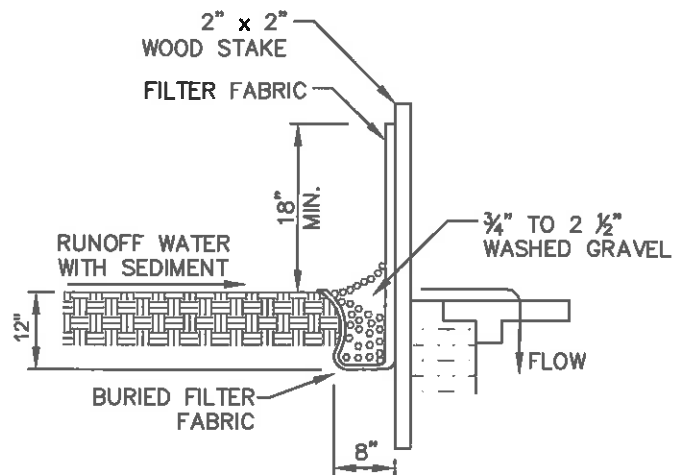
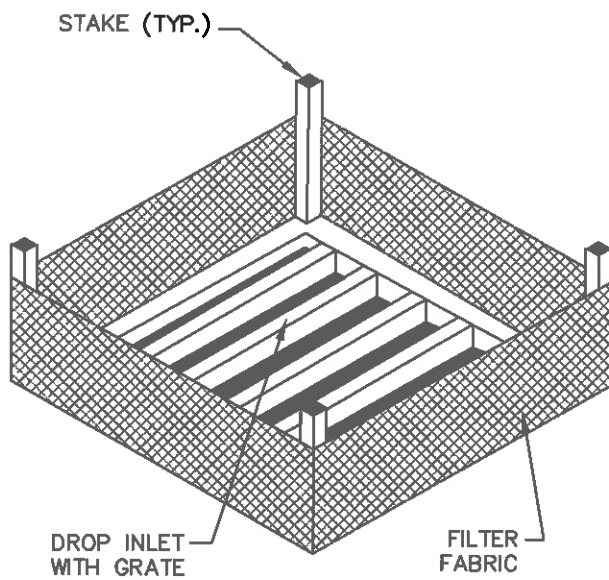



SECTION C

EROSION AND SEDIMENT CONTROL PLAN DETAILS

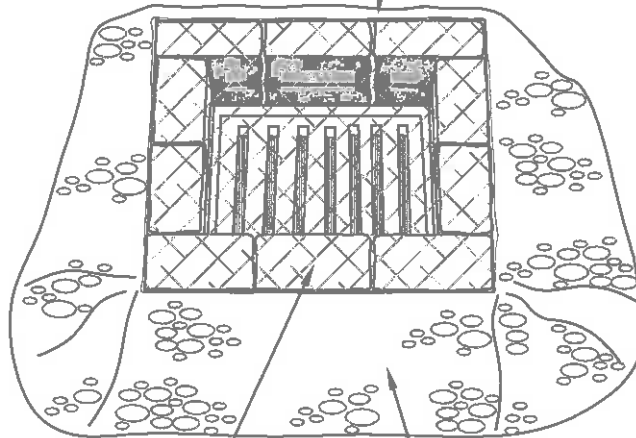
<u>DETAIL</u>	<u>HEADING</u>
1.0	Inlet Fabric Fence Filter
2.0	Inlet Block & Gravel Filter - Schematic
3.0	Temporary Sediment Control Inlet Gravel & Wire Mesh Filter
4.0	Construction Entrance Rock Pad
5.0	Sediment Pond - Example
5.1	Sediment Pond Cross-Section
5.2	Riser Detail
6.0	Permanent Sediment Trap for Presettling Basin - Schematic
7.0	Placement of Temporary Sedimentation Pond Baffles - Schematic
8.0	Filter Fabric Fence Detail
9.0	Typical Erosion Control Practices for SFR
10.0	<i>reserved for future use</i>
11.0	Brush Barrier - Schematic
12.0	Gravel Filter Berm
13.0	Sandbag Berm
14.0	Triangular Sediment Dikes
15.0	Pipe Slope Drains
16.0	Erosion Control Blankets - Schematic
17.0	Temporary Interceptor Dikes & Swales - Schematic
18.0	Temporary Gravel Outlet Structure
19.0	Rock Check Dams
20.0	ESC Structural Practices - Schematic
21.0	Sediment Trap
22.0	Sediment Trap Outlet



NOTE:
 ALL FILTER FABRIC SHALL BE
 MIRAFI 140NS OR EQUAL

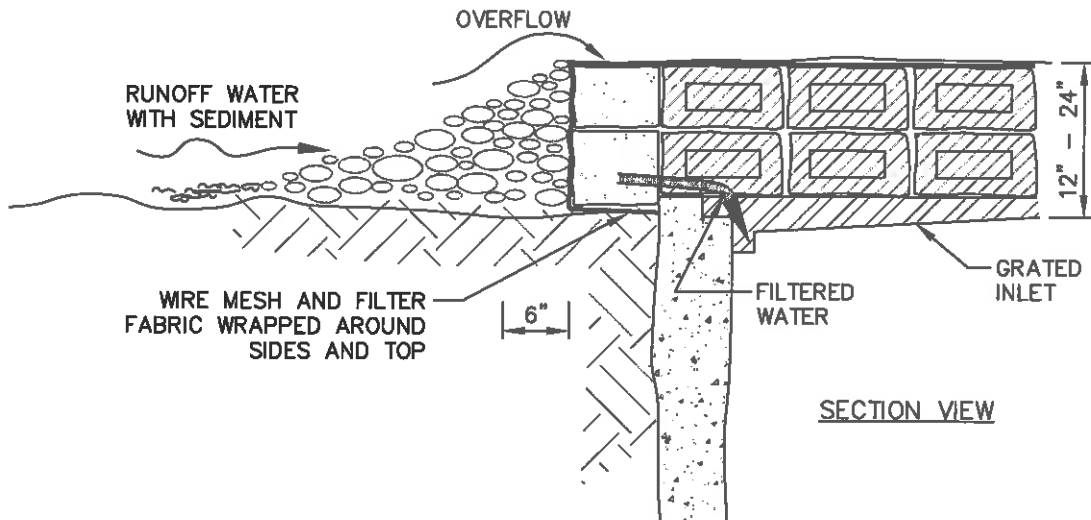
 <small>City of Harbor Engineering Division</small>	ENGINEERING DIVISION	SECTION C DETAIL N.T.S. 1.0
	INLET FABRIC FENCE FILTER	
APPROVED BY _____ CITY ENGINEER	DATE 1/1/2014	

WRAP SIDES AND TOP WITH
WIRE MESH OR HARDWARE
CLOTH WITH 1/2" OPENING AND
COVER WITH FILTER FABRIC




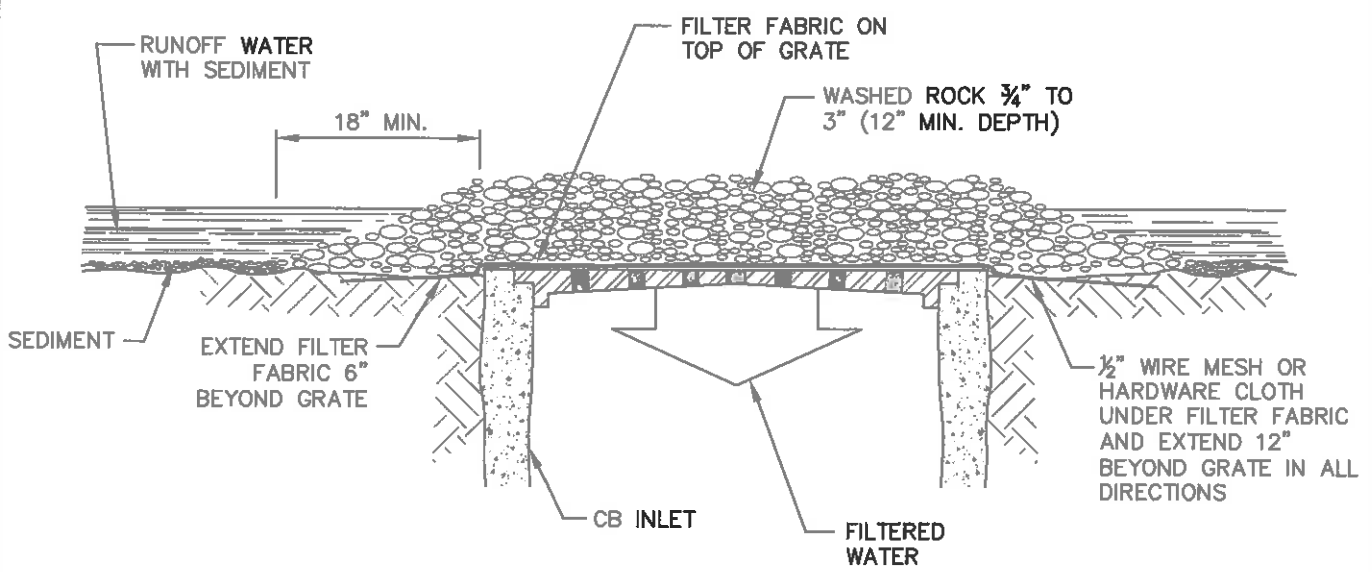
CONC. BLOCK


WASHED ROCK,
3/4" TO 3"

