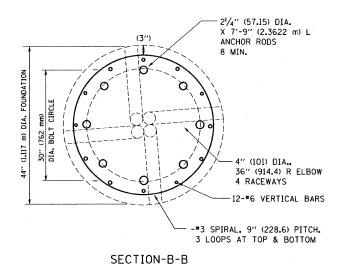
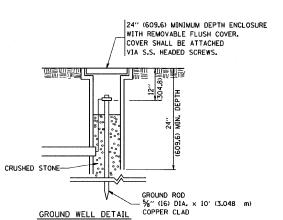
## LIGHT TOWER FOUNDATION DEPTH "D"

	SOIL CONDITIONS							
MOUNTING HEIGHT	SOFT CLAY Qu = 0.375 TON/SO. FT	MEDIUM CLAY Qu = 0.75 TON/SQ. FT	STIFF CLAY Qu = 1.50 TON/SO. FT	LOOSE SAND Ø = 34°	MEDIUM SAND Ø = 37.5°	DENSE SAND Ø = 40°		
90 FT	29 FT	20 FT	15 FT	15 FT	13 FT	12 FT		
(27 m)	(8.779 m)	(6.035 m)	(4.389 m)	(4.389 m)	(3.840 m)	(3.429 m)		
100 FT	32 FT	22 FT	16 FT	16 FT	14 FT	13 FT		
(30 m)	(9.754 m)	(6.706 m)	(4.877 m)	(4 <b>.</b> 877 m)	(4.267 m)	(3.81 m)		
110 FT	35 FT	24 FT	18 FT	18 FT	15 FT	14 FT		
(33 m)	(10.719 m)	(7.377 m)	(5.365 m)	(5.365 m)	(4.694 m)	(4.191 m)		
120 FT	38 FT	26 FT	19 FT	19 FT	17 FT	16 FT		
(36 m)	(11.705 m)	(8.046 m)	(5.652 m)	(5.652 m)	(5.120 m)	(4.572 m)		





## DESIGN NOTES (1) ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN 12" (304.8) BASE PLATET RACEWAY PROJECTION (2) THE ANCHOR RODS SHALL BE VERTICAL NO ADJUSTMENT SHALL BE ALLOWED AFTER THE FOUNDATION IS PLACED. (3) THE GAP BETWEEN THE FOUNDATION AND THE BASE PLATE SHALL BE ENCLOSED WITH A STAINLESS STEEL MECHANICAL CONNECTION -SCREEN FASTENED WITH A STAINLESS STEEL BAND. EXOTHERMIC WELD-CONNECTION TO (4) THE TOP OF THE FOUNDATION TO 18" (450) BELOW GRADE SHALL BE FORMED. REINFORCING STEEL (5) SURFACE WATER WILL NOT BE PERMITTED TO ENTER THE HOLE AND ALL WATER WHICH MAY HAVE INFILTRATED INTO THE HOLE SHALL BE REMOVED BEFORE PLACING CONCRETE. В EXOTHERMIC WELD CONNECTION (6) THE LIGHT TOWER SHALL NOT BE ERECTED UNTIL AFTER THE CONCRETE HAS BEEN CURED ACCORDING TO (7) ANCHOR RODS SHALL BE STRAIGHT AND SHALL BE ACCORDING TO AASHTO M 314 OR ASTM F1554, GRADE 725(GRADE 105) AND GALVANIZED ACCORDING TO ARTICLE 1006.9. (8) ANCHOR ROD INFORMATION SHALL BE SUBMITTED FOR APPROVAL AND SHALL BE FULLY COORDINATED FOR APPROVAL WITH TOWER MANUFACTURER REQUIREMENTS. SEE ANCHOR BOLT CAGE WELDMENT DETAIL SHEET 2 (9) REINFORCEMENT BARS SHALL BE ACCORDING TO ARTICLE 1006.10 (IO) TWO ANCHOR RODS OPPOSITE EACH OTHER SHALL HAVE THE ANCHOR ROD THREADS PEENED AFTER NUTS 4-%" (16) DIA. X 10' (3,048 m) LONG GROUND RODS EQUALLY SPACED IN A 10' (3,048 m) DIAMETER CIRCLE EXOTHERMICALLY CONNECTED TOCETHER WITH A 22/0 BARE COPPER WIFE (SEE GROUND ROD DETAIL) ARE INSTALLED. EXOTHERMIC WELDS TO REINFORCEMENT BAR CAGE 5' RADIUS-(1.524 m) 3" (76.2)

44" (1.117 m)

FOUNDATION

**ELEVATION** 

SCALE: NONE

GROUND ROD (TYP)-

ANCHOR ROD (TYP.)

FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED - R. TOMSONS 04-22-02
W:\diststd\22x34\be501.dgn		DRAWN -	REVISED -
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -
	PLOT DATE = 1/4/2008	DATE -	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

90 FT TO 120 FT (27 mTO 36 m) FOUNDATION DETAIL			F.A RTÉ.	F.A. SECTION COUNTY S			SHEE NO.		
			57	1414.2B	COOK	516	210		
				BE-501	CONTRACT	NO.			
	SHEET NO. 1 OF 2	SHEETS	STA.	TO STA.	FED. R	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			

GROUND ROD DETAIL

#2/0 BARE COPPER WIRE

FOUNDATION

REINFORCEMENT BAR CAGE MECHANICAL CONNECTION TO ANCHOR ROD (TYPICAL)

GROUND WELL (TYP. EA. GND ROD)

SEE GROUND WELL DETAIL