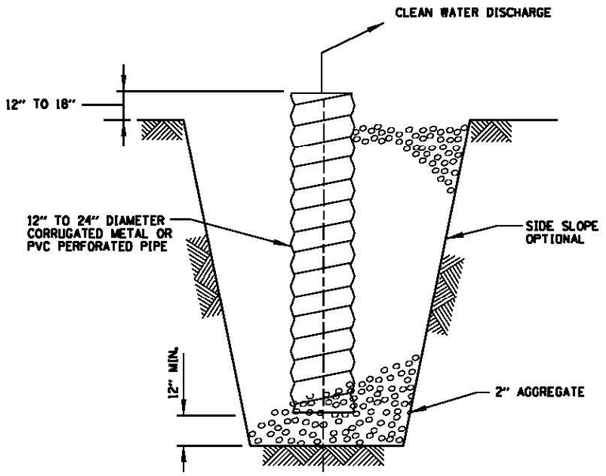


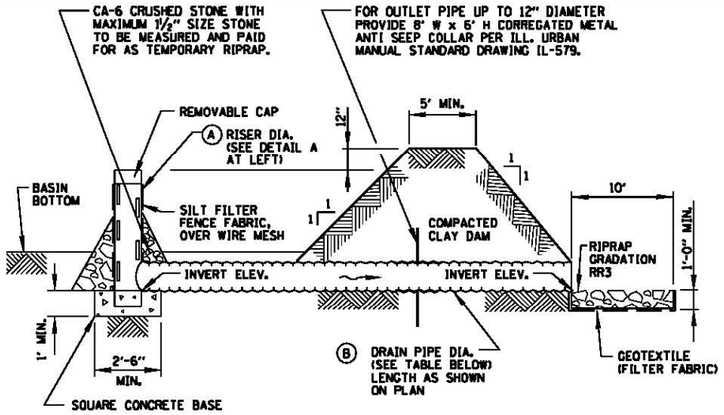
SECTION

NOTES:

1. PIT DIMENSIONS ARE OPTIONAL. PIT SHOULD BE SIZED FOR ANTICIPATED INFLOW.
2. THE STANDPIPE WILL BE CONSTRUCTED BY PERFORATING A 12"-24" DIAMETER CORRUGATED METAL OR PVC PIPE.
3. A BASE OF 2" POROUS GRANULAR BACKFILL WILL BE PLACED IN THE PIT TO MINIMUM DEPTH OF 12". AFTER INSTALLING THE STANDPIPE, THE PIT SURROUNDING THE STANDPIPE WILL THEN BE BACKFILLED WITH 2" POROUS GRANULAR BACKFILL.
4. THE STANDPIPE WILL EXTEND 12" TO 18" ABOVE THE LIP OF THE PIT.
5. IF DISCHARGE WILL BE PUMPED DIRECTLY TO A STORM DRAINAGE SYSTEM, THE STANDPIPE WILL BE WRAPPED WITH SILT FILTER FENCE FABRIC CONFORMING TO THE STANDARD SPECIFICATIONS.
6. IF DESIRED ¼" - ½" HARDWARE CLOTH MAY BE PLACED AROUND THE STANDPIPE PRIOR TO ATTACHING THE SILT FILTER FENCE FABRIC. THIS WILL INCREASE THE RATE OF WATER SEEPAGE INTO THE PIPE.

APPLICATION: A TEMPORARY PIT TO TRAP AND FILTER WATER FOR PUMPING FROM EXCAVATED AREAS TO A STABILIZED AREA.

SUMP PIT PLAN



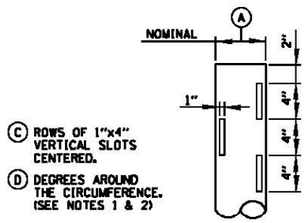
SECTION ON CENTERLINE

NOTES:

1. DRAIN PIPE AND SLOTTED RISER SHALL BE FABRICATED FROM CORRUGATED METAL, SMOOTH STEEL OR PVC.
2. SLOTS SHALL BE CUT CLEANLY AND DEBURRED. ENDS OF SLOTS MAY BE ROUND OR SQUARE.
3. FABRICATED OR STANDARD ELBOW; FABRICATED OR STANDARD TEE WITH THE PIPE OR PLUG IN UPSTREAM END; OR STANDARD TEE WITH ONE END EMBEDDED IN CONCRETE.
4. ONE INCH DIAMETER HOLES MAY BE SUBSTITUTED FOR 1"x4" SLOTS IN RISER PIPE.
   PROVIDE 32 - 1" HOLES PER FOOT OF RISER FOR 6" RISER PIPE.
   PROVIDE 48 - 1" HOLES PER FOOT OF RISER FOR 8" RISER PIPE.
   PROVIDE 64 - 1" HOLES PER FOOT OF RISER FOR 10" RISER PIPE.
5. SILT FILTER FENCE FABRIC OVER WIRE MESH SHALL CONFORM TO THE STANDARD SPECIFICATIONS.
6. SEDIMENT TO BE REMOVED WHEN BASIN IS FULL 50%.
7. SEE PLANS FOR DETAILS.

APPLICATION: FOR USE WHEN EXISTING OR PROPOSED DETENTION BASINS OR IN FIELD AREAS ARE USED FOR THE TEMPORARY SEDIMENT BASINS.

