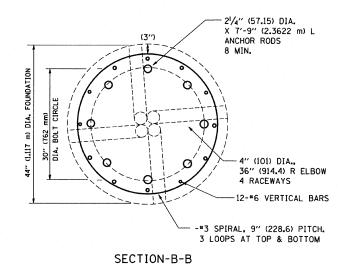
LIGHT TOWER FOUNDATION DEPTH "D"

	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/SQ. FT	LOOSE SAND Ø = 34°	MEDIUM SAND Ø = 37.5°	DENSE SAND Ø = 40° 12 FT (3.429 m) 13 FT (3.81 m) 14 FT (4.191 m)			
90 FT (27 m)	29 FT (8.779 m)	20 FT (6.035 m)	15 FT (4.389 m)	15 FT (4.389 m)	13 FT (3.840 m)				
100 FT (30 m)	32 FT (9.754 m)	22 FT (6.706 m)	16 FT (4.877 m)	16 FT (4.877 m)	14 FT (4.267 m)				
110 FT (33 m)	35 FT (10.719 m)	24 FT (7.377 m)	18 FT (5.365 m)	18 FT (5.365 m)	15 FT (4.694 m)				
120 FT (36 m)	38 FT (11.705 m)	26 FT (8.046 m)	19 FT (5.652 m)	19 FT (5 . 652 m)	17 FT (5.120 m)	16 FT (4.572 m)			



CRUSHED STONE CROUND WELL DETAIL 24" (609.6) MINIMUM DEPTH ENCLOSURE WITH REMOVABLE FLUSH COVER. COVER SHALL BE ATTACHED VIA S.S. HEADED SCREWS. CROUND ROD %" (160 DIA. × 10' (3.048 m) COPPER CLAD

(1) ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN 12" (304.8) RACEWAY PROJECTION BASE PLATE (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 -TO ANCHOR RODS SCREEN FASTENED WITH A STAINLESS STEEL BAND. EXOTHERMIC WELD — CONNECTION TO REINFORCING STEEL (4) THE TOP OF THE FOUNDATION TO IS (450) BELOW GRADE SHALL BE FORMED. (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 (6) THE LIGHT TOWER SHALL NOT BE ERECTED UNTIL AFTER THE CONCRETE HAS BEEN CURED ACCORDING TO ARTICLE 1020.13. (7) ANCHOR RODS SHALL BE STRAIGHT AND SHALL BE ACCORDING TO AASHTO M 314 OR ASTM F1554, GRADE 725(GRADE 105) AND GALVANIZED (8) ANCHOR ROD INFORMATION SHALL BE SUBMITTED FOR APPROVAL AND SHALL BE FULLY COORDINATED FOR SEE ANCHOR BOLT CAGE WELDMENT DETAIL SHEET 2 APPROVAL WITH TOWER MANUFACTURER REQUIREMENTS. (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 4-5%" (16) DIA. X 10' (3,048 m) LONG GROUND RODS EDUALLY SPACED IN A 10' (3,048 m) DIAMETER CIRCLE EXOTHERMICALLY CONNECTED TOCETHER WITH A #2/O BARE COPPER WIRE (SEE GROUND ROD DETAIL) ARE INSTALLED.

44" (1.117 m)

FOUNDATION

ELEVATION

DESIGN NOTES

#2/0 BARE COPPER WIRE

FOUNDATION

GROUND ROD DETAIL

REINFORCEMENT BAR CAGE
MECHANICAL CONNECTION
TO ANCHOR ROD (TYPICAL)

GROUND WELL (TYP.EA.GND ROD)
SEE GROUND WELL DETAIL

FOR INFORMATION ONLY

EXOTHERMIC WELDS TO REINFORCEMENT BAR CAGE

5' RADIUS-(1.524 m)

ANCHOR ROD (TYP.)

GROUND ROD (TYP)~

Į,	ILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED - R. TOMSONS 04-22-02		HIGH MAST LIGHT TOWER			F.A	SECTION	COUNTY TOTA	TAL SHEET
- 1	/:\diststd\22×34\be501.dgn		DRAWN -	REVISED -	STATE OF ILLINOIS				RIE.	520110H	SHEET SHEET	ETS NO.
		PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	90 FT TO 120 FT (27 mTO 36 m) FOUM		ATION DETAIL	74 1 8	KOD2-008 FZ	CONTRACT NO.	8 51
		PLOT DATE = 1/4/2008	DATE -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 2 SHEETS STA.	TO STA.	BE-501 C		Odition to go mit	