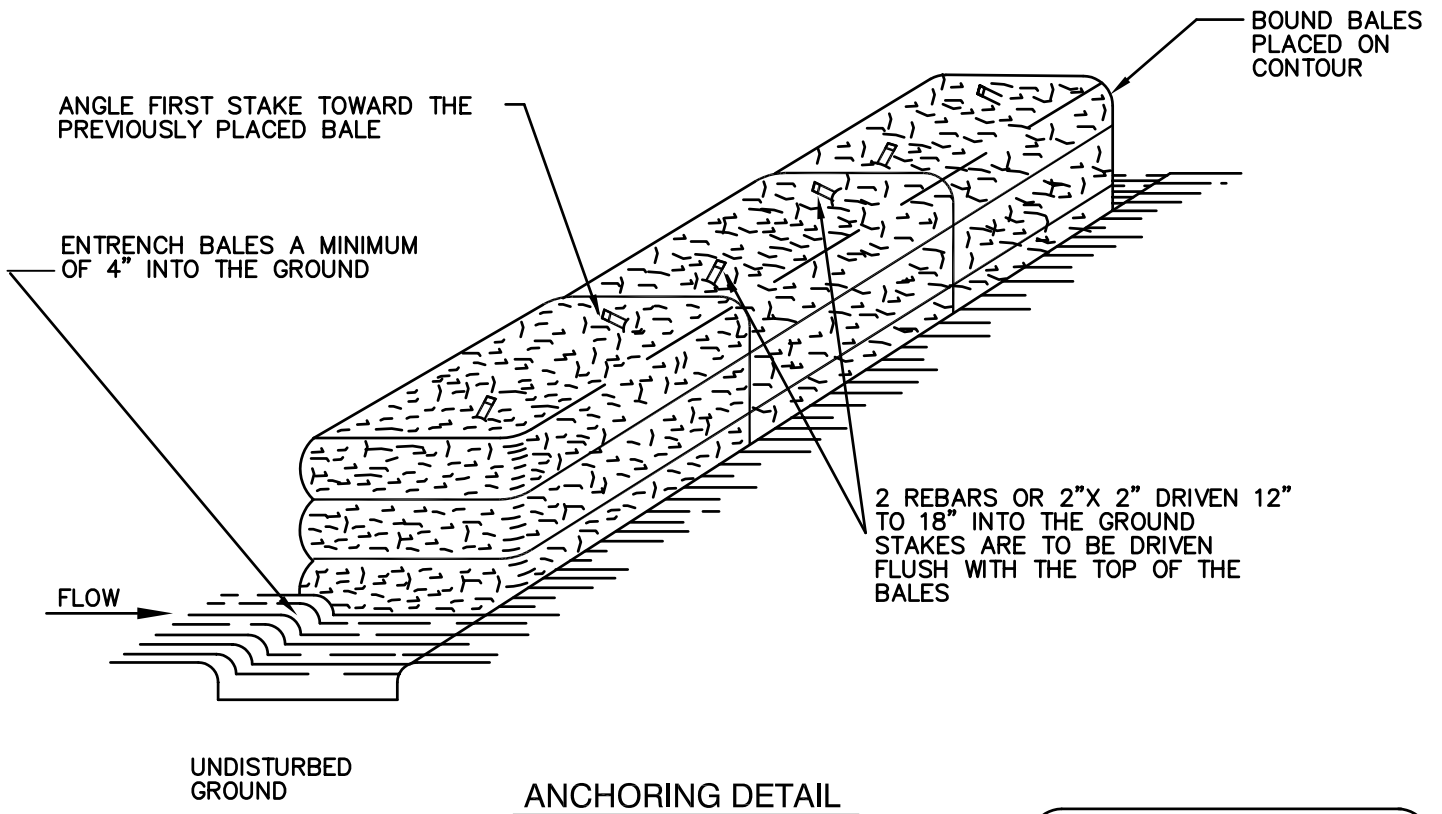
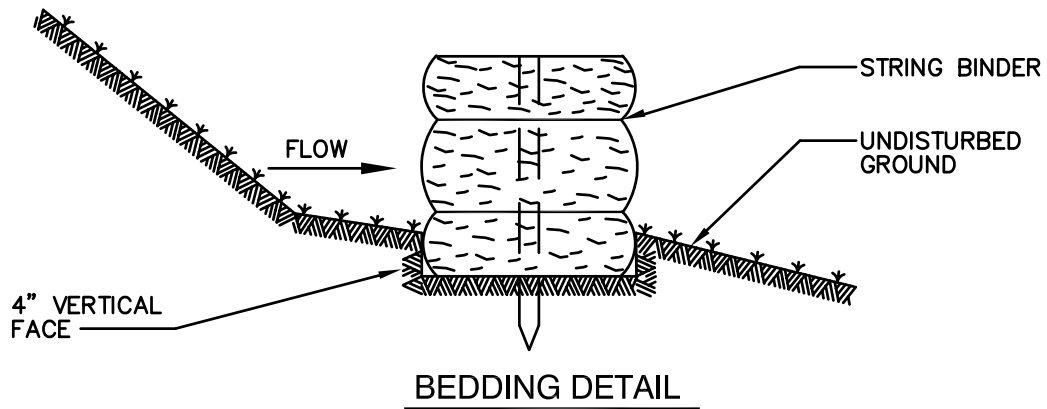


FLOW CHANNEL STABILIZATION

1. SEED AND COVER WITH STRAW MULCH.
2. SEED AND COVER WITH EROSION CONTROL MATTING OR LINE WITH SOD.
3. LINE WITH EROSION CONTROL GEOTEXTILE AND CLASS I RIP-RAP OR RECYCLED CONCRETE EQUIVALENT.
4. (TYPE B ONLY) LINE WITH EROSION CONTROL GEOTEXTILE AND CLASS II RIP-RAP.



WASHINGTON SUBURBAN SANITARY COMMISSION	APPROVED: <u>      JULY 1, 2005      </u>   Chief Engineer	STANDARD DETAIL  EARTH DIKE	<div style="border-bottom: 1px solid black; display: inline-block; width: 80%;"></div> SC 8.0
--	---	-----------------------------------	---