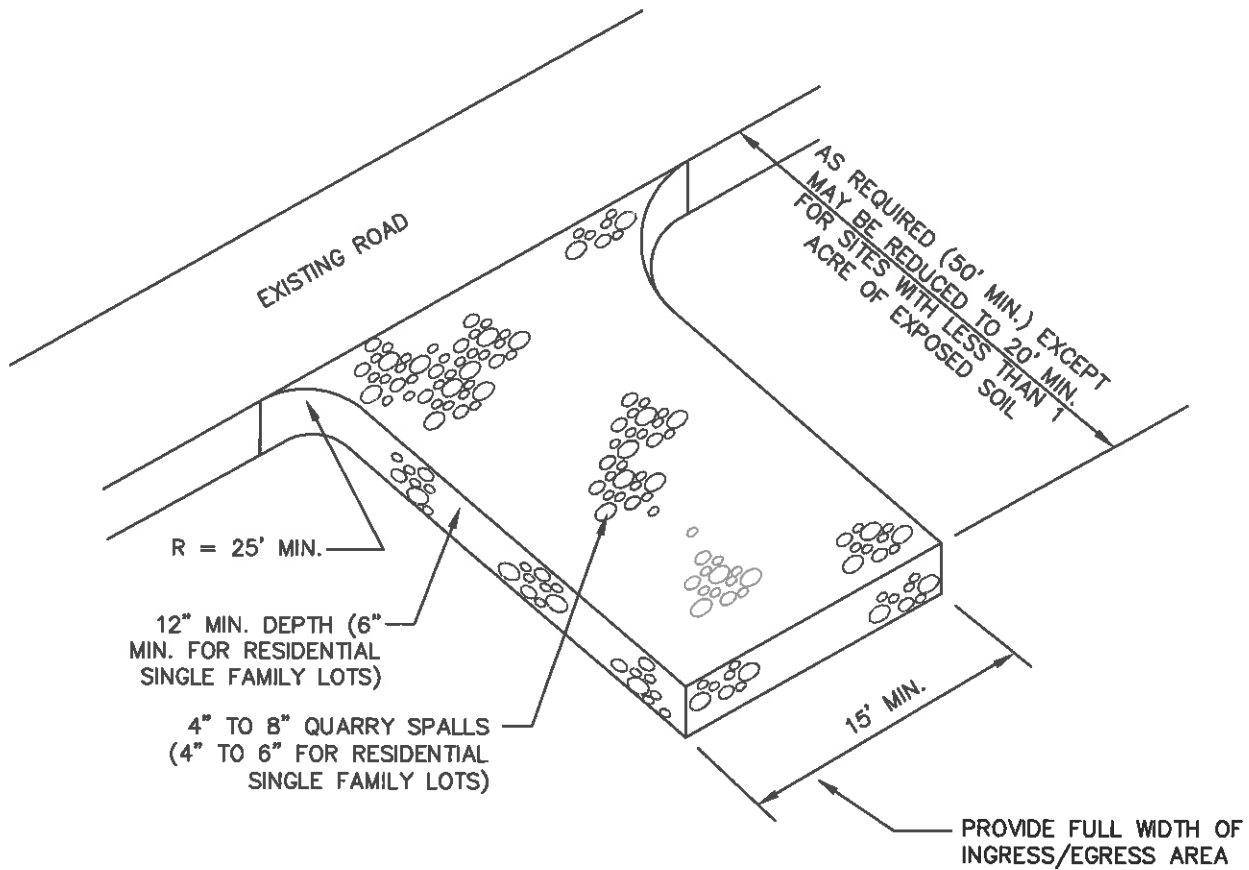



SECTION VIEW

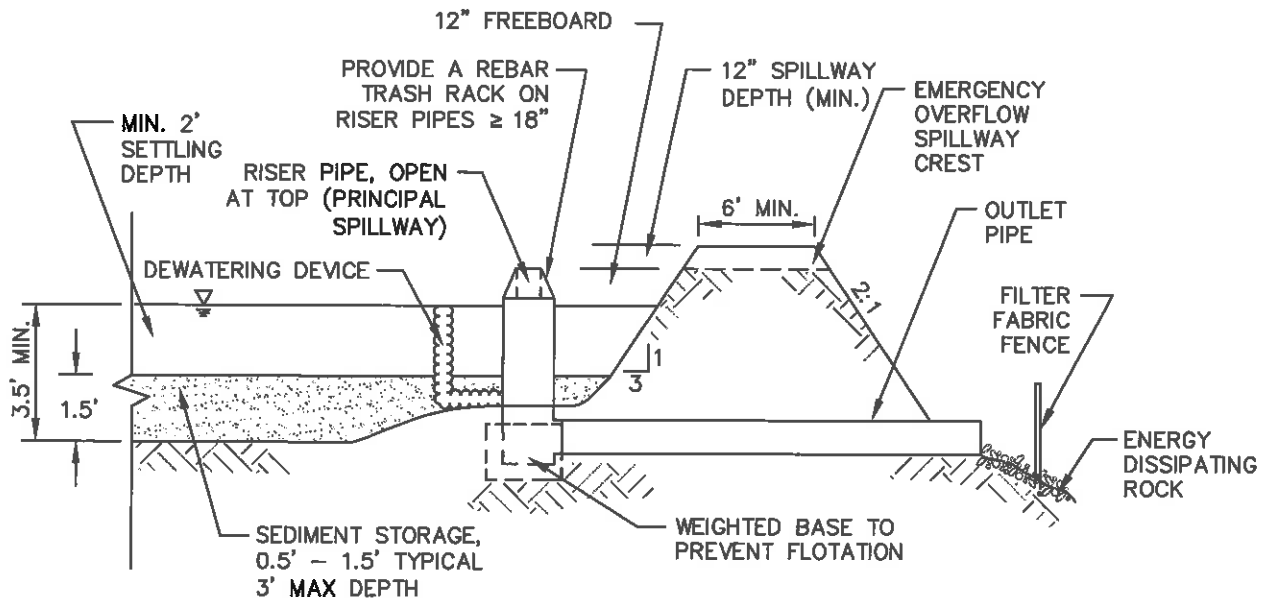
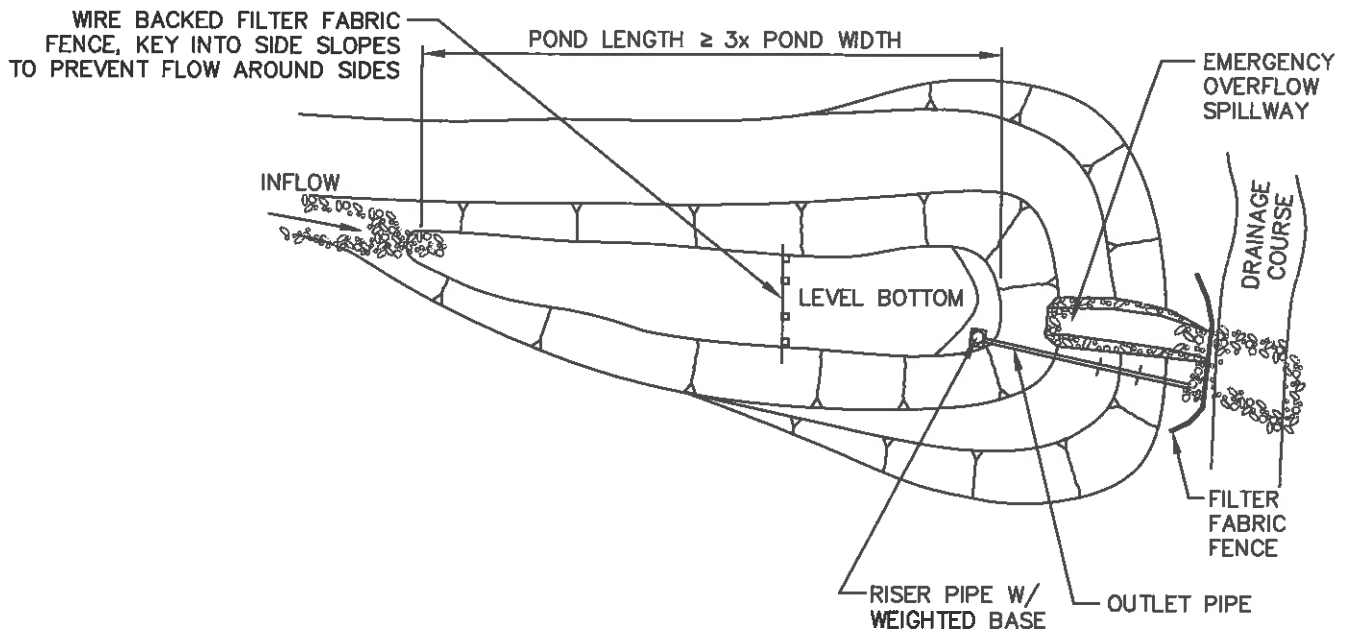
	ENGINEERING DIVISION	SECTION C DETAIL N.T.S. 2.0
	INLET BLOCK AND GRAVEL FILTER SCHEMATIC	
APPROVED BY CITY ENGINEER _____	DATE 1/1/2014	




	ENGINEERING DIVISION	SECTION C DETAIL N.T.S.
	TEMPORARY SEDIMENT CONTROL INLET GRAVEL AND WIRE MESH FILTER	3.0
APPROVED BY CITY ENGINEER _____	DATE	1/1/2014

