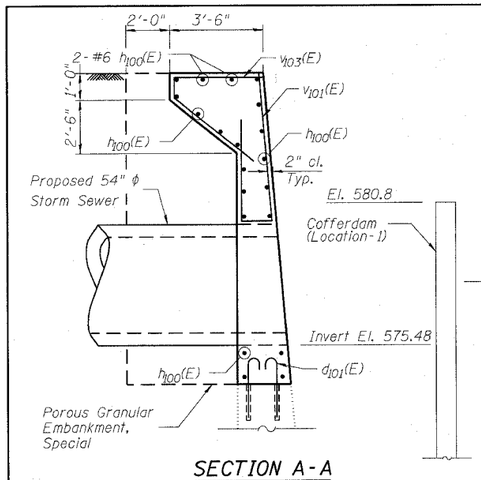
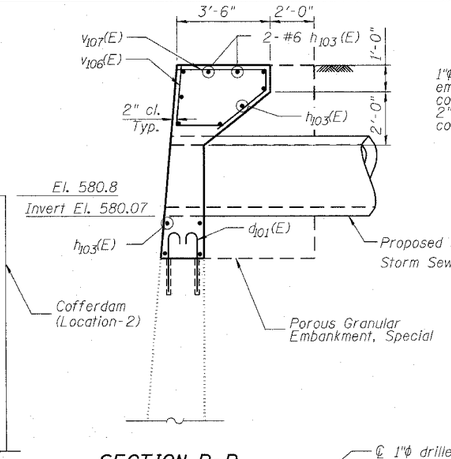
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 3509	00-00173-00-FP	COOK	246	74
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 2
2 SHEETS

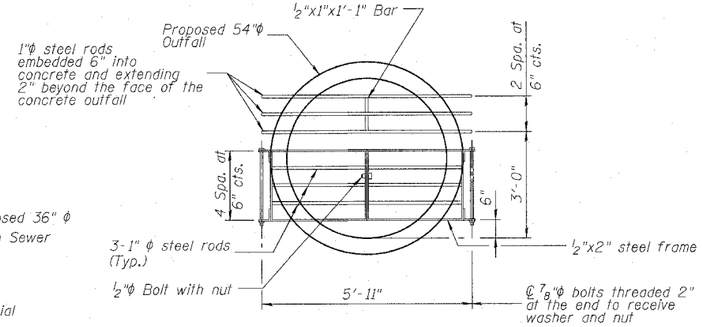
Contract #83964



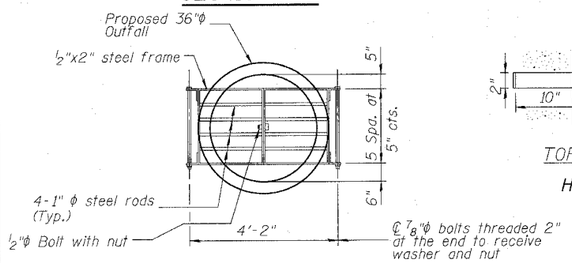
SECTION A-A



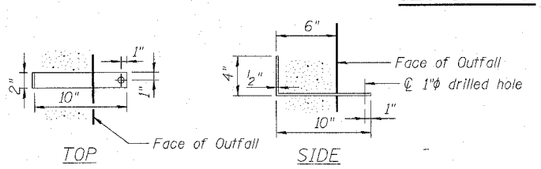
SECTION B-B



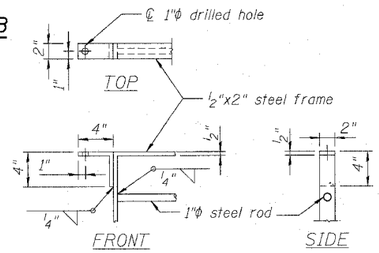
OUTFALL DEBRIS GRATING TYPE B



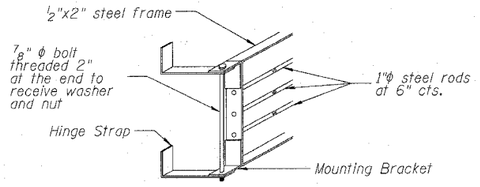
OUTFALL DEBRIS GRATING TYPE A



HINGE STRAP (4 REQ'D)