WASHINGTON  
SUBURBAN  
SANITARY  
COMMISSION

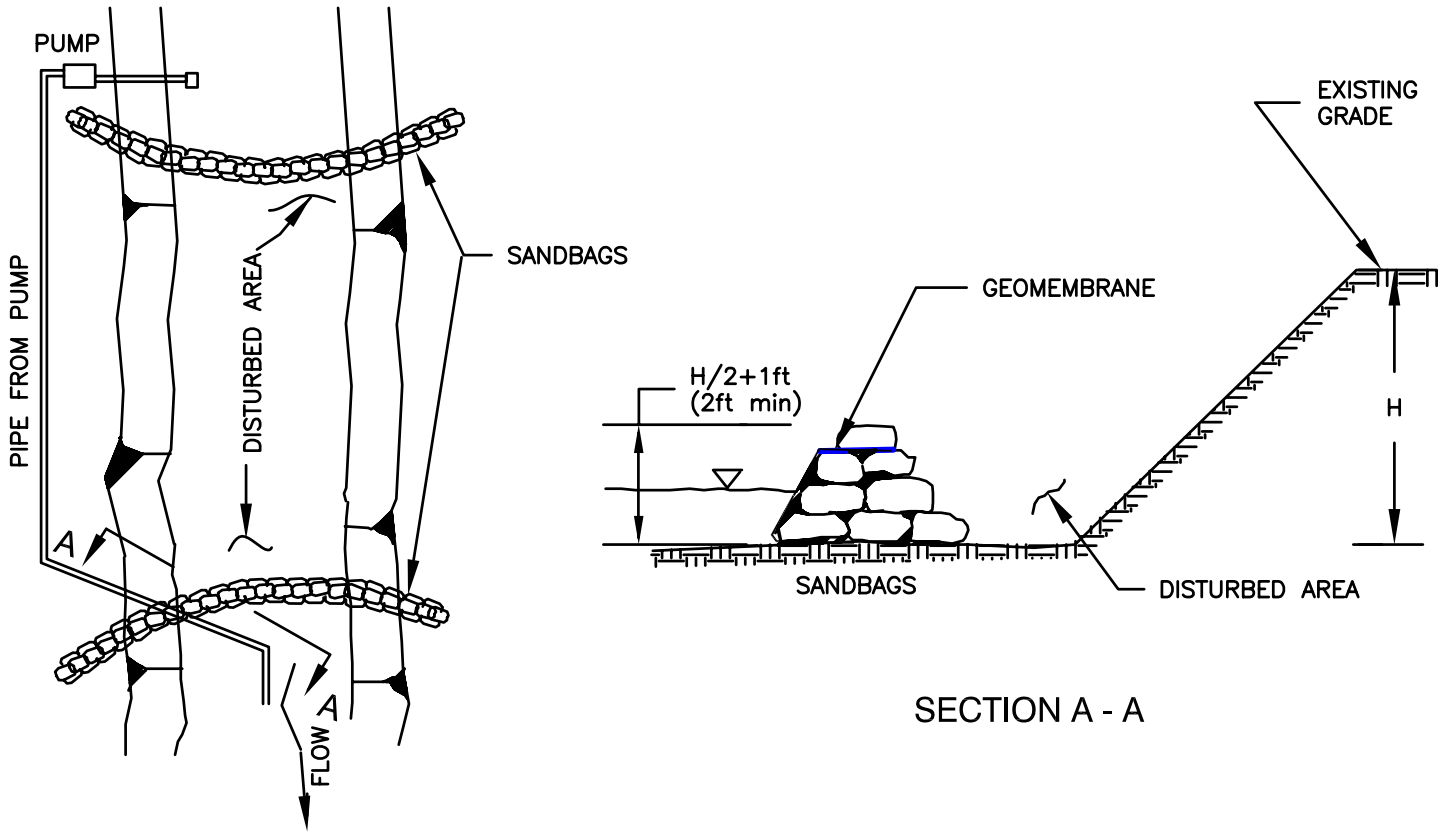
APPROVED: JULY 1, 2005

*Ricardo Rodriguez*  
Chief Engineer

STANDARD DETAIL

STRAW BALE DIKE

SC  
9.0



PLAN VIEW

SECTION A - A

I. DESCRIPTION

THE WORK SHALL CONSIST OF INSTALLING A PUMP AROUND WHEN CONSTRUCTION ACTIVITIES TAKE PLACE WITHIN THE STREAM CHANNEL.

II. MATERIAL SPECIFICATIONS

SANDBAGS: SANDBAGS SHALL CONSIST OF MATERIALS WHICH ARE RESISTANT TO ULTRAVIOLET RADIATION, TEARING AND PUNCTURE, AND WOVEN TIGHTLY ENOUGH TO PREVENT LEAKAGE OF FILL MATERIAL (i.e., SAND, FINE GRAVEL ETC.).

III. CONSTRUCTION REQUIREMENTS

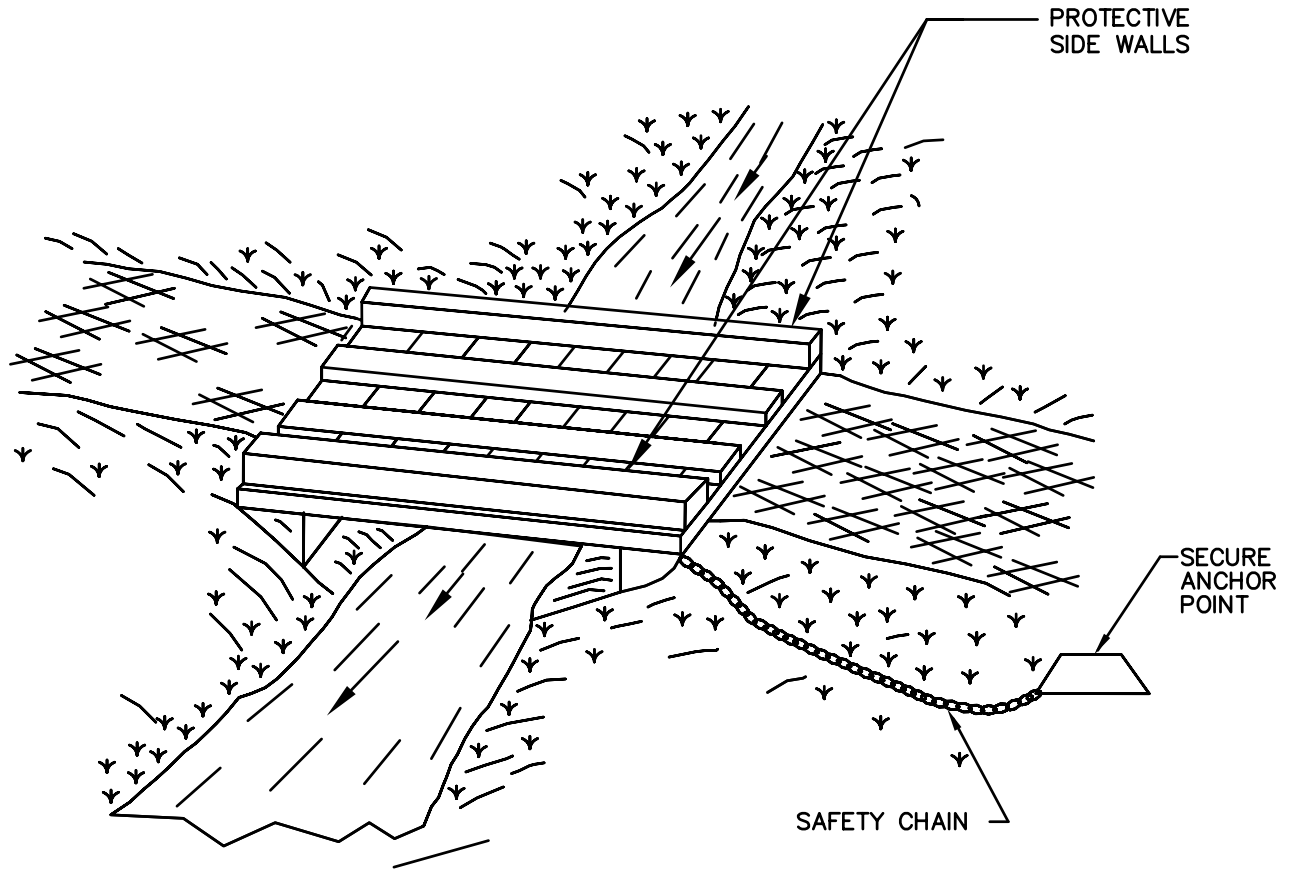
1. ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED AS THE FIRST ORDER OF WORK.
2. THE HEIGHT OF THE SANDBAGS SHALL BE AS INDICATED IN SECTION A-A. THE SANDBAGS SHALL BE PLACED ON A SMOOTH PREPARED SURFACE.
3. ALL EXCAVATED MATERIALS SHALL BE DISPOSED OFF OUTSIDE THE 100 YEAR FLOOD PLAIN UNLESS APPROVED ON THE PLANS BY THE WRA.
4. ALL DEWATERING OF THE CONSTRUCTION AREA SHALL BE PUMPED TO A WRA APPROVED DEVICE.
5. THE PUMP SHALL BE OF SUFFICIENT SIZE TO CONVEY NORMAL STREAM FLOW.
6. SEDIMENT CONTROL DEVICES ARE TO REMAIN IN PLACE UNTIL ALL DISTURBED AREAS ARE STABILIZED AND THE INSPECTING AUTHORITY APPROVES THEIR REMOVAL.

