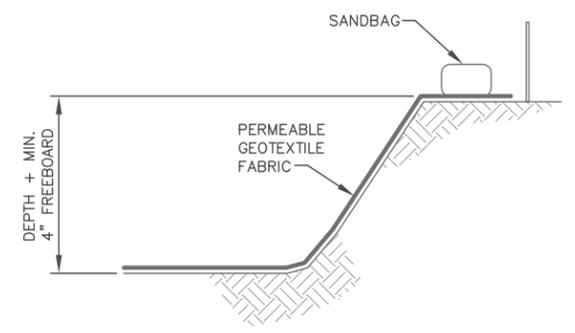
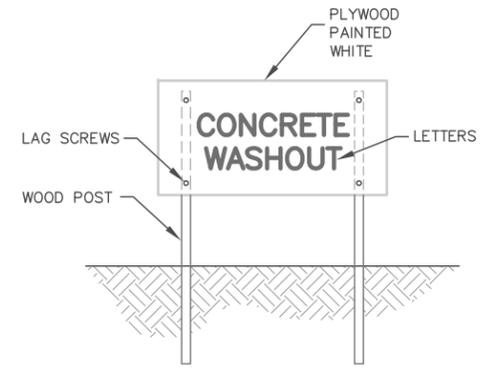


TYPE	YEAR	PROJECT NO.	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-

REV. -



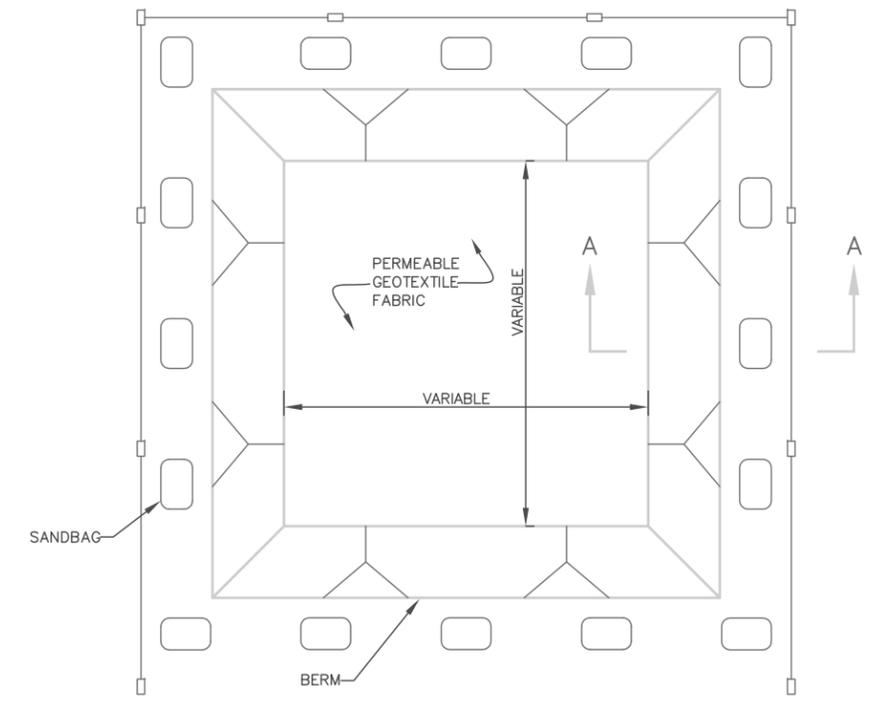
SECTION A-A  
NOT TO SCALE



CONCRETE WASHOUT SIGN (OR EQUIVALENT)

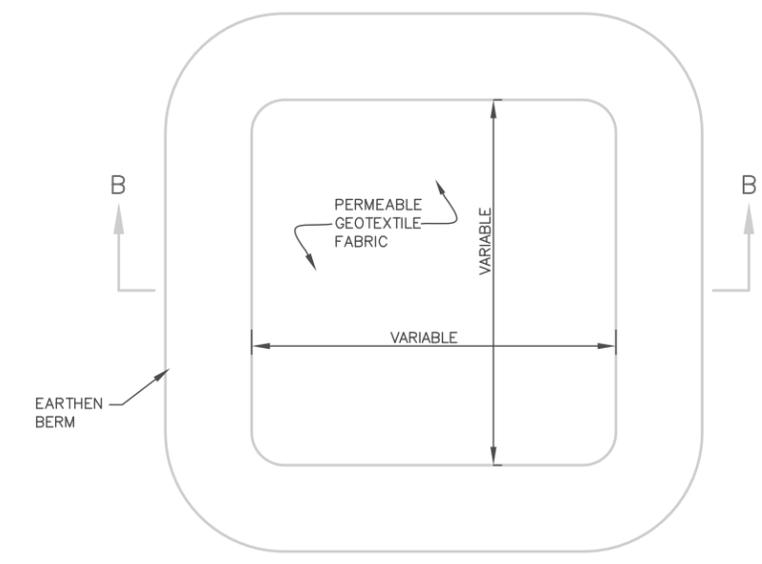


SECTION B-B  
NOT TO SCALE



PLAN VIEW  
NOT TO SCALE

TYPE "BELOW GRADE"



PLAN VIEW  
NOT TO SCALE

TYPE "ABOVE GRADE" WITH EARTHEN BERMS

- NOTES:
1. ACTUAL LAYOUT DETERMINED IN THE FIELD.
  2. SIGNAGE IDENTIFYING THE CONCRETE WASHOUT AREA SHALL BE INSTALLED WITHIN 5FT. OF THE WASHOUT FACILITY.

EROSION CONTROL PLAN LEGEND:  CONCRETE WASHOUT



CONCRETE WASHOUT

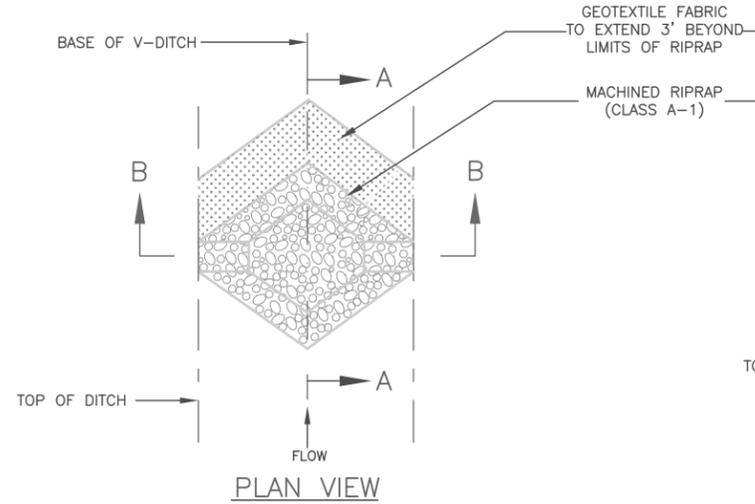
NOT TO SCALE

7.16

TYPE	YEAR	PROJECT NO.	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

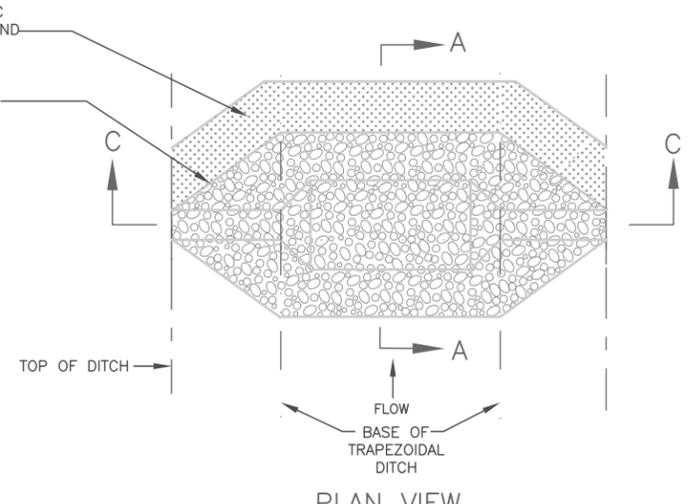
REV. -

DETAIL FOR V-DITCH

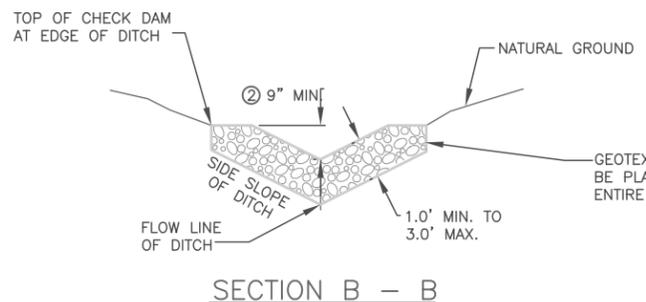


PLAN VIEW

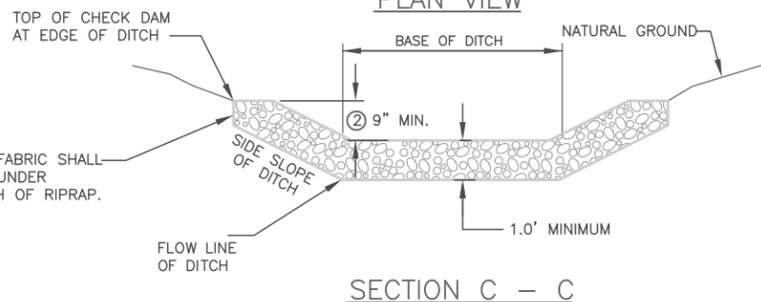
DETAIL FOR TRAPEZOIDAL DITCH



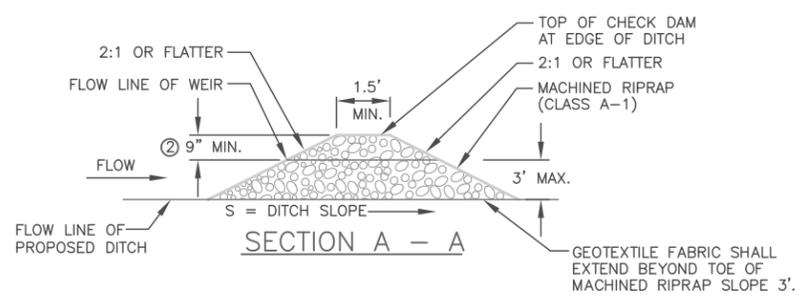
PLAN VIEW



SECTION B - B

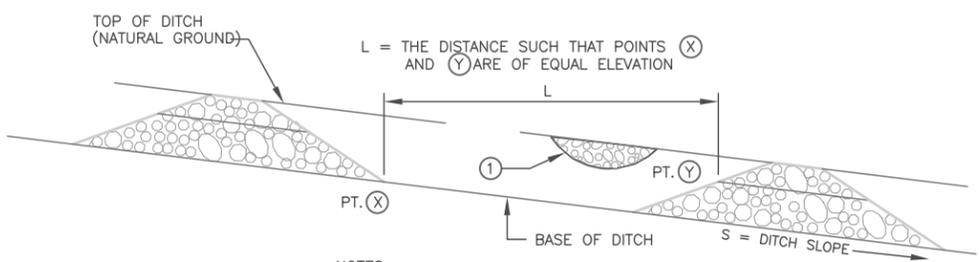


SECTION C - C



SECTION A - A

DETAIL FOR SPACING BETWEEN CHECK DAMS



- NOTES:
- ① FILL LOW AREAS ALONG TOP OF BANK TO PREVENT BACKWATER FROM EXITING DITCH.
  - ② WEIR FLOW DEPTH BASED UPON 2yr/24hr STORM EVENT OR 5yr/24hr STORM EVENT.

EROSION CONTROL PLAN LEGEND → → → CHECK DAM



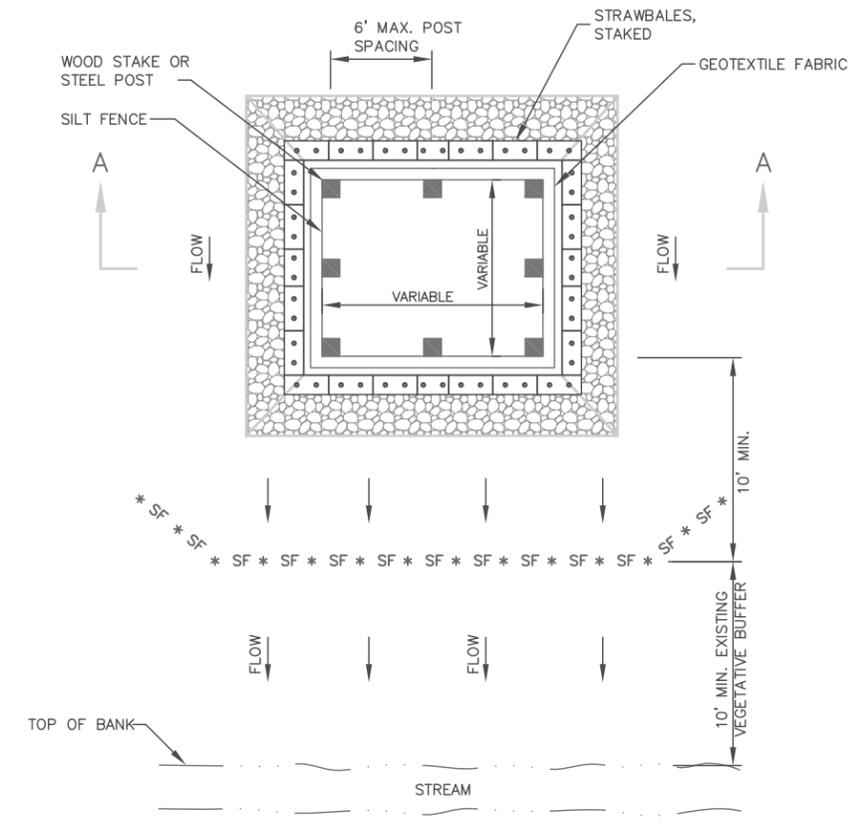
CHECK DAM

NOT TO SCALE

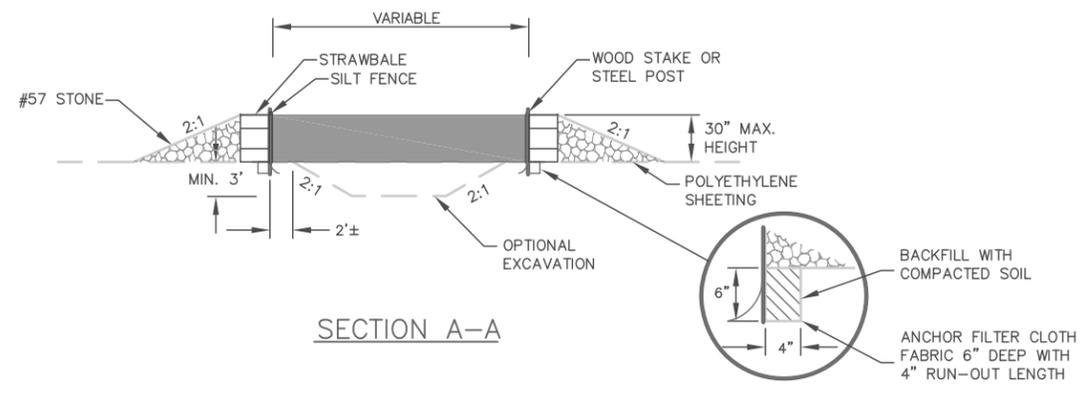
7.20

TYPE	YEAR	PROJECT NO.	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-

REV. -



PLAN VIEW



SECTION A-A

TRENCHING DETAIL

DEWATERING STRUCTURE VOLUMES AND DIMENSIONS

PUMP DIAMETER (INCHES)		STORAGE VOLUME REQD (CUBIC YARDS)	INTERIOR DIMENSIONS
2	140	83	30' X 30'
3	260	154	41' X 41'
4	500	296	57' X 57'
6	1,100	652	85' X 85'

1. DIMENSIONS BASED ON THE MAXIMUM STRUCTURE HEIGHT OF 30" AND THE LENGTH BEING EQUAL TO THE WIDTH. OPTIONAL EXCAVATION IS NOT INCLUDED.
2. ADJUSTMENTS SHOULD BE MADE TO THE DIMENSIONS TO OBTAIN THE BEST CONFIGURATION FOR THE PROJECT SITE. DIMENSIONS ARE BASED ON THE DEWATERING STRUCTURE BEING HORIZONTAL.