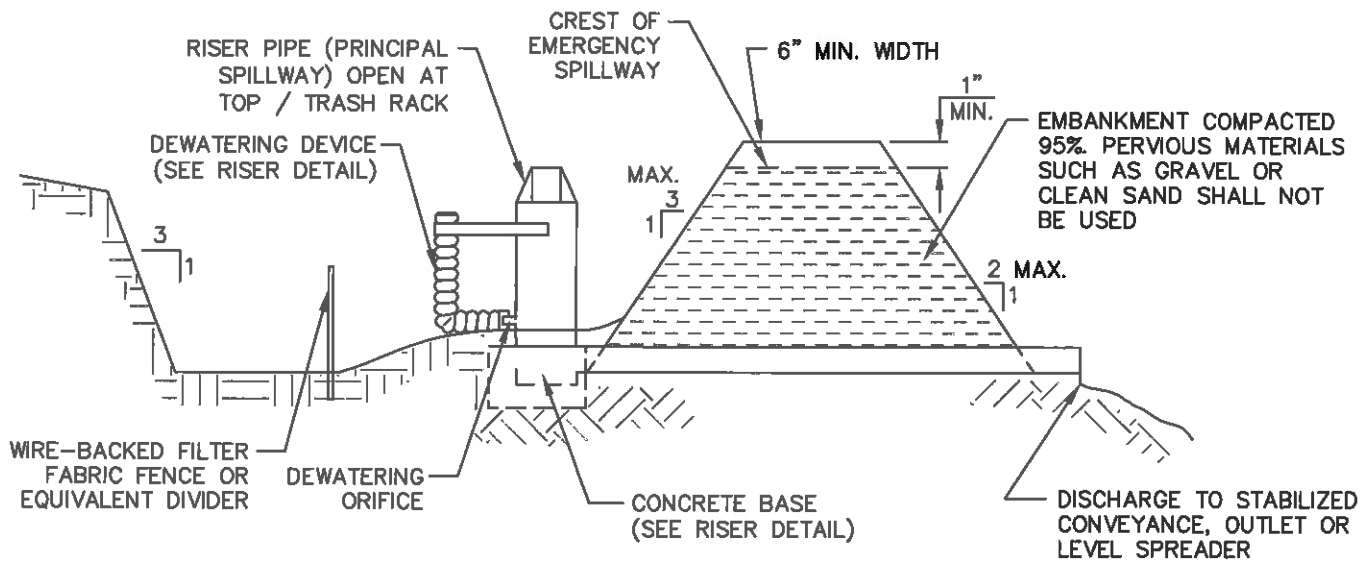



	ENGINEERING DIVISION	SECTION C DETAIL N.T.S.
	CONSTRUCTION ENTRANCE ROCK PAD	4.0
APPROVED BY CITY ENGINEER _____	DATE 1/1/2014	

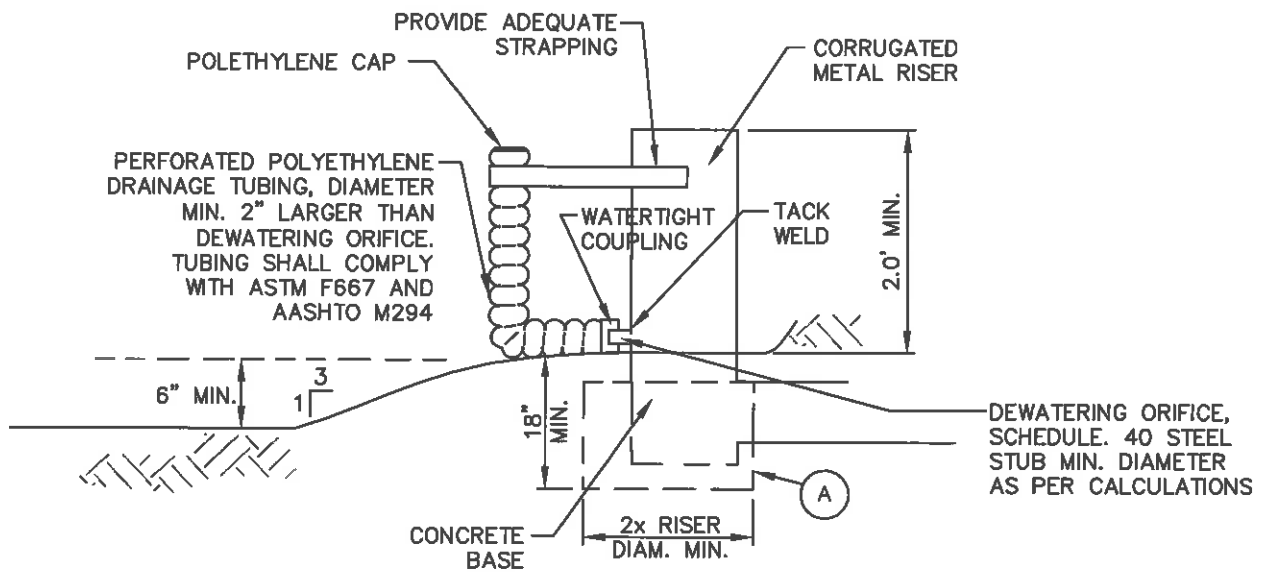


SECTION THROUGH OUTLET

 GIG HARBOR <small>"THE MARITIME CITY"</small>	ENGINEERING DIVISION
	SEDIMENT POND
SECTION C DETAIL N.T.S. 5.0	
APPROVED BY CITY ENGINEER _____	DATE 1/1/2014




	ENGINEERING DIVISION	
	SEDIMENT POND CROSS-SECTION	
	SECTION C DETAIL N.T.S. 5.1	
APPROVED BY CITY ENGINEER _____	DATE 1/1/2014	

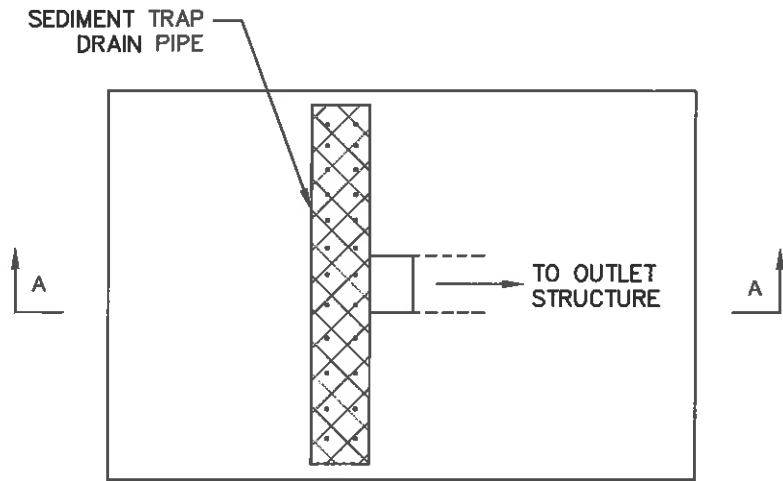


(A) ALTERNATIVELY, METAL STAKES AND WIRE MAY BE USED TO PREVENT FLOTATION

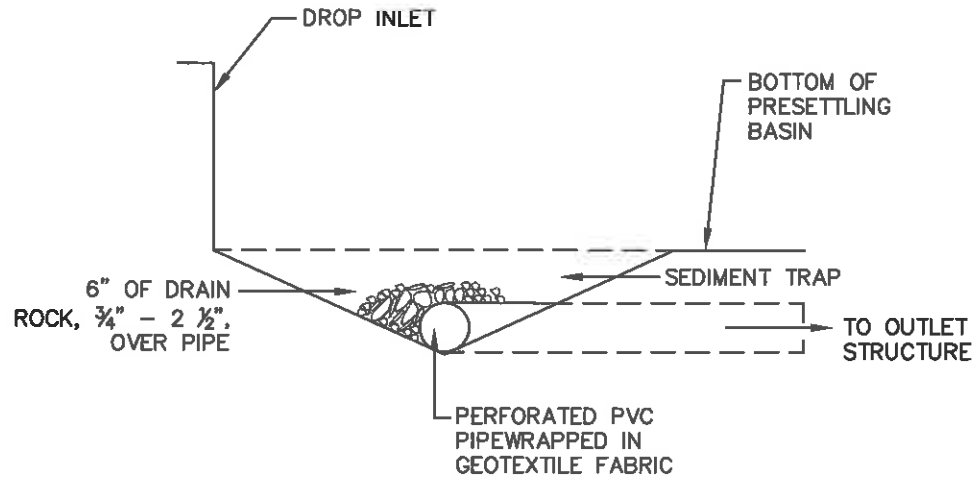
MAINTENANCE STANDARDS:

1. SEDIMENT SHALL BE REMOVED FROM THE POND WHEN IT REACHES 1' IN DEPTH.
2. ANY DAMAGE TO THE POND EMBANKMENTS OR SLOPES SHALL BE REPAIRED.

 ENGINEERING DIVISION	SECTION C DETAIL N.T.S.
	5.2
APPROVED BY _____ DATE 1/1/2014 CITY ENGINEER _____	

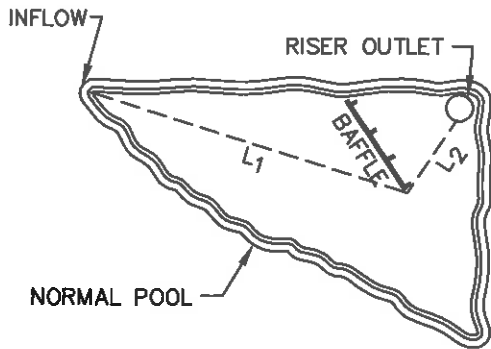


PLAN VIEW
(GRAVEL NOT SHOWN)

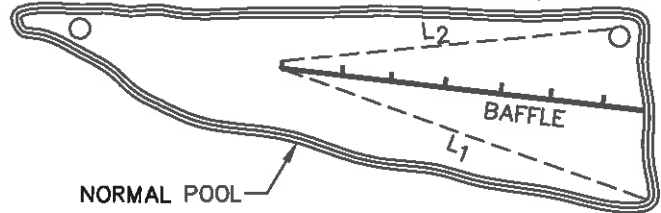


SECTION A-A

	ENGINEERING DIVISION	
	PERMANENT SEDIMENT TRAP FOR PRESETTLING BASIN	
	SECTION C DETAIL N.T.S.	6.0
APPROVED BY CITY ENGINEER _____	DATE 1/1/2014	

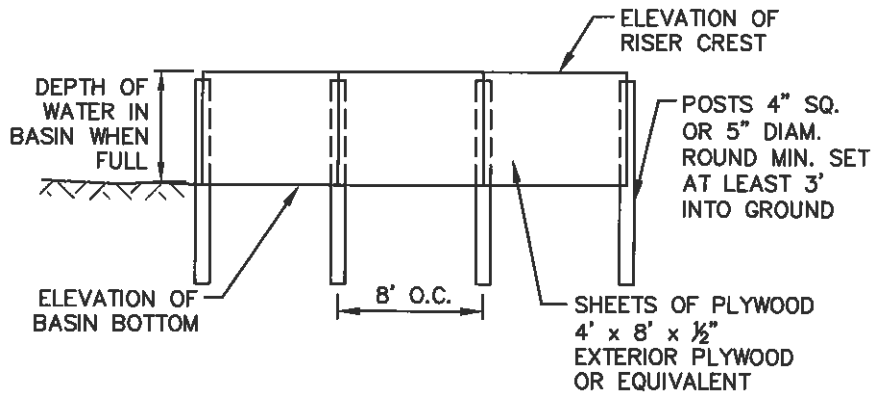
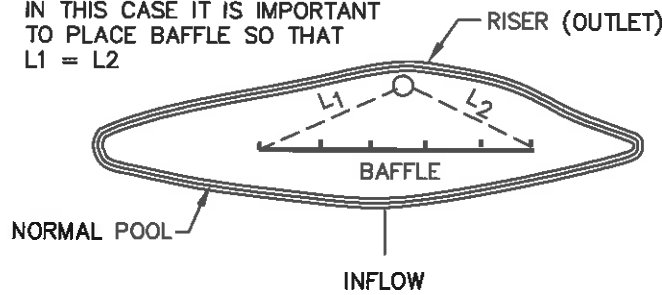



IF RISER (OUTLET) IS PLACED HERE NO BAFFLE IS REQUIRED

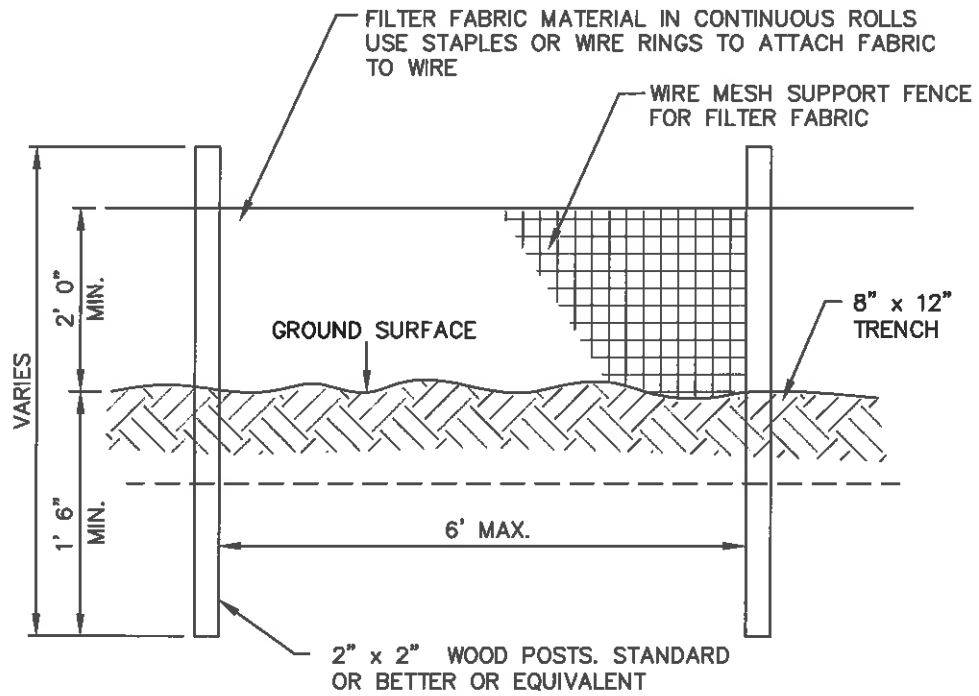


RISER (OUTLET) HERE IS IN VERY POOR LOCATION: BAFFLE IS REQUIRED

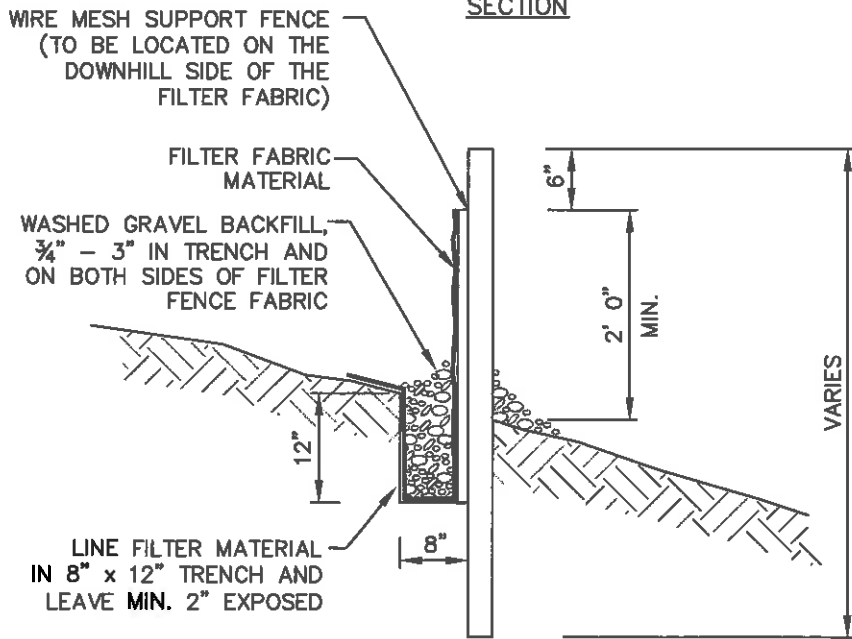
IN THIS CASE IT IS IMPORTANT TO PLACE BAFFLE SO THAT $L1 = L2$




	ENGINEERING DIVISION	
	TEMPORARY SEDIMENTATION POND BAFFLES	
	SECTION C DETAIL N.T.S.	7.0
APPROVED BY CITY ENGINEER _____	DATE 1/1/2014	