WASHINGTON  
SUBURBAN  
SANITARY  
COMMISSION

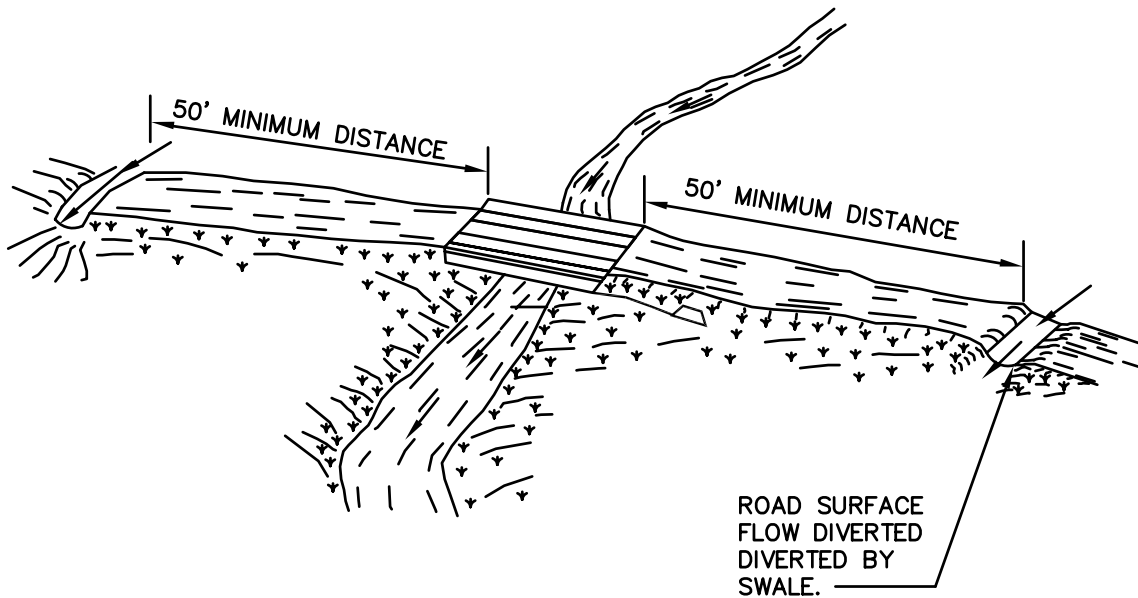
APPROVED: July 1, 2005  
*Rick P. Huggins*  
Chief Engineer

STANDARD DETAIL  
PUMP AROUND

SC  
10.0



PERSPECTIVE VIEW



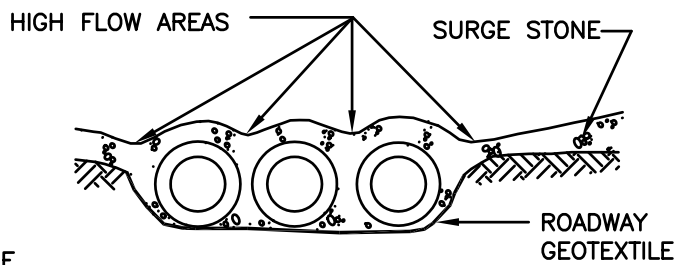
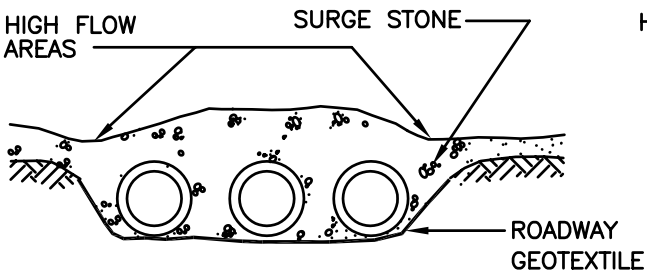
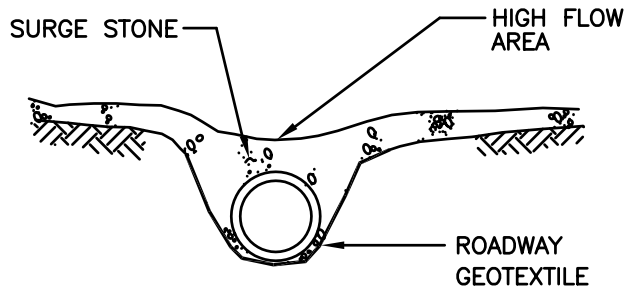
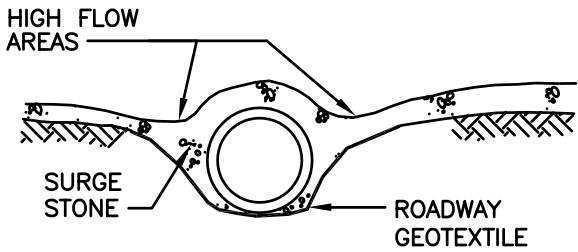
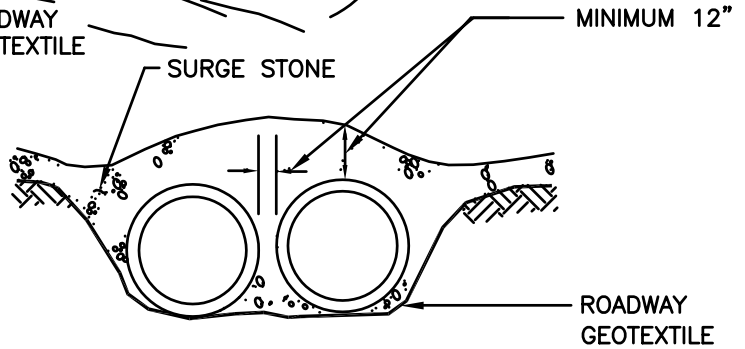
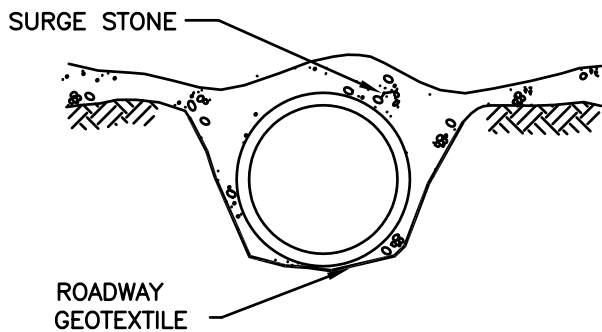
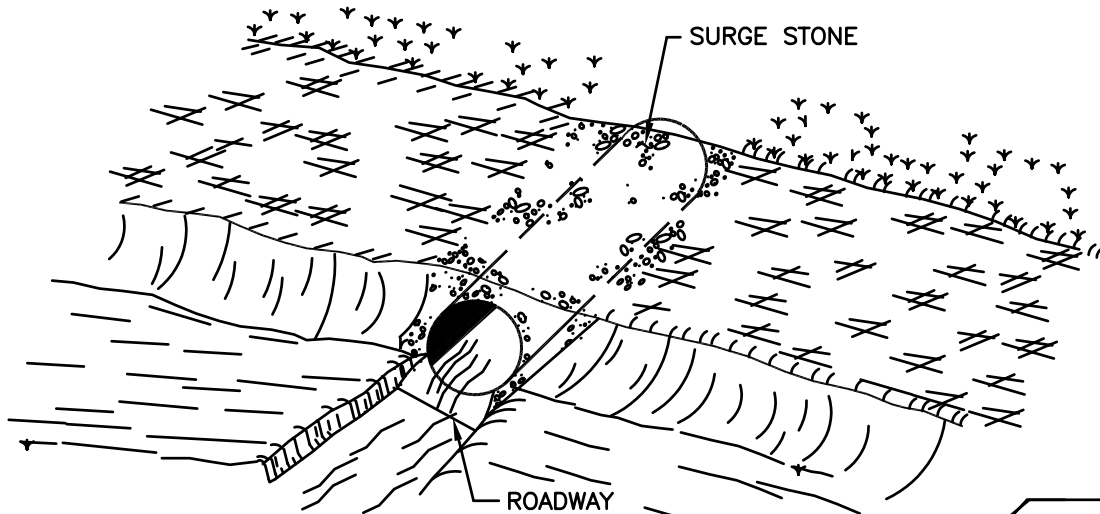
NOTE:  
FOR BRIDGE REQUIREMENTS, SEE SPECIFICATIONS.

