



**FOUNDATION DETAIL**

**FOUNDATION DESIGN TABLE**

TYPE OF SOIL	DESIGN DEPTH OF FOUNDATION		REINFORCEMENT IN FOUNDATION			
	SINGLE ARM D	TWIN ARM D	SINGLE ARM		TWIN ARM	
			VERT BARS	SPIRAL	VERT BARS	SPIRAL
SOFT CLAY	3.962 m (13'-0")	4.572 m (15'-0")	8-#6x3.810 m (121'-0")	#3x37.186 m (122')	8-#6x4.343 m (14'-3")	#3x42.977 m (141')
MEDIUM CLAY	2.896 m (9'-6")	3.277 m (10'-9")	8-#6x2.743 m (9'-0")	#3x27.432 m (90')	8-#6x3.048 m (10'-0")	#3x30.480 m (100')
STIFF CLAY	2.134 m (7'-0")	2.438 m (8'-0")	8-#6x1.981 m (6'-6")	#3x20.112 m (66')	8-#6x2.286 m (17'-6")	#3x23.165 m (76')
LOOSE SAND	2.743 m (9'-0")	3.048 m (10'-0")	8-#6x2.591 m (8'-6")	#3x25.908 m (85')	8-#6x2.896 m (9'-6")	#3x28.651 m (94')
MEDIUM SAND	2.515 m (8'-3")	2.743 m (9'-0")	8-#6x2.438 m (8'-0")	#3x23.774 m (78')	8-#6x2.591 m (8'-6")	#3x25.908 m (85')
DENSE SAND	2.362 m (7'-9")	2.743 m (9'-0")	8-#6x2.286 m (7'-6")	#3x22.250 m (73')	8-#6x2.591 m (8'-6")	#3x25.908 m (85')
ROCK OR SOLIDIFIED SLAG	1.524 m (5'-0")	1.524 m (5'-0")	NONE	NONE	NONE	NONE

**FOUNDATION NOTES**

- EXCAVATION OF THE POLE FOUNDATION SHALL BE MADE WITH AN AUGER, 24" IN DIAMETER.
- THE CONTRACTOR SHALL USE #3 SPIRAL AT 6" PITCH OR AT HIS OPTION MAY SUBSTITUTE #3 TIES AT 12" O.C.
- THE ANCHOR SHALL BE A TACK WELDED PLATE TYPE BOLT OR HOOK TYPE BOLT. COLD BENDING OF THE HOOK BOLT WILL NOT BE ALLOWED.
- THE ANCHOR BOLTS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED IN THE FORM.
- THE ENTIRE LENGTH OF THE ANCHOR BOLTS AS WELL AS THE NUTS AND WASHERS SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A 153.
- CONCRETE SHALL BE CLASS "SI". CONCRETE FOUNDATION MUST BE CURED FOR (10) TEN DAYS BEFORE THE LIGHT STANDARD IS ERECTED.
- THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE LIGHT IS ERECTED.
- ANCHOR BOLTS PROJECTION ABOVE THE TOP OF THE FOUNDATION, SHALL BE ACCORDING TO THE MANUFACTURER RECOMMENDATIONS.
- RACEWAYS SHALL PROJECT 1" ABOVE THE TOP OF THE FOUNDATION.
- REINFORCEMENT BARS SHALL COMPLY WITH ARTICLE 1006.10 OF THE STANDARD SPECIFICATION.
- THE CONTRACTOR SHALL COORDINATE TOTAL LENGTH OF ANCHOR BOLTS AND EXTENSION ABOVE TOP OF FOUNDATION WITH THE LIGHT POLE MANUFACTURER'S REQUIREMENTS. THE CONTRACTOR SHALL CONFIRM ANCHOR BOLT EXTENSION AND LENGTH WITH ENGINEER. MINIMUM ACCEPTABLE EMBEDMENT LENGTH FOR ANCHOR BOLTS CONFORMING TO NOTE 5 IS 36". ANCHOR ROD SHALL BE A MINIMUM OF 3/4" IN DIAMETER CONFORMING TO ASTM F 1554 (GR, 105).
- FOUNDATION DEPTH SHOWN ASSUMES MEDIUM CLAY OR SAND. THE ENGINEER SHALL DETERMINE ACCEPTABILITY. IN THE EVENT SOFT MATERIAL OR FILL IS ENCOUNTERED, ENGINEER MAY REQUIRE INCREASED FOUNDATION DEPTH.
- GROUND ROD AND GROUNDING EQUIPMENT IS INCIDENTAL TO FOUNDATION PAY ITEM (TYP).

LTG-13



FILE NAME =	USER NAME = #USER#	DESIGNED - BL	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>LIGHTING DETAILS</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILE#	PLOT SCALE = #SCALE#	DRAWN - RV	REVISED -			3513	10-00-111-00-LS	COOK	62	41	
	PLOT DATE = #DATE#	CHECKED - MSA	REVISED -			CONTRACT NO. 63622					
		DATE - 06-17-11	REVISED -			ILLINOIS FED. AID PROJECT					
						SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.