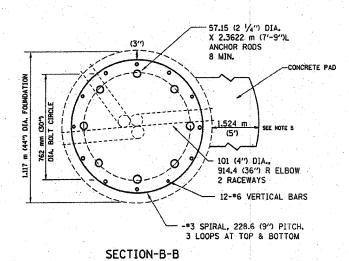
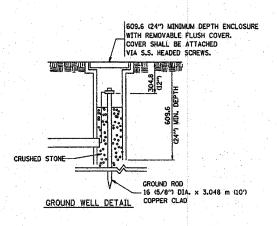
, .	F. A. SECTION			COUNTY	TOTAL SHEETE	SHEET NO	
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	STA.			TO STA.			
	FEO. ROAD DIST. NO. 7		DA.ING	5 8	PED. AED PROJECT		

62583

## LIGHT TOWER FOUNDATION DEPTH "D"

	SOIL CONDITIONS								
MOUNTING HEIGHT	SOFT CLAY Qu = 0.375 TON/SQ. 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°			
27m	8.779m	6.035m	4.389m	4.389m	3.840m	3.429m			
(90 ft)	(29 ft)	(20 ft)	(15 f+)	(15 ft)	(13 ft)	(12 f+)			
30m	9.754m	6.706m	4.877m	4.877m	4.267m	3.81m			
(100 ft)	(32 ft)	(22 ft)	(16 ft)	(16 f†)	(14 ft)	(13 f+)			
33m	10.719m	7.377m	5.365m	5,365m	4.694m	4.191m			
(110 ft)	(35 ft)	(24 ft)	(18 ft)	(18 ft)	(15 ft)	(14 f+)			
36m	11.705m	8.046m	5.652m	5.652m	5.120m	4.572m			
(120 ft)	(38 ft)	(26 ft)	(19 ft)	(19 f†)	(17 ft)	(16 ft)			



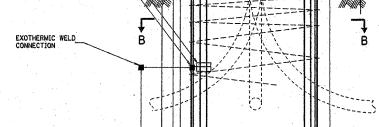


## 304.8 (12") RACEWAY PROJECTION MECHANICAL CONNECTION TO ANCHOR RODS EXOTHERMIC WELD CONNECTION TO -REINFORCING STEEL

1.117 m (44") **FOUNDATION** 

ELEVATION

76.2 (3")



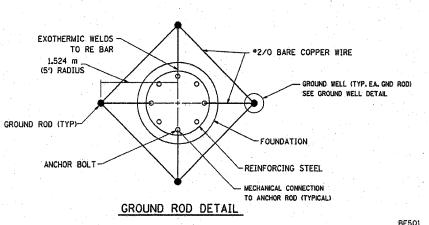
4- 16(5/8") DIA, X 3,048 m (10") LONG GROUND RODS EQUALLY SPACED IN A 3,048 m (10") DIAMETER CIRCLE EXOTHERMICALLY CONNECTED TOGETHER WITH A "ONNECTED TOGETHER WITH A "ONNECTED TOGETHER WITH A "CONNECTED TOGETHER WITH A "SEE GROUND ROD DETAIL)

## DESIGN NOTES

- (1) ALL DIMENSIONS IN MILLIMETERS (INCHES ) UNLESS OTHERWISE SHOWN
- (2) THE HOLE FOR THE FOUNDATION SHALL BE ACCORDING
- (3) THE ANCHOR BOLTS SHALL BE VERTICAL NO ADJUSTMENT SHALL BE ALLOWED AFTER THE FOUNDATION IS PLACED.
- (4) THE GAP BETWEEN THE FOUNDATION AND THE BASE PLATE SHALL BE ENCLOSED WITH A STAINLESS STEEL SCREEN FASTENED WITH A STAINLESS STEEL BAND.
- (5) THE TOP OF THE FOUNDATION TO 450 (18") BELOW GRADE SHALL BE FORMED.
- (6) A CONCRETE WORK PAD SHALL BE PROVIDED AS INDICATED IN THE PLANS AS A PART OF THIS ITEM.
- (7) 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.
- (8) THE LIGHT TOWER SHALL NOT BE ERECTED UNTIL AFTER THE CONCRETE HAS BEEN CURED ACCORDING TO ARTICLE 1020.13.
- (9) 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.

SEE ANCHOR BOLT CAGE WELDMENT DETAIL SHEET 2

- (IO) ANCHOR ROD INFORMATION SHALL BE SUBMITTED FOR APPROVAL AND SHALL BE FULLY COORDINATED FOR APPROVAL WITH TOWER MANUFACTURER REQUIREMENTS.
- UD REINFORCEMENT BARS SHALL BE ACCORDING TO ARTICLE 1006.10
- (12) TWO ANCHOR RODS OPPOSITE EACH OTHER SHALL HAVE THE ANCHOR ROD THREADS PEENED AFTER NUTS ARE INSTALLED.



ILLINOIS DEPARTMENT OF TRANSPORTATION REVISIONS NAME

HIGH MAST LIGHT TOWER DATE 27m TO 36m (90FT TO 120FT) FOUNDATION DETAIL SHEET 1 OF 2

SCALE: NONE DATE 3/22/0 DRAWN BY

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