EROSION CONTROL PLAN LEGEND:  DEWATERING STRUCTURE

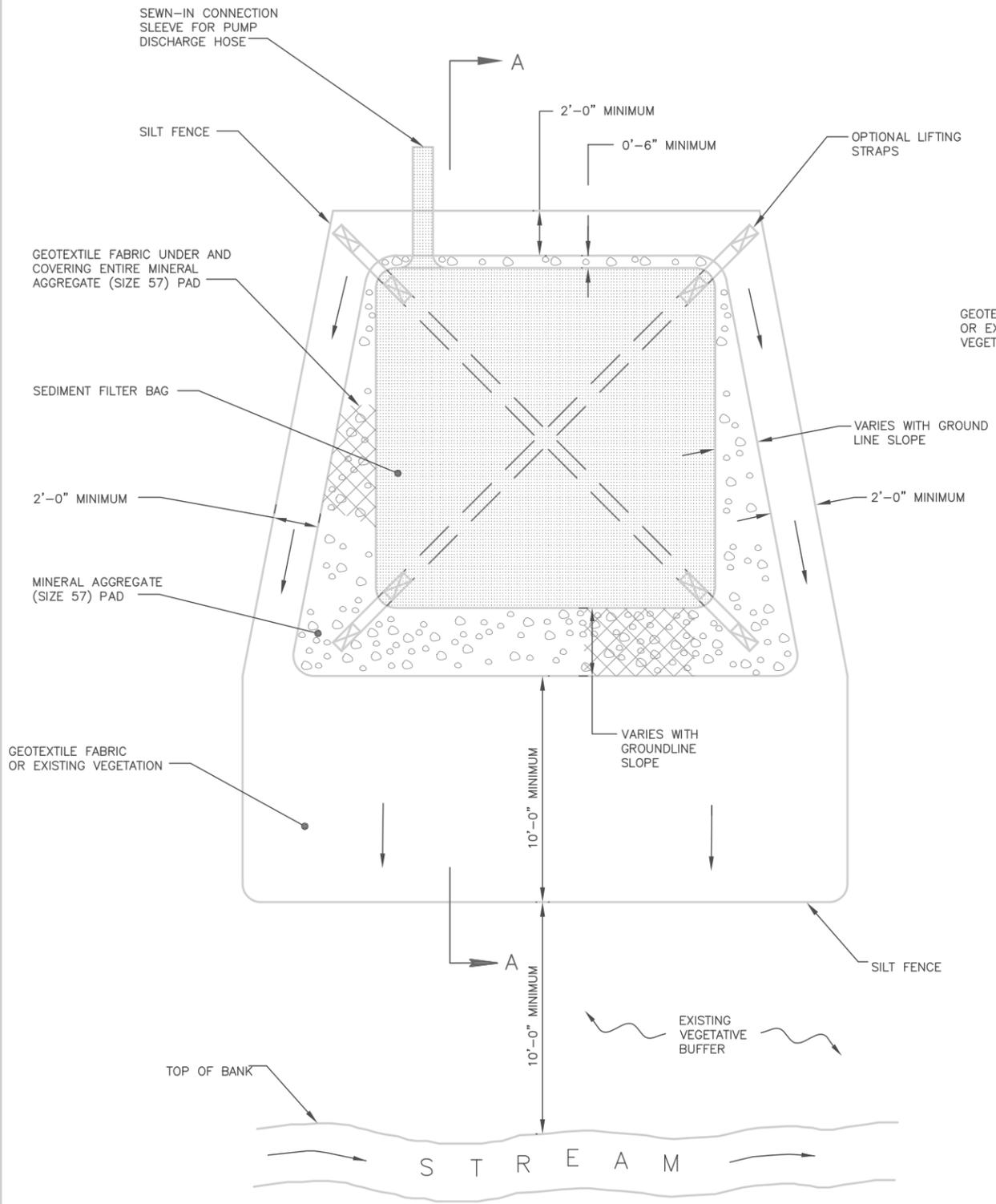
SILT FENCE AND STRAW DEWATERING PIT  
NOT TO SCALE



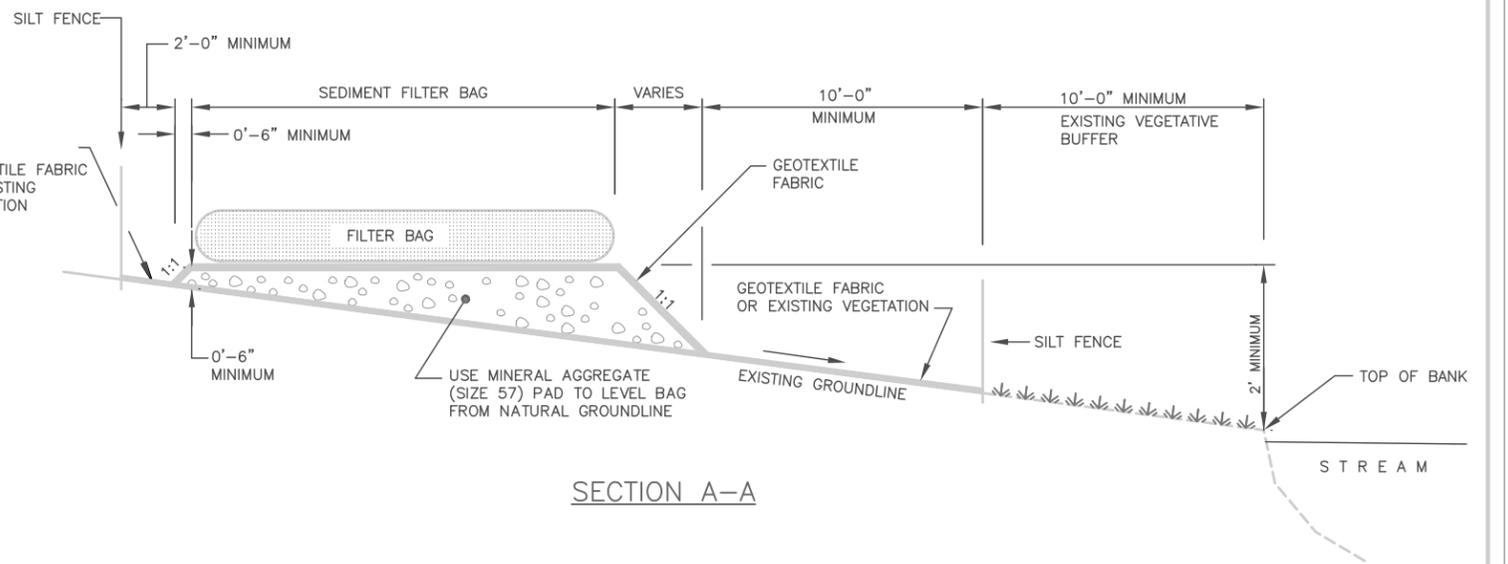
DEWATERING PRACTICES (1)

TYPE	YEAR	PROJECT NO.	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

REV. -



PLAN VIEW



SECTION A-A

EROSION CONTROL PLAN LEGEND:  DEWATERING STRUCTURE

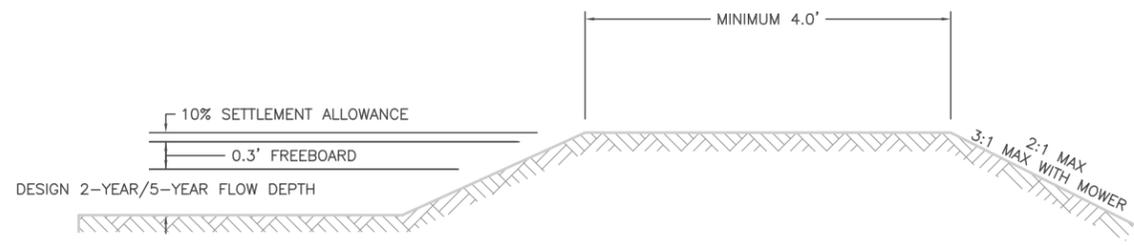
SILT FENCE AND STRAW DEWATERING PIT  
NOT TO SCALE



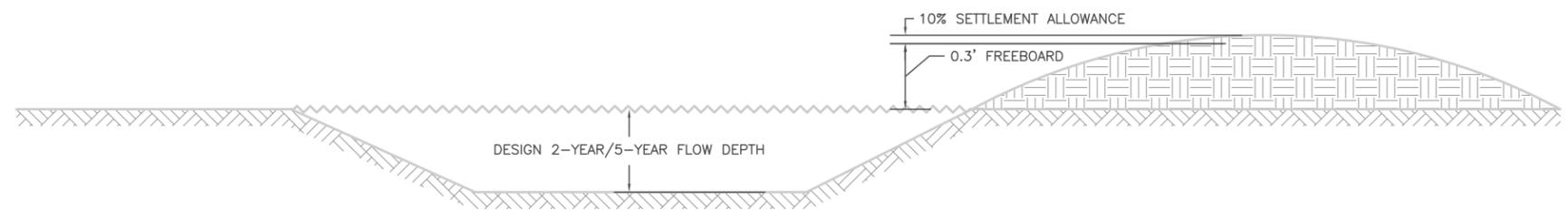
DEWATERING PRACTICES (2)

TYPE	YEAR	PROJECT NO.	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-

REV. -



DIVERSION BERM



DIVERSION CHANNEL WITH BERM

EROSION CONTROL PLAN LEGEND: → TD → DIVERSION



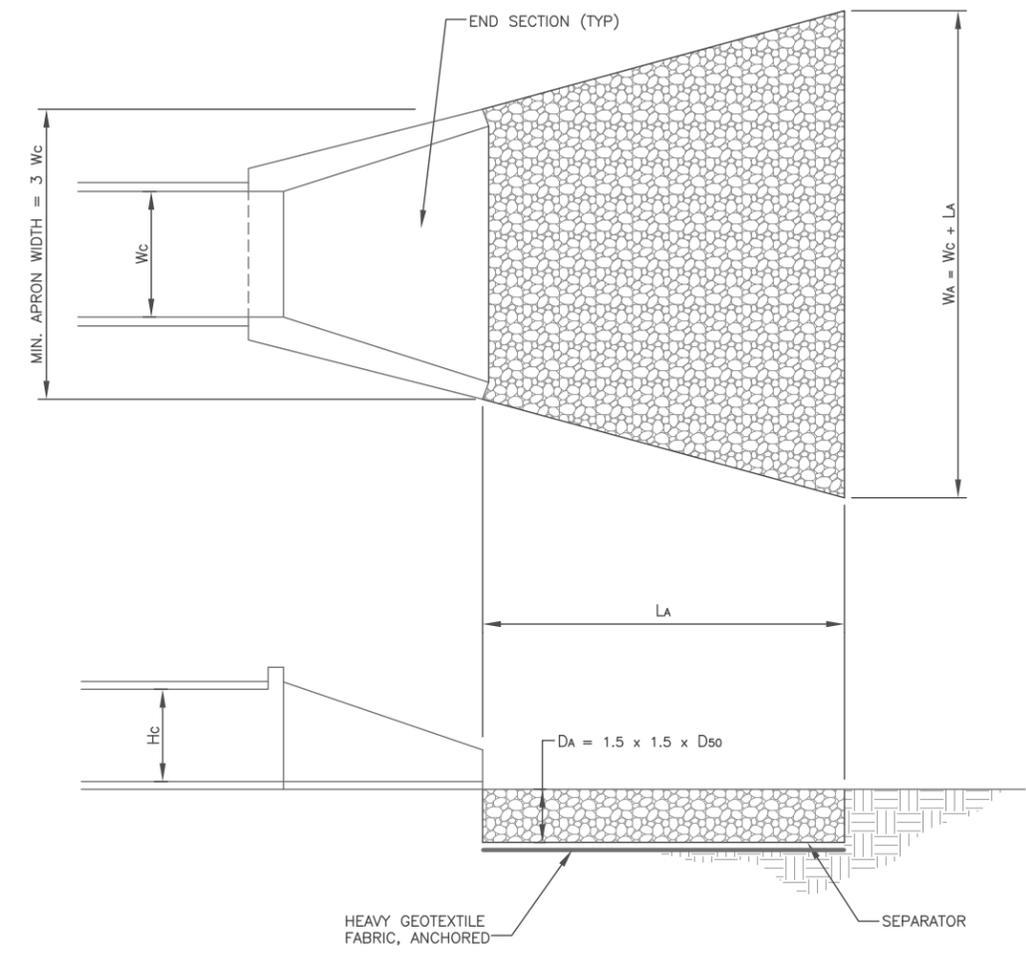
DIVERSION

NOT TO SCALE

7.22

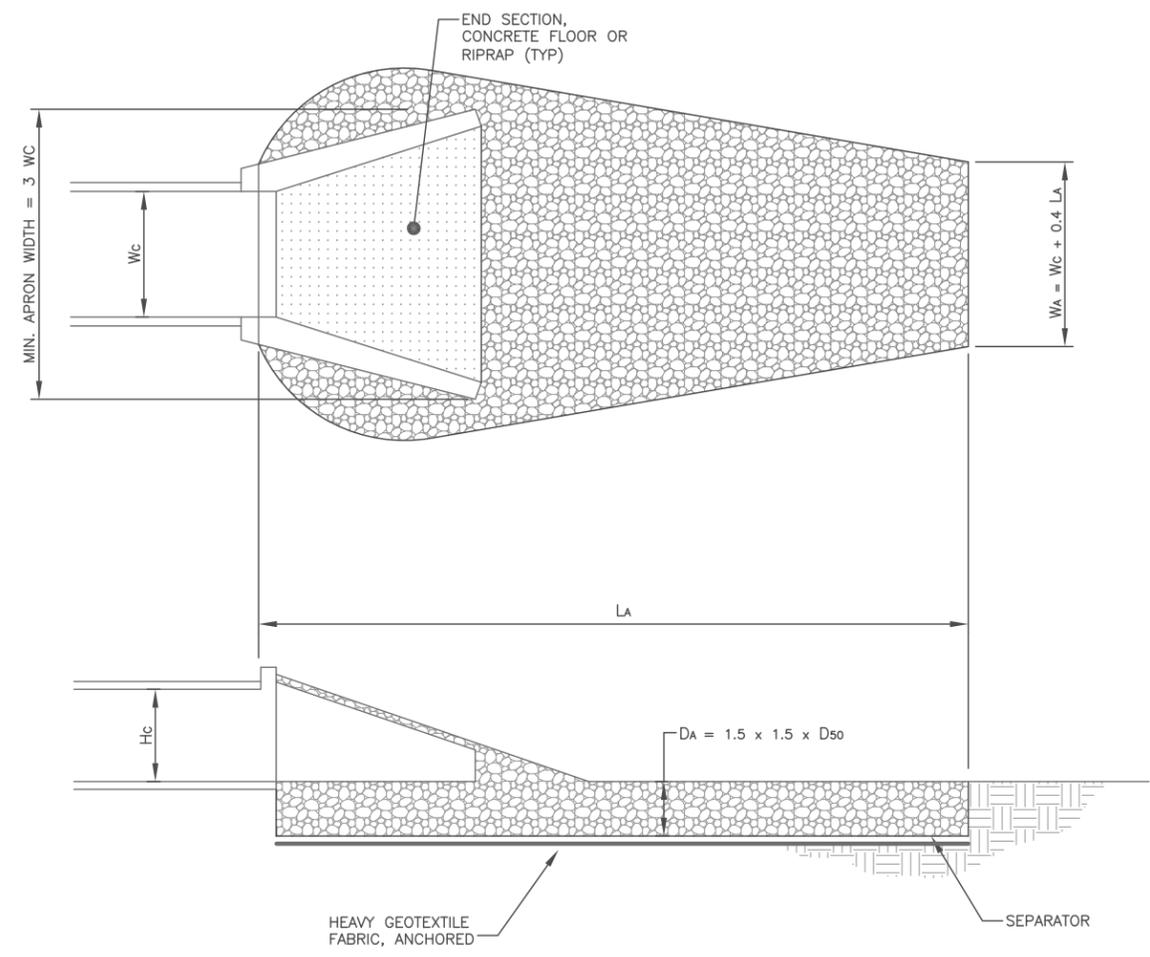
TYPE	YEAR	PROJECT NO.	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-

REV. -



TAILWATER < 0.5 Hc AND ASSUMING FULL CULVERT FLOW (LOW TAILWATER CONDITIONS)

- Hc = HEIGHT OF CULVERT
- Wc = WIDTH OF CULVERT
- LA = LENGTH OF RIP-RAP APRON
- Wa = WIDTH OF RIP-RAP APRON AT END
- D50 = MEDIAN RIP-RAP SIZE
- Dmax = MAXIMUM SIZE OF RIP-RAP = 1.5 D50
- DA = DEPTH OF RIP-RAP APRON = 1.5 Dmax
- SEPARATOR = GEOTEXTILE UNDERLAYMENT OR GRAVEL FILTER BLANKET

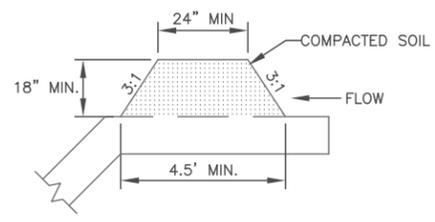


TAILWATER > 0.5 Hc AND ASSUMING FULL CULVERT FLOW (HIGH TAILWATER CONDITIONS)

TYPE	YEAR	PROJECT NO.	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-

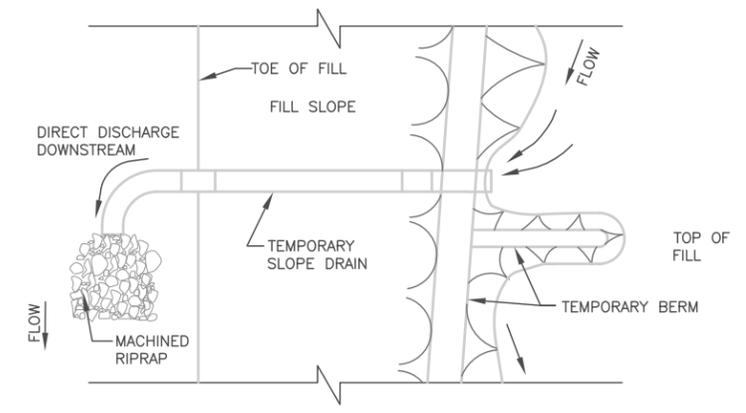
REV. -

TEMPORARY BERM DETAILS

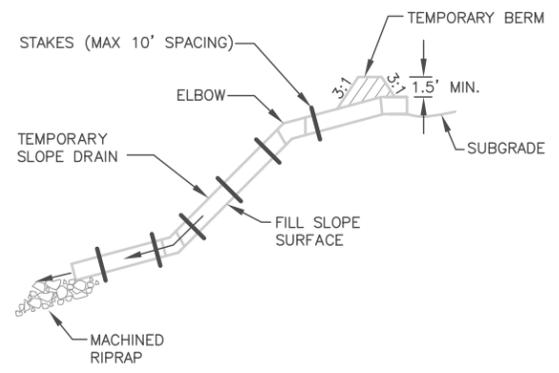


DIVERSION BERM

TEMPORARY SLOPE DRAIN WITH BERM AND RIP-RAP



PLAN VIEW



SIDE VIEW

TEMPORARY SLOPE DRAIN SIZES

NO.	PIPE DIA.	DRAINAGE AREA

EROSION CONTROL PLAN LEGEND:  SLOPE DRAIN



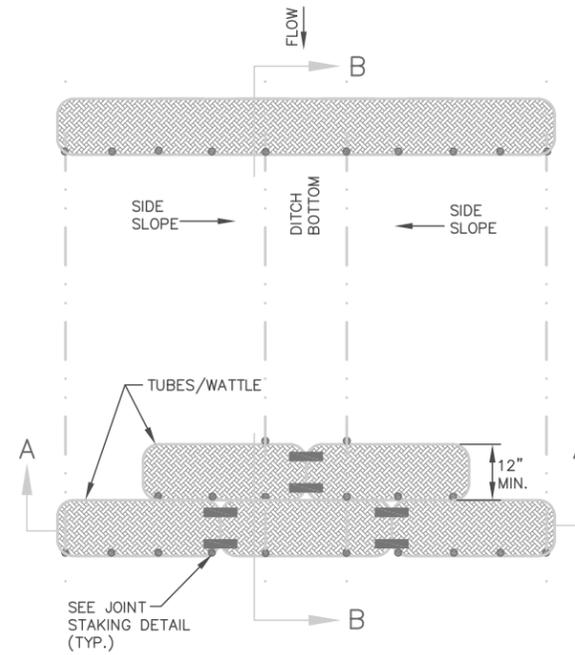
SLOPE DRAIN

NOT TO SCALE

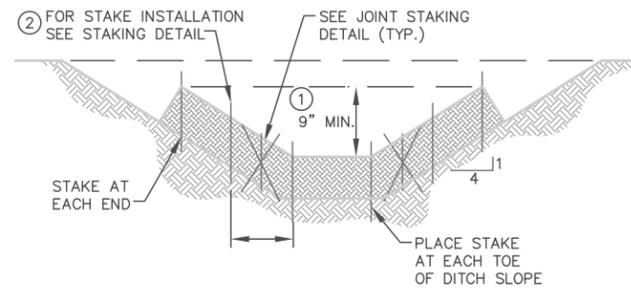
7.24

TYPE	YEAR	PROJECT NO.	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-

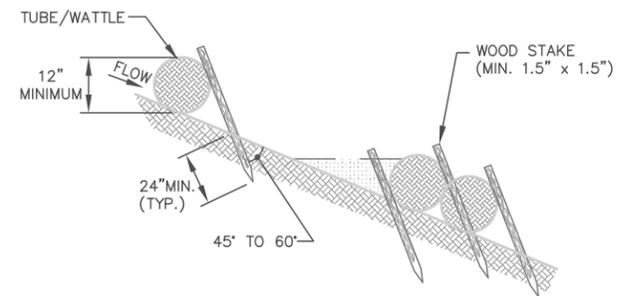
REV. -



PLAN VIEW FOR DITCH APPLICATION



SECTION A-A



SECTION B-B

NOTES:

- ① THE DEPTH AND WIDTH OF THE WEIR SECTION OF THE WATTLE SHALL BE DESIGNED TO PASS THE 2yr/24hr OR 5yr/24hr STORM EVENT WITHOUT OVERTOPPING THE CHANNEL.
- ② STAKE PER MANUFACTURERS RECOMMENDATIONS

EROSION CONTROL PLAN LEGEND: →) →) →) TUBES AND WATTLES

NOT TO SCALE

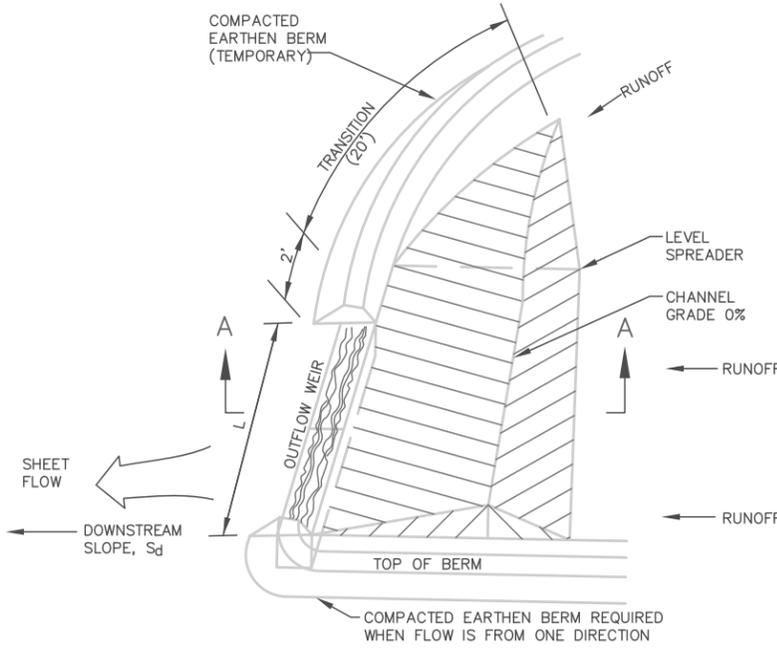


TUBES AND WATTLES

7.25

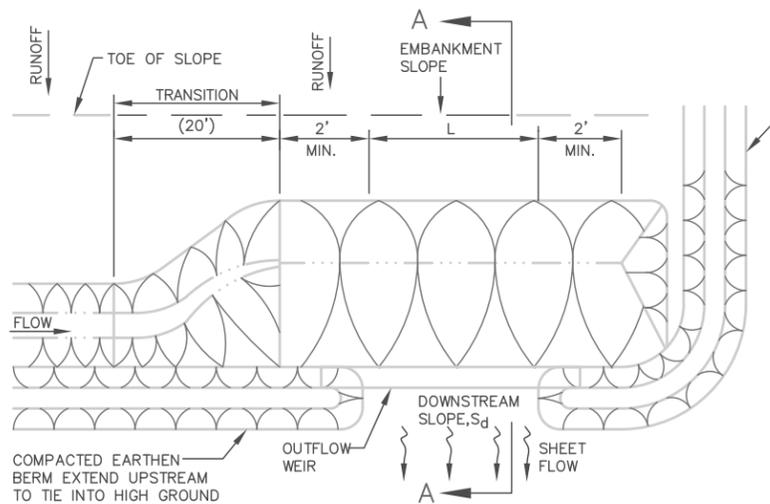
TYPE	YEAR	PROJECT NO.	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

REV. -

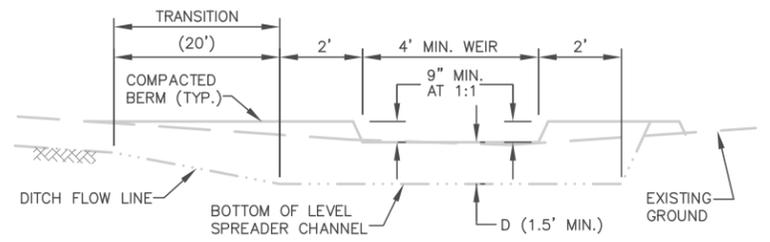


NOTE: ALL TEMPORARY BERMS, SWALES AND LEVEL SPREADER DITCH MUST BE STABILIZED IMMEDIATELY AFTER INSTALLATION

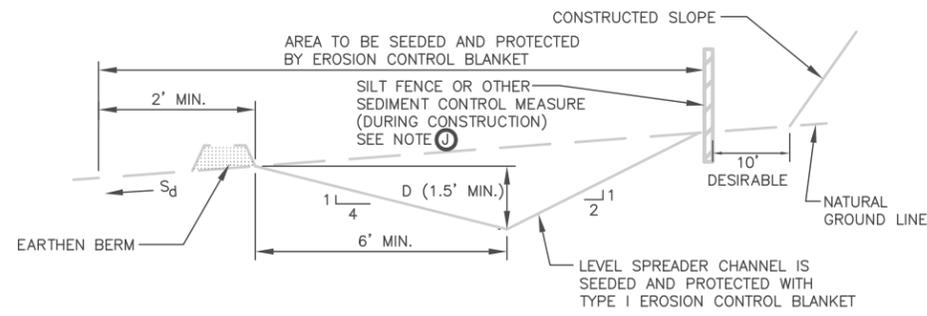
**PERSPECTIVE VIEW**  
(APPLICATION WITH TEMPORARY BERM)



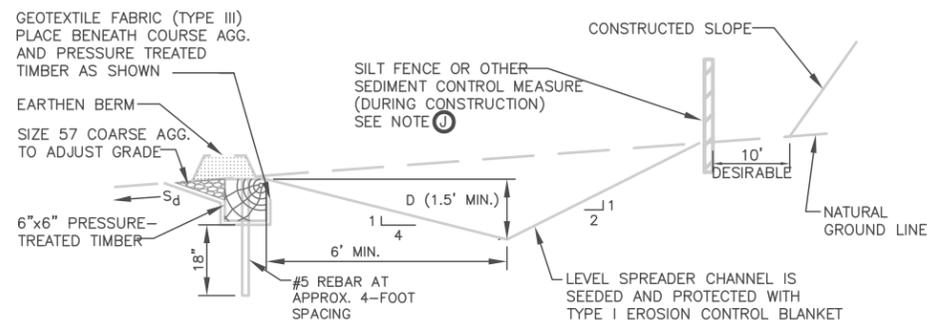
**PLAN VIEW**  
(APPLICATION WITH SIDE DITCH FROM ONE DIRECTION)



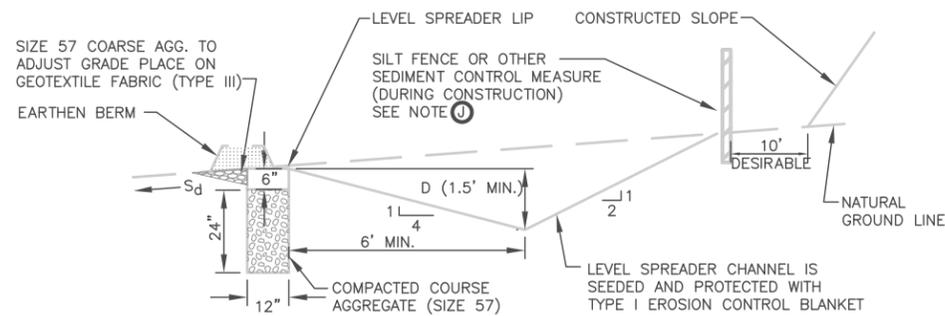
**PROFILE VIEW (HORIZONTAL)**  
(APPLICATION WITH SIDE DITCH FROM ONE DIRECTION)



**SECTION A-A**  
**TYPE I WEIR**  
(TEMPORARY APPLICATION)

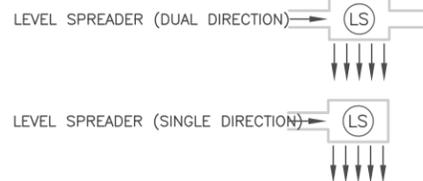


**SECTION A-A**  
**TYPE II WEIR**  
(TEMPORARY APPLICATION)



**SECTION A-A**  
**TYPE III WEIR**  
(PERMANENT APPLICATION)

EROSION CONTROL PLAN LEGEND:



**MINIMUM LEVEL SPREADER CHANNEL DEPTH "D" IN FEET**

DESIGN DISCHARGE Q (cfs)	DOWNSTREAM SLOPE, "S <sub>d</sub> " IN PERCENT (%)			
	0%-4%	4%-6%	6%-8%	8%-10%
1	1.5	1.5	1.5	1.5
2	1.5	1.5	1.7	2.0
4	1.5	1.8	2.5	3.0
7	1.9	2.5	3.5	4.1
10	2.3	3.1	4.2	*
15	3.0	3.9	*	*
20	3.5	4.5	*	*
25	3.9	5.2	*	*
30	4.3	5.7	*	*

\* = NOT RECOMMENDED

**UNIT WEIR FLOW RATES IN CFS/LF**

DOWNSTREAM SLOPE, "S <sub>d</sub> " IN PERCENT (%)			
0%-4%	4%-6%	6%-8%	8%-10%
0.49	0.20	0.07	0.04

WEIR LENGTH "L" = DESIGN Q IN CFS DIVIDED BY UNIT WEIR FLOW IN CFS/LF  
MINIMUM WEIR LENGTH = 4 FEET  
WEIR LENGTH > 200 FEET IS NOT RECOMMENDED

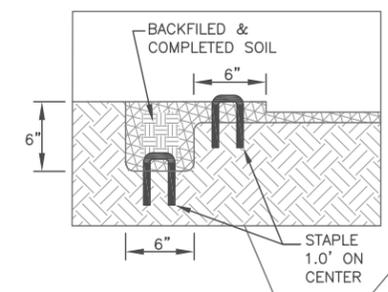
EXAMPLE: DESIGN Q = 7 cfs  
S<sub>d</sub> = 6%  
THUS, L = 7/0.20 = 35 FEET  
D = 2.5 FEET



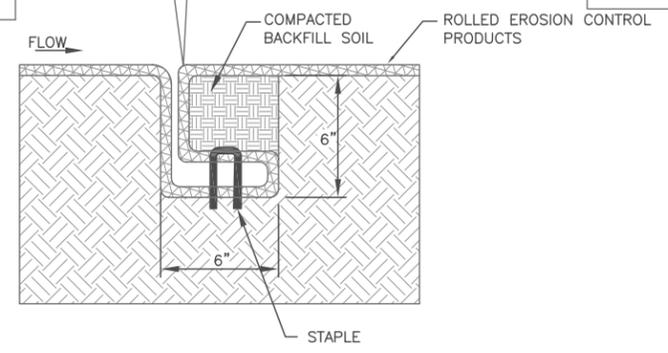
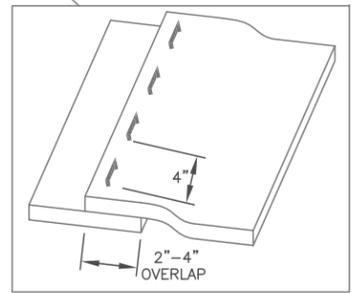
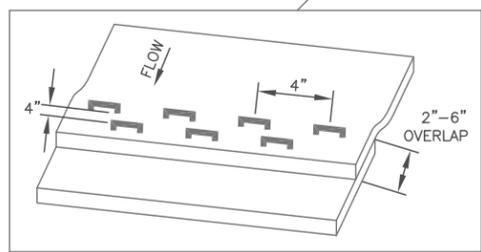
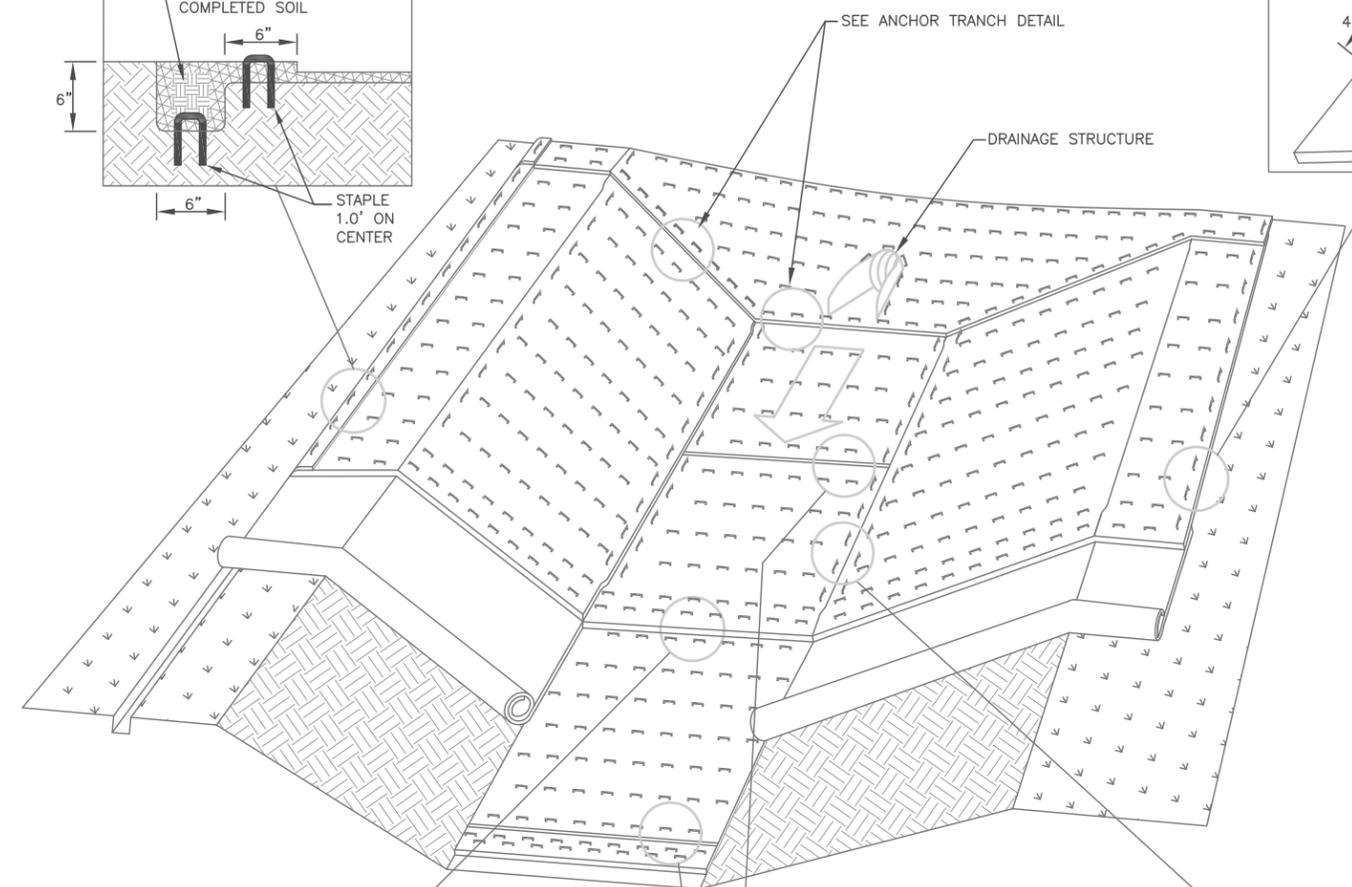
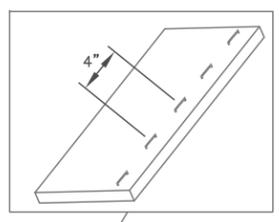
LEVEL SPREADER

NOT TO SCALE

ANCHOR TRENCH DETAIL



ALTERNATE ANCHOR



SLOPE INTERRUPTION CHECK SLOT  
SEE NOTE (H)

TYPE	YEAR	PROJECT NO.	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-

REV. -

EROSION CONTROL PLAN LEGEND: ROLLED EROSION CONTROL PRODUCTS



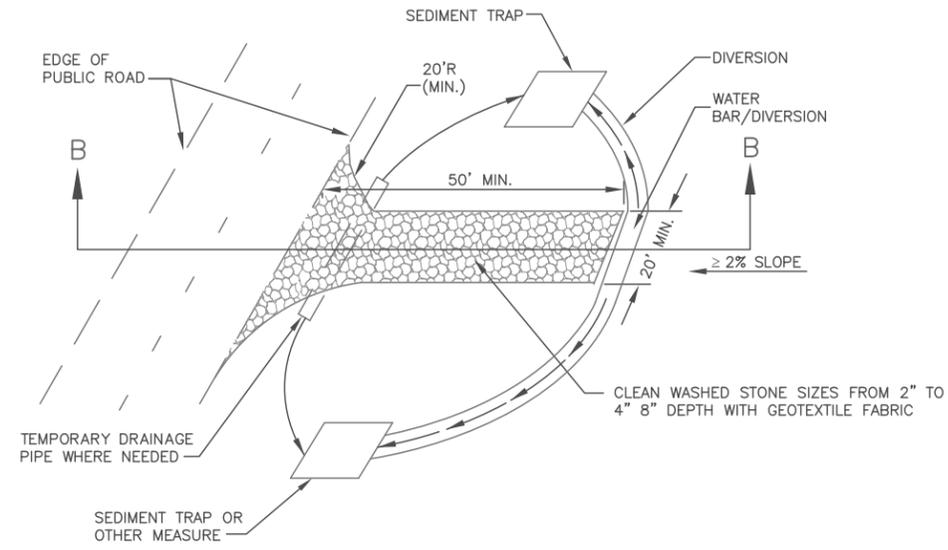
CHANNEL

NOT TO SCALE

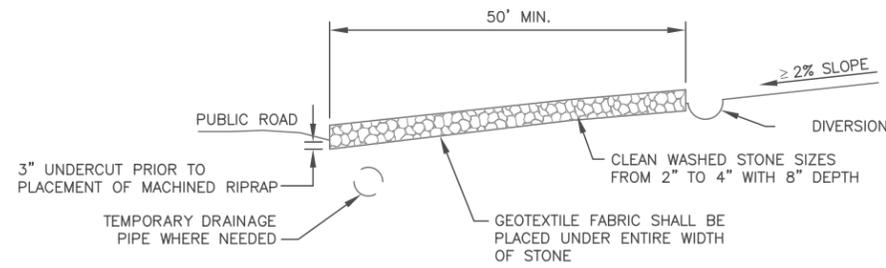
7.27

TYPE	YEAR	PROJECT NO.	SHEET NO.
--	--	--	--
--	--	--	--
--	--	--	--
--	--	--	--

REV. --



PLAN VIEW OF TEMPORARY CONSTRUCTION ROAD



SECTION B-B



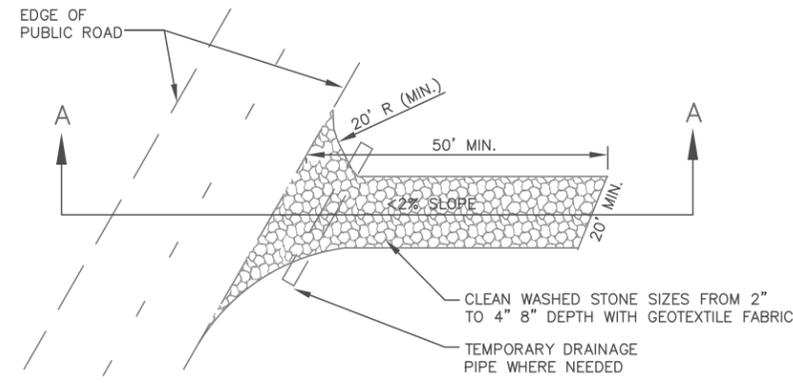
CONSTRUCTION EXIT WITH WATER BAR

NOT TO SCALE

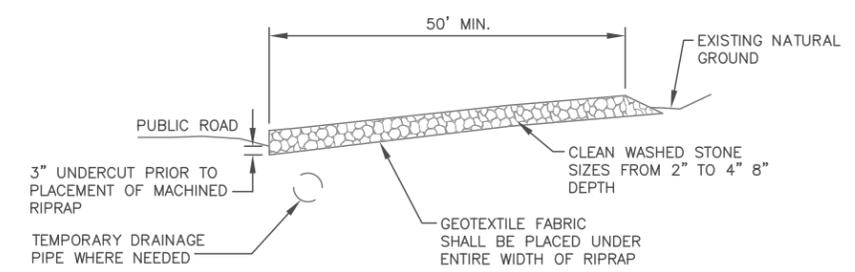
7.28

TYPE	YEAR	PROJECT NO.	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

REV. -



PLAN VIEW OF TEMPORARY CONSTRUCTION ROAD



SECTION A-A



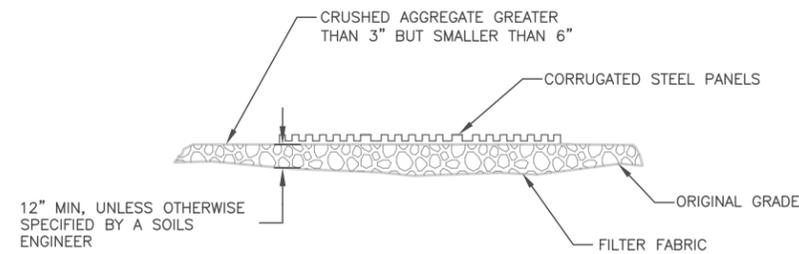
CONSTRUCTION EXIT

NOT TO SCALE

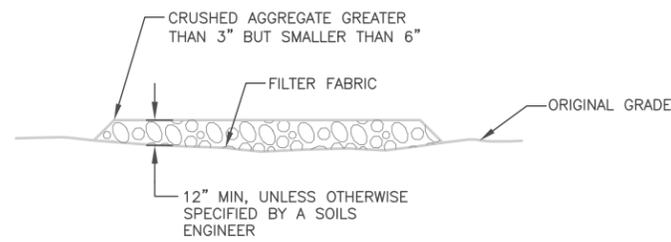
7.28

TYPE	YEAR	PROJECT NO.	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

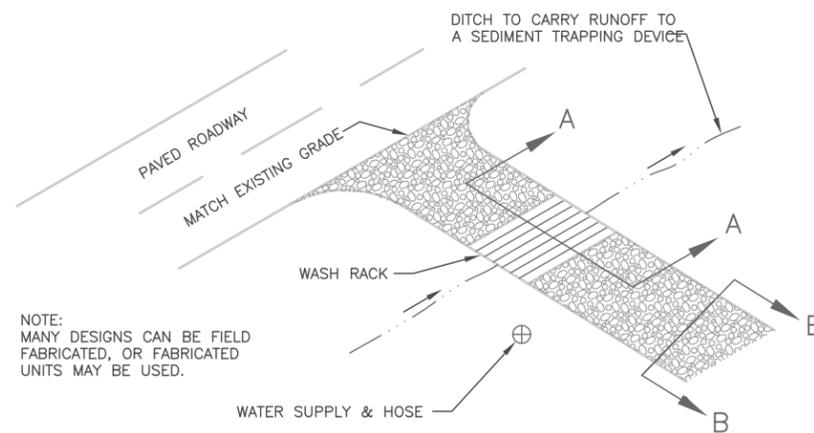
REV. -



SECTION A-A



SECTION B-B



NOTE:  
MANY DESIGNS CAN BE FIELD  
FABRICATED, OR FABRICATED  
UNITS MAY BE USED.

TYPICAL TIRE WASH



TIRE WASHING FACILITY



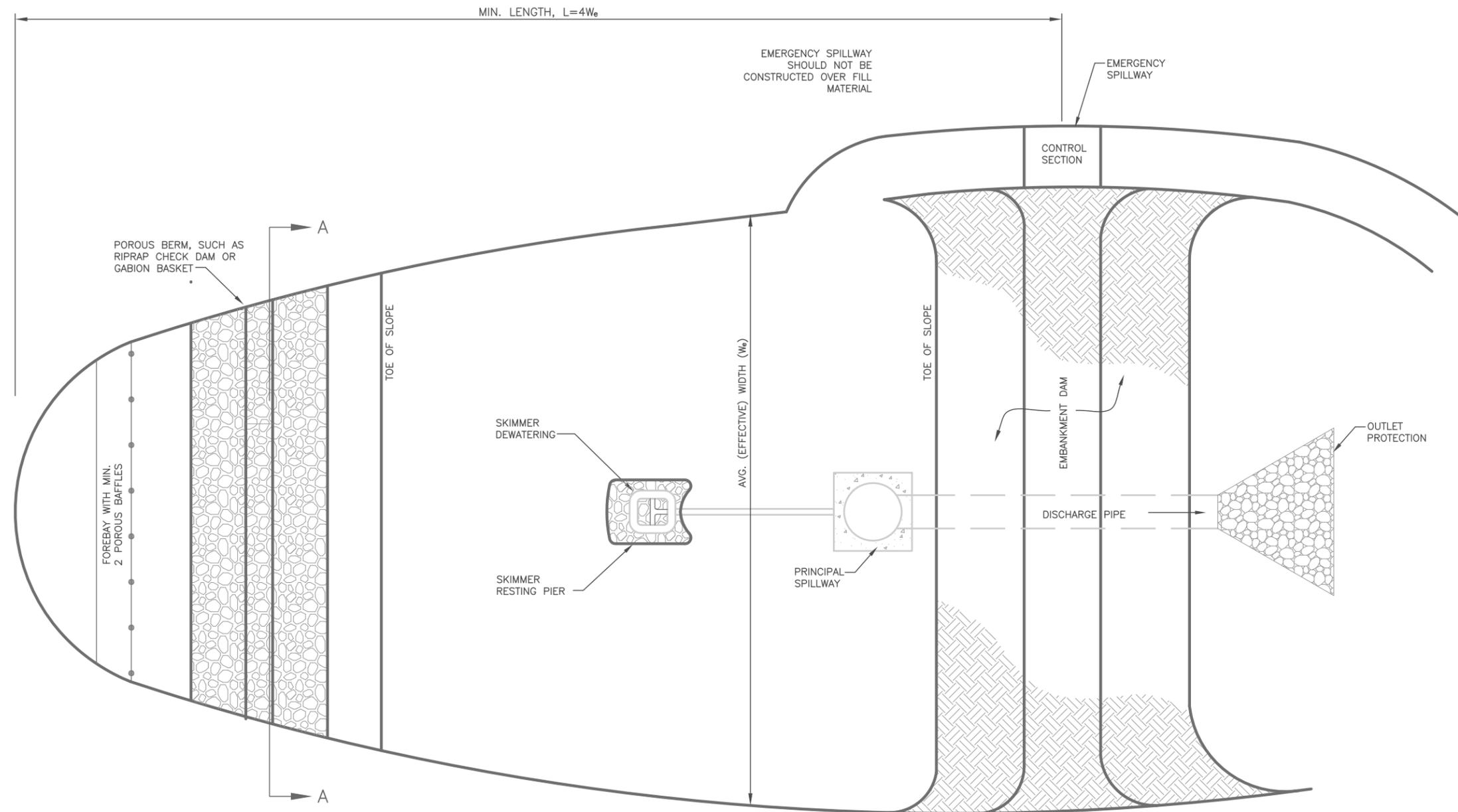
TIRE WASHING FACILITY

NOT TO SCALE

7.29

TYPE	YEAR	PROJECT NO.	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

REV. --



PLAN VIEW

EROSION CONTROL PLAN LEGEND :  SEDIMENT BASIN



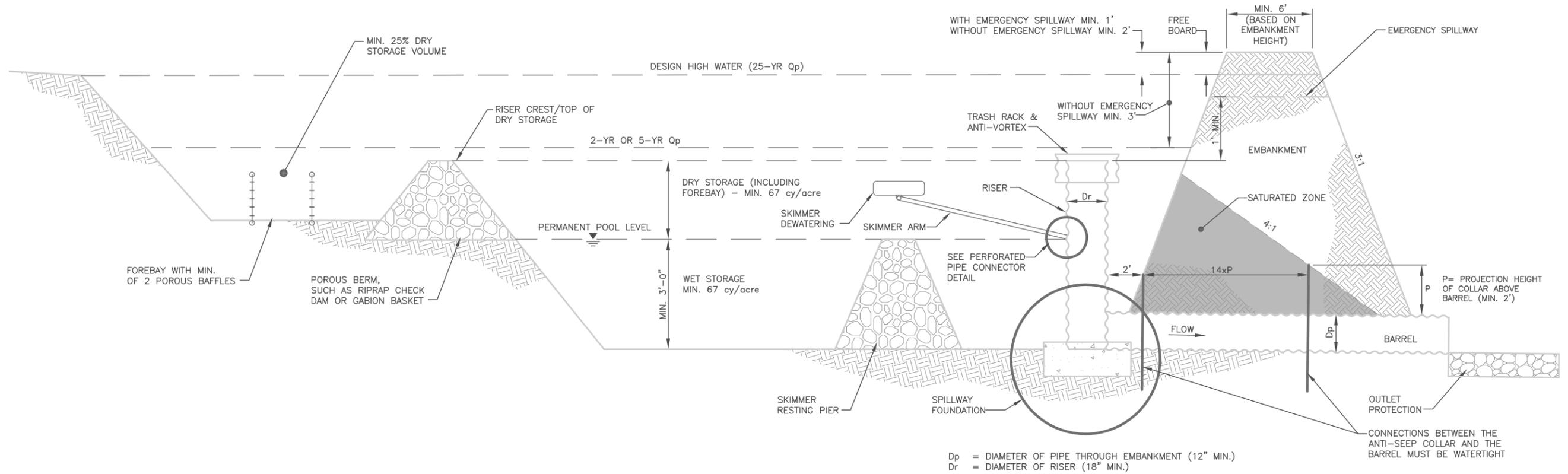
SEDIMENT BASIN

NOT TO SCALE

7.31

TYPE	YEAR	PROJECT NO.	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

REV. -



Dp = DIAMETER OF PIPE THROUGH EMBANKMENT (12" MIN.)  
 Dr = DIAMETER OF RISER (18" MIN.)

BASIN SCHEDULE

FACILITY	RISER PIPE DIA. (FT.)	BARREL PIPE DIA. (FT.)	PERMANENT POOL ELEVATION	PRINCIPAL SPILLWAY ELEVATION FEET, AMSL	EMERGENCY SPILLWAY ELEVATION FEET, AMSL	EMERGENCY SPILLWAY WIDTH	EMERGENCY SPILLWAY SIDESLOPE	TOP OF EMBANKMENT ELEVATION FEET, AMSL	BOTTOM OF BASIN ELEVATION FEET, AMSL
BASIN 1	00'	00'	000.00	000.00	000.00	00'	?H:?V	000.00	000.00

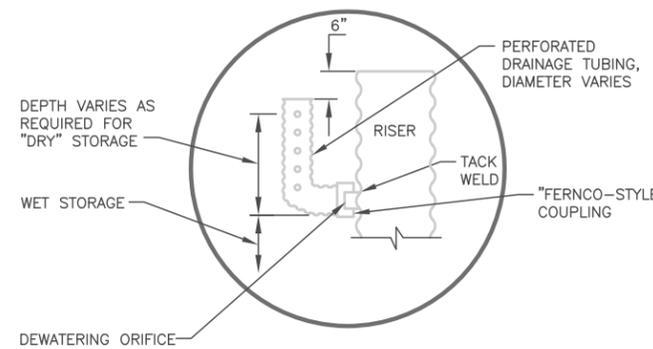
PERFORATED PIPE DEWATERING DEVICE SPECIFICATIONS

FACILITY	PIPE DIAMETER	INLET ELEVATION	NUMBER OF SLOTS/HOLES
BASIN 1	0.0"	000.00	0

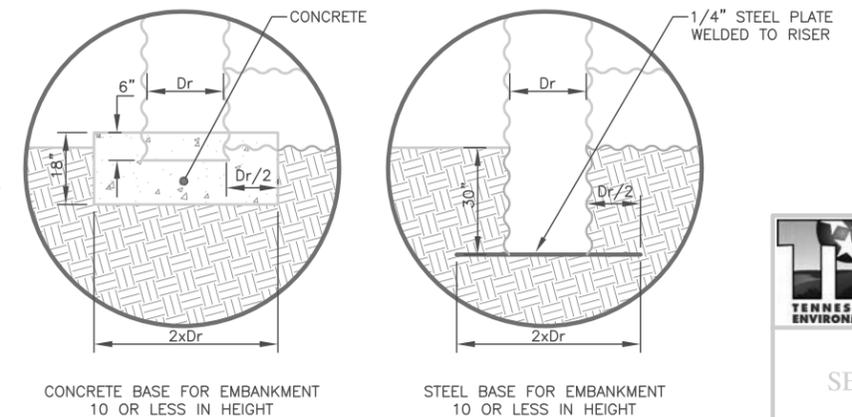
SKIMMER DEWATERING DEVICE SPECIFICATIONS

FACILITY	SKIMMER NO.	ARM DIAMETER	ORIFICE DIAMETER
BASIN 1	0	0.0"	0.0"

ALTERNATIVE DEWATERING DEVICE PERFORATED VERTICAL PIPE OR TUBING



SPILLWAY FOUNDATIONS FOR RISER HEIGHTS <10'

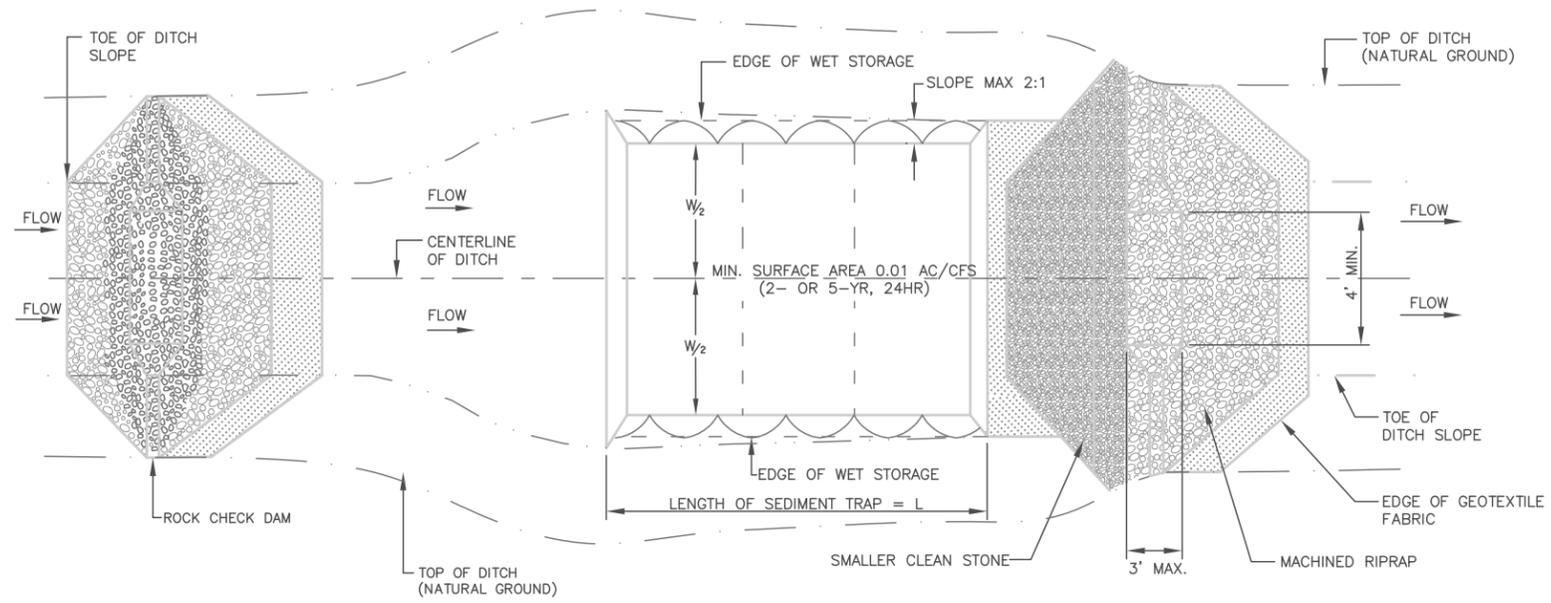


SEDIMENT BASIN

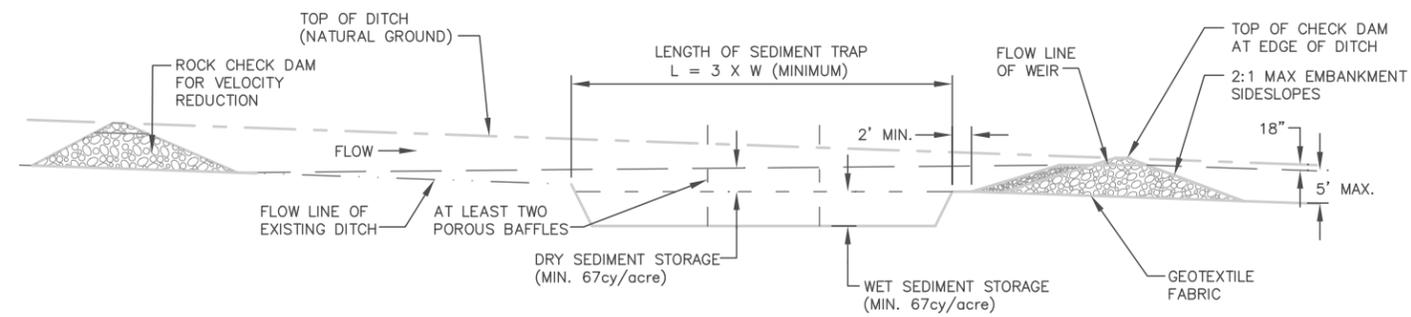
NOT TO SCALE

TYPE	YEAR	PROJECT NO.	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-

REV. -



PLAN VIEW



PROFILE VIEW

- EROSION CONTROL PLAN LEGEND:  SEDIMENT TRAP WITH ENHANCED ROCK CHECK DAM
- EROSION CONTROL PLAN LEGEND:  SEDIMENT TRAP WITH GABION CHECK DAM



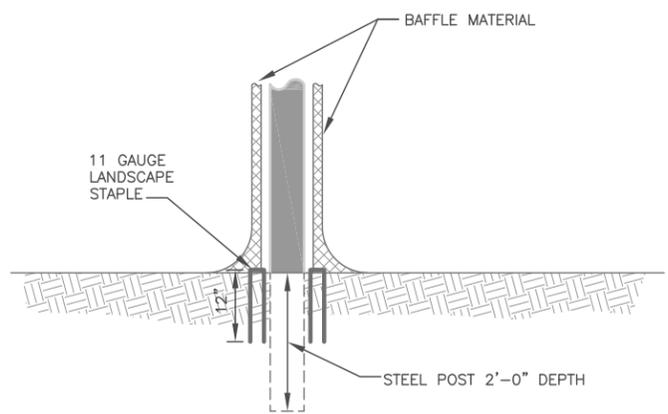
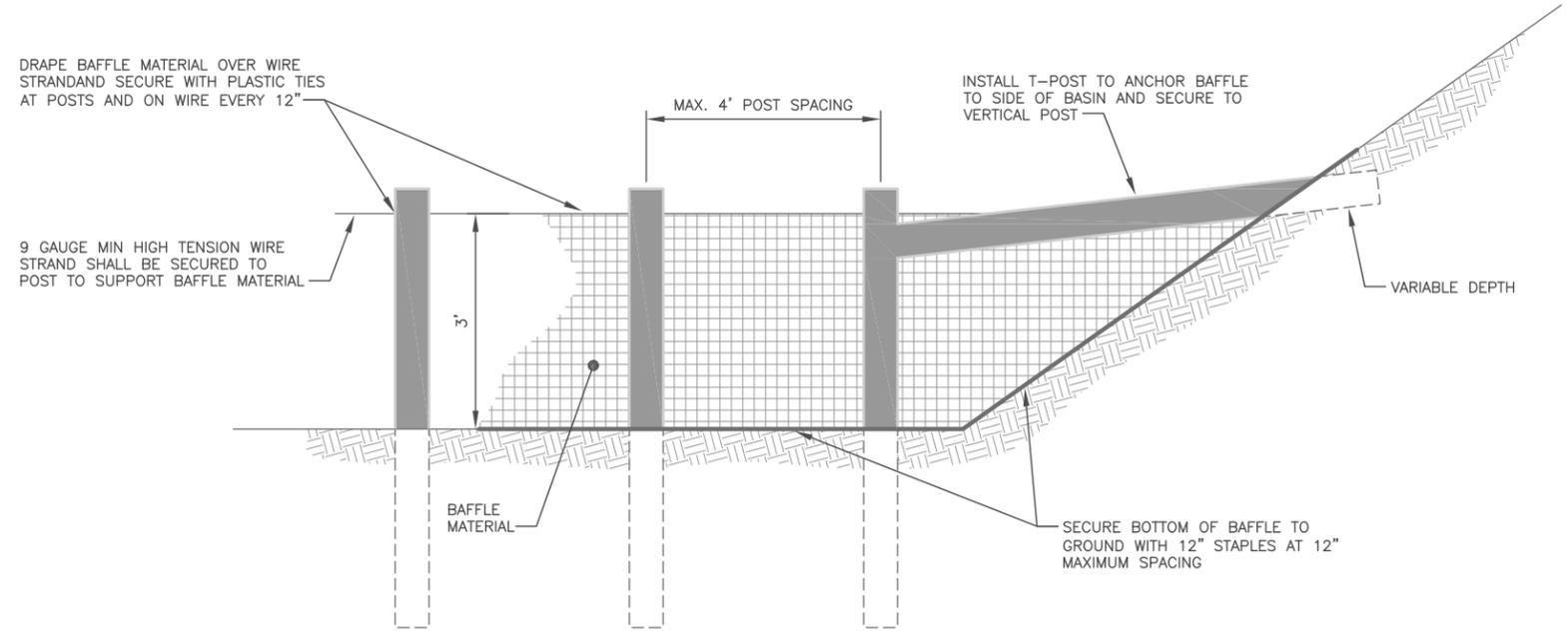
SEDIMENT TRAP

NOT TO SCALE

7.32

TYPE	YEAR	PROJECT NO.	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-

REV. -



BAFFLE MATERIAL SHALL BE SECURED TO THE BOTTOM AND SIDES OF BASIN USING 12" LANDSCAPE STAPLES



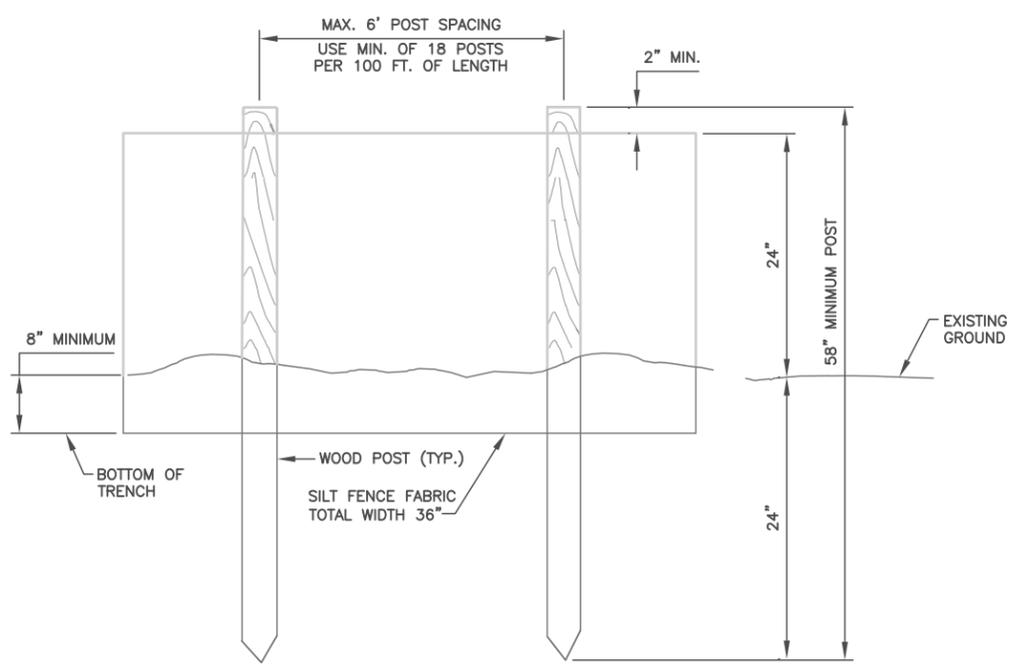
POROUS BAFFLE

7.33

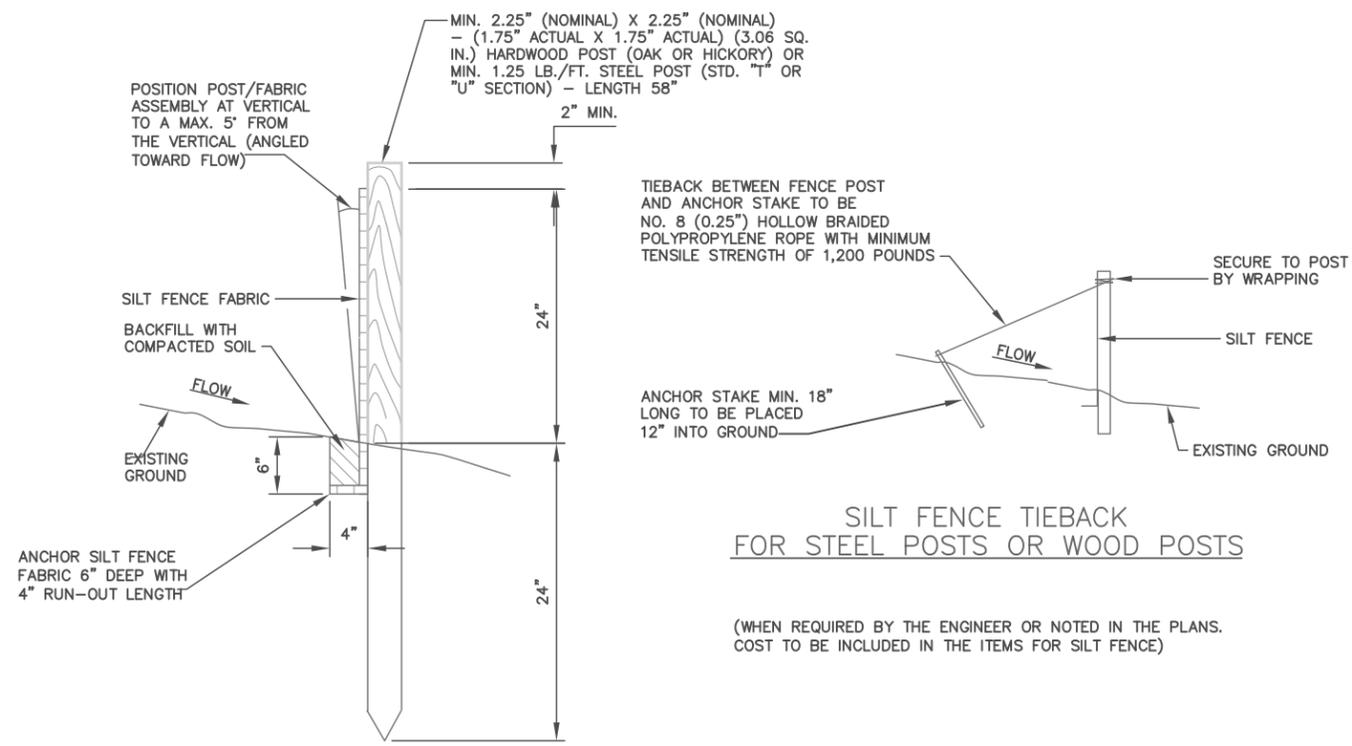
NOT TO SCALE

TYPE	YEAR	PROJECT NO.	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-

REV. -



ELEVATION VIEW



SILT FENCE TIEBACK FOR STEEL POSTS OR WOOD POSTS

(WHEN REQUIRED BY THE ENGINEER OR NOTED IN THE PLANS. COST TO BE INCLUDED IN THE ITEMS FOR SILT FENCE)

EROSION CONTROL PLAN LEGEND:  SILT FENCE



SILT FENCE

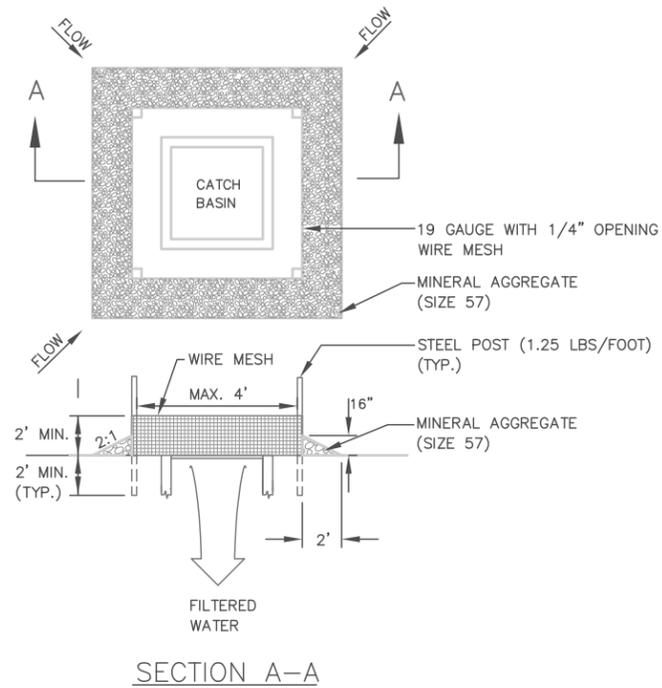
NOT TO SCALE

7.34

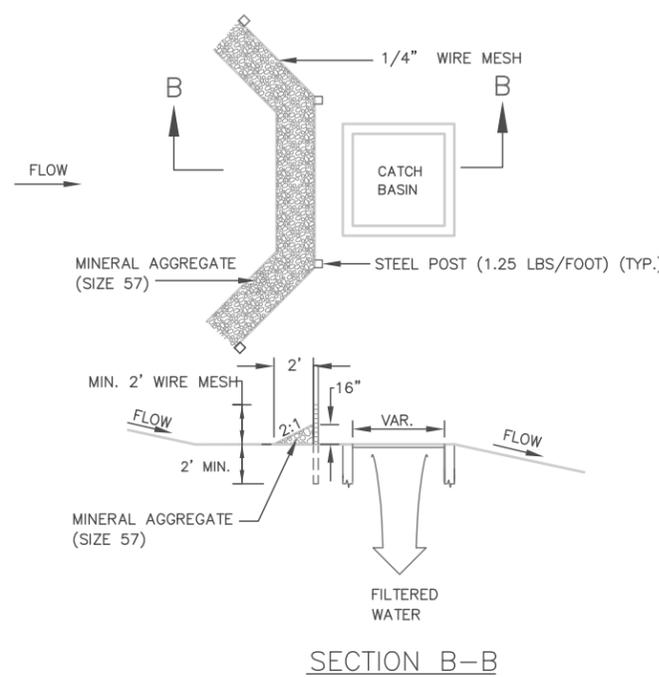
TYPE	YEAR	PROJECT NO.	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

REV. -

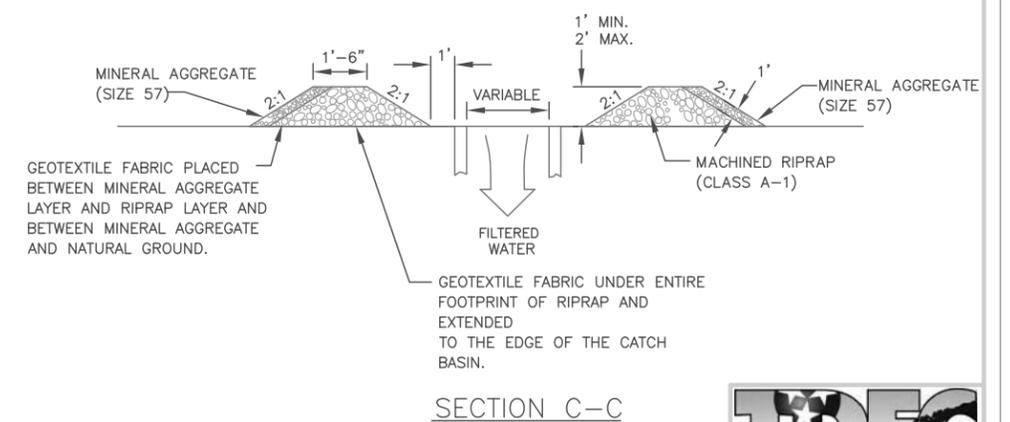
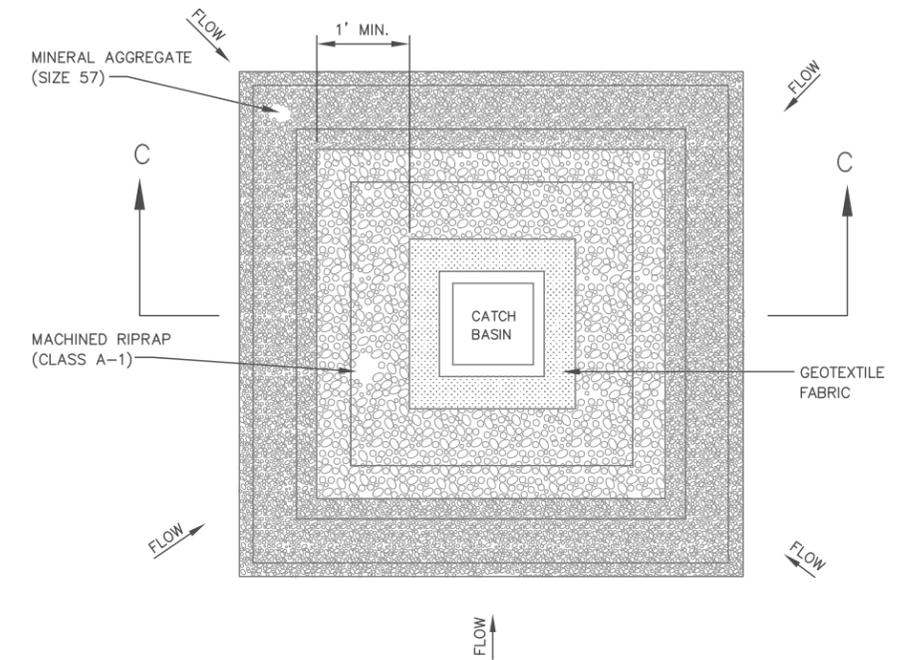
**HARDWARE CLOTH AND GRAVEL INLET PROTECTION**



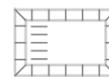
**HARDWARE CLOTH AND GRAVEL INLET PROTECTION (FLOW FROM ONE SIDE)**



**CATCH BASIN PROTECTION**



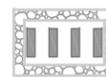
EROSION CONTROL PLAN LEGEND:



EXCAVATED INLET PROTECTION



HARDWARE CLOTH AND GRAVEL INLET PROTECTION



ROCK RING INLET PROTECTION



BLOCK AND GRAVEL INLET PROTECTION



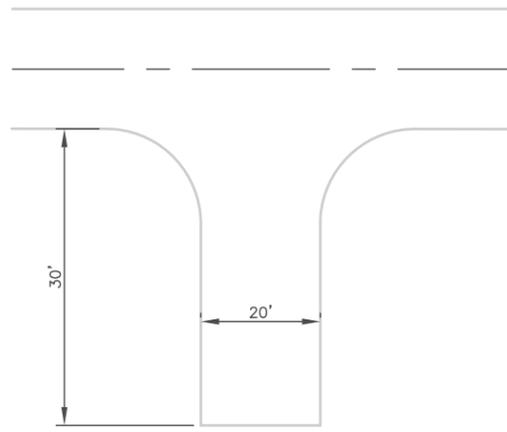
INLET PROTECTION

NOT TO SCALE

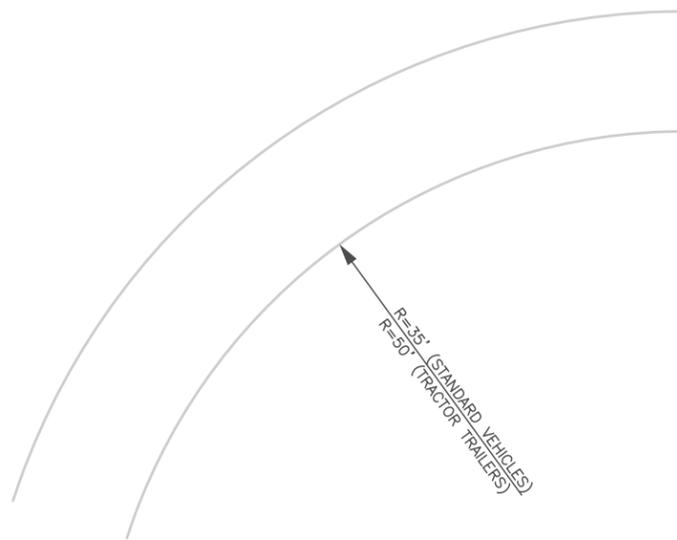
7.35

TYPE	YEAR	PROJECT NO.	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

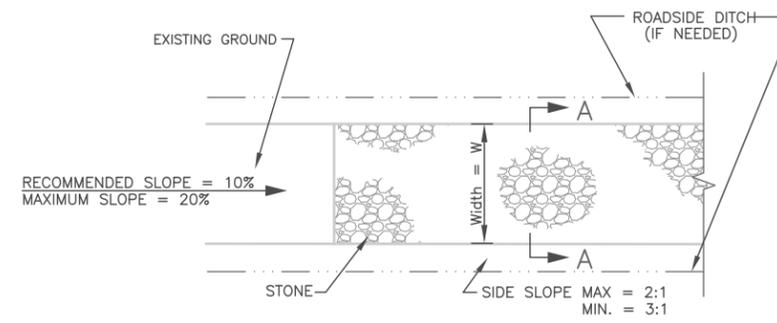
REV. -



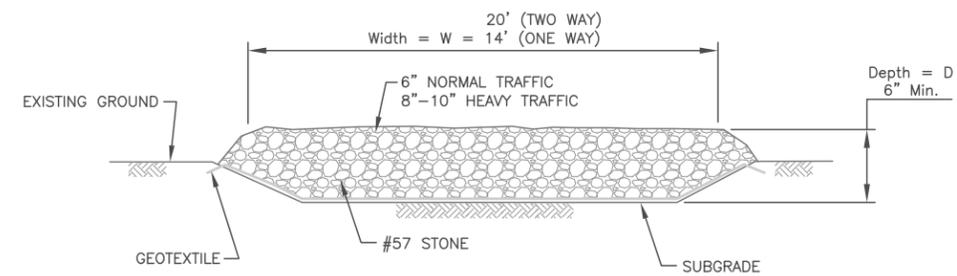
TURNOUTS



CURVES



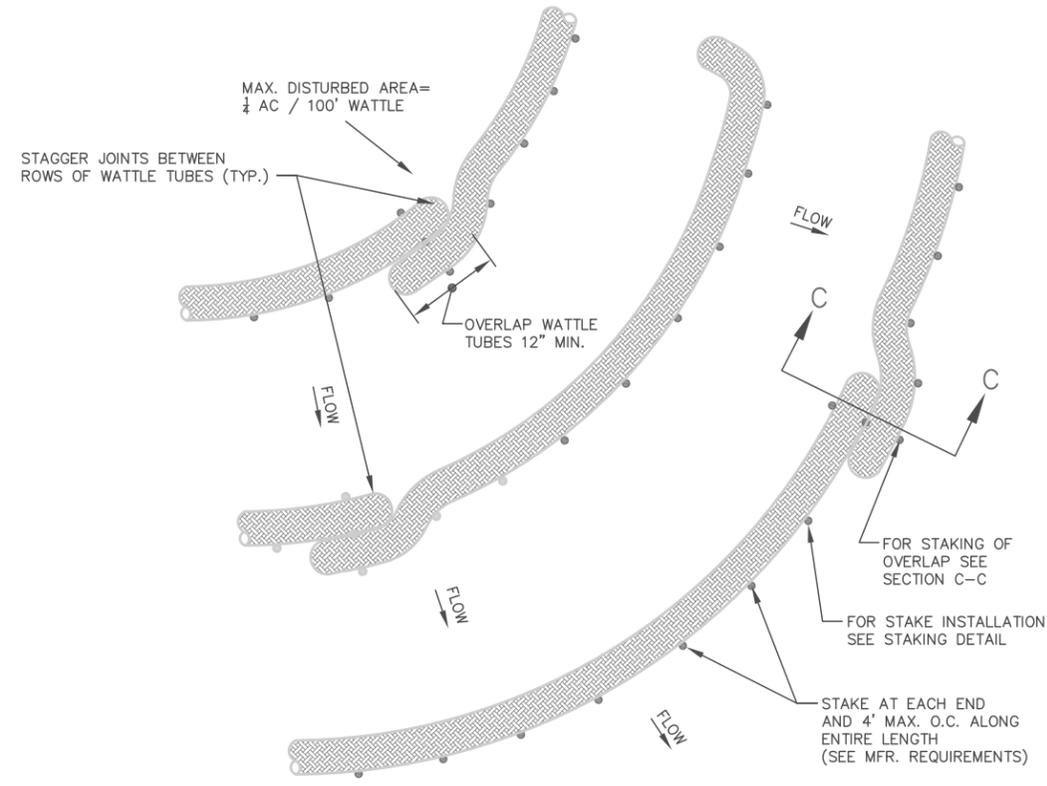
PLAN VIEW



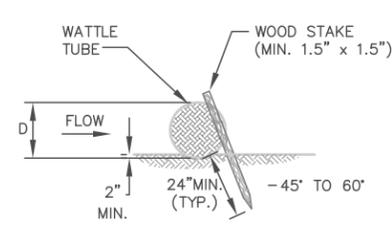
SECTION A-A

TYPE	YEAR	PROJECT NO.	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-

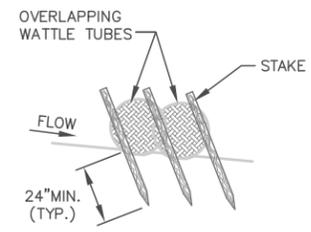
REV. -



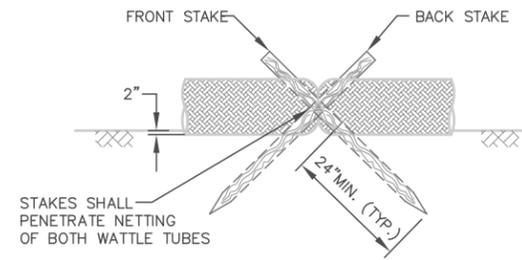
PLAN VIEW FOR SLOPE APPLICATION



STAKING DETAIL



SECTION C-C



JOINT STAKING DETAIL

EROSION CONTROL PLAN LEGEND: → ) → ) → )



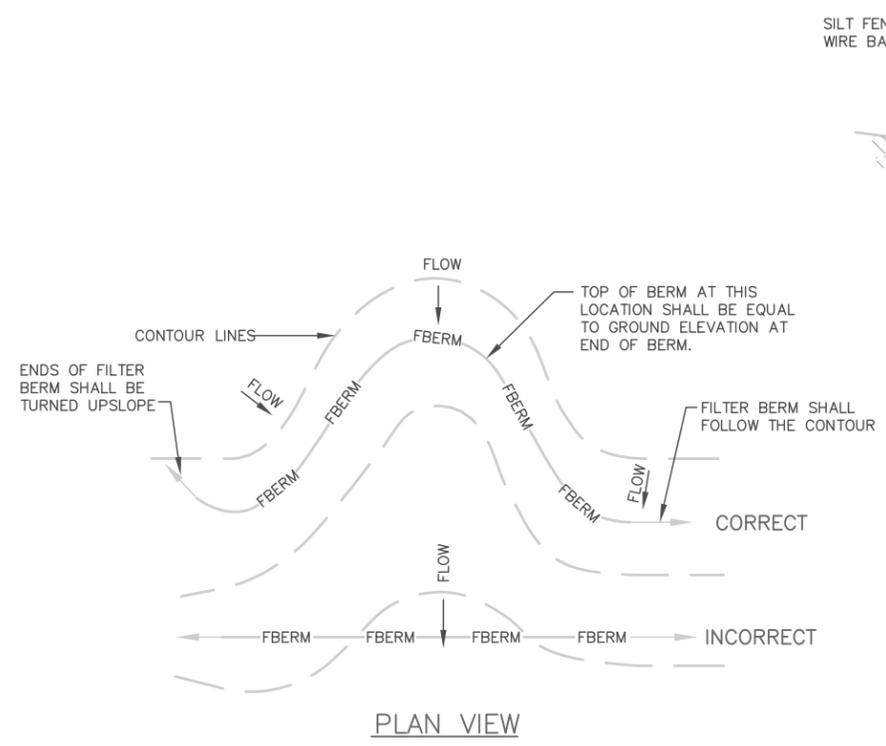
TUBES AND WATTLES

NOT TO SCALE

7.37

TYPE	YEAR	PROJECT NO.	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-

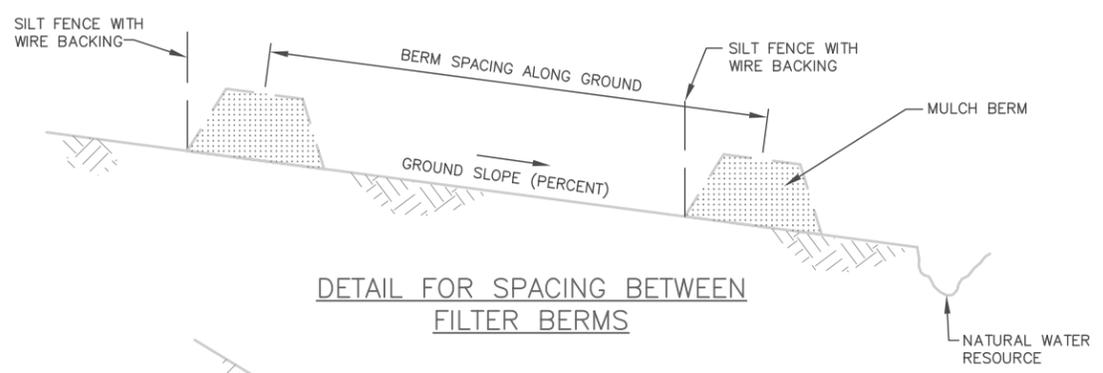
REV. -



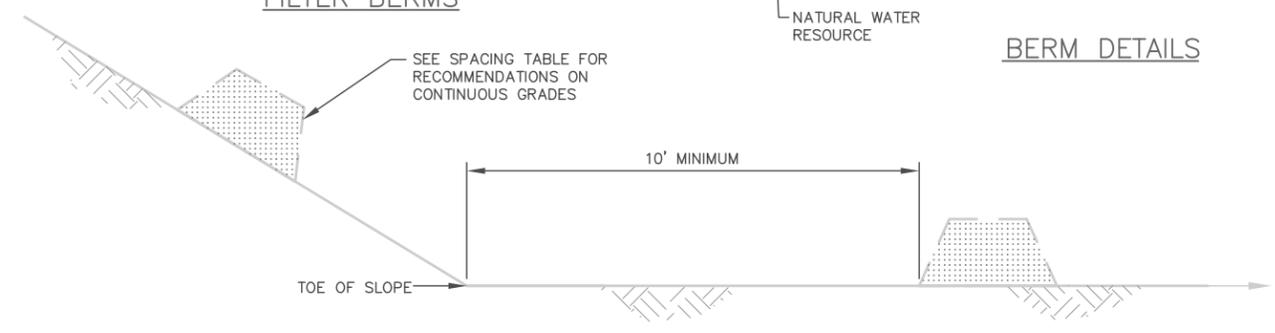
PLAN VIEW

GROUND SLOPE (%)	RECOMMENDED SPACING BETWEEN BERMS ALONG GROUND (FT)
<2	110
2-5	100
5-10	75
10-20	25
>20	NOT ALLOWED

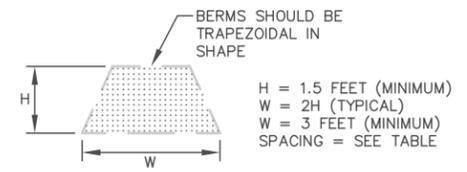
EROSION CONTROL PLAN LEGEND: — FBERM — FBERM —



DETAIL FOR SPACING BETWEEN FILTER BERMS



SLOPE PROFILE



BERM DETAILS

H = 1.5 FEET (MINIMUM)  
W = 2H (TYPICAL)  
W = 3 FEET (MINIMUM)  
SPACING = SEE TABLE



FILTER BERM

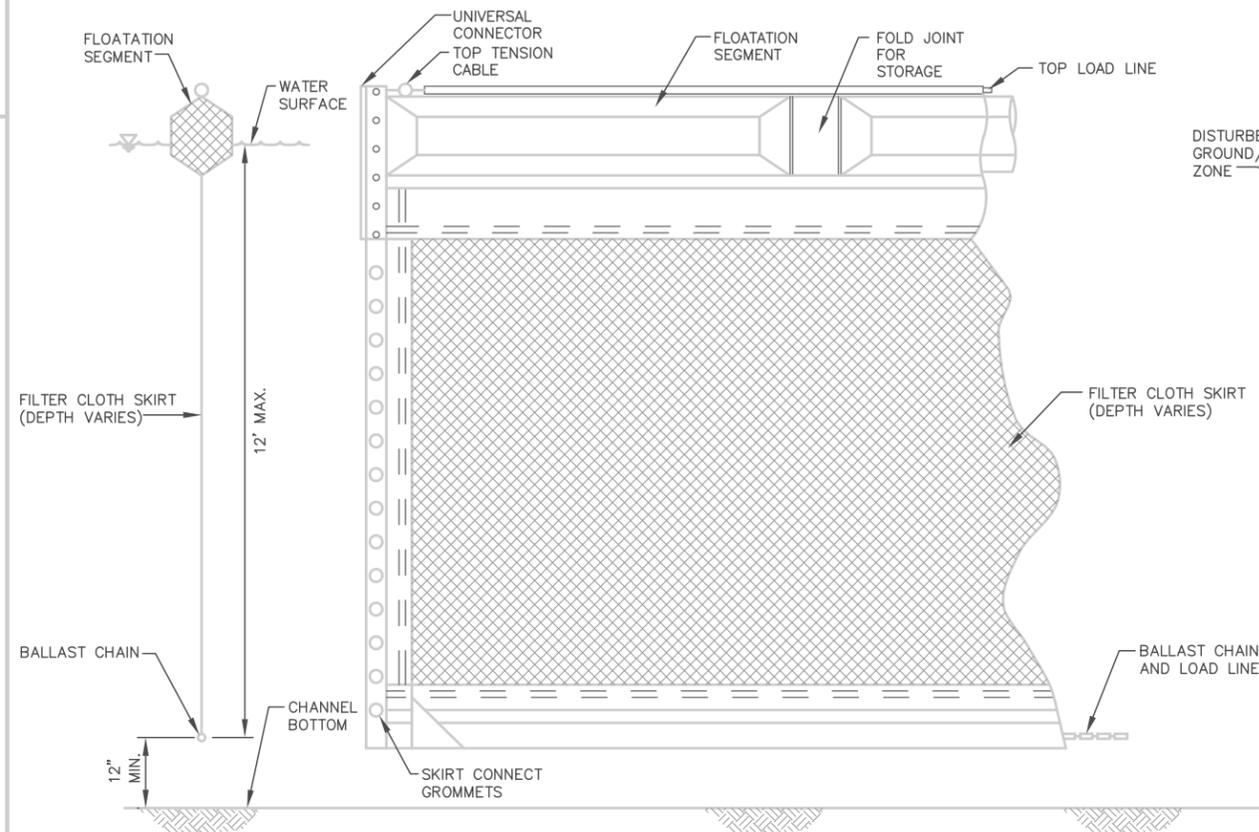
NOT TO SCALE

7.38

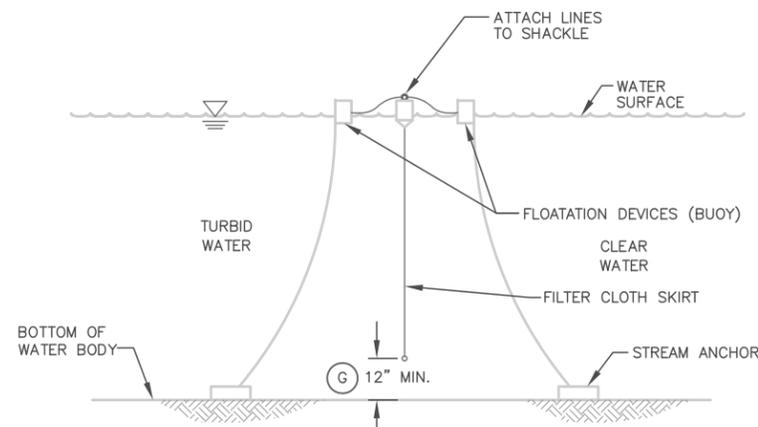
TYPE	YEAR	PROJECT NO.	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-

