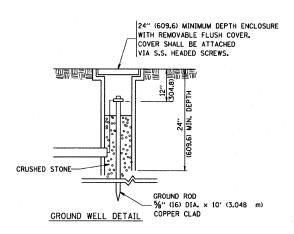
LIGHT TOWER FOUNDATION DEPTH "D"

	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°			
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)	(4.877 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)			

21/4" (57.15) DIA. X 7"-9" (2.3622 m) L ANCHOR RODS 8 MIN. 8 MIN. 4" (101) DIA., 36" (914.4) R ELBOW 4 RACEWAYS 12-*6 VERTICAL BARS -*3 SPIRAL, 9" (228.6) PITCH. 3 LOOPS AT TOP & BOTTOM

SECTION-B-B



DESIGN NOTES (1) ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN 12" (304.8) BASE PLATE-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 MECHANICAL CONNECTION -TO ANCHOR RODS PLATE SHALL BE ENCLOSED WITH A STAINLESS STEEL SCREEN FASTENED WITH A STAINLESS STEEL BAND. EXOTHERMIC WELD — CONNECTION TO REINFORCING STEEL (4) THE TOP OF THE FOUNDATION TO 18" (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 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 4-5%" (16) DIA. X 10' (3.048 m) LONG GROUND RODS EQUALLY SPACED IN A 10' (3.048 m) DIAMETER CIRCLE EXOTHERMICALLY CONNECTED TOGETHER WITH A 2"/O BARE COPPER WIRE (SEE GROUND ROD DETAIL) ARE INSTALLED. EXOTHERMIC WELDS TO REINFORCEMENT BAR CAGE #2/0 BARE COPPER WIRE 5' RADIUS-(1.524 m) GROUND WELL (TYP. EA. GND ROD) 3" (76.2) SEE GROUND WELL DETAIL 44" (1.117 m) FOUNDATION GROUND ROD (TYP)-ELEVATION -FOUNDATION ANCHOR ROD (TYP.) REINFORCEMENT BAR CAGE

FOR INFORMATION ONLY

MECHANICAL CONNECTION
TO ANCHOR ROD (TYPICAL)

GROUND ROD DETAIL

FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED - R. TOMSONS 04-22-02		WALL ELECT LIGHT TOWNS						F.A.	SECTION	COUNTY	TOTAL SHEET		
W:\diststd\22x34\be501.dgn		DRAWN -	REVISED -	STATE OF ILLINOIS	HIGH MAST LIGHT TOWER						RIE.	2006 0101	A	SHEETS NO.		
l	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	90 FT TO 120 FT (27 mTO 3				TO 120 FT (27 mTO 36 m) FOUNDATION DETAIL				14	BE-501	CONTRAC	T NO (0475
	PLOT DATE = 1/4/2008	DATE -	REVISED -		SCALE: NONE	SHEET NO	0.1	OF 2	SHEETS	S S	TA.	TO STA.	FED. Rf	DAD DIST. NO. 1 ILLINOIS FED.		1 NU. GOA 45