

A: GROUND-MOUNTED TRANSFORMER OR UTILITY VAULTS

- FOR UTILITY VAULTS:
 - COORDINATE WITH UTILITY PROVIDER TO CORE DRILL INTO VAULT AND WATERPROOF AS REQUIRED BY UTILITY PROVIDER
 - COORDINATE WITH UTILITY PROVIDER TO DETERMINE LENGTH OF CONDUCTORS NECESSARY WITHIN VAULT.
 - SUPPLY UTILITY PROVIDER WITH FUSED, STAINLESS STEEL UTILITY DISCONNECT SWITCH SQUARE D H364SS.
 - LOAD WITH THREE (ONE IS A SPARE) 200 AMP, DUAL ELEMENT, TIME DELAY, CURRENT LIMITING, 200 KA INTERRUPT RATING FUSES BUSSMAN FUSETRON FRS-R-200.
 - COORDINATE WITH UTILITY PROVIDER TO ENSURE THERE IS ADEQUATE SPACE IN THE VAULT FOR THE UTILITY DISCONNECT SWITCH.

B: 2" PVC CONDUIT

- INSTALL #3/0 AWG BLACK, #3/0 AWG RED, AND #3/0 AWG WHITE.
- COPPER CONDUCTORS, XHHW-2 INSULATION.

C: POLYMER-CONCRETE PULLBOX TIER 22 13" x 24" x 12" , QUAZITE PG1324BA12 OR APPROVED EQUIVALENT

- INSTALL 3 FEET AWAY FROM CABINET BASE WHERE PRACTICABLE.
- WHERE NEEDED, INSTALL 3 FEET AWAY FROM TRANSFORMER OR VAULT WHERE PRACTICABLE.

D: TWO 5/8" DIAMETER x 10-FOOT-LONG GROUND RODS

- INSTALL ENTIRELY BELOW GRADE (AT LEAST 4").
- GROUND RODS MUST BE SPACED AT LEAST 6 FEET APART.
- SECOND GROUND ROD MAY BE OMITTED IF RESISTANCE TO GROUND MEASURES LESS THAN 25 OHMS WITH ONE GROUND ROD.

E: POLYMER-CONCRETE CABINET BASE 24" x 36" x 18", QUAZITE PB24361117500

SET CABINET BASE 4-6" ABOVE GRADE.

F: SERVICE DISCONNECT, SQUARE D Q2200RBE

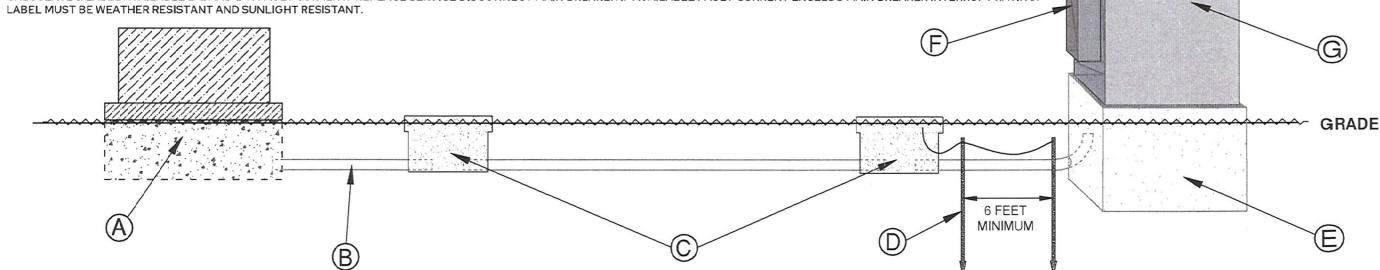
- MOUNT ON SIDE OF DUAL-METER CABINET WITH CONDUIT ENTRY INTO SERVICE WIREWAY.
- MOUNT 12" MINIMUM ABOVE CABINET BASE.
- INSTALL 2.5" CHASE NIPPLE INTO DUAL METER CABINET WITH PLASTIC BUSHING.
- MOUNT WITH THREE 18-8 STAINLESS STEEL 1/4"-20 x 3/4" HEX-SLOTTED WASHER HEAD MACHINE SCREW FASTENAL #0173149 OR APPROVED EQUIVALENT, THREE 18-8 STAINLESS 1/4"-20 NYLON LOCK NUT FASTENAL #70860 OR APPROVED EQUIVALENT, AND THREE 18-8 STAINLESS STEEL FLAT WASHER FASTENAL #71013 OR APPROVED EQUIVALENT.
- INSTALL MAIN CIRCUIT BREAKER:
 - SQUARE D QDL22200 (FOR 25 KA INTERRUPT RATING).
 - 200 AMP, 2-POLE.
 - 25 KA INTERRUPT RATING MINIMUM.
 - INSTALL SERVICE BARRIER PKSB1Q2 OVER LINE SIDE LUGS.
- TERMINATE GROUNDINGS ELECTRODE CONDUCTOR TO NEUTRAL TERMINAL BLOCK.
- TERMINATE LOAD-SIDE EQUIPMENT GROUNDING CONDUCTOR TO NEUTRAL TERMINAL BLOCK.
- BOND NEUTRAL TERMINAL BLOCK TO ENCLOSURE.

G: GROUND MOUNTED DUAL METER CABINET, POVOLNY POVS040831STP

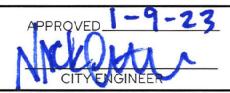
- REMOVE BOTH NEUTRAL BOND SCREWS FROM BOTH PANELBOARDS.
- REMOVE NEUTRAL BOND STRAPS FROM BOTH METER ENCLOSURES.
- MOUNT WITH FOUR 1/2" 13 x 1-3/4" BRASS HEX CAP SCREW FASTENAL #75040 OR APPROVED EQUIVALENT AND FOUR 1/2" x 2" 18-8 STAINLESS STEEL FENDER WASHERS FASTENAL #71221 OR APPROVED EQUIVALENT. LIBERALLY APPLY MARINE GRADE ANTI-SEIZE LOCTITE 8023 OR APPROVED EQUIVALENT TO ALL BOLT THREADS.

H: LABEL OF ADDRESS/ASSET ID/AVAILABLE FAULT CURRENT

- CONTACT TRAFFIC OPERATIONS @ 651.266.9780 FOR ADDRESS/ASSET INFO.
- CALCULATE & LABEL AVAILABLE L-L AND L-N FAULT CURRENT. REPLACE SERVICE DISCONNECT MAIN BREAKER IF AVAILABLE FAULT CURRENT EXCEEDS MAIN BREAKER INTERRUPT RATING.







CITY OF ST. PAUL DEPARTMENT OF PUBLIC WORKS DUAL METER CABINET FED FROM GROUND-MOUNTED TRANSFORMER OR UTILITY VAULT

Date of Revision DEC

2022

Standard Plate No.

I hereby certify that this plan, specification

or report was prepared by me or under my

direct supervision and that I am a duly

Licensed Professional Engineer under

the laws of the State of Minnesota

Date 01/09/2023 Lic. No. 49104

5011A Sheet 2 of 2