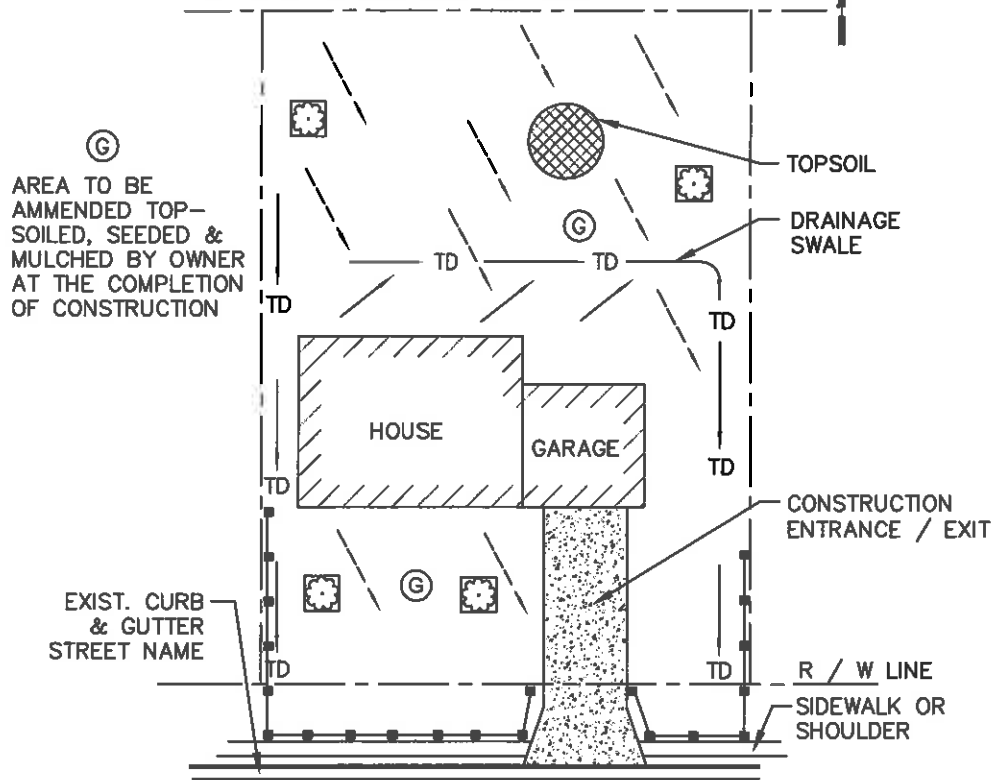
SECTION



SECTION

	ENGINEERING DIVISION	
	FILTER FABRIC FENCE	SECTION C DETAIL N.T.S. 8.0
APPROVED BY CITY ENGINEER _____	DATE 1/1/2014	

SAMPLE EROSION CONTROL PLAN
FOR SITES OF ONE ACRE OR LESS

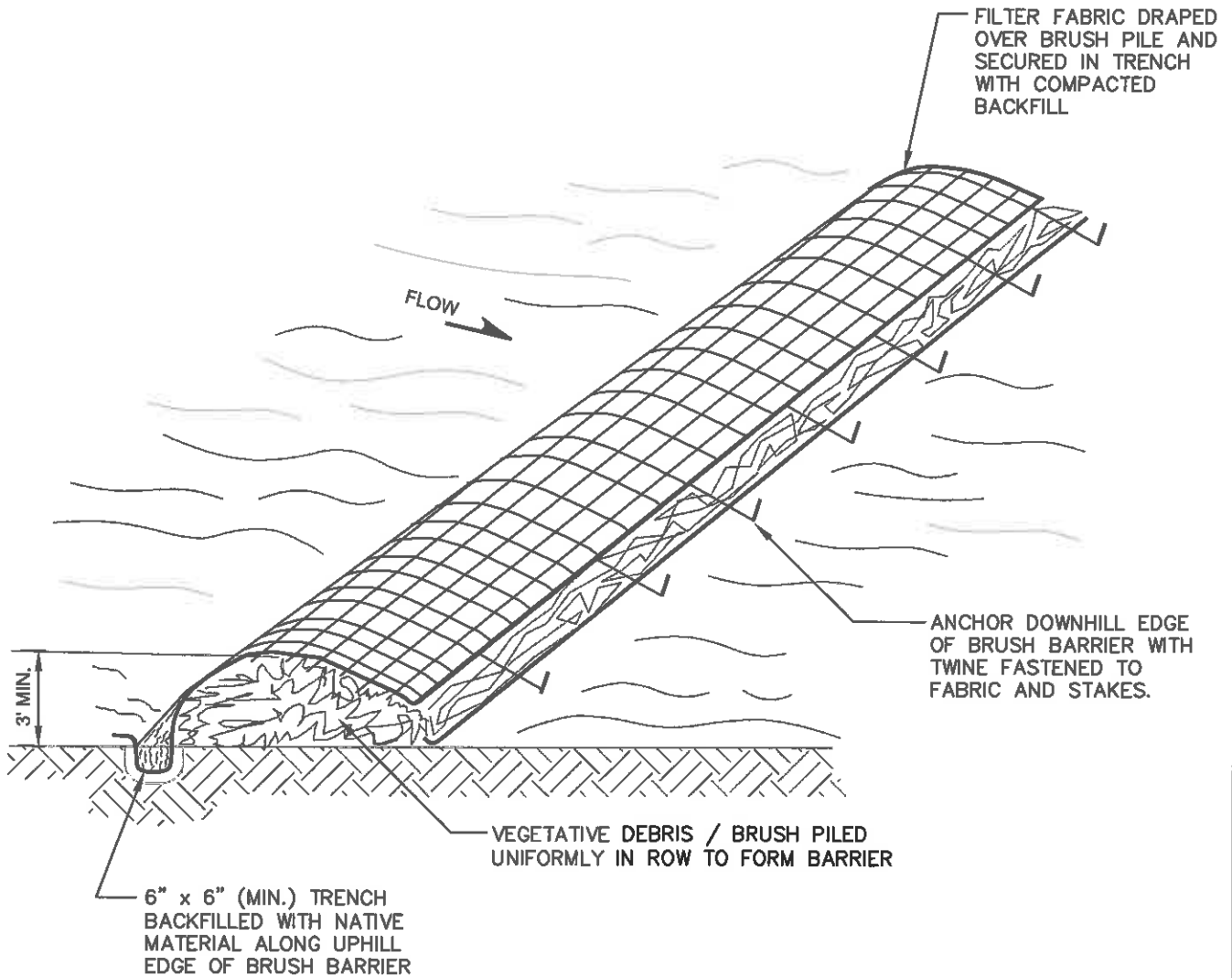


EROSION CONTROL PLAN LEGEND

- EXISTING DRAINAGE
- - - - - PROPERTY LINE
- TD TEMPORARY DIVERSION
- LIMITS OF GRADING
- SILT FENCE
- GRAVEL
- ⊙ VEGETATION SPECIFICATION AREA
- ⊛ TREE PRESERVATION
- ⊘ STOCKPILED TOPSOIL

PROJECT LOCATION:	
PROPERTY OWNER:	
CONTRACTOR:	
PREPARED BY:	DATE:

 CITY OF HARBOR <small>"THE MARITIME CITY"</small>	ENGINEERING DIVISION EROSION CONTROL PRACTICES FOR SINGLE FAMILY RESIDENCES	SECTION C DETAIL N.T.S. 9.0
APPROVED BY CITY ENGINEER _____	DATE 1/1/2014	



ENGINEERING DIVISION

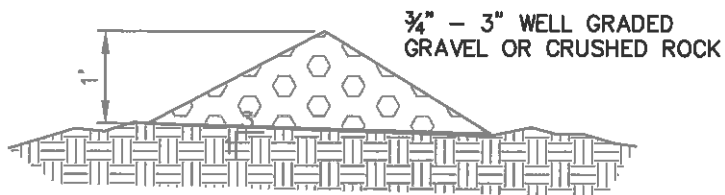
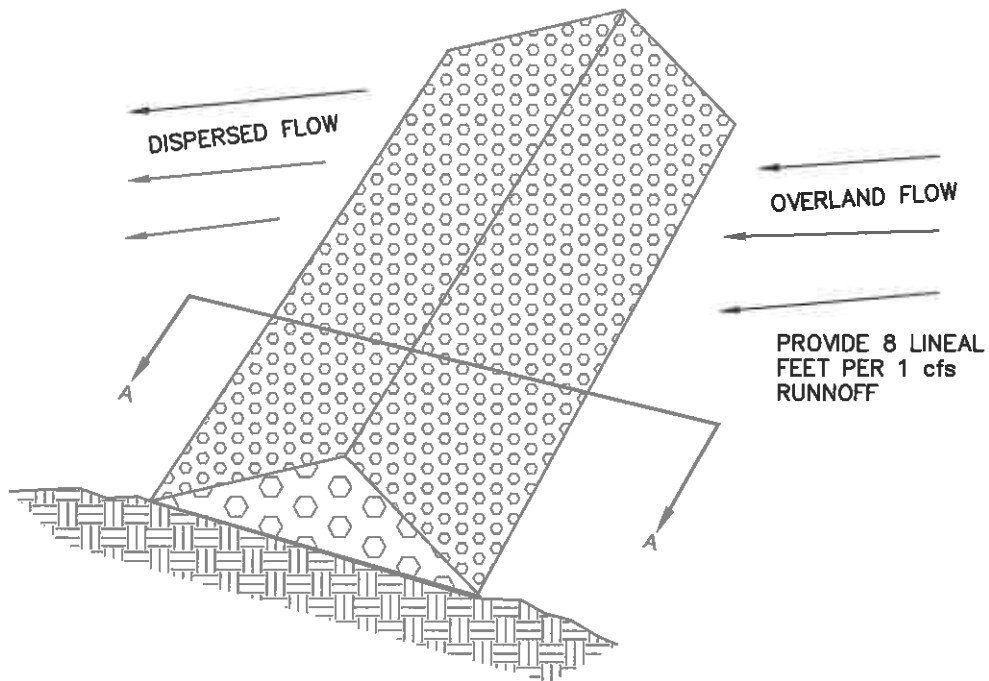
BRUSH BARRIER

SECTION C
DETAIL N.T.S.

11.0

APPROVED BY
CITY ENGINEER _____

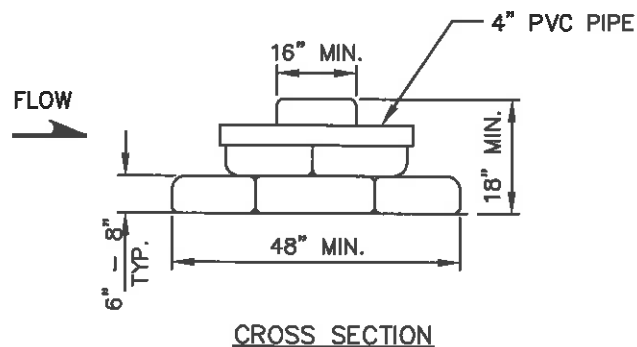
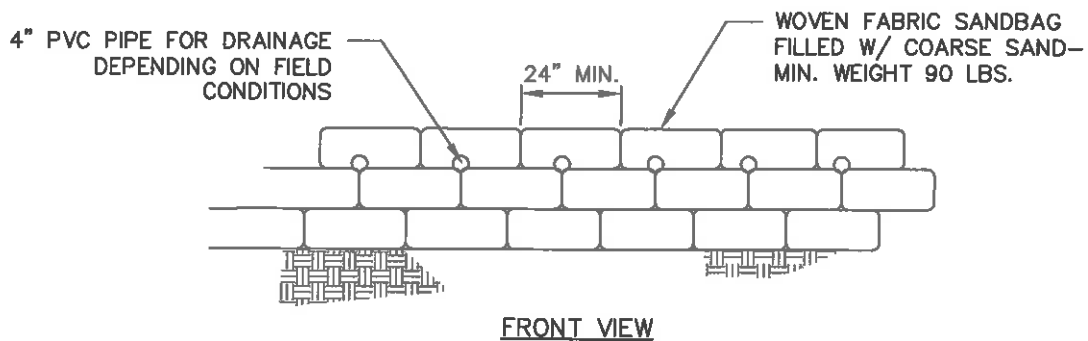
DATE **1/1/2014**



