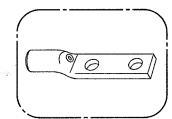


NOTES:

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. x 10'-0" (20mm x 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
- 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.



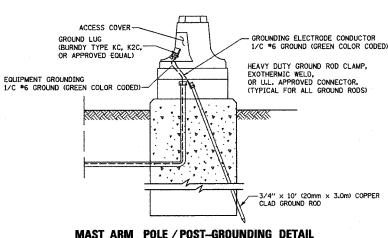
HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)

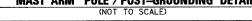


3/4" (20mm) HEAVY-DUTY GROUND ROD CLAMP (BURNDY TYPE GRC OR APPROVED EUAL)

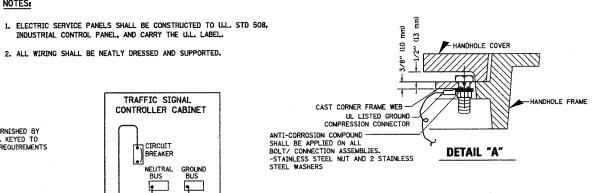
NOTES:

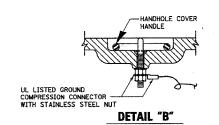
• ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
• GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.





REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION	
NAME	DATE	TELLITOIS DEL'ARTIMENT	OF THAIRD ON ATTOR
		DISTRI STANDARD TRA	AFFIC SIGNAL
		DESIGN DETAILS	
		SCALE: VERT. NONE HORIZ. DATE 1-01-02	DRAWN BY: RWP DESIGNED BY: DAD CHECKED BY: DAZ SHEET 3 OF 4
			TCOE





SEE DETAIL "A" --- SEE DETAIL "B" RECESSED COVER CARLE HOOKS REQUIRED, ALL GROUND CARLES TO CONTROLLER DOUBLE HANDHOLE TO POLE OR POST AS REQ'D. Z1/C *6 (GREEN) -U.L. LISTED DIRECT BURIAL

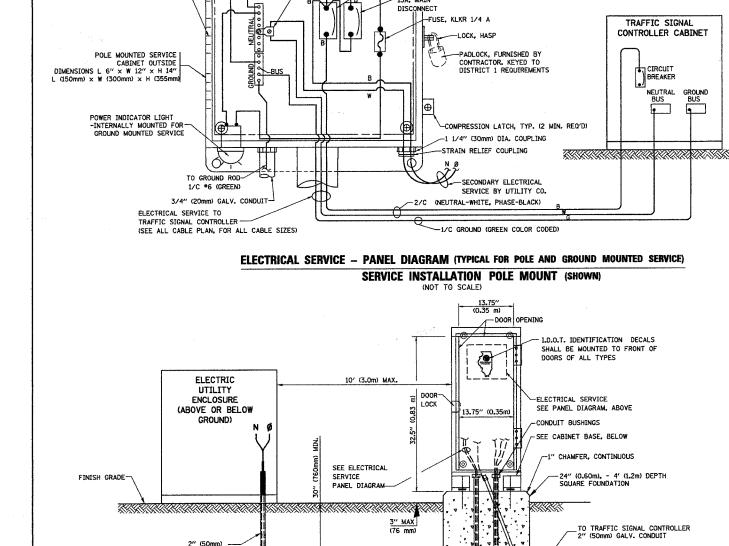
HANDHOLE COVER & FRAME - GROUNDING DETAIL

(NOT TO SCALE)

HEAVY DUTY COPPER COMPRESSION UNDING TERMINAL. (TYPICAL) ∠EXISTING HANDHOLE - GROUNDING CABLE (PAID FOR SEPARATELY) FRAME AND COVER

EXISTING HANDHOLE COVER & FRAME - GROUNDING DETAIL

(NOT TO SCALE)



CABINET BASE

PRESSURE

CONNECTOR, TYP.

DISCONNE

-15A,

NOTES:

-- PANEL BOARD

INDUSTRIAL CONTROL PANEL, AND CARRY THE U.L. LABEL.

2. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

-3/4" x 10' (20mm x 3;0m) COPPER CLAD GROUND ROD

(413 mm) 16.25"

(0.29 m) 11.50"

LANCHOR BOLT LOCATIONS

CABINET - BASE BOLT PATTERN

(2) 1/2" x 1 1/4" STAINLESS STEEL BOLT WITH SPLIT LOCK WASHER AND NYLON INSERT LOCKOUT WELDED TO _____ FRAME AND TO COVER. (TYPICAL)

MOUNTING PLATE

FABRICATION

TOP & BOTTOM AS PER-

CABINET, SHEET ALUMINUM

CONTINUOUS PIANO HINGE-

 \oplus

GALV. CONDUIT

SERVICE INSTALLATION

GROUND MOUNT