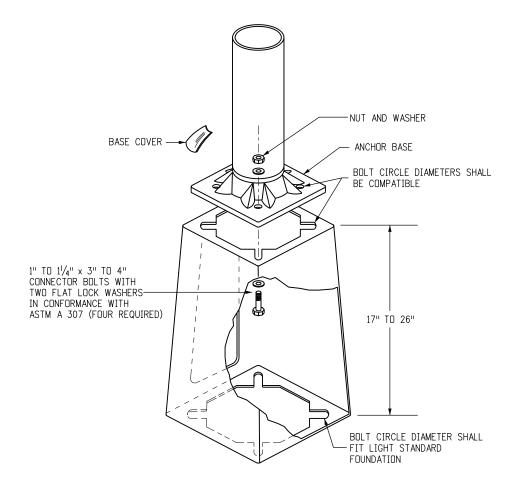


BOLT CIRCLE SHALL MATCH FOUNDATION BOLT CIRCLE SHALL MATCH LIGHT STANDARD BASE

BOTTOM PLATE FRONT VIEW TOP PLATE

NOTE: MATCH EXISTING BREAKAWAY TRANSFORMER BASE AS CLOSELY AS POSSIBLE.



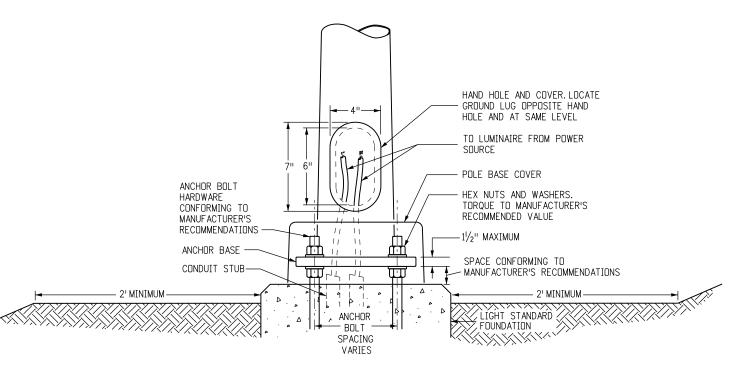
TYPICAL BREAK-AWAY TYPE TRANSFORMER BASE DETAIL

NOTES:

- 1. HARDWARE SHALL CONFORM TO MANUFACTURER'S REQUIREMENTS.
- 2. A HAND HOLE IS NOT REQUIRED IN POLE IF A BREAK-AWAY TRANSFORMER BASE IS USED.

NOTES

- 1. BREAK-AWAY TRANSFORMER BASES MAY BE OMITTED AND THE POLES MOUNTED DIRECTLY ON THE LIGHT STANDARD FOUNDATION, BUT ONLY WHERE DESIGNATED ON THE PLANS.
- 2. ALL BREAK-AWAY TRANSFORMER BASES SHALL CONFORM TO AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS".
- 3. LIGHT STANDARD FOUNDATIONS MAY BE PRECAST CONCRETE OR CAST-IN-PLACE CONCRETE.
- 4. LIGHT STANDARDS SHALL BE WIRED WITH BREAKAWAY FUSED CONNECTORS AND BE GROUNDED IN ACCORDANCE WITH THE SPECIFICATIONS.



TYPICAL NON-BREAKAWAY BASE DETAIL

FOR USE ONLY OUTSIDE CLEAR ZONE OR IN PROTECTED INSTALLATIONS.

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ROADWAY LIGHTING

STANDARD PLAN NO.

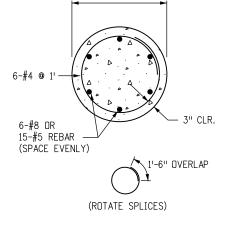
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ALL CONDUCTORS SHALL BE SIZED BOLT CIRCLE DIMENSIONS VARY, BOLT CIRCLE IN CONFORMANCE WITH N.E.C. SHALL BE CENTERED ON FOUNDATION. REQUIREMENTS IMSA 19-1 BOND ONE #6 SOFT DRAWN BARE COPPER GROUND WIRE 3 CONDUCTOR #14 AWG MINIMUM FROM GROUNDING LUG AT BASE OF POLE TO GROUND ROD IN-LINE FUSE HOLDERS AND FUSES 1/2" PVC SLEEVE INSTALLED IN POLE BASE AS SHOWN FOR GROUNDING CONDUCTOR ACCEPTABLE CUNNECTURE - NOTE: WIRE NUTS AND SPLIT BOLTS −¾" CHAMFER ON ALL EXPOSED EDGES 4" MAXIMUM ARE NOT ACCEPTABLE - PROJECT 2¾" ± 1/4" FINAL GRADE (TYP.) ♦ TWO 2" DIA. CONDUITS FOR ROADWAY STANDARDS OR — TWO 1" DIA. CONDUITS FOR PEDESTRIAN STANDARDS FOUR ANCHOR BOLTS, ASTM A 307 1" DIA. WITH TOP 8" OR MORE GALVANIZED 5%" DIA. x 8'-0" COPPER CLAD DRIVEN GROUND | 3" CLR.→ - ROD 4" MINIMUM BELOW SURFACE AND 6" MINIMUM AWAY FROM CONCRETE BASE. CONNECT CONDUCTOR TO GROUND ROD WITH APPROVED GROUND ROD CLAMP. 6" (MIN.) -6-#8 OR 15 #5 REBAR -6-#4 TIES AT 1'-0" CENTERS 6" MAX. 2" MIN.

