

- L. 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 ECUIPMENT SUITABLE FOR 3-WIRE 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 APPLICATIONS APPLICATIONS AS FOLLOWS:
 - TYPE A FULLY EQUIPPED FOR 240/120V. 3W SERVICE, COMPLETE WITH LIGHTING MAIN BREAKER
 - TYPE AL 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 BI 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"W X 16"H X 8"D, WITH A PIANO-HINGED DOOR, STEEL BACK PAMEL, FAST-ACTING STAINLESS STEEL ENCLOSURE CLAMPS, PADLOCK PROVISIONS AND DOOR STOP, HOFFMAN CATALOG NO. A-16H1208SS6LP/A-16 P12/A-DSTOPA/C-PMKIZ, OR APROVED EQUAL.
- 5. CIRCUIT BREAKERS SHALL BE THERMAL MAGNETIC BOLT-ON TYPE WITH A MINIMUM INTERRUPTING CAPACITY OF 25,000 SYMMETRICAL AMPERES AT 240 VOLTS. THEY SHALL BE LOCKABLE IN THE "OFF" POSITION FOR COMPLIANCE WITH OSHA LOCK-OUT/TAG-OUT REQUIREMENTS. HANDLES SHALL BE TRIP FREE.
- 6. THE SURGE PROTECTOR SHALL BE SUITABLE FOR 240/120 VOLT SINGLE PHASE GONZ AC ELECTRICAL SERVICE, WITH A SURGE ENROY CAPABILITY OF 2160 JOULES OR BETTER AT 8/20 MICROSECONDS, RATED -40 TO 60 DEGREES C., WITH LED OPERATING INDICATORS, AND SHALL BE UL LISTED PER UL 144S, CUTLER-HAWMER CMOV230LUGESXST OR APPROVED EQUAL.
- 7. BUS BARS, CONNECTORS, AND LUGS SHALL BE COPPER, INSULATED AND ISQLATED, AND CONFIGURED TO PREVENT SHORTED CONDITIONS FROM TIGHTENING TERMINATIONS, ETC. THE OVERALL BUS SECTION SHALL BE CONFIGURED BEHIND AN INSULATION BARRIER SHIELD WHICH IS REMOVABLE FOR ACCESS TO CONNECTIONS, OR THE ASSEMBLY SHALL BE A MANUFACTURED SPECIALTY PANELBOARD, CUTLER-HAMMER PRIZA OR APPROVED EQUAL.
- B. THE COMBINATION GROUND AND NEUTRAL BAR SHALL BE
 COMFIGURED WITH SEPARATE GROUND AND NEUTRAL BECTIONS
 AND SPARE TERMINALS AS INDICATED. THE HEADS OF GROUND SCREWS
 SHALL BE PAINTED GREEN. THE HEADS OF NEUTRAL SCREWS SHALL
 BE PAINTED WHITE: THE SERVICE NEUTRAL AND SERVICE GROUNDING
 ELECTRODE COMDUCTOR SHALL BE TERMINATED ADJACENT TO EACH
 OTHER AT THE DIVIDE BETWEEN THE SECTIONS AND WIRING SHALL
 BE TERMINATED ONLY UPON THE APPROPRIATE SECTION.
- THE WIRING TERMINALS, INCLUDING THE GROUND/NEUTRAL BAR SHALL BE ARRANGED TO PROVIDE ADEQUATE ROOM FOR PERFORMING FIELD TERMINATIONS.
- 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 BREAKER.
- 12. LUGS AND CONNECTORS SHALL BE RATED FOR 75°C CONDUCTOR.
- 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.

FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED - R. TOMSONS 08-13-04		COMBINATION LIGHTING & TRAFFIC POLE	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
W:\diststd\22x34\bs238.dg	be238.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MOUNTED ELECTRIC SERVICE BOX DETAIL	0298 0396	09-00028-00-CH	WILL	63 53
	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED -				BE-230		T NO.63562
1	DLOX DATE - 1/4/2000	DATE -	REVISED -		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD	DIST. NO. 1 ILLINOIS FE	ED. AID PROJECT	M-9003(385)