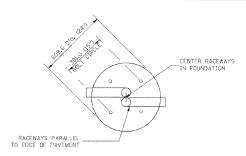
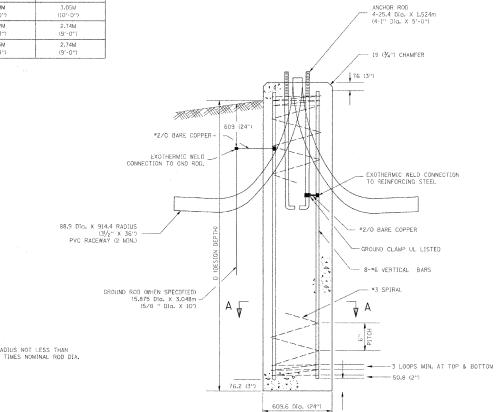
## LIGHT POLE FOUNDATION DEPTH TABLE 12.192M (40 FT.) TO 14.478M (47.5 FT.) MOUNTING HEIGHT

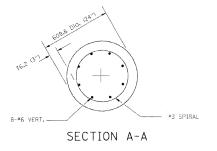
	DESIGN DEPTH "D" OF FOUNDATION			
SOIL CONDITIONS	SINGLE ARM POLE	TWIN ARM POLE		
SOFT CLAY	3.96M	4.57M		
Ou = 0.375 TON/SQ. FT.	(13'-0'')	(15'-0'')		
MEDIUM CLAY	2.09M	3,23M		
Qu = 0.75 TON/SQ.FT	(9'-6'')	(10'-9'')		
STIFF CLAY  Qu = 1.50 TON/SQ. FT.	2,13M (7'-0'')	2.44M (8'-0'')		
LOOSE SAND	2,74M	3.05M		
Ø = 34°	(9'~0')	(10'-0'')		
MEDIUM SAND	2,52M	2.74M		
Ø = 37.5°	(8'-3'')	(9'-0'')		
DENSE SAND	2.36M	2.74M		
Ø = 40°	(7'-9")	(9'-0'')		

ANCHOR ROD DETAIL



## TOP VIEW





FOUNDATION DETAIL

CONTRACT # 83971

## NOTES

- 1. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
- 2. THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE.
- 3. THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 100MM (4 IN.) ABOVE THE FINISHED GRADE WITHIN A 1.5M (60 IN.) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH AASHTO GUIDELINES. IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LINTIS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
- 4. THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
- THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMPERD 20MM (3/4-Th.).
- THE CONCRETE SHALL BE CLASS SI, CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
- 7. THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE EMCINEER.
- 8. THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105), NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
- ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY CALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH ASSITO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO ASSITO M 238, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UM/6 MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
- 10. THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 150 MM (6 INCHES) WITH A MINIMUM OF 75 MM (3 INCHES) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
- 11. ANCHOR RODS SHALL FROJECT 69.9MM (27/2") ABOVE THE TOP OF THE FOUNDATION. IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
- 12. THE CONTRACTOR SHALL USE A \*3 SPIRAL AT 152.4MM (6") PITCH OR MAY SUBSTITUTE \*3 TIES, AT 304.8MM (12") O.C. WITH THE APPROVAL OF THE ENGINEER.
- THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
- 14: THE RACEWAYS SHALL PROJECT 25.4MM (1") ABOVE THE TOP OF THE FOUNDATION.

ED-6

	REVISIONS NAME	DATE	ILLINOIS DEPARTMENT OF TRANSPORTATION IL RTE 58 (DEMPSTER ST) IMPROVEMENTS			
			LIGHT POLE TYPE "D" FOUNDATION DETAILS			
			SCALE:	N.T.S.		DRAWN BY: I.D.O.T.
-			DATE:	10-16-09		CHECKED BY: KMY
				I	McDonough Engineers / Architects	Associates Inc.