



| 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 | 13'-0" (3.962 m) | 15'-0" (4.572 m) | 8-#6X12'-6" (3.810 m) | #3X122' (37.186 m) | 8-#6X14'-3" (4.343 m) | #3X141' (42.977 m) |
| MEDIUM CLAY | 9'-6" (2.896 m) | 10'-9" (3.277 m) | 8-#6X9'-0" (2.743 m) | #3X90' (27.432 m) | 8-#6X10'-0" (3.048 m) | #3X100' (30.480 m) |
| STIFF CLAY | 7'-0" (2.134 m) | 8'-0" (2.438 m) | 8-#6X8'-6" (1.981 m) | #3X85' (20.112 m) | 8-#6X7'-6" (2.286 m) | #3X76' (23.165 m) |
| LOOSE SAND | 9'-0" (2.743 m) | 10'-0" (3.048 m) | 8-#6X8'-6" (2.591 m) | #3X85' (25.908 m) | 8-#6X9'-6" (2.896 m) | #3X94' (28.651 m) |
| MEDIUM SAND | 8'-3" (2.515 m) | 9'-0" (2.743 m) | 8-#6X8'-0" (2.438 m) | #3X78' (23.774 m) | 8-#6X8'-6" (2.591 m) | #3X85' (25.908 m) |
| DENSE SAND | 7'-9" (2.362 m) | 9'-0" (2.743 m) | 8-#6X7'-6" (2.286 m) | #3X73' (22.250 m) | 8-#6X8'-6" (2.591 m) | #3X85' (25.908 m) |
| ROCK OR SOLIDIFIED SLAG | 5'-0" (1.524 m) | 5'-0" (1.524 m) | NONE | NONE | NONE | NONE |

NOTES

- THE ENGINEER SHALL DETERMINE THE CLASS OF SOIL DURING EXCAVATION AND SELECT THE DESIGN DEPTH OF FOUNDATION FROM THE DESIGN TABLE.
- EXCAVATION OF THE POLE FOUNDATION SHALL BE MADE WITH AN AUGER, 24" (609.6 mm) OR 30" (762.0 mm) IN DIAMETER.
- THE ANCHOR SHALL BE A TACK WELDED 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 DESIGNATION A 153.
- THE CONTRACTOR SHALL COORDINATE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF FOUNDATION WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS. IF LIGHT POLE IS MOUNTED WITHOUT BREAKAWAY DEVICE, ANCHOR BOLTS SHALL PROJECT 3" (76.2 mm) ABOVE TOP OF THE FOUNDATION. THE CONTRACTOR SHALL CONFIRM ANCHOR BOLT EXTENSION WITH ENGINEER.
- RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.
- CONCRETE SHALL BE CLASS "X". CONCRETE FOUNDATION MUST BE CURED FOR TEN (10) DAYS BEFORE THE LIGHT STANDARD IS ERECTED.
- THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE LIGHT IS ERECTED.

| MARK | NO. | SIZE | LENGTH | SHAPE |
|----------------|-----|------|--------------------|-------|
| a | 10 | 6 | SEE SCHEDULE | — |
| s | 12 | 4 | 8'-0" (2.438 m) | □ |
| s ₁ | 3 | 3 | 7'-6" (2.286 m) | □ |
| v ₁ | 8 | 6 | 2'-9" (0.838 m) | — |
| v ₂ | | | | |

| SEWER PIPE DIAM. d | PILE OFFSET FROM MEDIAN | LENGTH OF BAR a |
|--------------------|-------------------------|-----------------|
| 18" (457.2 mm) | 0.000 m | 0.000 m |
| 24" (609.6 mm) | 0.305 m | 0.610 m |
| 30" (762.0 mm) | 0.610 m | 1.220 m |
| 36" (914.4 mm) | 0.914 m | 1.830 m |
| 42" (1066.8 mm) | 1.220 m | 2.440 m |
| 48" (1219.2 mm) | 1.524 m | 3.050 m |
| 54" (1371.6 mm) | 1.829 m | 3.660 m |
| 60" (1524.0 mm) | 2.134 m | 4.270 m |
| 66" (1676.4 mm) | 2.438 m | 4.880 m |
| 72" (1828.8 mm) | 2.743 m | 5.490 m |

ILLINOIS DEPARTMENT OF TRANSPORTATION

OFFSET FOUNDATION FOR 47'-6" LIGHT STANDARD

SCALE: NONE

DATE: 4/4/2008

DRAWN BY: JRM

CHECKED BY: