F.A.A.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
1485	00-00218-00-FP	COOK	108	53
STA.	TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

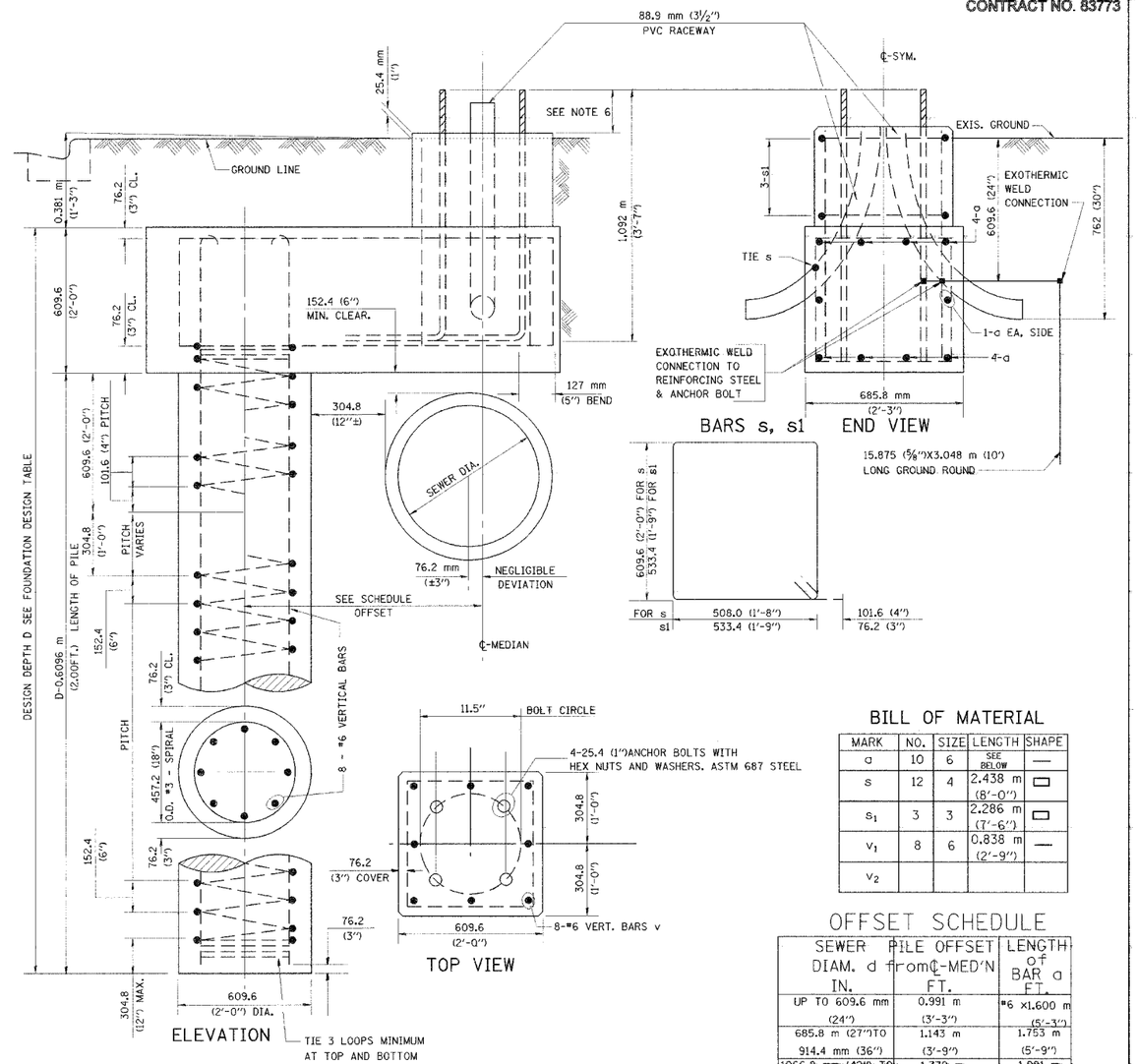
CONTRACT NO. 83773

FOUNDATION DESIGN TABLE

TYPE OF SOIL	DESIGN DEPTH OF FOUNDATION		REINFORCEMENT IN FOUNDATION			
	SINGLE ARM D	TWIN ARM D	SINGLE ARM		TWIN ARM	
			VERT BARS	SPIRAL	VERT BARS	SPIRAL
SOFT CLAY	3.962 m (13'-0")	4.572 m (15'-0")	8-#6X3.810 m (12'-6")	#3X37.186 m (122')	8-#6X4.343 m (14'-3")	#3X42.977 m (141')
MEDIUM CLAY	2.896 m (9'-6")	3.277 m (10'-9")	8-#6X2.743 m (9'-0")	#3X27.432 m (90')	8-#6X3.048 m (10'-0")	#3X30.480 m (100')
STIFF CLAY	2.134 m (7'-0")	2.438 m (8'-0")	8-#6X1.981 m (6'-6")	#3X20.112 m (66')	8-#6X2.286 m (7'-6")	#3X23.165 m (76')
LOOSE SAND	2.743 m (9'-0")	3.048 m (10'-0")	8-#6X2.591 m (8'-6")	#3X25.908 m (85')	8-#6X2.896 m (9'-6")	#3X28.651 m (94')
MEDIUM SAND	2.515 m (8'-3")	2.743 m (9'-0"(	8-#6X2.438 m (8'-0")	#3X23.774 m (78')	8-#6X2.591 m (8'-6")	#3X25.908 m (85')
DENSE SAND	2.362 m (7'-9")	2.743 m (9'-0")	8-#6X2.286 m (7'-6")	#3X22.250 m (73')	8-#6X2.591 m (8'-6")	#3X25.908 m (85')
ROCK OR SOLIDIFIED SLAG	1.524 m (5'-0")	1.524 m (5'-0")	NONE	NONE	NONE	NONE

NOTES

1. ALL DEMINSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
2. THE ENGINEER SHALL DETERMINE THE CLASS OF SOIL DURING EXCAVATION AND SELECT THE DESIGN DEPTH OF FOUNDATION FROM THE DESIGN TABLE.
3. EXCAVATION OF THE POLE FOUNDATION SHALL BE MADE WITH AN AUGER, 609.6 mm (24") OR 762.0 mm (30") IN DIAMETER.
4. THE ANCHOR SHALL BE A TACK WELDED TYPE BOLT OR HOOK TYPE BOLT. COLD BENDING OF THE HOOK BOLT WILL NOT BE ALLOWED.
