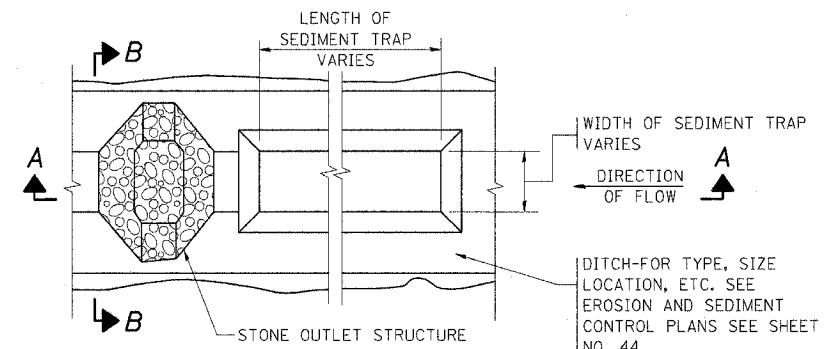
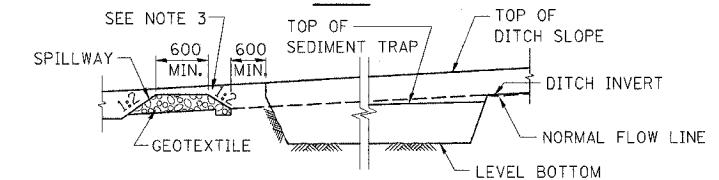


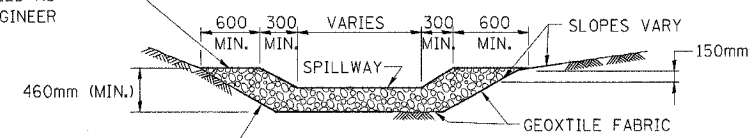
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	*	COOK	231	143
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
*(0203.1 & 0304) R-6			CONTRACT # 62105	



PLAN



TOP ELEVATION OF STRUCTURE SHALL BE SET IN FIELD AS DIRECTED BY THE ENGINEER



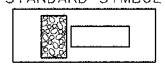
CUT SIDE SLOPES IN SEDIMENT TRAP AS STEEP AS SOIL CONDITIONS WILL ALLOW

NOTES:

1. USE IN EXISTING, PROPOSED AND TEMPORARY DITCHES OF ALL TYPES AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER.
2. THE STONE OUTLET STRUCTURES SHALL BE REPLACED DUE TO WASHOUT, CONSTRUCTION TRAFFIC DAMAGE OR SILT ACCUMULATION. THE SILT SHALL BE CLEANED WHEN THE TRAP IS 50% FULL.
3. THIS WORK WILL BE PAID FOR UNDER THE FOLLOWING ITEMS: EARTH EXCAVATION FOR EROSION CONTROL STONE RIPRAP, CLASS A4 FILTER FABRIC FOR USE WITH RIPRAP.
4. ALL SEDIMENT TRAPS SHALL BE DESIGNED TO PROVIDE (260 CUBIC METERS) STORAGE PER 1.0 HECTARE (3600 CF PER ACRE) OF DRAINAGE AREA.

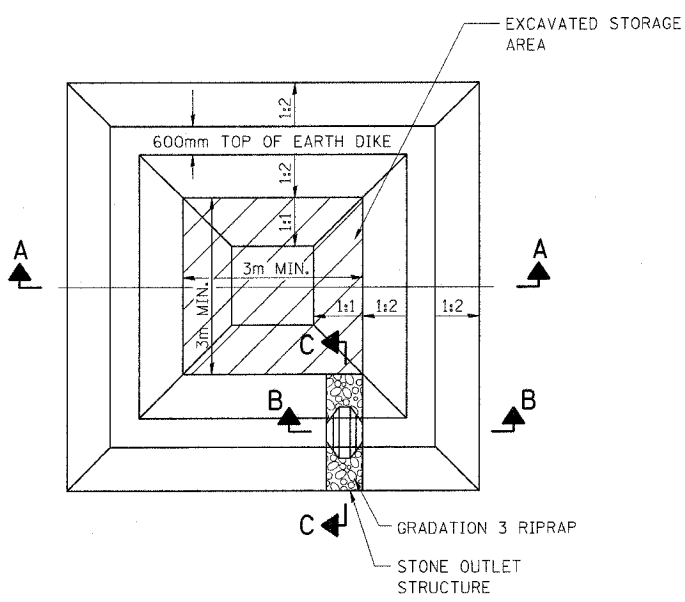
STONE OUTLET STRUCTURE SEDIMENT TRAP

STANDARD SYMBOL



DRAINAGE AREA	L	W	CAPACITY CM
0.2ha	23m	3m	53
0.4ha	44m	3m	103
0.6ha	44m	4.6m	154
0.8ha	60m	4.6m	207

