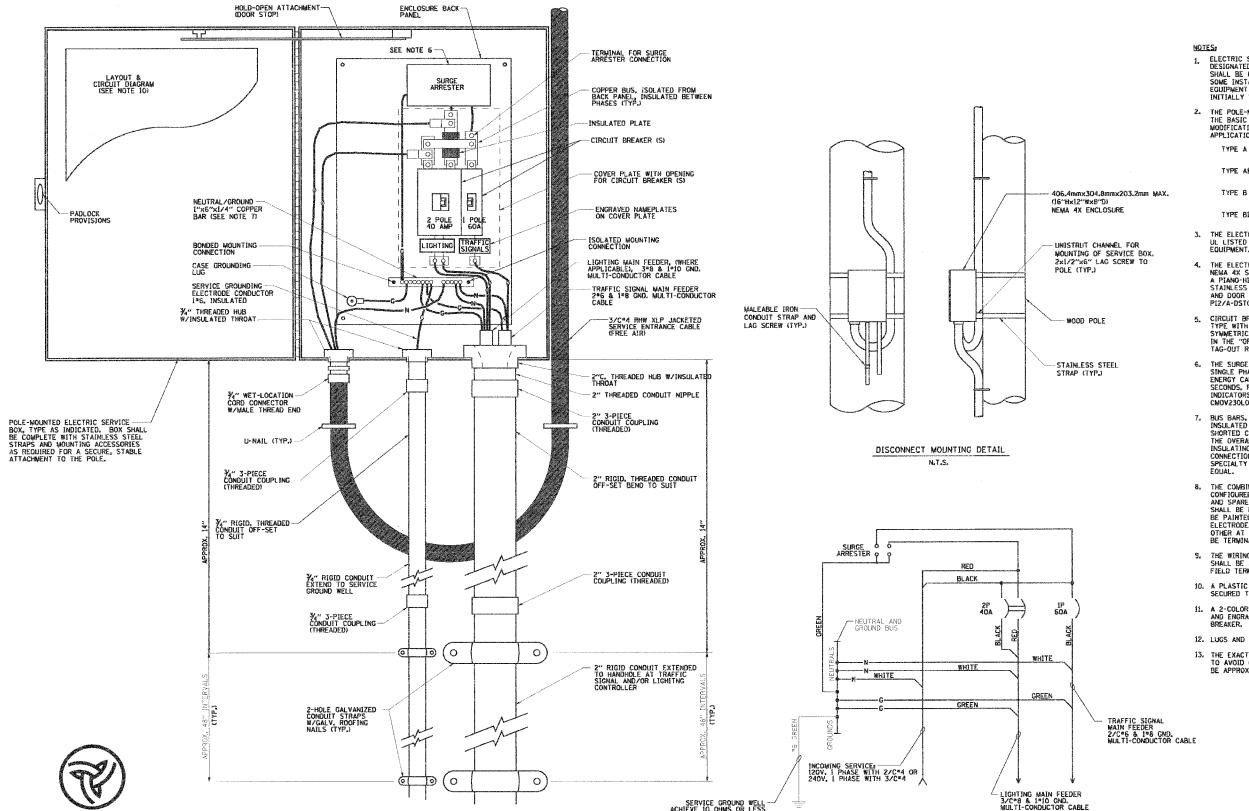
COUNTY TOTAL SECTION 3277R соок 66 STA TO STA. FED. AND PROJECT BL80% CONTRACT NO. 62206 1. ELECTRIC SERVICE SHALL BE OF THE VOLTAGE INDICATED OR DESIGNATED BY THE ENGINEER, AND SERVICE DROP CABLE SHALL BE COMPATIBLE WITH THE SERVICE ACCORDINGLY. SOME INSTALLATIONS MAY CALL FOR SERVICE ENTRANCE EQUIPMENT SUITABLE FOR 3-WHEE SERVICE EVEN THOUGH INITIALLY WIRED FOR 2-WIRE SERVICE. THE POLE-MOUNTED ELECTRIC SERVICE BOX DETAIL DEPICTS THE BASIC CONSTRUCTION OF THE EQUIPMENT. SLIGHT MODIFICATIONS APPLY FOR DIFFERING SERVICES AND APPLICATIONS AS FOLLOWS. TYPE A FULLY EQUIPPED FOR 240/120V. 3W SERVICE, COMPLETE WITH LIGHTING MAIN BREAKER TYPE AI FULLY EQUIPPED FOR 240/120V. 3W SERVICE, BLANK COVER IN LIEU OF LIGHTING MAIN BREAKER TYPE B EQUIPPED FOR 120V. SERVICE, COMPLETE WITH 1P, 60A. TRAFFIC SIGNALS MAIN BREAKER TYPE B1 EQUIPPED FOR 120V. SERVICE, COMPLETE WITH 1P, 40A. TRAFFIC SURVEILLANCE MAIN BREAKER THE ELECTRIC SERVICE EQUIPMENT ASSEMBLY SHALL BE UL LISTED AS SUITABLE FOR USE AS SERVICE ENTRANCE EQUIPMENT. 4. THE ELECTRIC SERVICE EQUIPMENT ENCLOSURE SHALL BE
NEMA 4X STAINLESS STEEL, NOMINALLY 12"% X 16"H X 8"D, WITH
A PIANO-HINGED DOOR, STEEL BACK PANEL, FAST-ACTING
STAINLESS STEEL ENCLOSURE CLAMPS, PADLOCK PROVISIONS
AND DOOR STOP, HOFFMAN CATALOG NO. A-16Hi208SS6LP/A-16
P12/A-DSTOPK/C-PMK12, OR APPROVED EQUAL. 5. CIRCUIT BREAKERS SHALL BE THERMAL MAGNETIC BOLT-ON TYPE WITH A MINIMUM INTERRUPTING CAPACITY OF 25,000 SYMMETRICAL AMPÈRES AT 240 VOLTS. THEY SHALL BE LOCKABLE IN THE "OFF" POSITION FOR COMPLIANCE WITH OSHA LOCK-OUT/ TAG-OUT REQUIREMENTS, MANDLES SHALL BE TRIP FREE. 6. THE SURGE PROTECTOR SHALL BE SUITABLE FOR 240/120 VOLT SINGLE PHASE 60HZ AC ELECTRICAL SERVICE, WITH A SURGE EMERGY CAPABILITY OF 2160 JOULES ON BETTER AT 87.20 MICROSCOODS, RATED -40 TO 60 DEGREES C., WITH LED OPERATING INDICATORS, AND SHALL BE UL LISTED PER UL 1449, CUTLER-HAMMER CAMAZAGO CENTET OR APPROVED FORMS. CMOV230L065XST OR APPROVED EQUAL. 