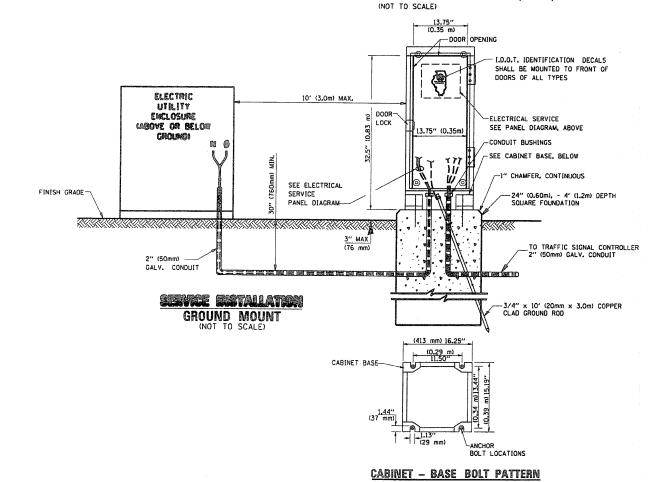
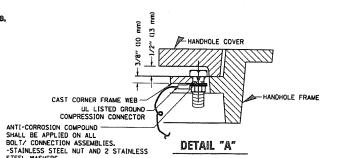
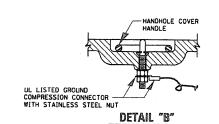


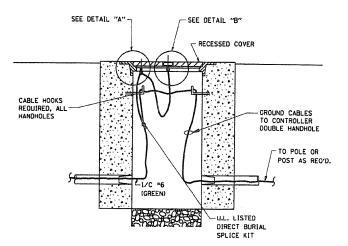
ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE) SERVICE INSTALLATION POLE MOUNT (SHOWN)



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HANDHOLE COVER & FRAME - GROUNDING DETAIL

(NOT TO SCALE)

(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) HEAVY DUTY COPPER COMPRESSION GROUNDING TERMINAL, (TYPICAL) EXISTING HANDHOLE FRAME AND COVER GROUNDING CABLE
(PAID FOR SEPARATELY)

EXISTING HANDHOLE COVER & FRAME - GROUNDING DETAIL

(NOT TO SCALE)

NOTES:

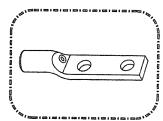
348 2005-007-TS COOK TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT CONTRACT NO. 62918

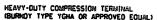
COUNTY

SECTION

CROUNDING SYSTEM

- 1. THE CROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE KLP. NO. 6 A.W.C., STRANGED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL CROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE CHANDROLE, POST, MAST ARM, CONTROLLER, ETC.L. GROUND ROD SHALL BE 3/4" DIA. × 10"-0" (20mm × 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 COMDITIONS SUCH AS SUB-SURFACE COMDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC. ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4159.
- 2. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL SE COMMECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUPS COMOUCTORS BE COMMECTED.
- 3. ALL EQUIPMENT GROUNDING CONDUCTORS SMALL TERMINATE AT THE CROLING BUS IN THE CONTROLLER CABINET.
- 4. THE CONTRACTOR SHALL PROVIDE A CROUND CARLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.

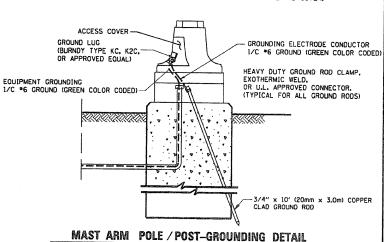






%" (20mm) HEAVY-GUTY GROUND ROD CLAMP (BURNOY TYPE GRC OR APPROVED EQUAL)

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



(NOT TO SCALE)

ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: VERT. NONE HORIZ. NONE DATE 1-01-02

CHECKED BY: DAD SHEET 3 OF 4