WASHINGTON  
SUBURBAN  
SANITARY  
COMMISSION

APPROVED: JULY 1, 2005  
*Ricardo Rodriguez*  
Chief Engineer

STANDARD DETAIL  
TEMPORARY  
ACCESS BRIDGE

SC  
11.0



MULTIPLE PIPES

MULTIPLE PIPES

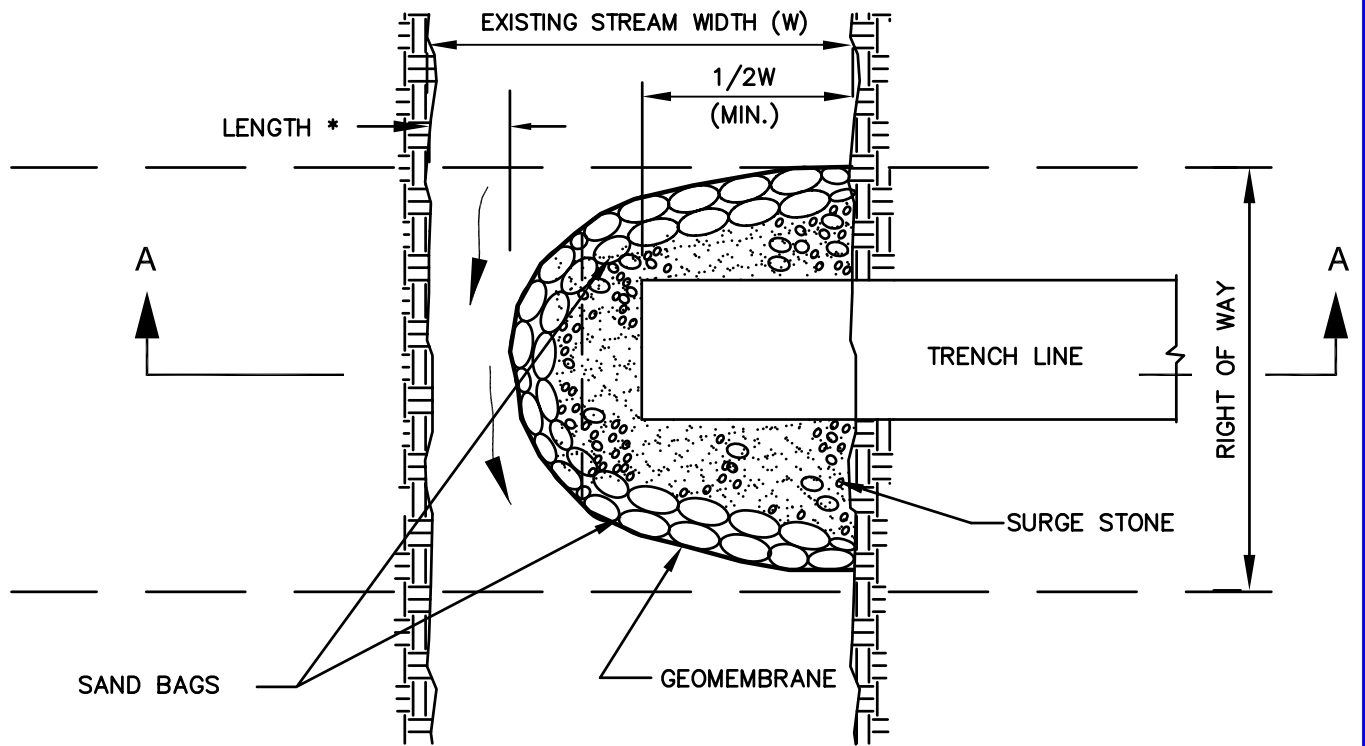
WASHINGTON  
SUBURBAN  
SANITARY  
COMMISSION