CROSS SECTION OF GRAVEL FILTER BERM


NOTE: MAXIMUM DRAINAGE
AREA TO BERM IS 5 ACRES

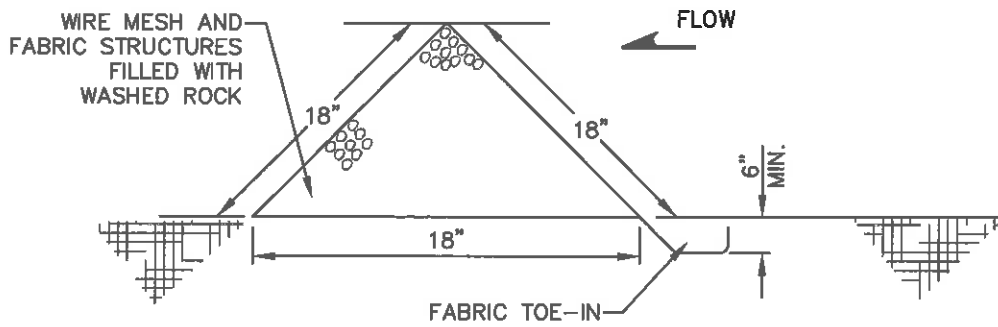
 ENGINEERING DIVISION	GRAVEL FILTER BERM	SECTION C DETAIL N.T.S. 12.0
	APPROVED BY _____ DATE 1/1/2014 CITY ENGINEER _____	



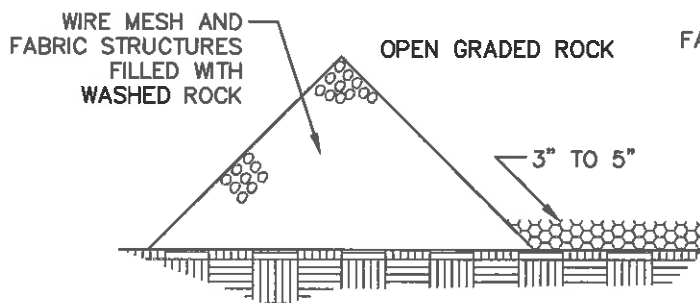
NOTES:

1. WHEN SANDBAG IS FILLED WITH COARSE GRADE SAND MATERIAL, THE OPEN END SHOULD BE STAPLED OR TIED WITH NYLON OR POLY CORD. THE WEIGH SHALL BE 90 - 125 LBS.
2. SANDBAGS SHOULD BE STACKED IN AT LEAST THREE VERTICAL ROWS ABUTTING EACH OTHER, AND IN STAGGERED ARRANGEMENT. (REFER TO FRONT VIEW).
3. THE BASE OF THE BERM SHOULD BE AT LEAST 3 SANDBAGS DEEP AND CAN BE REDUCED TO 2 AND 1 BAG IN THE SECOND AND THIRD ROWS RESPECTIVELY. (REFER TO CROSS SECTION).

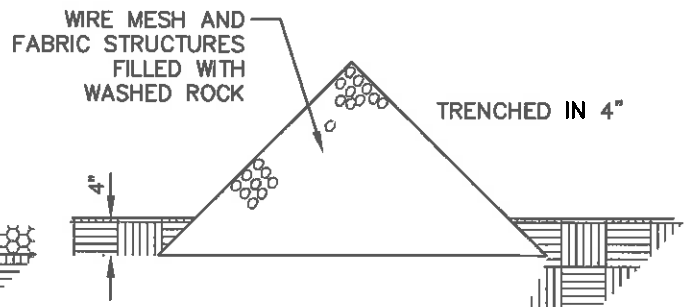
 ENGINEERING DIVISION	
SANDBAG BERM	SECTION C DETAIL N.T.S. 13.0
APPROVED BY _____ DATE 1/1/2014 CITY ENGINEER _____	



OPTION 1



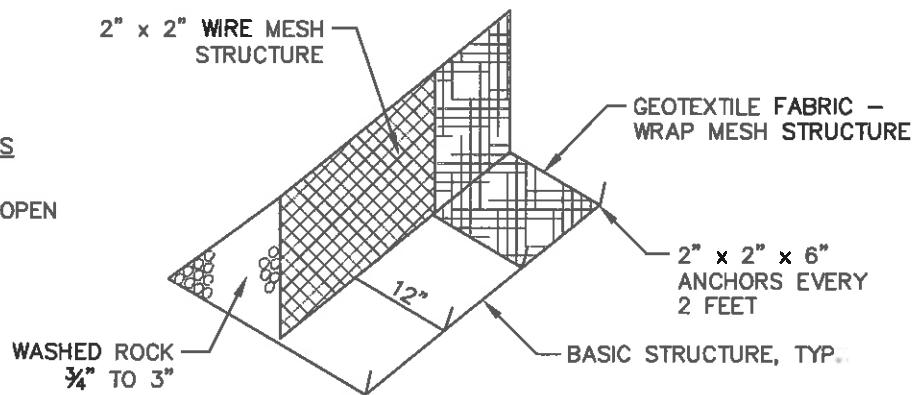
OPTION 2



OPTION 3

INSTALLATION DETAIL OPTIONS

- 1) TOE-IN 6" MIN.
- 2) WEIGHTED WITH 3"-5" OPEN GRATED ROCK
- 3) TRENCHED IN 4"



ENGINEERING DIVISION

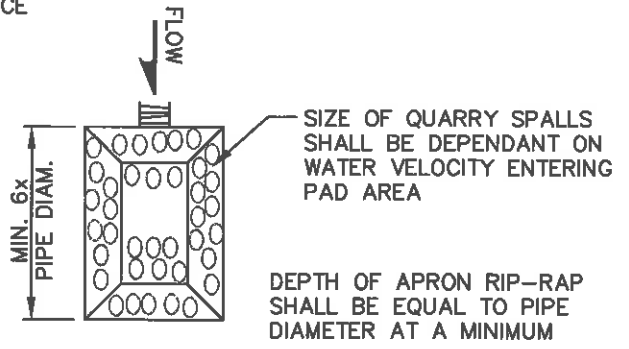
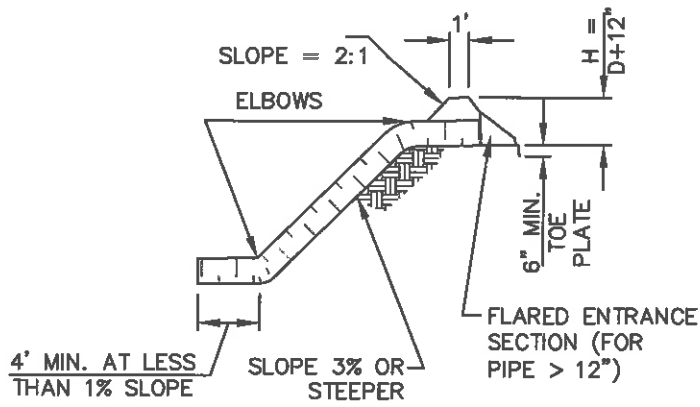
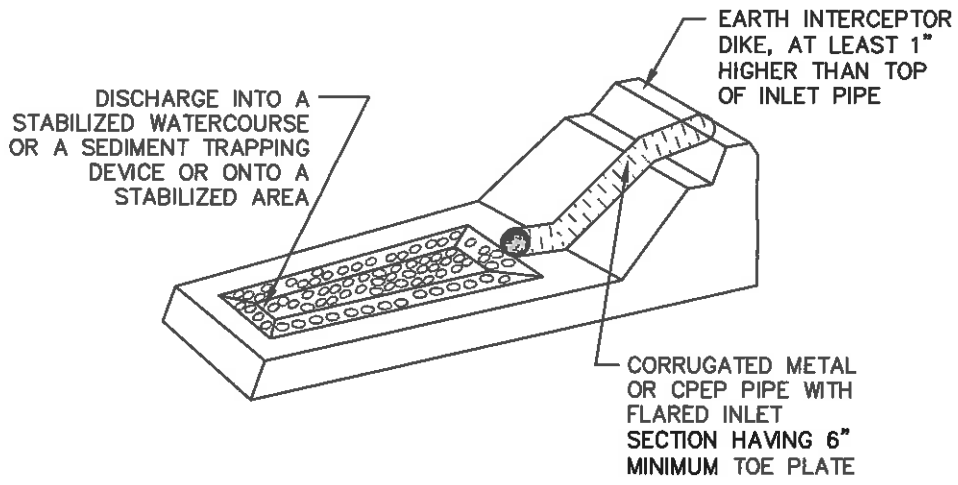
**TRIANGULAR
SEDIMENT FILTER
DIKE**

SECTION C
DETAIL N.T.S.


14.0

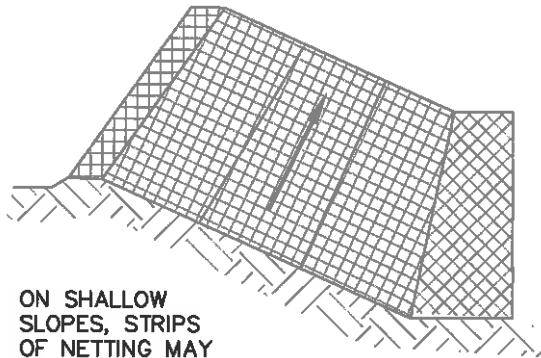
APPROVED BY
CITY ENGINEER

DATE 1/1/2014



NOTE:
D= NOMINAL
PIPE DIAM.

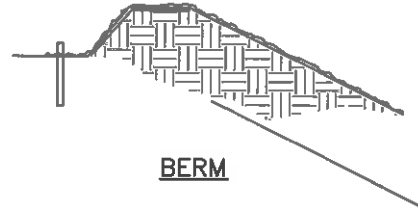
 ENGINEERING DIVISION	PIPE SLOPE DRAINS	SECTION C DETAIL N.T.S. 15.0
	APPROVED BY _____ DATE 1/1/2014 CITY ENGINEER _____	



SHALLOW SLOPE

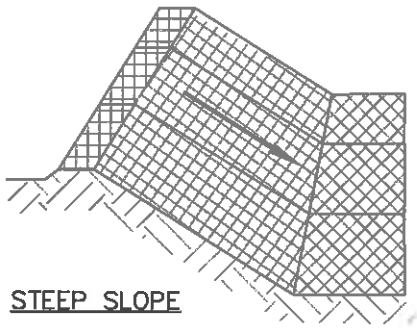
ON SHALLOW SLOPES, STRIPS OF NETTING MAY BE APPLIED ACROSS THE SLOPE (SLOPES UP TO 1:1)

WHERE THERE IS A BERM AT THE TOP OF THE SLOPE, BRING THE NETTING OVER THE BERM AND ANCHOR IT BEHIND THE BERM LINE.