TYPICAL CONCRETE LIGHT STANDARD FOUNDATION

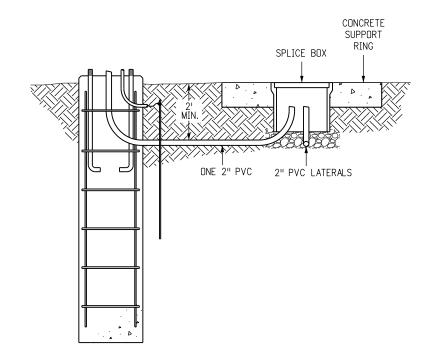


2'-0" DIA.

TYPICAL FOUNDATION SECTION

<u>NOTES</u>

- DIMENSIONS FOR THE TRANSFORMER BASE, ANCHOR BASE AND ANCHOR BOLTS ARE VARIABLE FOR THE HEIGHT OF THE LIGHT STANDARD AND THE MAST ARM CONFIGURATION. ALL COMPONENTS SHALL FIT AND ACCOMMODATE THE REQUIREMENTS OF THE LIGHT STANDARD SUPPLIED.
- * 2. FOUNDATION SHALL BE 7 FT.FOR LIGHT STANDARDS 20 FT.THRU 40 FT., AND 6 FT. FOR LIGHT STANDARDS LESS THAN 20 FT.
- 3. LIGHT STANDARD FOUNDATION DEPTH IS BASED ON A MAXIMUM POLE HEIGHT OF 40 FT. IN STIFF CLAY WITH N > 8 OR MEDIUM SAND WITH N > 15 AS DETERMINED BY ASTM D 1586 STANDARD PENETRATION TEST.
- 4. CONCRETE SHALL BE CLASS B.
- 5. FOUNDATIONS FOR LIGHT STANDARDS HIGHER THAN 40 FT. OR LIGHT STANDARDS WITH MULTIPLE LUMINAIRES OR BANNERS, OR VARYING SOIL OR WIND CONDITIONS, SHALL BE DESIGNED BY THE CONTRACTOR'S ENGINEER AND SHOWN ON THE PLANS.
- ♦ WHERE FOUNDATION IS LOCATED IN THE SIDEWALK, THE TOP OF THE FOUNDATION SHALL BE FLUSH WITH THE TOP OF THE SIDEWALK CONFORMING TO ADA REQUIREMENTS.



ALTERNATIVE CONCRETE LIGHT STANDARD FOUNDATION
WITH SPLICE BOX

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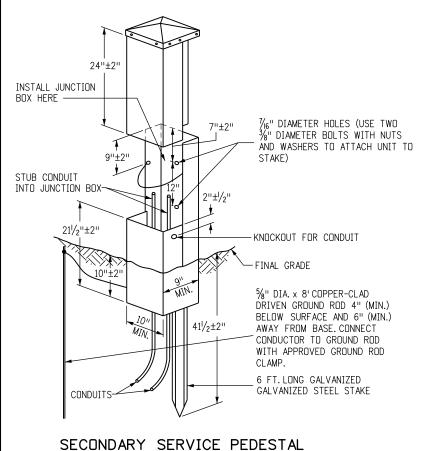
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(FRONT VIEW WITH COVER LIFTED)

ELECTRICAL | -

(MIN.)

PLAN VIEW

12"

(MIN.)

WARNING TAPE 6" TO 12" DEEP COMPACTED BACKFILL 2" CONDUIT CONDUIT

SECTION-TYPICAL CONDUIT BURIAL

NOTES:

CONCRETE (CLASS B) SUPPORT RING

(NOT REQUIRED WHEN EMBEDDED IN

CONCRETE PAD)

CONCRETE SIDEWALK OR OTHER SUITABLE

SECTION A-A

- 1. CONTRACTOR SHALL COORDINATE TRENCHING WITH OTHER UNDERGROUND UTILITIES, RAMP METERING AND IRRIGATION. CONTRACTOR SHALL USE COMMON TRENCHES AT ALL ROAD CROSSINGS WHERE POSSIBLE.
- 2. ONE #14 AWG LOCATE WIRE AND A NYLON PULL STRING IN ALL EMPTY CONDUITS.

