





- BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm).
 ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
- 2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
- 3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.

Mast Arm Length

- 4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
- 5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
- 6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

TEMPORARY SIGNAL CONTROLLER WOOD SUPPORT PLATFORM

| CABLE SLACK LENGTH | FEET | METER |
|---|------|-------|
| HANDHOLE | 6.5 | 2.0 |
| DOUBLE HANDHOLE | 13.0 | 4.0 |
| SIGNAL POST | 2.0 | 0.6 |
| MAST ARM | 2,0 | 0.6 |
| CONTROLLER CABINET | 1.5 | 0.5 |
| FIBER OPTIC AT CABINET | 13.0 | 4.0 |
| ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION) | 1.5 | 0.5 |
| GROUND CABLE (SIGNAL POST, MAST ARM, CABINET) | 1.5 | 0.5 |
| GROUND CABLE (BETWEEN FRAME AND COVER) | 5.0 | 1.6 |

| VERTICAL CABLE LENGTH | FEET | METER |
|---|--------|-------|
| MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD) | | |
| (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM) | 20.0+L | 6.0+L |
| BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE) | 13.0 | 4.0 |
| PEDESTRIAN PUSH BUTTON | 6.0 | 2.0 |
| SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP | 13.5 | 4.1 |
| SERVICE INSTALLATION POLE MOUNT TO GROUND | 13.5 | 4.1 |
| SERVICE INSTALLATION GROUND MOUNT | 6.0 | 2.0 |
| FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT) | 3.0 | 1.0 |

VERTICAL CABLE LENGTH

REVISED

DEPTH OF FOUNDATION

| | | 40' (12.2 m) | 11'-0" (3.4 m) | 36" |
|---|--------------|--|----------------|-------|
| | | Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m) | 13'-0" (4.0 m) | 36" |
| FOUNDATION | DEPTH | Greater than or equal to 50' (15.2 m) and up to | 15'-0" (4.6 m) | 36" |
| TYPE A - Signal Post | 4'-0" (1.2m) | 55′ (16.8 m) | | |
| TYPE C - CONTROLLER W/ UPS | 4'-0" (1,2m) | Greater than or equal to 56' (16.8 m) and less than | 21'-0" (6.4 m) | 42" |
| TYPE D - CONTROLLER | 4'-0" (1.2m) | 65' (19.8 m) | 21 0 (0.4 11) | 42 |
| SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE | 4'-0" (1.2m) | Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m) | 25′-0″ (7.6 m) | 42" (|

- 1. These foundation depths are for sites which have cohesive soils (clayey slit, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & structures should be contacted for a revised design if other conditions are encountered.
- 2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
- 3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

4. For most arm assemblies with dual arms refer to state standard 878001.

CABLE SLACK

PLOT DATE = 2/3/2011

| | | | | - | | |
|--|-----------------------------|------------|-----|---------|---|---|
| FILE NAME = | USER NAME = kellers | DESIGNED - | DAG | REVISED | - | Ī |
| c:\pw_work\pwidot\kellers\d0156262\DistS | :d.dgn | DRAWN - | BCK | REVISED | - | |
| | PLOT SCALE = 50.0000 '/ IN. | CHECKED - | DAD | REVISED | - | |

DATE

- 10-28-09

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

| | DISTRICT ONE | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEET SHEETS NO. | |
|-------------|--|--------------------------------|---------------------------------|------------|---------------------------|--|
| · · | STANDARD TRAFFIC SIGNAL DESIGN DETAILS | 338 | 7 HB-K-N | COOK | 82 57 | |
| | | RTE. SECTION COUNTY SHEETS NO. | | | | |
| SCALE: NONE | SHEET NO. 5 OF 6 SHEETS STA. TO STA. | FED. R | OAD DIST. NO. 1 ILLINOIS FED. A | ID PROJECT | | |

| Less than 30′ (9.1 m) | 10'-0" (3.0 m) | 30" (750mm) | 24" (600mm) | 8 | 6(19) |
|--|-----------------|--------------|-------------|----|-------|
| Greater than or equal to | 13'-6" (4.1 m) | 30" (750mm) | 24" (600mm) | 8 | 6(19) |
| 30' (9.1 m) and less than 40' (12.2 m) | 11'-0'' (3.4 m) | 36" (900mm) | 30" (750mm) | 12 | 7(22) |
| Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m) | 13'-0'' (4.0 m) | 36" (900mm) | 30" (750mm) | 12 | 7(22) |
| Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m) | 15'-0'' (4.6 m) | 36" (900mm) | 30" (750mm) | 12 | 7(22) |
| Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m) | 21'-0'' (6.4 m) | 42" (1060mm) | 36" (900mm) | 16 | 8(25) |
| Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m) | 25'-0" (7.6 m) | 42" (1060mm) | 36" (900mm) | 16 | 8(25) |
| TEC. | | | | | |

Foundation Spiral Quantity of Size of Diameter Diameter Rebars Rebars