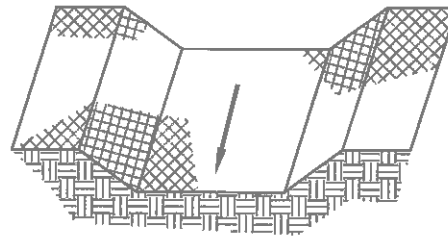
BERM

BRING NETTING DOWN TO A LEVEL AREA BEFORE TERMINATING THE INSTALLATION. TURN THE END UNDER 6" AND STAPLE AT 12" INTERVALS.



STEEP SLOPE

ON STEEP SLOPES, APPLY STRIPS OF NETTING PARALLEL TO THE DIRECTION OF FLOW AND ANCHOR SECURELY.



SHALLOW SLOPE

IN DITCHES, APPLY NETTING PARALLEL TO THE DIRECTION OF FLOW. USE CHECK SLOTS EVERY 15'. DO NOT JOIN STRIPS IN THE CENTER OF THE DITCH.



ENGINEERING DIVISION

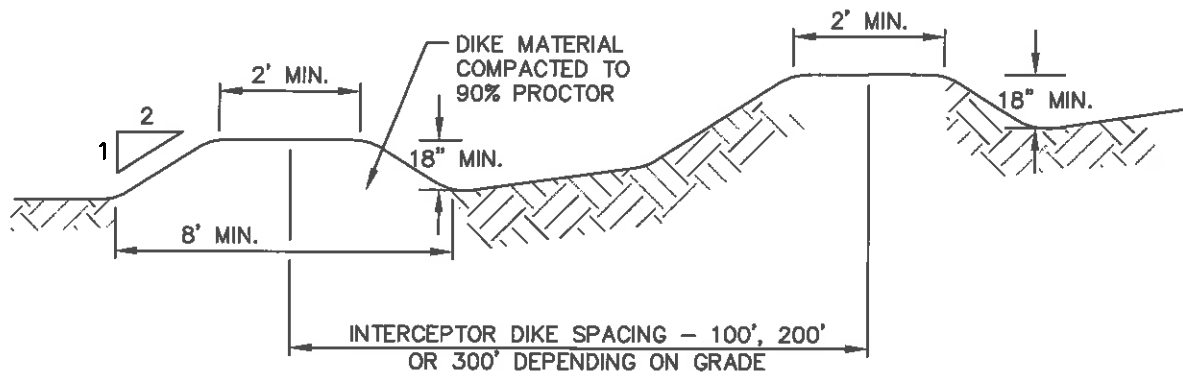
**EROSION CONTROL
BLANKETS**

SECTION C
DETAIL N.T.S.

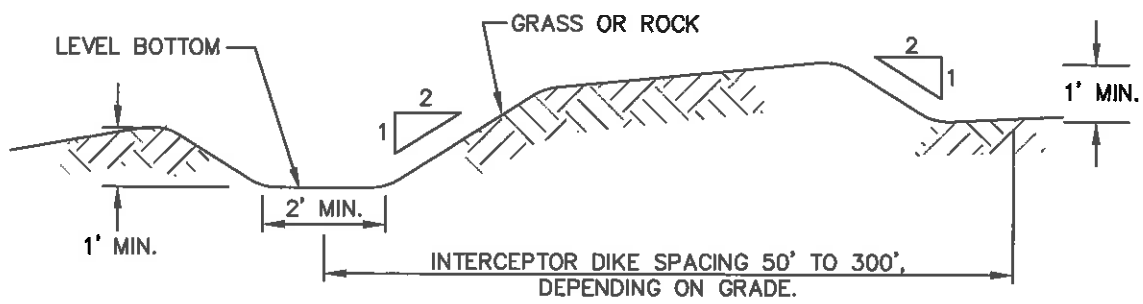
16.0

APPROVED BY
CITY ENGINEER _____


DATE 1/1/2014

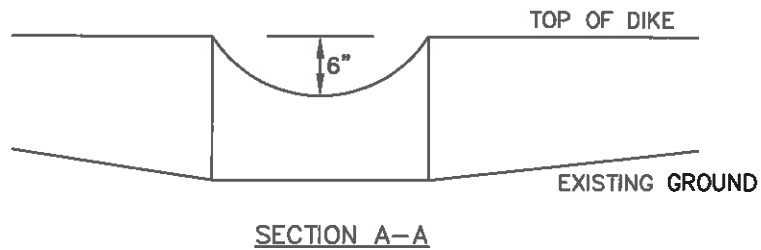
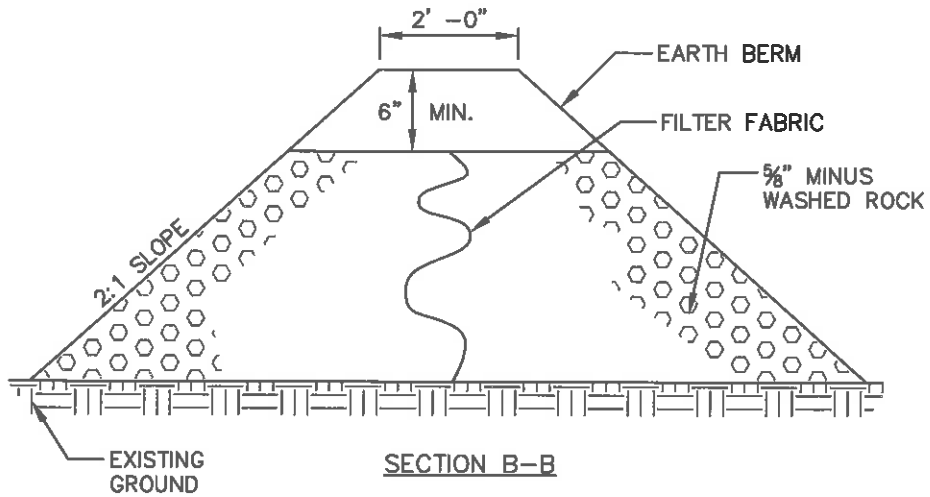
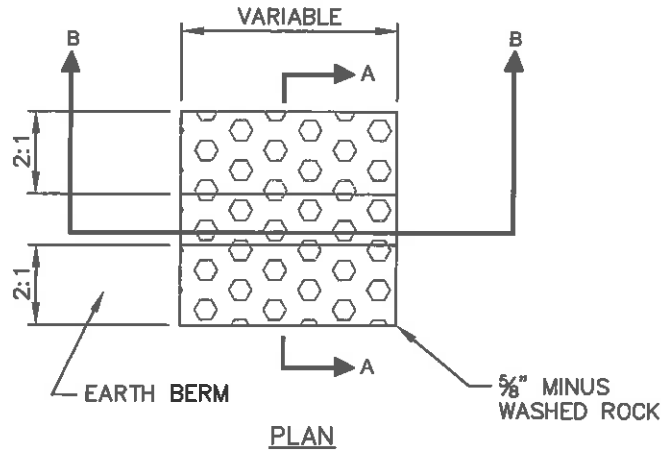



(A) INTERCEPTOR DIKES
SECTION

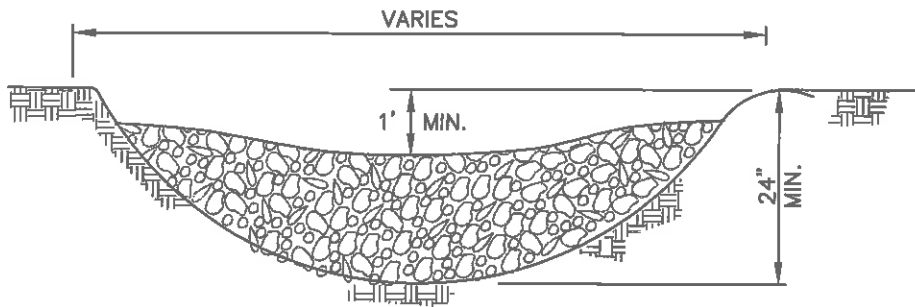


(B) INTERCEPTOR SWALE
SECTION

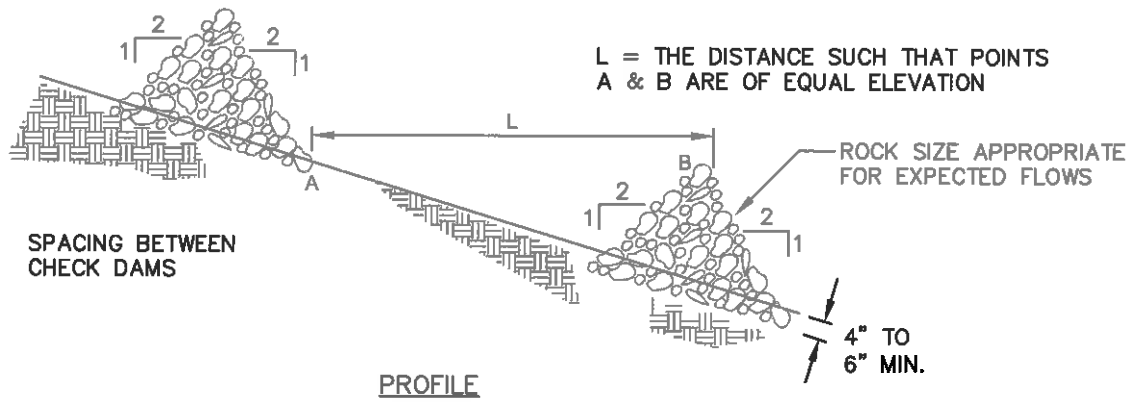
	ENGINEERING DIVISION	SECTION C DETAIL N.T.S. 17.0
	TEMPORARY INTERCEPTOR DIKES AND SWALES	
APPROVED BY CITY ENGINEER _____	DATE 1/1/2014	