PEDESTAL COMPONENT LIST

- (A) 125A, 120/240V, NEMA 3R METER HOUSING CONFORMING TO UTILITY PROVIDER REQUIREMENTS.
- B 100A, 250V, HEAVY DUTY, 2-POLE, NEMA 3R, SERVICE ENTRANCE RATED DISCONNECT SWITCH WITH GROUND AND NEUTRAL BARS.
- (C) 100A, MLO, 120/240V-10-3W, 8-SPACE, NEMA 3R LOAD CENTER WITH BRANCH BREAKERS AS LISTED ON THE PANEL SCHEDULE.
- (D) HEAVY DUTY, GALVANIZED C-CHANNEL TYPE RACKING SET IN CONCRETE. PAINT TO MATCH PANEL COLOR.
- (E) 30-AMP 12-POLE ELECTRICALLY HELD LIGHTING CONTACTOR FURNISHED WITH 120-VOLT COIL AND NEMA 3R 120V PHOTO ELECTRIC CONTROL WITH TWIST-LOCK RECEPTACLE BASE.
- F 5%" x 8'-0" COPPER-CLAD DRIVEN GROUND ROD WITH APPROVED GROUND ROD CLAMP.

NOTE: UNDERGROUND COMBINATION METER/SERVICE PANEL ASSEMBLY MAY BE USED IF APPROVED BY ENGINEER.

CABINET COMPONENT LIST

- (A) 30 IN. W. x 48 IN. H. x 12 IN. D. NEMA 3R HINGED ENCLOSURE WITH 6 IN. LEGS ANCHORED TO THE CONCRETE FOUNDATION PAD. THE BACK OF THE CABINET SHALL BE LOCATED 6 IN. MAXIMUM FROM THE EDGE OF THE CONCRETE PAD.
- B NEMA 1,100-AMP MLO 120V/240V 1Ø 3W LOAD CENTER (SEE PANEL SCHEDULE). MINIMUM SPACES AS REQUIRED PLUS A MINIMUM OF TWO AVAILABLE SPACES FOR FUTURE USE. INSTALL IN CABINET WITH FULL-SIZE GROUND, COVER, AND BRANCH BREAKERS AS LISTED ON THE SCHEDULE.
- © ELECTRICALLY HELD LIGHTING CONTACTOR FURNISHED WITH 120-VOLT COIL AND NUMBER OF POLES REQUIRED. INSTALL INSIDE CABINET.
- NEMA 3R 120V PHOTOELECTRIC CONTROL WITH 3-PRONG TWIST-LOCK RECEPTACLE BASE. INSTALL THE BASE INSIDE THE CABINET. THE PHOTOELECTRIC CONTROL SHALL BE MOUNTED ON TOP OF THE CABINET AND ORIENTED NORTHWARD TO MINIMIZE THE SUN'S INTERFERENCE.
- (E) 20-AMP GFCI MAINT. RECEPTACLE IN A 1-GANG BACK BOX WITH COVER. INSTALL INSIDE THE CABINET.
- F) 125A, 120/240V, METER HOUSING CONFORMING TO THE UTILITY PROVIDER'S REQUIREMENTS.
- G NEMA 3R,100-AMP, 2-POLE FUSED DISCONNECT, UL LISTED FOR SERVICE EQUIPMENT AND FRN FUSES AS SHOWN ON ONE-LINE DIAGRAM WITH NEUTRAL AND GROUND BARS. MOUNTED ON BACK SIDE OF ENCLOSURE.
- H) %" x 8'-0" COPPER-CLAD DRIVEN GROUND ROD WITH APPROVED GROUND ROD CLAMP.

NOT SHOWN IN THE DETAIL:

- 1. VOLTAGE SURGE ARRESTOR, 650V A.C. TO GROUND MAX.
- "HAND-OFF-AUTO" KEY SWITCH. KEYED FOR AGENCY RESPONSIBLE FOR THE MAINTENANCE OF THE SYSTEM.

ORIENT PHOTO ELECTRIC CONTROLS TOWARD NORTH METER) 3/8" x 4" GALVANIZED Ĵ-BOLT WITH NUT AND FLAT WASHER (4 REQUIRED) |B|9 0 \bigcirc 60" W. x 36" L. x 12" D. CONCRETE (CLASS B) FOUNDATION PAD WITH 1" CHAMEER CONCRETE SUPPORT 16" x 28" RING PULL BOX 0 | 9 | 1 (MIN.) #5 AT 8" O.C. EACH WAY AT MID-DEPTH < 8'-0" (MIN.) LIGHTING CONTROL CENTER (CABINET)

FRONT ELEVATION

LIGHTING CONTROL CENTER (PEDESTAL)

60"

81 (MIN.)

TYPICAL PULL OR SPLICE BOX

NOTES:

12"

`△ (MIN.) △

- 1. ALL PULL OR SPLICE BOXES SHALL BE TRAFFIC RATED 20,000 PSI MINIMUM.
- 2. BOX DIMENSIONS SHOWN ARE FOR 2 IN. CONDUITS MAXIMUM. FOR CONDUITS LARGER THAN 2 IN. REFER TO N.E.C. SECTION 314.28A FOR BOX SIZE REQUIREMENTS.

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- 6" DEEP GRAVEL BED

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ROADWAY LIGHTING

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PANEL

REAR ELEVATION