REV. -

**TURBIDITY CURTAIN**



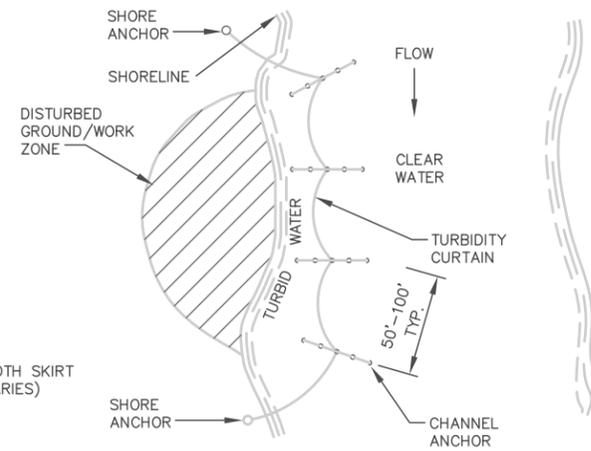
**TYPICAL ANCHORING SECTION**



**SECTION A-A**

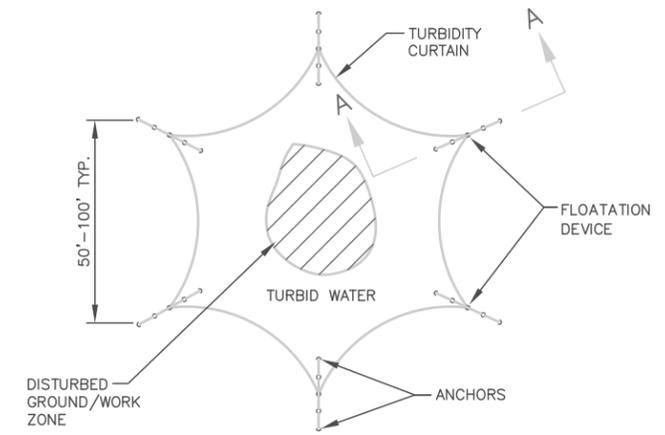
EROSION CONTROL PLAN LEGEND: [Symbol] TURBIDITY CURTAIN

**TYPICAL ANCHORING PLAN FOR SHORELINE/RIVER EDGE WORK**



**PLAN VIEW**

**TYPICAL ANCHORING PLAN FOR MID CHANNEL WORK (BRIDGE PIER, CAISSON, ETC.)**



**PLAN VIEW**

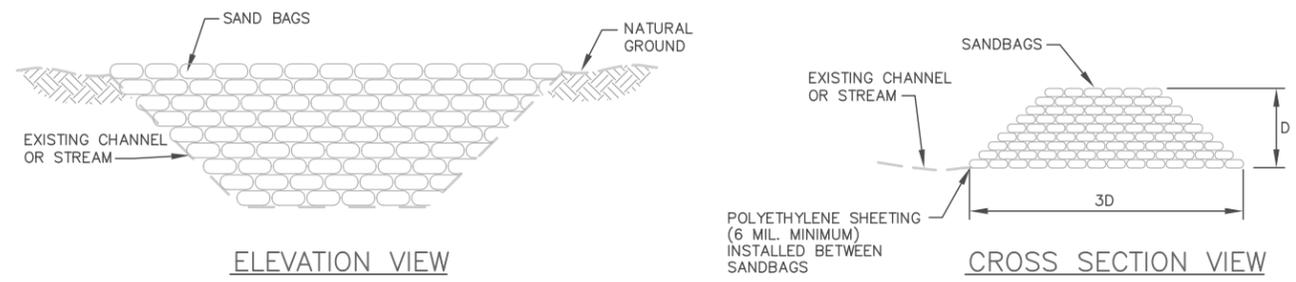
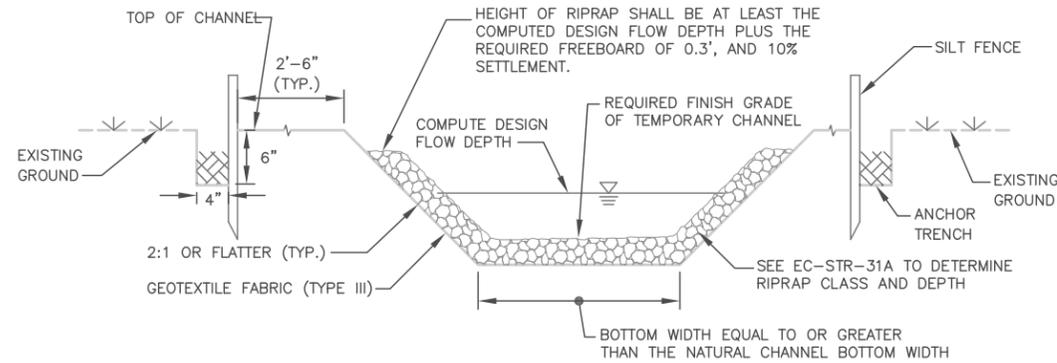
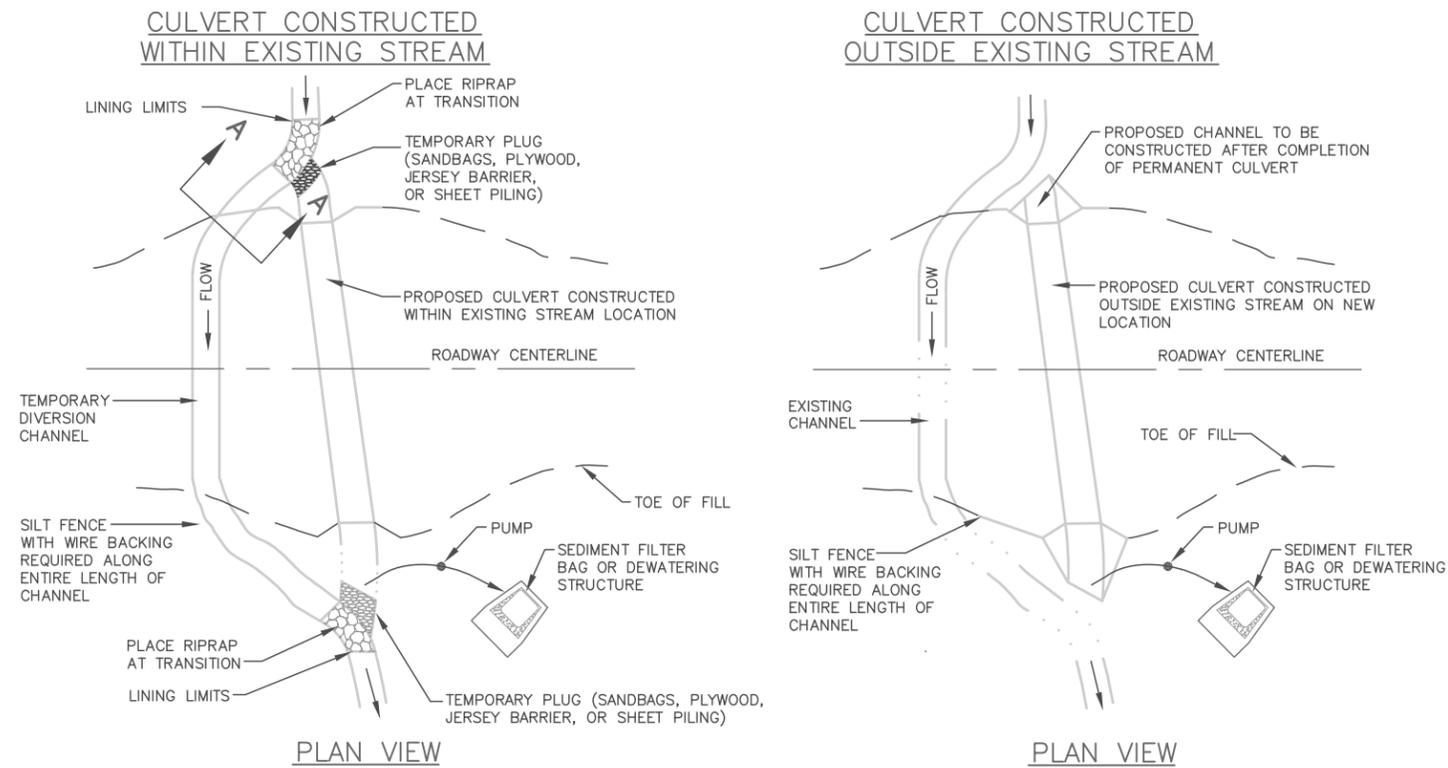


**TURBIDITY CURTAIN**

NOT TO SCALE

TYPE	YEAR	PROJECT NO.	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-

REV. -



PLUG DETAIL

EROSION CONTROL PLAN LEGEND: TEMPORARY DIVERSION CHANNEL (DESCRIBE - SIZE AND TYPE OF LINING)

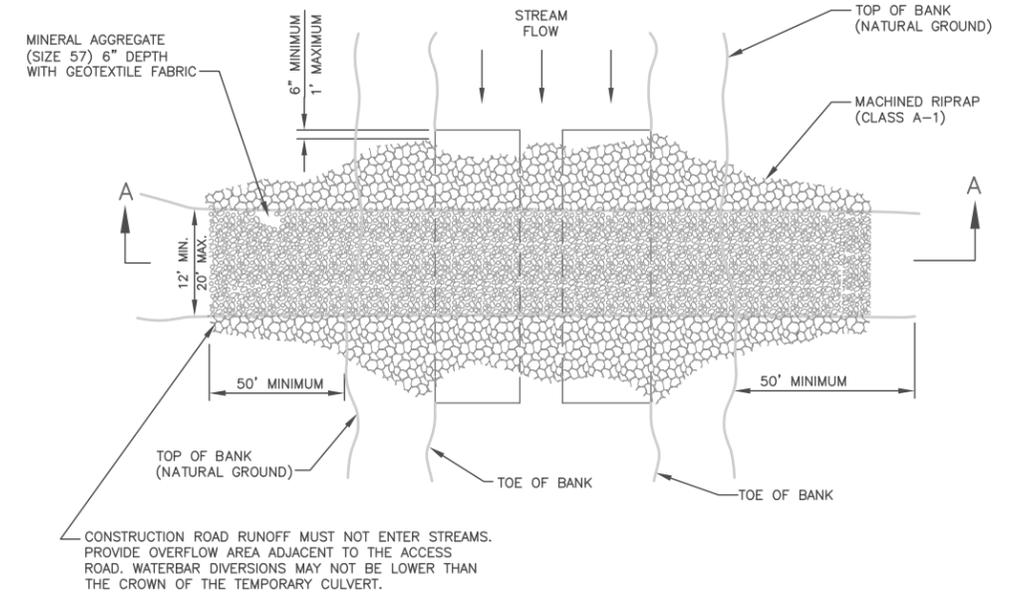
NOT TO SCALE



TEMPORARY STREAM DIVERSION

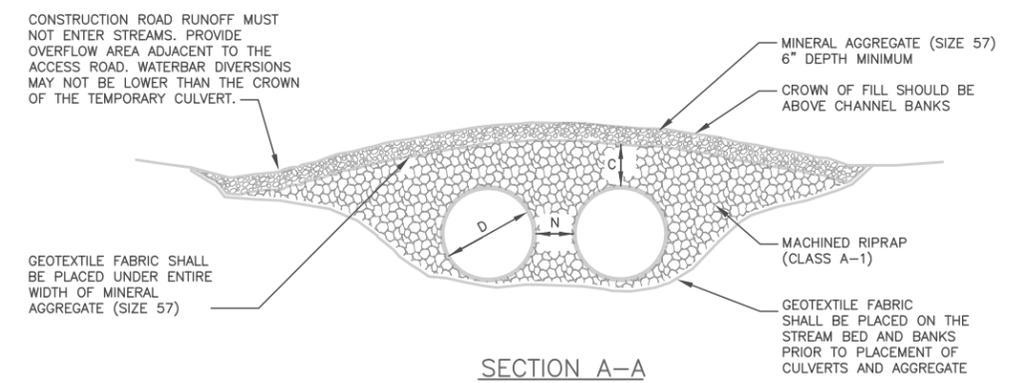
TYPE	YEAR	PROJECT NO.	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

REV. -

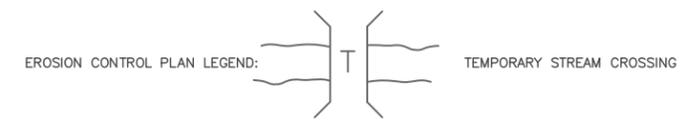


PLAN VIEW OF TEMPORARY CULVERT CROSSING

PIPE DIAMETER (INCHES)	AVERAGE CHANNEL SLOPE					
	0.5%	1.0%	1.5%	2.0%	2.5%	3.0%
18	8.5	9.1	9.8	10.4	11.0	11.3
24	17.4	18.8	20.0	21.4	21.5	21.7
30	30.1	32.3	33.9	34.1	33.5	33.0
36	46.8	50.4	49.5	47.8	46.6	45.8
42	67.7	69.0	65.5	62.8	61.0	59.6
48	92.6	88.1	76.8	78.6	75.8	73.7
54	127.2	107.0	91.9	94.9	91.1	88.1
60	146.5	121.1	118.4	111.1	106.1	101.9
72	194.9	142.2	153.6	141.3	133.3	127.9
RIPRAP	B	B	B	B	B/C	B/C



C = 1/2 DIAMETER OF PIPE OR 18" WHICHEVER IS GREATER  
 N = 1/2 DIAMETER OF PIPE OR 12" WHICHEVER IS GREATER  
 D = PIPE DIAMETER



TEMPORARY STREAM CROSSING

NOT TO SCALE