	ENGINEERING DIVISION	
	TEMPORARY GRAVEL OUTLET STRUCTURE	
	SECTION C DETAIL N.T.S.	18.0
APPROVED BY CITY ENGINEER _____		DATE 1/1/2014




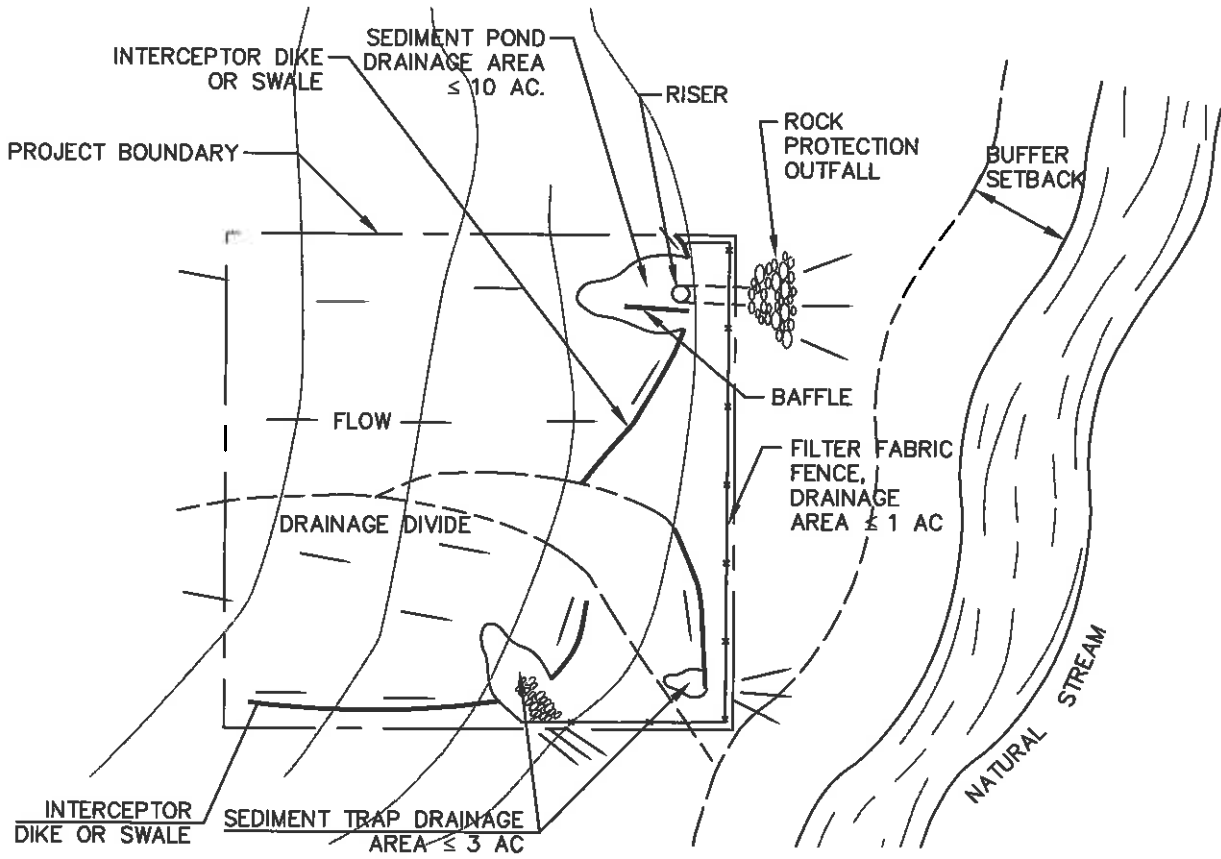
SECTION




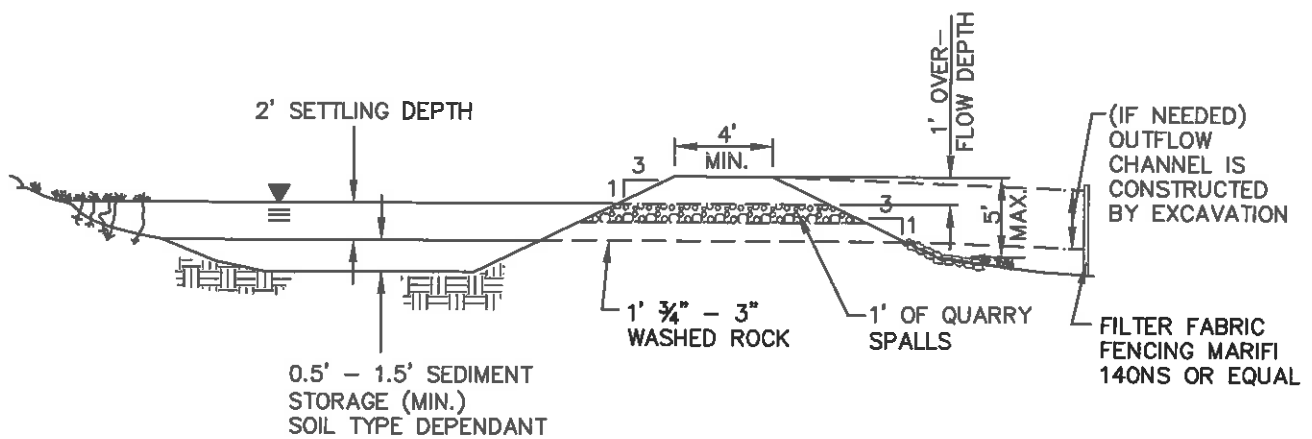
SPACING BETWEEN CHECK DAMS

PROFILE

 GIG HARBOR <small>ENGINEERING</small>	ENGINEERING DIVISION	
	ROCK CHECK DAMS	SECTION C DETAIL N.T.S. 19.0
APPROVED BY CITY ENGINEER _____		DATE 1/1/2014



	ENGINEERING DIVISION	SECTION C DETAIL N.T.S. 20.0
	ESC STRUCTURAL PRACTICES	
APPROVED BY CITY ENGINEER _____	DATE 1/1/2014	



CROSS SECTION



ENGINEERING DIVISION

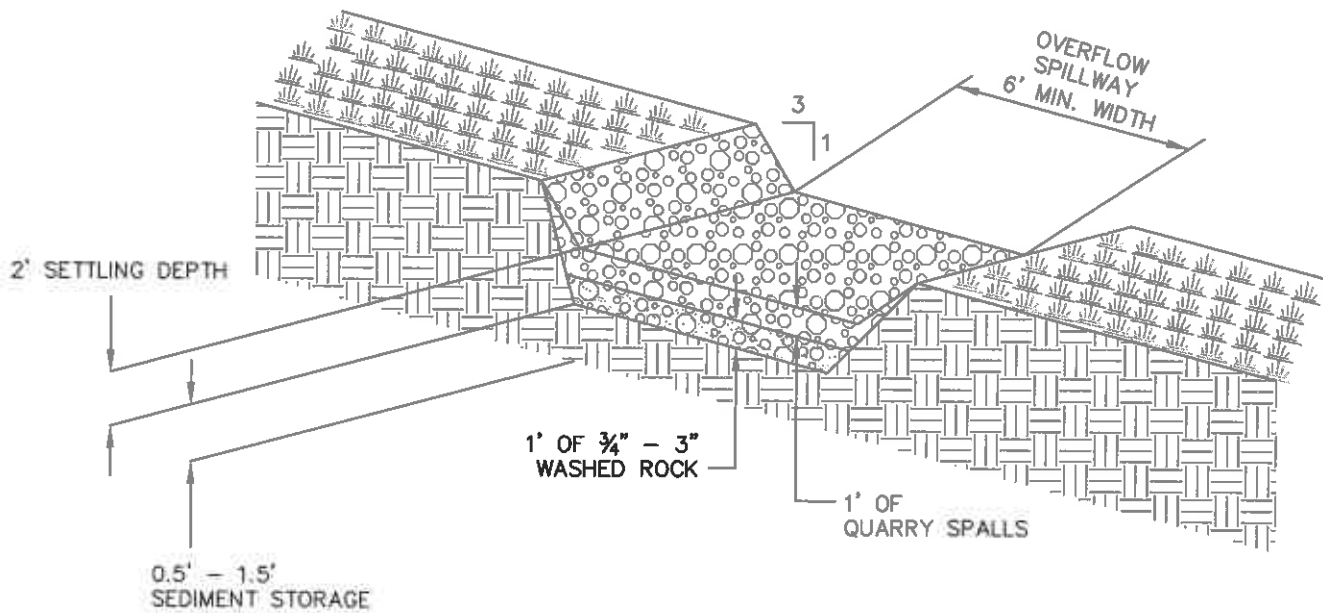
SEDIMENT TRAP

SECTION C
DETAIL N.T.S.

21.0

APPROVED BY
CITY ENGINEER _____

DATE 1/1/2014



ENGINEERING DIVISION

**SEDIMENT TRAP
OUTLET**

SECTION C.
DETAIL N.T.S.

22.0

APPROVED BY
CITY ENGINEER _____

DATE 1/1/2014