APPROVED: JULY 1, 2005

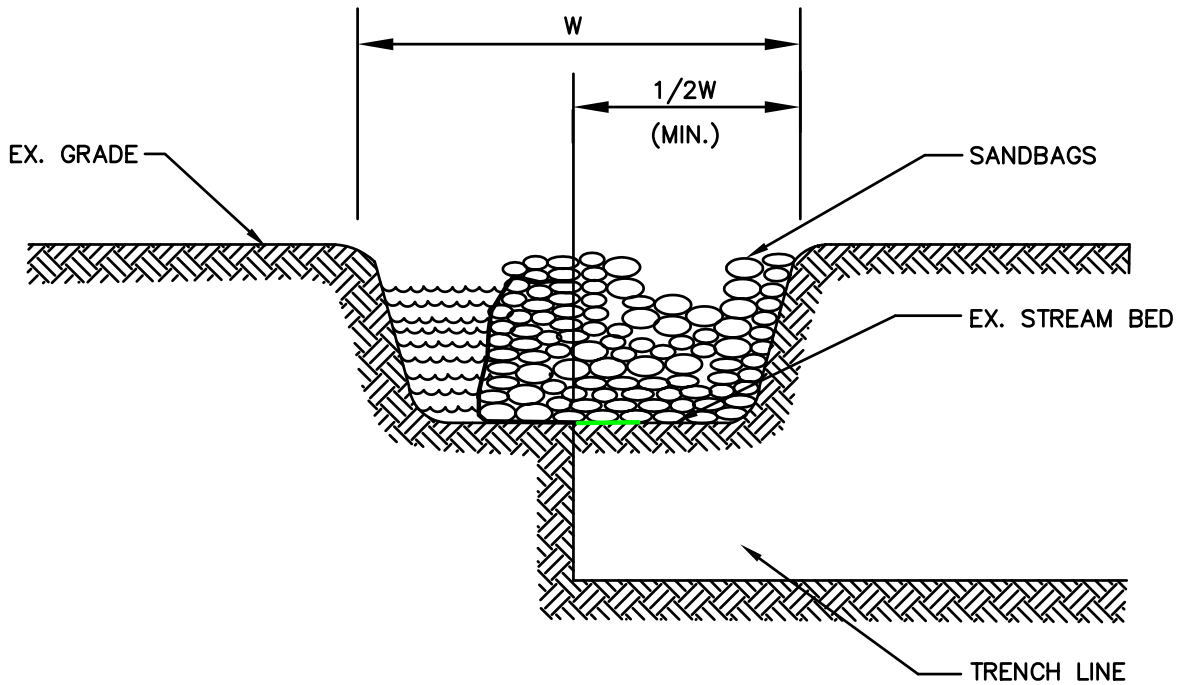
*Rafael Rodriguez*  
Chief Engineer

STANDARD DETAIL  
TEMPORARY  
ACCESS CULVERT

SC  
12.0



PLAN



SECTION A-A

\* MINIMUM LENGTH TO BE 25% OF THE TOTAL WIDTH (W) OF THE STREAM.

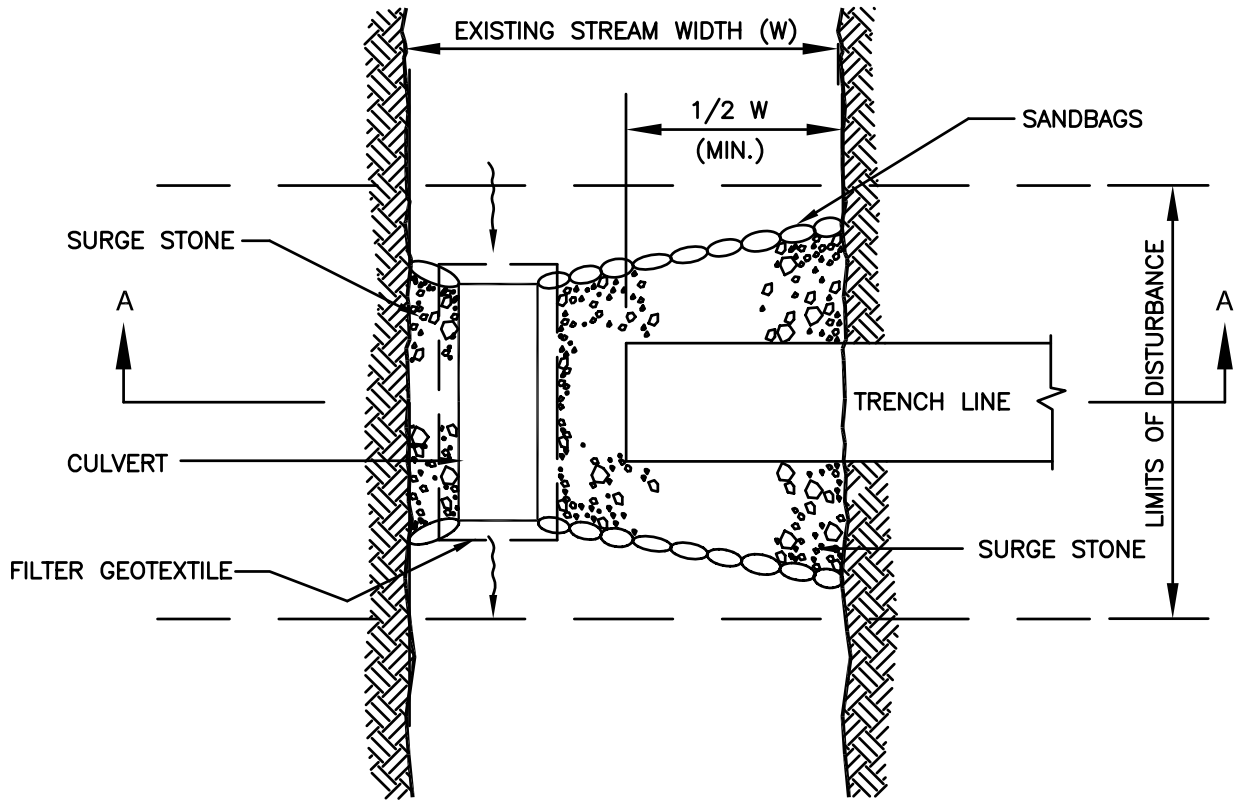
WASHINGTON  
SUBURBAN  
SANITARY  
COMMISSION