7. BUS BARS, CONNECTORS, AND LUGS SHALL BE COPPER, INSULATED AND ISOLATED, AND CONFIGURED TO PREVENT SHORTED CONDITIONS FROM TIGHTENING TERMINATIONS, ETC. THE OVERALL BUS SECTION SHALL BE CONFIGURED BEHIND AN INSULATING BARRIER SHIELD WHICH IS REMOVABLE FOR ACCESS TO INDUATIONS, OR THE ASSEMBLY SHALL BE A MANUFACTURED SPECIALTY PANELBOARD, CUTLER-HAMMER PRIZA OR APPROVED EQUAL. 8. THE COMBINATION GROUND AND NEUTRAL BAR SHALL BE CONFIGURED WITH SEPARATE GROUND AND NEUTRAL SECTIONS AND SPARE TERMINALS AS INDICATED. THE MEADS OF GROUND SCREWS SHALL BE PAINTED GREEN. THE MEADS OF NEUTRAL SCREWS SHALL BE PAINTED WHITE. THE SERVICE NEUTRAL AND SERVICE GROUNDING ELECTRODE CONDUCTOR SHALL BE TERMINATED ADJACENT TO EACH OTHER AT THE DIVIDE BETWEEN THE SECTIONS AND WIRING SHALL BE TERMINATED ONLY UPON THE APPROPRIATE SECTION. 9. THE WIRING TERMINALS, INCLUDING THE GROUND/NEUTRAL BAR SHALL BE ARRANGED TO PROVIDE ADEQUATE ROOM FOR PERFORMING A PLASTIC LAMINATED LAYOUT AND CIRCUIT DIAGRAM SHALL BE MECHANICALLY SECURED TO THE INTERIOR SIDE OF THE ENCLOSURE DOOR. A 2-COLOR ENGRAVED PLASTIC NAMEPLATE, ATTACHED WITH SCREWS, AND ENGRAVED AS INDICATED, SHALL BE PROVIDED FOR EACH MAIN DEPARTS. 12. LUGS AND CONNECTORS SHALL BE RATED FOR 75°C CONDUCTOR. 13. THE EXACT MOUNTING HEIGHT OF THE BOX SHALL BE FIELD DETERMINED TO AVOID OBSTRUCTIONS AND PUBLIC ACCESS. TYPICAL HEIGHT SHALL BE APPROXIMATELY 10 FEET ABOVE GRADE. BE-230 ILLINOIS DEPARTMENT OF TRANSPORTATION

REVISIONS

R. TOMSONS



POLE-MOUNTED ELECTRIC SERVICE ENTRANCE

GENERAL LAYOUT DIAGRAM

6" DECAL ON FRONT COVER

DATE-TIME *DGN-SPEC* VI-BE230

SERVICE GROUND WELL ACHIEVE 10 OHMS OR LESS

SCHEMATIC DIAGRAM

REVISION DATE: 8/13/04

BE-230

DRAWN BY

CHECKED BY

COMBINATION LIGHTING & TRAFFIC

POLE MOUNTED ELECTRIC SERVICE BOX DETAIL

SCALE: NOME

DATE 03/27/06