NOTE:
ALL DIMENSIONS ARE BASED UPON AN AVERAGE DEPTH OF 760mm AND PROVIDING, AS A MINIMUM 102 CUBIC METERS OF STORAGE PER Ha OF RUNOFF. L AND W ARE MEASURED ALONG THE BOTTOM OF THE TRAP. WHENEVER POSSIBLE, THE MAXIMUM AVERAGE DEPTH OF THE TRAP WILL BE 760mm. THE MAXIMUM DRAINAGE AREA ALLOWED PER TRAP IS 2Ha. THE DRAINAGE AREA IS THE TOTAL (INCLUDING OFF-SITE) AREA.



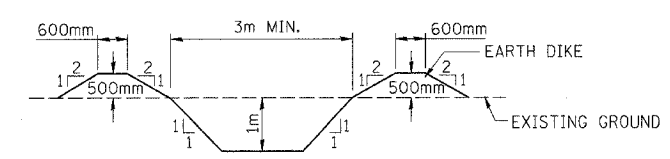
PLAN VIEW

NOTES:

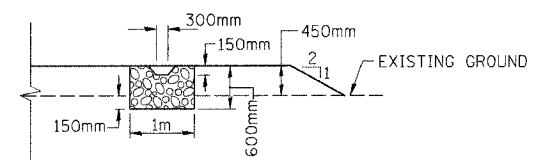
1. ANY DEWATERING OF THE CONSTRUCTION AREA SHALL BE FILTERED THROUGH A DEWATERING BASIN PRIOR TO ENTERING THE WATERWAY.
2. PUMPING INTO THESE BASINS SHALL CEASE WHEN THE EFFLUENT FROM THE BASIN BECOMES SEDIMENT LADEN. THE BASIN MAY BE BYPASSED IF THE WATER BEING PUMPED IS NON SEDIMENT LADEN AND THERE IS A STABILIZED OUTFALL. SURFACE FLOWS SHALL BE DIVERTED AROUND THE DEVICE.
3. THE DEWATERING BASIN SHALL BE EXCAVATED TO A MINIMUM DEPTH OF 1m WITH A FLAT BOTTOM.
4. ONCE THE DEWATERING BASIN BECOMES FILLED TO 1/2 OF THE EXCAVATED DEPTH, ACCUMULATED SEDIMENT SHALL BE REMOVED.
5. THE OUTFALL FROM THE BASIN(S) SHALL HAVE A STABILIZED CONVEYANCE TO RECEIVING WATERS.
6. THE VOLUME OF THE CONSTRUCTION DEWATERING DISCHARGE BASIN (DEAD STORAGE) SHALL BE A MINIMUM OF THE DEWATERING PUMPS CAPACITY $0.12 \times (\text{PUMP RATE IN LITERS/MINUTE}) = \text{VOLUME (CU. M.)}$
 $(16 \times (\text{PUMP RATE IN GAL/MINUTE}) = \text{VOLUME (C.F.)})$
7. THIS WORK WILL BE PAID FOR UNDER THE FOLLOWING ITEMS: EARTH EXCAVATION FOR EROSION CONTROL STONE RIPRAP, CLASS A4 FILTER FABRIC FOR USE WITH RIPRAP.

DEWATERING BASINS

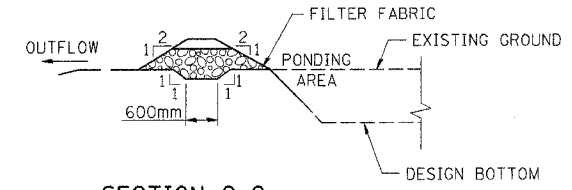
STANDARD SYMBOL



SECTION A-A



SECTION B-B



SECTION C-C

ED-4

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. ROUTE 80/94 (INTERSTATE 80/294) EROSION AND SEDIMENT CONTROLS STONE OUTLET STRUCTURE SEDIMENT TRAP DEWATERING BASINS
NAME	DATE	
J.P.W.	1/19/04	

DATE: JULY 18, 2005

DRAWN BY: JPW
CHECKED BY: RCH

McDonough Associates Inc.
Engineers / Architects