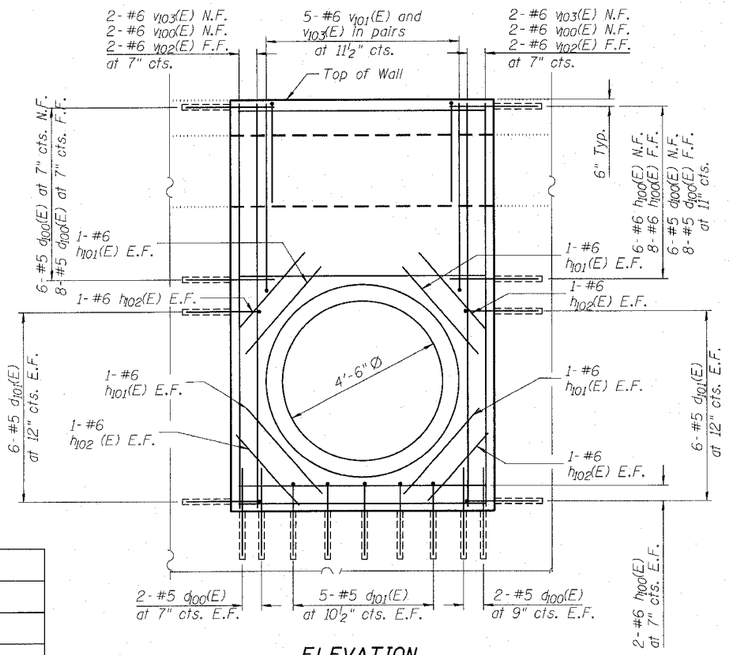


MOUNTING BRACKET (4 REQ'D)

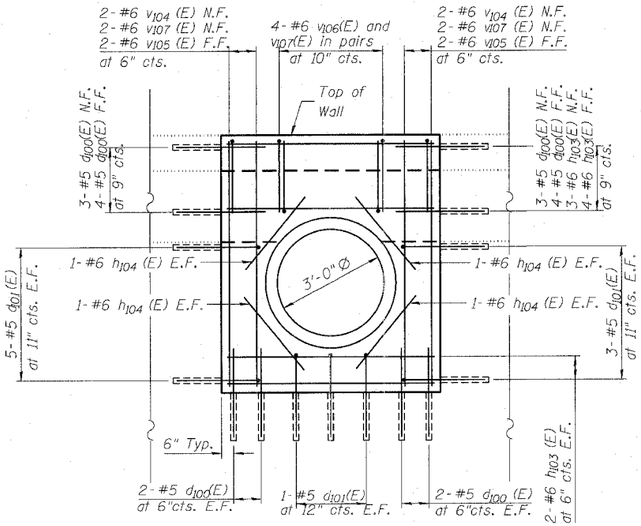


ASSEMBLY

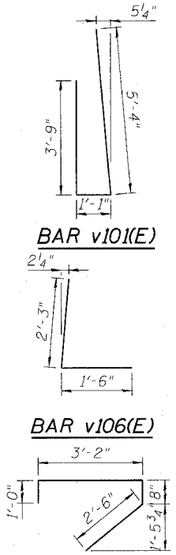
ASSEMBLY AND HINGE STRAP DETAILS FOR TYPE A & B

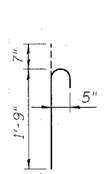


ELEVATION
54" ϕ OUTFALL

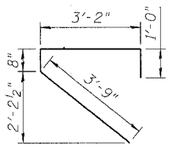


ELEVATION
36" ϕ OUTFALL





BAR d101(E)



BAR v103(E)

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
d100(E)	54	#5	3'-1"	
d101(E)	60	#5	2'-4"	
h100(E)	20	#6	7'-1"	
h101(E)	8	#6	3'-2"	
h102(E)	8	#6	2'-6"	
h103(E)	13	#6	5'-10"	
h104(E)	8	#6	2'-8"	
v100(E)	4	#6	11'-3"	
v101(E)	5	#6	10'-2"	
v102(E)	4	#6	9'-2"	
v103(E)	9	#6	8'-7"	
v104(E)	4	#6	6'-9"	
v105(E)	4	#6	5'-2"	
v106(E)	4	#6	3'-9"	
v107(E)	8	#6	7'-4"	

DESCRIPTION	UNIT	QUANTITY
Porous Granular Embankment, Special	Cu. Yd.	15
Concrete Removal	Cu. Yd.	9.5
Structure Excavation	Cu. Yd.	20
Cofferdam (Location-1)	Each	1
Cofferdam (Location-2)	Each	1
Concrete Structures	Cu. Yd.	7.6
Reinforcement Bars, Epoxy Coated	Pound	1250
Grates, Special	Each	2

Notes:

1. Bars d100(E) and d101(E) are to be drilled and epoxy grouted according to section 584 of the Standard Specifications. Cost included with Reinforcement Bars, Epoxy Coated.
   Minimum embedment depth = 9"
2. Outfall Debris Grating Type A & B is paid for as Grates, Special.

DESIGNED	JRR
CHECKED	SLC
DRAWN	JRJ
CHECKED	SLC

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OUTFALL STRUCTURAL DETAILS II

SHERIDAN ROAD
NORTH SHORE CHANNEL OUTFALLS
F.A.P. ROUTE 3509 SECTION 00-00173-00-FP
COOK COUNTY

TranSystems
1051 PERIMETER DRIVE, SUITE 1025
SCHAUMBURG, IL 60173-5058
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FAX (847) 605-9610

7/13/07