



- A: 1.5" PVC WEATHERHEAD
 - INSTALL 12-24" BELOW THE POWERLINES BEING CONNECTED TO.
 - PROVIDE ENOUGH CONDUCTOR LENGTH FOR DRIP LOOP.
- B: 2-HOLE STRAP, MINERALLAC 280 OR APPROVED EQUIVALENT
 - INSTALL TOP STRAP 3-5" BELOW WEATHERHEAD.
 - DO NOT STRAP WITHIN 5" OF COUPLINGS/BELL ENDS.
 - STRAP EVERY 4 FEET MAXIMUM.
 - MOUNT EACH STRAP WITH TWO 1/4"-10 x 3" 18-8 STAINLESS STEEL LAG SCREWS FASTENAL #74507 OR APPROVED EQUIVALENT.
 - DO NOT OVERTIGHTEN STRAPS. SECURE CONDUIT BUT LEAVE STRAPS LOOSE ENOUGH TO ALLOW FOR EXPANSION/CONTRACTION UP TO 5/8" PER 10'.
- C: 1.5" SCHEDULE 80 PVC RISER CONDUIT
 - INSTALL #3 AWG BLACK, #3 AWG RED, AND #3 AWG WHITE.
 - COPPER CONDUCTORS, XHHW-2 SUNLIGHT RESISTANT INSULATION.
- D: 1.5" HUB, MILBANK A7516 OR APPROVED EQUIVALENT
- E: METER ENCLOSURE, TALON 40025-02
 - POSITION ON SIDE OF POLE MOST PROTECTED FROM VEHICULAR DAMAGE.
 - CENTER OF METER FACE MUST BE 4-6' ABOVE GRADE.
 - MOUNT WITH TWO 1/4"-10 x 3" 18-8 STAINLESS STEEL LAG SCREWS FASTENAL #74507 OR APPROVED EQUIVALENT AND TWO 1/4" x 1.5" 18-8 STAINLESS STEEL FENDER WASHER FASTENAL #0172787 OR APPROVED EQUIVALENT.
 - REMOVE BONDING JUMPER BETWEEN NEUTRAL TERMINAL AND ENCLOSURE.
 - INSTALL #6 AWG SOLID COPPER BOND BETWEEN ENCLOSURE AND LOADCENTER EQUIPMENT GROUND BAR.
- F: 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 MAIN BREAKER IF AVAILABLE FAULT CURRENT EXCEEDS MAIN BREAKER INTERRUPT RATING.
 - LABEL MUST BE WEATHER RESISTANT AND SUNLIGHT RESISTANT.
- G: 1.25" OFFSET NIPPLE WITH PLASTIC BUSHING
- H: 1.25" HUB, SQUARE D B125
- I: LOADCENTER, SQUARE D Q0612L100RB
 - MOUNT WITH TWO 1/4"-10 x 3" 18-8 STAINLESS STEEL LAG SCREWS FASTENAL #74507 OR APPROVED EQUIVALENT AND TWO 1/4" x 1.5" 18-8 STAINLESS STEEL FENDER WASHER FASTENAL #0172787 OR APPROVED EQUIVALENT.
 - INSTALL BACK-FED MAIN CIRCUIT BREAKER:
 - SQUARE DQ02100VH (FOR 25 KA INTERRUPT RATING).
 - 100 AMP, 2-POLE.
 - 25 KA INTERRUPT RATING MINIMUM.
 - INSTALL SERVICE BARRIER PKSB1Q0BF OVER LINE SIDE LUGS.
 - BOUND NEUTRAL TERMINAL BAR TO ENCLOSURE.
 - TERMINATE GROUNDING ELECTRODE CONDUCTOR TO NEUTRAL BAR.
 - INSTALL PADLOCK PROVIDED BY TRAFFIC OPERATIONS 651.266.9780.
- J: 1.5" SCHEDULE 80 PVC CONDUIT
- K: POLYMER-CONCRETE PULLBOX TIER 22 13" x 24" x 12", QUAZITE PG1324BA12 OR APPROVED EQUIVALENT
 - INSTALL 3 FEET AWAY FROM UTILITY POLE WHERE PRACTICABLE.
- L: 0.5" SCHEDULE 80 PVC CONDUIT
 - INSTALL #6 AWG SOLID COPPER GROUNDING ELECTRODE CONDUCTOR.
- M: 2-HOLE STRAP, MINERALLAC 240 OR APPROVED EQUIVALENT
- N: 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.

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

B. Hawkins
 BENJAMIN HAWKINS

Date 01/09/2023 Lic. No. 49104

APPROVED 1-9-23
Nickletta
 CITY ENGINEER

CITY OF ST. PAUL
 DEPARTMENT OF PUBLIC WORKS
 POLE MOUNTED SIGNAL SERVICE

Date of Revision	Standard Plate No.
DEC 2022	5028