5. THE ANCHOR BOLTS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED IN THE FORM.
6. THE ENTIRE LENGTH OF THE ANCHOR BOLTS AS WELL AS THE NUTS AND WASHERS SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM DESIGNATION A 153.
7. THE CONTRACTOR SHALL COORDINATE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF FOUNDATION WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS. IF LIGHT POLE IS MOUNTED WITHOUT BREAKAWAY DEVICE, ANCHOR BOLTS SHALL PROJECT 69.9 mm (2¾") ABOVE TOP OF THE FOUNDATION. THE CONTRACTOR SHALL CONFIRM ANCHOR BOLT EXTENTION WITH ENGINEER.
8. RACEWAYS SHALL PROJECT 25.4 mm (1") ABOVE THE TOP OF THE FOUNDATION.
9. CONCRETE SHALL BE CLASS "X". CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
10. THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE LIGHT IS ERECTED.

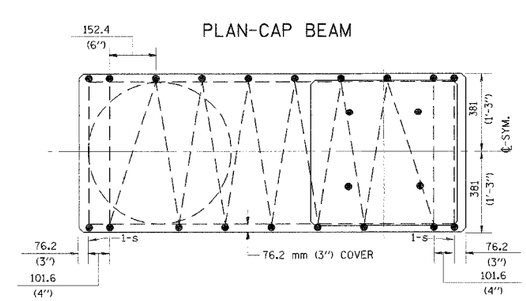


BILL OF MATERIAL

MARK	NO.	SIZE	LENGTH	SHAPE
a	10	6	SEE BELOW	—
s	12	4	2.438 m (8'-0")	▭
s_1	3	3	2.286 m (7'-6")	▭
v_1	8	6	0.838 m (2'-9")	—
v_2				

OFFSET SCHEDULE

SEWER DIAM. d IN.	PILE OFFSET from ℄-MED'N FT.	LENGTH of BAR a FT.
UP TO 609.6 mm (24")	0.991 m (3'-3")	#6 x1.600 m (5'-3")
685.8 m (27")TO 914.4 mm (36")	1.143 m (3'-9")	1.753 m (5'-9")
1066.8 mm (42") TO 1219.2 mm (48")	1.372 m (4'-6")	1.981 m (6'-6")
1371.6 mm (54") TO 1524.0 mm (60")	1.524 m (5'-0")	2.134 m (7'-0")
1676.4 mm (66") TO 1828.8 mm (72")	1.676 m (5'-6")	2.286 m (7'-6")



BE-310

REVISIONS	
NAME	DATE
S. MANLEY	12-2-93
A. SANEDRIN	12-26-94

ILLINOIS DEPARTMENT OF TRANSPORTATION

LIGHT POLE FOUNDATION
OFFSET
12.192m (40') TO 14.478m (47½') M.H.
381 mm (15") BOLT CIRCLE

SCALE: NONE — DRAWN BY JKM

DATE 9/03/04 — CHECKED BY

BE-310

•DATE-TIME•
•DGN-SPEC•
VI-BE6
•USER•