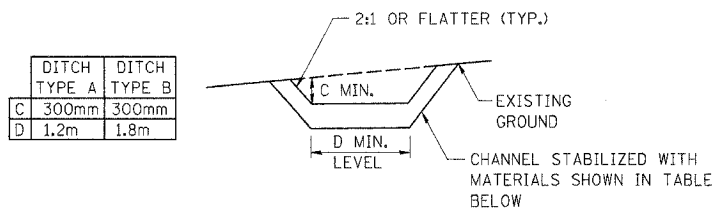
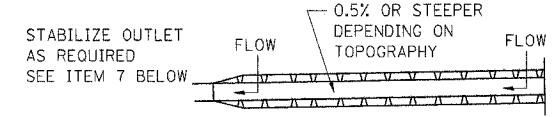


F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	*	COOK	231	142
STA.	TO STA.			
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
*(0203.1 & 0304) R-6		CONTRACT # 62105		



DITCH TYPE A	DITCH TYPE B
C 300mm	300mm
D 1.2m	1.8m

CROSS-SECTION

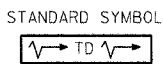


PLAN VIEW

CONSTRUCTION NOTES FOR TEMP. DITCHES

- ALL TEMPORARY DITCHES SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
- DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.
- DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET DIRECTLY INTO A STABILIZED AREA AT NON-EROSIVE VELOCITY.
- ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE DITCH.
- THE DITCH SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.
- ALL EARTH REMOVED AND NOT NEEDED FOR CONSTRUCTION SHALL BE PLACED SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE DITCH.
- STABILIZATION SHALL BE AS PER THE CHART TO THE RIGHT:
 - AGGREGATE DITCH TO BE IN A LAYER AT LEAST 75mm IN THICKNESS AND BE PRESSED INTO THE SOIL WITH CONSTRUCTION EQUIPMENT.
 - RIPRAP TO BE GRADATION 3 IN A LAYER AT LEAST 200mm THICK ABOVE WHAT IS PRESSED INTO THE SOIL
 - APPROVED EQUIVALENTS CAN BE SUBSTITUTED FOR ANY OF THE ABOVE MATERIALS.

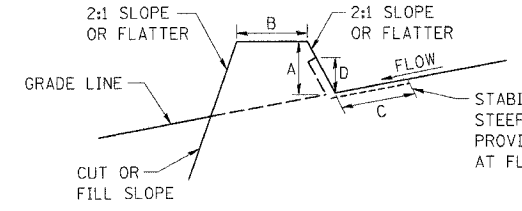
TEMPORARY DITCH



FLOW CHANNEL STABILIZATION

TYPE OF TREATMENT	CHANNEL GRADE	TYPE A (2 ha OR LESS)	TYPE B (2ha - 4ha)
1	0.5%- 5.0%	SEED AND EROSION BLANKET	SEED AND EROSION BLANKET
2	5.1%- 8.0%	CA-3 AGGREGATE	RIPRAP 200mm THICKNESS
3	8.1%- 20%	LINED RIPRAP SIZE 200mm THICKNESS	ENGINEERED DESIGN

NOTE: WHEN THE DRAINAGE AREA BEING CARRIED BY THE MEASURE IS LARGER THAN 4ha THE MEASURE WILL BE SIZED AND STABILIZED BASED ON AN ENGINEERED DESIGN.



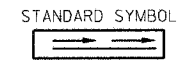
CROSS SECTION

	DIKE TYPE A (2 ha OR LESS)	DIKE TYPE B (2 - 4ha)
A - DIKE HEIGHT	460mm	1m
B - DIKE WIDTH	600mm	1m
C - FLOW WIDTH	1.2m	1.8m
D - FLOW HEIGHT	200mm	380mm

CONSTRUCTION NOTES FOR DIVERSION DIKES

- ALL DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
- TOP WIDTH MAY BE WIDER AND SIDE SLOPES MAY BE FLATTER IF DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC.
- DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET INTO A STABILIZED AREA AT NON-EROSIVE VELOCITY.
- FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO MAINTAIN A POSITIVE OUTLET.
- EARTH DIKES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF EROSION. RUNOFF SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR SEDIMENT BASIN WHERE EITHER THE DIKE CHANNEL OR THE DRAINAGE AREA ABOVE THE DIKE ARE NOT ADEQUATELY STABILIZED.
- STABILIZATION OF AREAS C AND D SHALL BE AS PER SPECIAL PROVISION FOR EROSION AND SEDIMENT CONTROLS. ADDITIONAL STABILIZATION MAY BE REQUIRED FOR STEEPER SLOPES AS SHOWN IN THE CHART BELOW.

DIVERSION DIKE



ED-3

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. ROUTE 80/94 (INTERSTATE 80/294)
NAME	DATE	
J.P.W.	1/19/04	EROSION AND SEDIMENT CONTROLS FLOW CHANNEL STABILIZATION TEMPORARY DITCHES AND DIVERSION DIKES
DATE: JULY 18, 2005		DRAWN BY: JPW CHECKED BY: RCH
McDonough Associates Inc. Engineers / Architects		