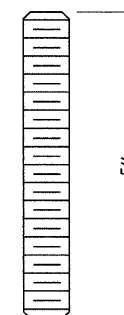
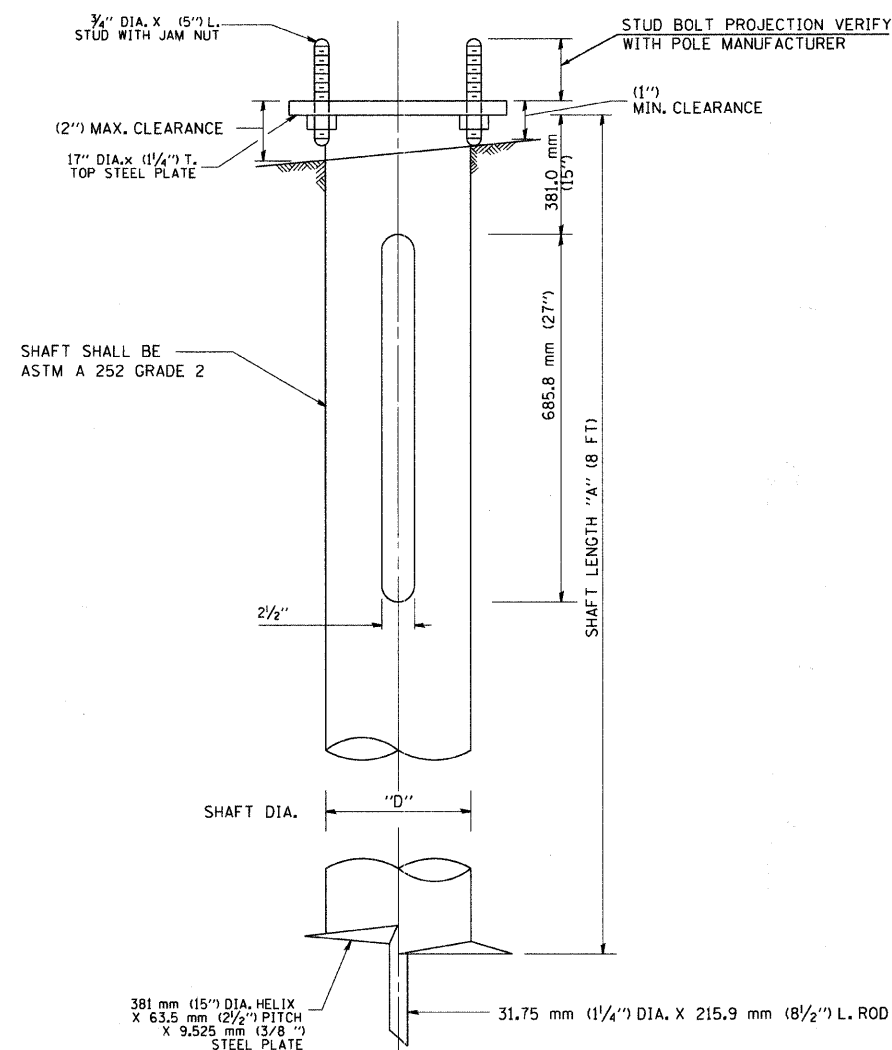
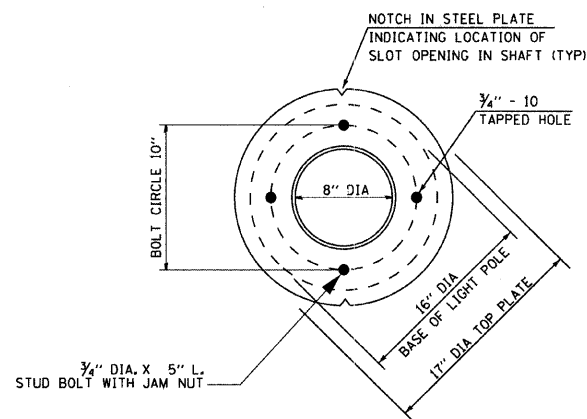


NOTES:

1. THE HELIX FOUNDATION SHAFT BASE PLATES, HELICAL PLATE, HELIX SCREW, PILOT POINT, AND STOCK BAR SHALL BE ASTM A36 STRUCTURAL STEEL OR BETTER.
2. ALL WELDS SHALL BE CONTINUOUS AND NOT LESS THAN (1/4 ") FILLET WELDS. THE WELDED FOUNDATION SHALL BE CAPABLE OF WITHSTANDING (10,000 FT/LBS) OF INSTALLATION TORQUE APPLIED ABOUT THE AXIS OF THE FOUNDATION.
3. THE ENTIRE HELIX FOUNDATION SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123, GRADE B. NO TOUCH-UP WILL BE PERMITTED.
4. FLAT AND LOCK WASHERS SHALL BE OF STEEL. THE STUD BOLTS, NUTS, AND WASHERS SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A153. HEX NUTS SHALL BE IN CONFORMANCE WITH ASTM A563, GRADE DH AND WASHERS SHALL BE IN CONFORMANCE WITH ASTM F436.
5. THE HELIX FOUNDATION SHAFT SHALL BE INSTALLED VERTICAL AND THE BASE PLATE SHALL BE IN LEVEL. THE HARDWARE SHALL NOT BE USED TO ALIGN THE POLE INSTALLATION.
6. THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE INSTALLATION OF THE LIGHT POLE.
7. STUD BOLTS (THREADED STUD) SHALL BE 3/4" DIAMETER AND SHALL COMPLY WITH THE REQUIREMENTS OF ASTM DESIGNATION A687 A F1554 GRADE 105
8. THE CONTRACTOR SHALL COORDINATE EXTENSION OF STUD BOLTS ABOVE TOP OF STEEL PLATE WITH THE LIGHT POLE MANUFACTURER'S REQUIREMENTS.
9. ANY VOIDS WITHIN THE METAL FOUNDATION SHALL BE FILLED WITH FINE AGGREGATE. THE FINE AGGREGATE SHALL COMPLY WITH THE STANDARD SPECIFICATIONS, ARTICLE 1003.04 (C) . COST AND LABOR FOR FURNISHING AND FILLING VOID OF THE METAL FOUNDATION SHALL BE INCLUDED IN THE PAY ITEM "LIGHT POLE FOUNDATION, METAL".
10. WIRING SLOTS SHALL BE ORIENTED PARALLEL TO THE CONCRETE CURB.
11. METAL FOUNDATION THAT ARE NOT INSTALLED TO FULL INSTALLATION DEPTH OR DO NOT ACHIEVE THE MINIMUM INSTALLATION TORQUE SHALL BE REMOVED AND REPLACED WITH THE CONCRETE FOUNDATION WITHOUT ANY ADDITIONAL COST.
12. THE METAL FOUNDATION SHALL NOT BE INSTALLED TO A TORQUE WHICH EXCEEDS MANUFACTURER'S MAXIMUM TORQUE RATING NOR SHALL IT BE INSTALLED TO AN INSTALLATION TORQUE VALUE OF LESS THAN 3,500 FT LB. METAL FOUNDATIONS THAT ARE NOT INSTALLED TO FULL INSTALLATION DEPTH OR DO NOT ACHIEVE THE MINIMUM INSTALLATION TORQUE SHALL BE REMOVE AND REPLACED WITH A CONCRETE FOUNDATION AT NO ADDITIONAL COST.



**3/4" DIA. 10UNC
THREADED STUD BOLT
(LIGHT POLE FOUNDATION)**

HELIX FOUNDATION SIZE

POLE MOUNTING HEIGHT	BOLT CIRCLE "d"	SHAFT LENGTH "A"		SHAFT DIA. "D"
		ON FLAT GROUND	ON 2:1 OR STEEP SLOPE	
14.478 m (47'-1/2 FT.)	381.0 m (15")	3.048 m (10'-0")	3.048 m (10'-0")	254.0 mm (10")

LIGHT POLE FOUNDATION METAL, DETAILS

DETAILS FROM J.H. BOTTS 815-726-5885



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
CITY OF BRAIDWOOD, WILL COUNTY
ILLINOIS ROUTE 113 (MAIN STREET)
ORNAMENTAL LIGHTING IMPROVEMENT
**LIGHT POLE FOUNDATION, METAL
10" BOLT CIRCLE, 8" x 8 FT**

SCALE: NONE
DATE: 10-15-09

DRAWN BY: HKQ
CHECKED BY: JS

REVISED 11-22-09