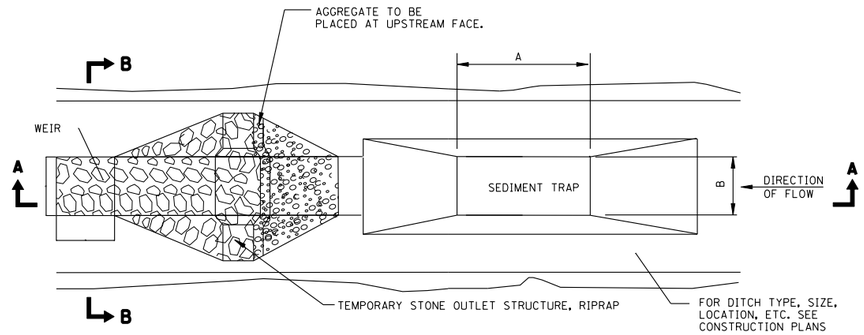
SEDIMENT BASIN DEWATERING DEVICE



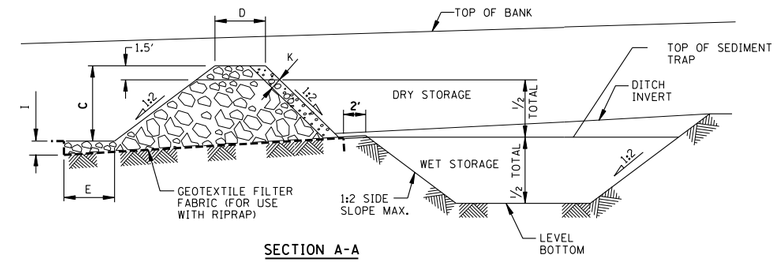
DETAIL A - SLOTTED INLET

STANDARD DIMENSIONS TABLE

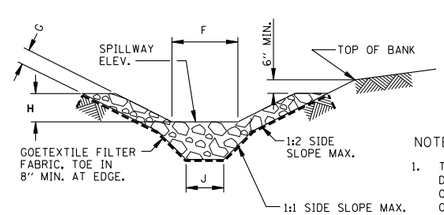
(A) RISER DIA. (INCHES)	(B) DRAIN PIPE DIA. MIN. (INCHES)	(C) 1"x4"SLOTS (ROWS)	(D) PLACE SLOTS AT (DEG.)	MIN. WALL THICKNESS STEEL CORR. GAGE	MIN. WALL THICKNESS STEEL SMOOTH (INCHES)
6	4	4	90	16	.10
8	6	6	60	16	.10
10	8	8	45	16	.13



PLAN



SECTION A-A



SECTION B-B

NOTES:

1. THE STONE OUTLET STRUCTURES SHALL BE REPLACED DUE TO WASHOUT, CONSTRUCTION TRAFFIC DAMAGE OR SILT ACCUMULATION. THE SILT SHALL BE CLEANED OUT WHEN WET STORAGE PORTION OF TRAP IS 50% FULL.
2. A LAYER OF AGGREGATE SHALL BE PLACES AGAINST THE UPSTREAM FACE OF TEMPORARY STONE OUTLET STRUCTURE.

NOTE:
THE TEMPORARY EROSION AND SEDIMENT CONTROL STRUCTURE SHOWN AND DESIGN VALUES ARE ON THE EROSION CONTROL PLAN SHEETS.

DESIGN ELEMENTS		VALUES
DRAINAGE AREA	X (ACRES)	
SEDIMENT TRAP: STORAGE CAPACITY	V (CU. YD.)	
WET DETENTION STORAGE	½V (CU. YD.)	
DRY DETENTION STORAGE	½V (CU. YD.)	
SEDIMENT TRAP LENGTH	A (FEET)	
SEDIMENT TRAP WIDTH	B (FEET)	
STONE OUTLET STRUCTURE HEIGHT	C (FEET)	
STONE OUTLET STRUCTURE TOP WIDTH	D (FEET)	
WEIR LENGTH	E (FEET)	
WEIR TOP WIDTH	F (FEET)	
WEIR SIDE SLOPE THICKNESS	G (FEET)	
WEIR SIDE SLOPE HEIGHT	H (FEET)	
WEIR DEPTH	I (FEET)	
WEIR BASE WIDTH	J (FEET)	
RIPRAP	GRADATION	
AGGREGATE	GRADATION	
STONE OUTLET AGGREGATE THICKNESS	K (FEET)	

STONE OUTLET STRUCTURE SEDIMENT TRAP

FILE NAME = S:\1606\PDF-SUBMITTAL\20131007 Final Submittal\CD\CADD_Sheets\D162517-sht-details1.dgn	USER NAME = _USERNAME_	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION AND SEDIMENT CONTROL DETAIL SHEET III
	PLOT SCALE = 100.0000 ' / IN.	DRAWN -	REVISED -		
	PLOT DATE = 11/6/2013	CHECKED -	REVISED -		
		DATE -	REVISED -		SCALE: SHEET NO. 249 OF 431 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	27R-3	MCHENRY	431	249
		CONTRACT NO. 62517		
		ILLINOIS FED. AID PROJECT		