NOTES:

- HANDHOLE COVER

DETAIL "A"

HANDHOLE COVER

HANDLE

DETAIL "B"

RECESSED COVER

-U.L. LISTED

SPLICE KIT

TO POLE OR

POST AS REQ'D.

-SEE DETAIL "B"

CAST CORNER FRAME WEB

ANTI-CORROSION COMPOUND

BOLT/ CONNECTION ASSEMBLIES.

-STAINLESS STEEL NUT AND 2 STAINLESS STEEL WASHERS

SEE DETAIL "A"-

CABLE HOOKS

HANDHOLES

REQUIRED. ALL

SHALL BE APPLIED ON ALL

DE LISTED GROUND. COMPRESSION CONNECTOR

UL LISTED GROUND

COMPRESSION CONNECTOR - WITH STAINLESS STEEL NUT

-1∠1/C #6

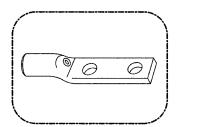
(GREEN)

HANDHOLE COVER & FRAME - GROUNDING DETAIL

(NOT TO SCALE)

GROUNDING SYSTEM

- 1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. \times 10'-0" (20mm \times 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
- 2. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
- 3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
- 4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.

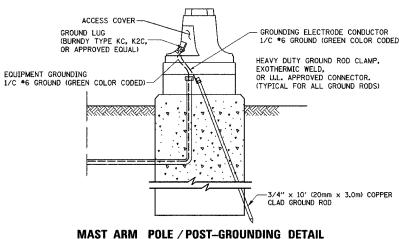


HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)



3/4" (20mm) HEAVY-DUTY GROUND ROD CLAMP (BURNDY TYPE GRC OR APPROVED EUAL)

• ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED. • GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



(NOT TO SCALE)

KANE COUNTY DIVISION OF TRANSPORTATION DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS DRAWN BY: RWP DESIGNED BY: DAD CHECKED BY: DAZ SHEET 3 OF 4 NOT TO SCALE

DATE 1-01-02

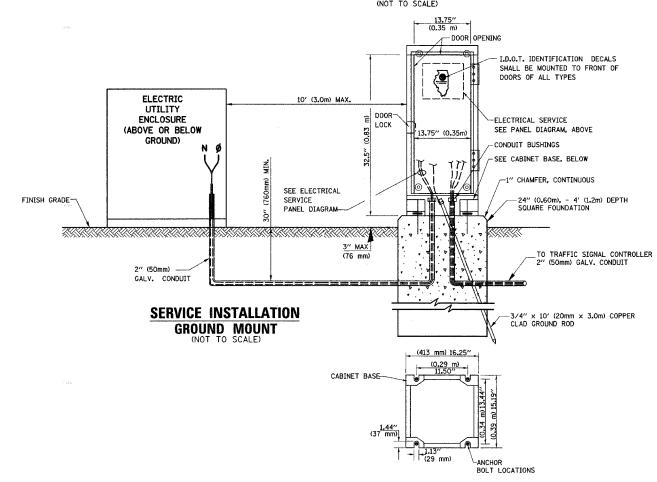
NOTES: 1. ELECTRIC SERVICE PANELS SHALL BE CONSTRUCTED TO U.L. STD 508. INDUSTRIAL CONTROL PANEL, AND CARRY THE U.L. LABEL. 2. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

10 0 TOP & BOTTOM AS PER-MANUFACTURER -STANDOFF $| \oplus |$ CABINET. SHEET ALUMINUM --PANELBOARD PRESSURE CONNECTOR, TYP. CONTINUOUS PIANO HINGE-DISCONNECT ---15A, MAIN -FUSE, KLKR 1/4 A TRAFFIC SIGNAL CONTROLLER CABINET -LOCK, HASE POLE MOUNTED SERVICE -PADLOCK, FURNISHED BY CABINET OUTSIDE
DIMENSIONS L 6" × W 12" × H 14" CONTRACTOR. KEYED TO DISTRICT 1 REQUIREMENTS CIRCUIT L (150mm) x W (300mm) x H (355mm) NEUTRAL POWER INDICATOR LIGHT -INTERNALLY MOUNTED FOR-GROUND MOUNTED SERVICE COMPRESSION LATCH, TYP. (2 MIN. REO'D) -1 1/4" (30mm) DIA. COUPLING ----STRAIN RELIEF COUPLING TO GROUND ROD--SECONDARY ELECTRICAL SERVICE BY UTILITY CO. 3/4" (20mm) GALV. CONDUIT -2/C (NEUTRAL-WHITE, PHASE-BLACK) ELECTRICAL SERVICE TO TRAFFIC SIGNAL CONTROLLER (SEE ALL CABLE PLAN, FOR ALL CABLE SIZES) -- 1/C GROUND (GREEN COLOR CODED)

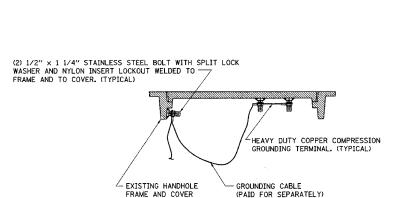
MOUNTING PLATE

ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)

SERVICE INSTALLATION POLE MOUNT (SHOWN)



CABINET - BASE BOLT PATTERN (NOT TO SCALE)



EXISTING HANDHOLE COVER & FRAME - GROUNDING DETAIL

(NOT TO SCALE)