APPROVED: JULY 1, 2005  
*Ricardo Rodriguez*  
Chief Engineer

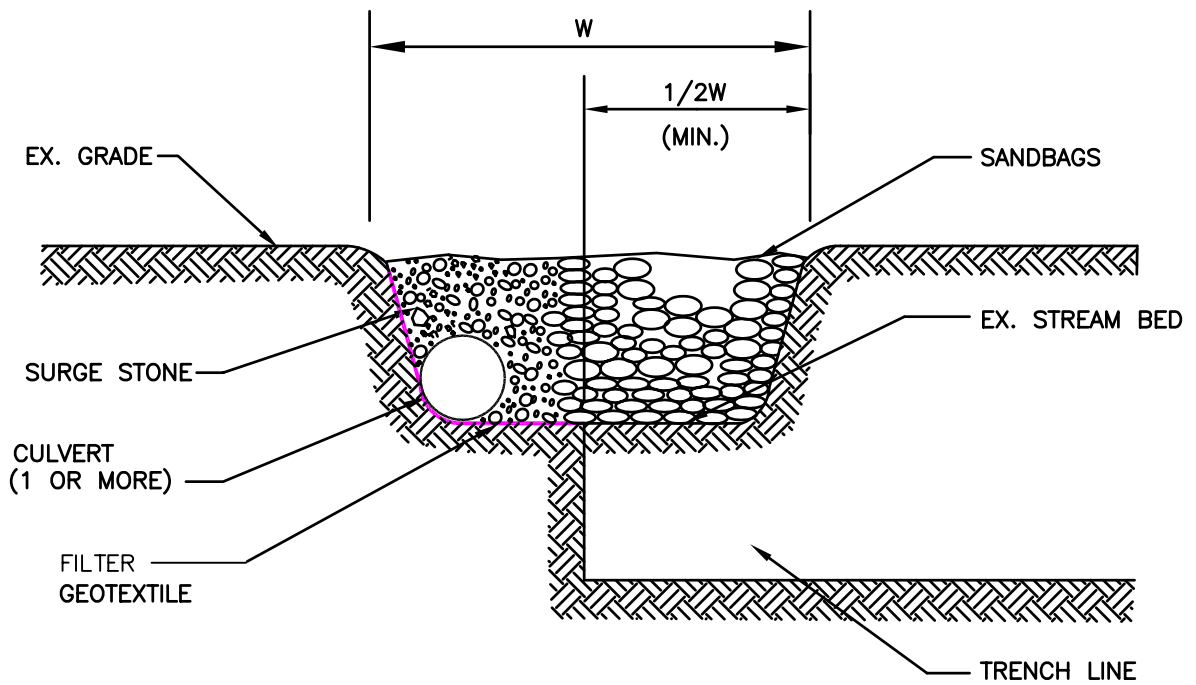
STANDARD DETAIL

OPEN  
DIVERSION

SC  
13.0



PLAN



SECTION A-A

WASHINGTON  
SUBURBAN  
SANITARY  
COMMISSION

APPROVED: JULY 1, 2005  
*Ricardo Rodriguez*  
Chief Engineer

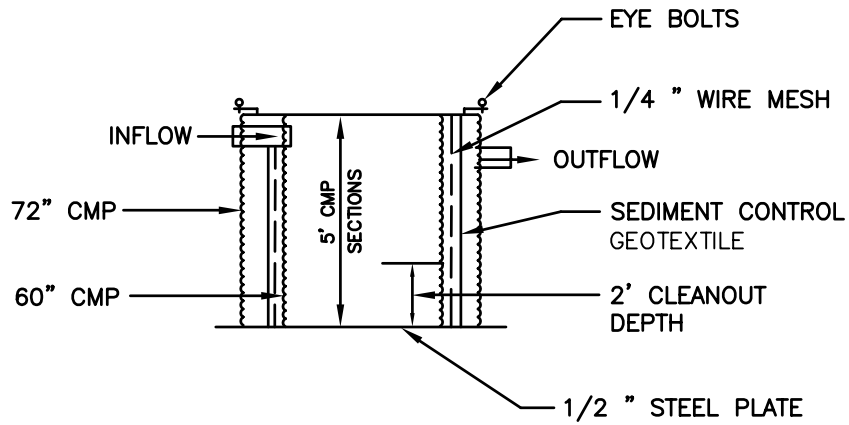
STANDARD DETAIL

CULVERT  
DIVERSION

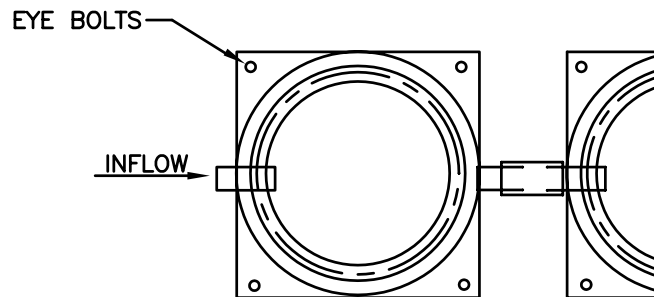
SC  
14.0



PERFORATE 60" CMP  
WITH 1" HOLES AT  
6" ON CENTER



ELEVATION



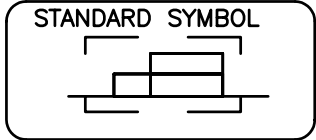
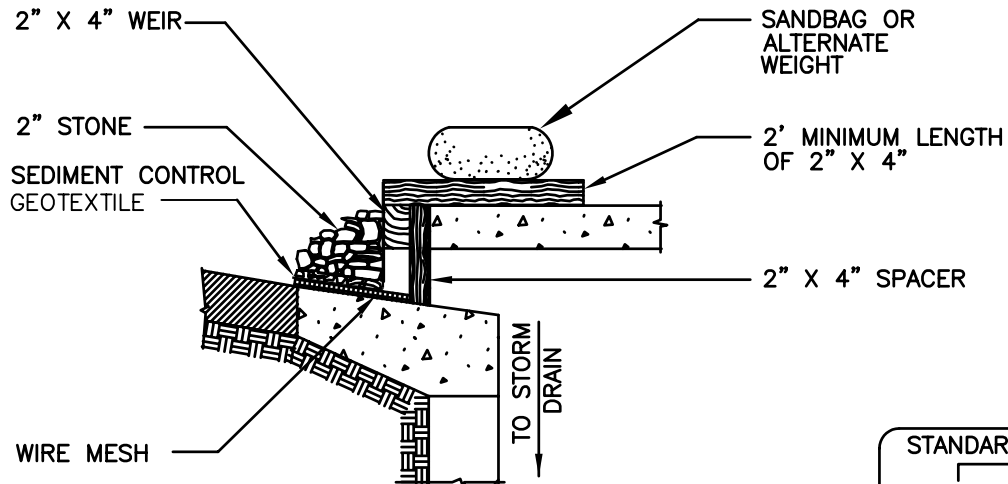
PLAN

WASHINGTON  
SUBURBAN  
SANITARY  
COMMISSION

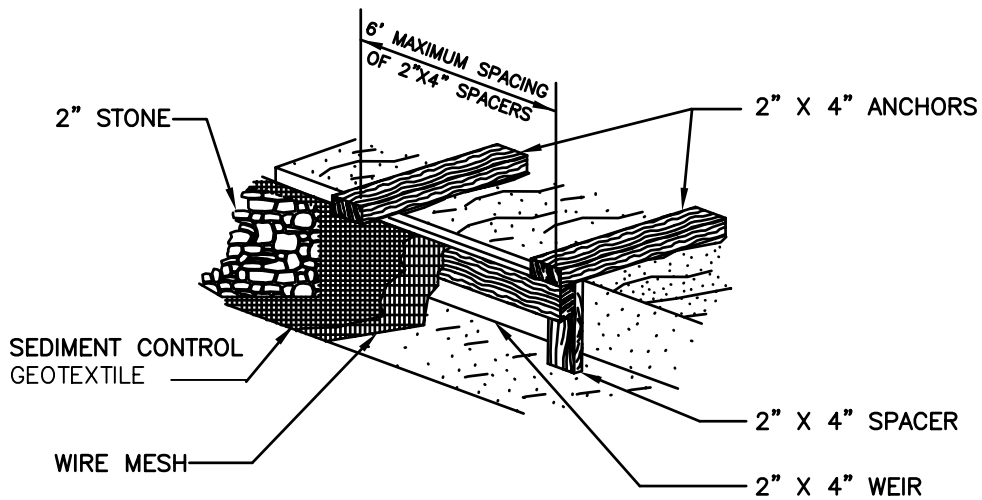
APPROVED: JULY 1, 2005  
*Ricardo Hernandez*  
Chief Engineer

STANDARD DETAIL  
PORTABLE  
SEDIMENT TANK

SC  
15.0



CROSS SECTION



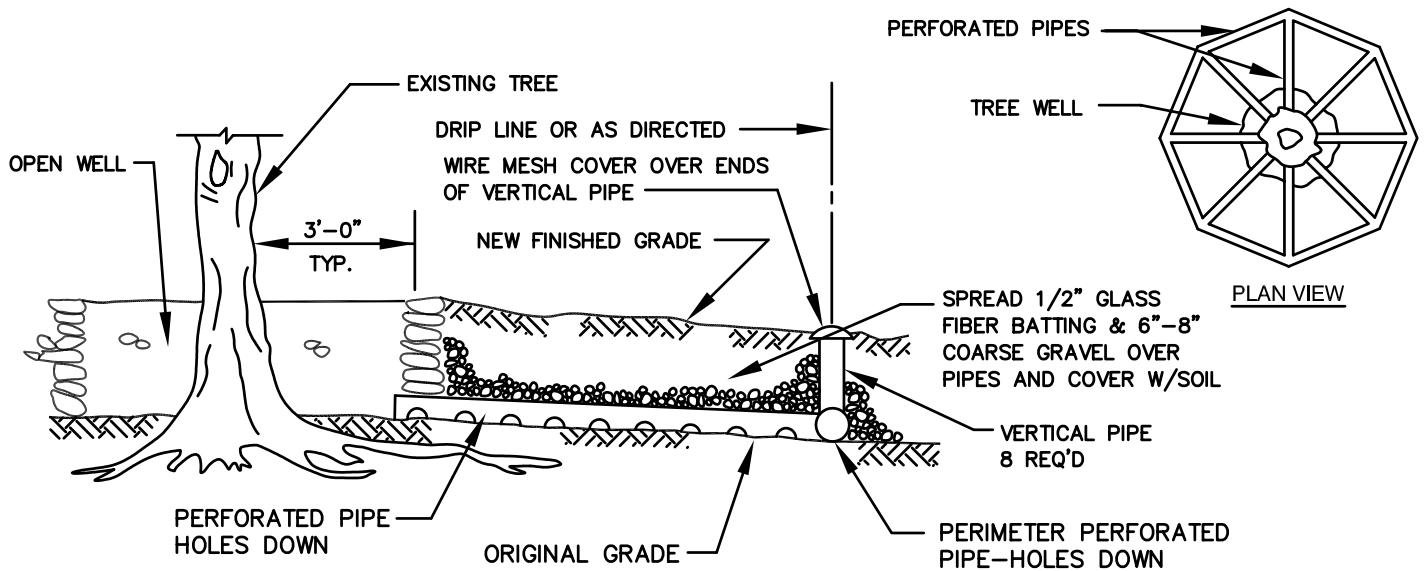
PERSPECTIVE VIEW

WASHINGTON  
SUBURBAN  
SANITARY  
COMMISSION

APPROVED: JULY 1, 2005  
*Ricardo Hernandez*  
Chief Engineer

STANDARD DETAIL  
CURB INLET  
PROTECTION DETAIL

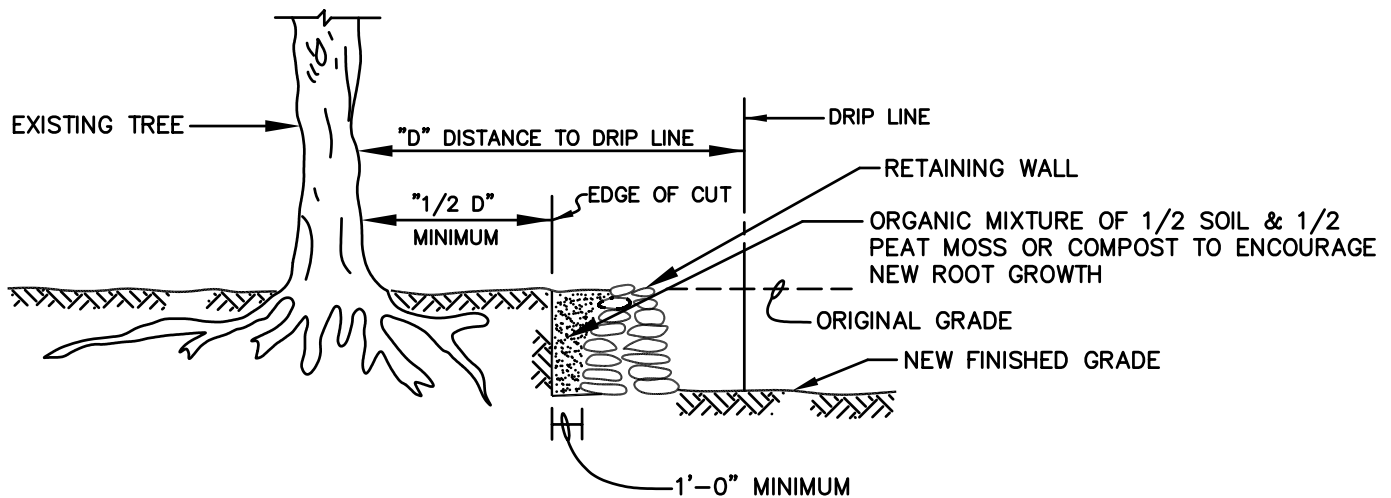
SC  
16.0



PERMANENT TREE PROTECTION DETAIL (TREE WELL)

(WHEN FINISHED GRADE IS 1'-0" OR MORE ABOVE EXISTING GRADE)

NOTE: WELL TO BE CONSTRUCTED OF STONE OR BRICK(ALL HEADERS). IF BRICK IS USED, VERTICAL JOINTS TO BE LEFT OPEN FOR DRAINAGE 1/2" MAXIMUM INSIDE FACE OF WALL.

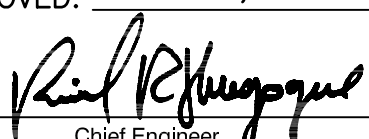


PERMANENT TREE PROTECTION DETAIL(GROUND LOWERING)

(WHEN FINISHED GRADE IS GREATER THAN 6" BELOW EXISTING GRADE)

NOTE: (1) PRUNE BRANCHES OF TREE AS REQUIRED TO COMPENSATE FOR LOST ROOTS.  
 (2) IF MORTAR USED IN WALL CONSTRUCTION PROVIDE 1"  $\phi$  WEEP HOLES 2'-0" c/c BASE OF WALL.

