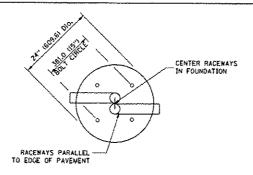
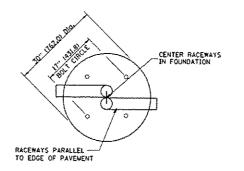


SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION	
	SINCLE ARM POLE	TWIN ARM POLE
SOFT CLAY Ou = 0.375 TON/SO, FT.	(3.96 m)	15'~0" (4,57 m)
MEDIUM CLAY	9'-6"	10'-9"
Qu = 0,75 TON/SQ.FT	(2.09 m)	(3.23 m)
STIFF CLAY	7'-0"	8'-0"
Ou = 1.50 TON/SO, FT.	(2.13 m)	(2.44 m)
LOOSE SAND	9'~0"	10'-0"
Ø * 34*	(2,74 m)	(3,05 m)
MEDIUM SAND	8'-3"	9'~0"
Ø = 37.5*	{2,52 m}	(2,74 m)
DENSE SAND	7'-9"	9'-0"
Ø = 40*	(2,36 m)	(2.74 m)



TOP VIEW



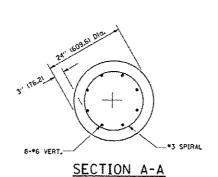
TOP VIEW

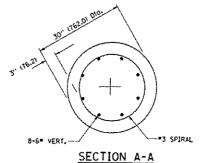
NOTES

- 1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IN PLACED.
- 3. THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 4 IN. (100 MIM) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, WITH ANCHOR ROOS INCLUDED, IN ACCORDANCE WITH AASHTO GUIDELINES. IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, 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THE SAME DIAMETER AS THE FOUNDATION, IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.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 SWOOTH SIDE TO THE TOP OF THE FOUNDATION, FOUNDATION TOP
- THE CONCRETE SHALL BE CLASS SI. CONCRETE SHALL GURE 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 RADRUS 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 ENGINEER.
- 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.
- 9. ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UNIO MILS) OR THE ELECTROLYTIC
- 10. THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 mm) WITH A MINIMUM OF 3 INCHES (75 mm) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
- 11. ANCHOR RODS SHALL PROJECT 23/4" (59.9 mm) 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 6" (152.4 mm) PITCH OR WAY SUBSTITUTE *3 TIES AT 12" (304.8 mm) 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 I" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.

ANCHOR ROD 4-1" Dig. X 5'-0" (4-25.4 Dig. X 1.524 m) ALEM AND AND *2/0 BARE COPPER EXOTHERMIC WELD CONNECTION TO GNO ROD. EXOTHERMIC WELD CONNECTION TO REINFORCING STEEL 3½" X 36" RADIUS (88.9 Dig. X 914.4) *2/0 BARE COPPER PVC RACEWAY (2 MIN.) THREADED - GROUND CLAMP UL LISTED - 8-86 VERTICAL BARS GROUND ROD %" Dla. X 10" -(15,875 Dla. X 3,048 m) %" T. X 4" Dia. (15.87 T. X 101,6 Dia.) WASHER, TACK WELDED RADIUS NOT LESS THAN 4 TIMES NOWINAL ROD DIA. 5" (127.0) ---- 3 LOOPS MIN. AT TOP & BOTTOM ANCHOR ROD DETAIL 2" (50.8) 3" (76.2) 24" (609,6) Dia. 30" (762,0) Dia. FOUNDATION DETAIL

TOP OF ANCHOR ROD GROUND LINE 50" (1500) FOUNDATION EXTENSION DETAIL





SCALE: N/A

LIGHT POLE FOUNDATION 40' (12.192 m) TO 47 1/2' (14.478 m) M.H. 15" (381 mm) BOLT CIRCLE

TO STA.

HODEL NAME = Design DESIGNED - JHD REVISED -FILE HAVE + DESARTION SPECIAL DRAWN - J#D REVISEO -≟cмт MFORD, MURPHY & TILLY, INC. PLOT SCALE . 48.0018 1/ In. CHECKED - A8 REVISED -PLOT DATE : 2/22/2813 - 3:46:13 PM DATE - 11/02/2012 REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

ROADWAY LIGHTING DETAIL LIGHT POLE FOUNDATION (BE-301) SHEET 24 OF 32 SHEETS STA.

SECTION COUNTY TOTAL SHEE SHEETS NO. (32, 33) R-1 742 WINNEBACO 705 510 CONTRACT NO. 64821 ILLINOIS FEO. AID PROJECT

TORY NAME