WASHINGTON  
SUBURBAN  
SANITARY  
COMMISSION

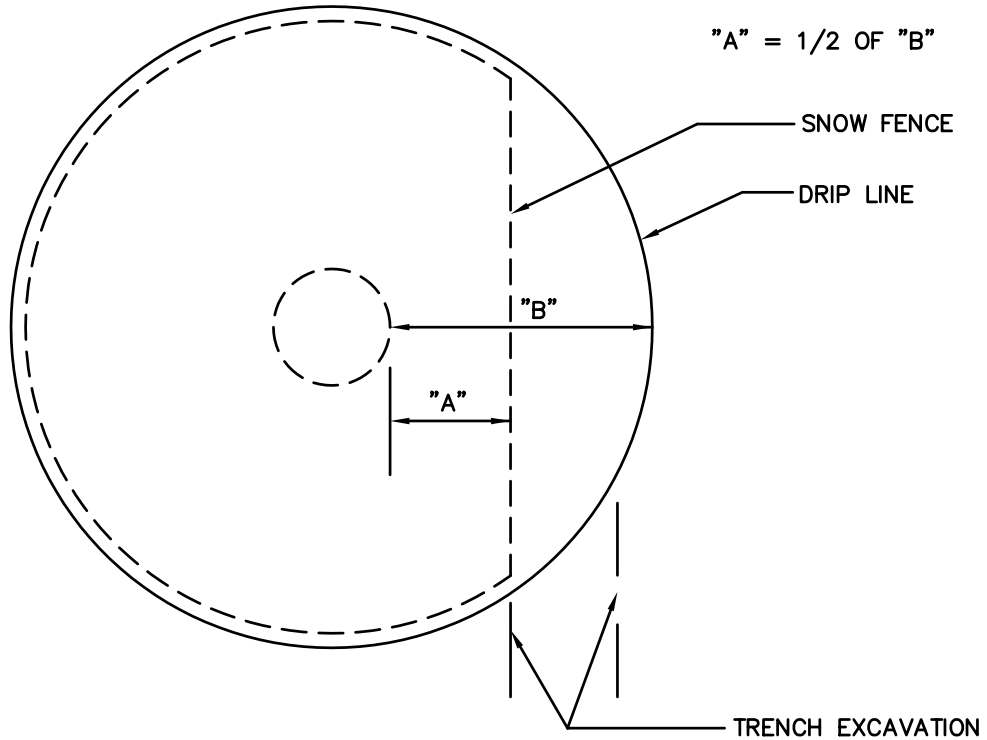
APPROVED: JULY 1, 2005  
  
 Chief Engineer

STANDARD DETAIL  
 TREE PROTECTION  
 DETAILS

SC  
 17.0

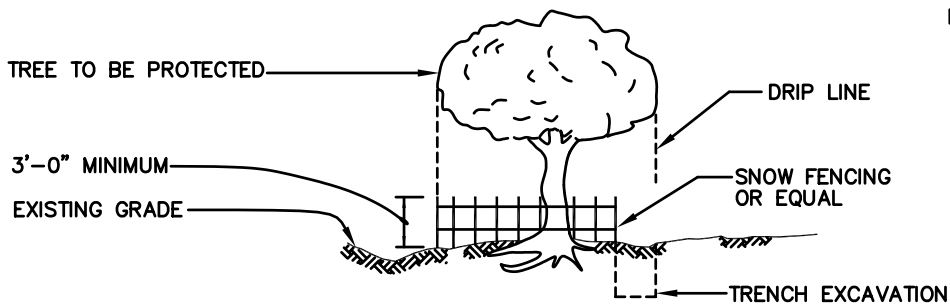
"B" = DISTANCE OF DRIP LINE  
EDGE FROM TRUNK  
OF TREE.

"A" = 1/2 OF "B"



TEMPORARY TREE PROTECTION (PLAN)

NOTE: FENCING SHALL BE PLACED AT THE DRIP LINE OF TREES TO BE PROTECTED DURING CONSTRUCTION EXCEPT ON THE SIDE OF THE UTILITY TRENCHING. FENCING SHALL NOT BE PLACED CLOSER TO THE TREE THAN 1/2 THE TOTAL DISTANCE FROM THE TREE TO THE LIMITS OF THE TREE'S DRIP LINE. THIS SPACE IS TO ACCOMMODATE TRENCHING ONLY AND NOT TO ALLOW ADDITIONAL WORKING SPACE.




NOTE:

(1) GROUPS OF TREES MAY  
BE FENCED AS ONE.

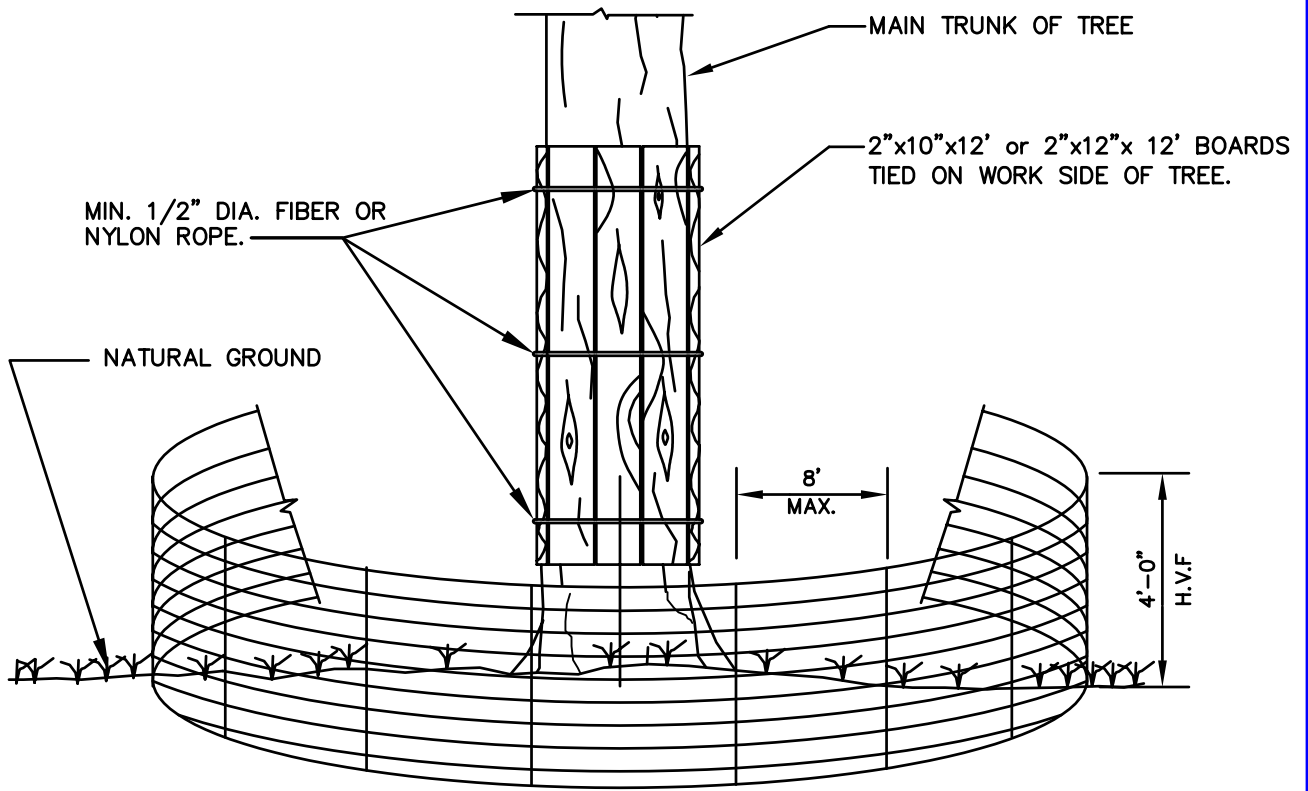
TEMPORARY TREE PROTECTION DETAIL

WASHINGTON  
SUBURBAN  
SANITARY  
COMMISSION

APPROVED: JULY 1, 2005  
  
Chief Engineer

STANDARD DETAIL  
TREE PROTECTION  
DETAILS

SC  
18.0



## SPECIAL TREE PROTECTION DETAIL

**NOTES:**

1. TIE WITH 1/2" DIAMETER ROPE (FIBER OR NYLON), SUFFICIENT 2"x10"x12' OR 2"x12"x12' BOARDS AROUND MAIN TRUNK OR TREE TO PROTECT ALL AREAS EXPOSED TO CONSTRUCTION.
2. ADDITIONAL HIGH VISIBILITY FENCE (H.V.F.) WILL BE PLACED 5' FROM THE TRUNK WHERE SILT FENCE IS NOT SPECIFIED.
3. SILT FENCE IS ONLY TO BE INSTALLED ON THE TRENCH SIDE OF TREES.
4. H.V.F FENCE POST MUST BE INSTALLED TO A DEPTH OF NO LESS THAN 1/3 OF THE POST HEIGHT.

STP

WASHINGTON  
SUBURBAN  
SANITARY  
COMMISSION

APPROVED:       JULY 1, 2005        
*Rhinal R. Huopanen*  
Chief Engineer

STANDARD DETAIL  
SPECIAL TREE  
PROTECTION

SC  
19.0