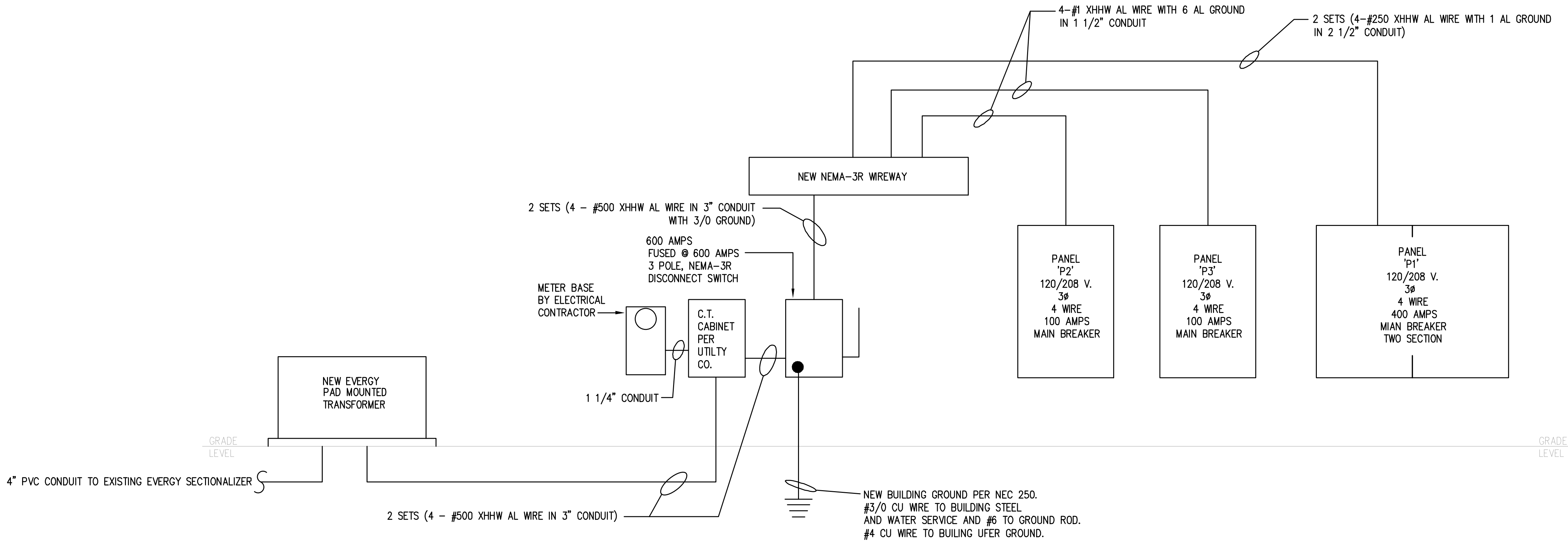


POWER KEY NOTES

- CONCRETE ENCASED (UFER) GROUNDING ELECTRODES SHALL CONSIST OF AT LEAST 20 FEET OF ONE OR MORE STEEL REINFORCING BARS OR RODS OF NOT LESS THAN 1/2 INCH DIAMETER, OR CONSISTING OF AT LEAST 20 FEET OF BARE COPPER CONDUCTORS NOT SMALLER THAN #2/0 AWG, ENCASED BY AT LEAST 2 INCHES OF CONCRETE, LOCATED WITHIN AND NEAR THE BOTTOM OF A CONCRETE FOUNDATION OR FOOTING THAT IS IN DIRECT CONTACT WITH THE EARTH.
- CONNECT GROUNDING WIRE DIRECTLY TO GROUND ROD. MINIMIZE CONDUCTOR RIGHT ANGLE BENDS. MAXIMUM LENGTH OF CONDUCTOR SHALL BE 10 FEET.
- GROUND RODS (IF NEEDED) SHALL BE 3/4" DIA. X 10' LONG COPPERWELD. RESISTANCE TO GROUND MUST BE 25 OHMS OR LESS.
- GROUNDING ELECTRODE CONNECTIONS SHALL BE MADE WITH A UL LISTED AND APPROVED BOLTED PRESSURE OR COMPRESSION TYPE CONNECTOR.

GENERAL NOTES:

- ALL SERVICE EQUIPMENT, INCLUDING METER & CURRENT TRANSFORMER CABINET, TERMINATION BOXES, DISCONNECT SWITCHES, AND MAIN CIRCUIT BREAKERS SHALL BE RATED FOR THE MAXIMUM AVAILABLE SHORT CIRCUIT CURRENT AS DETERMINED BY THE SERVING UTILITY CO.
- #2/0 GROUNDING ELECTRODE CONDUCTOR TO BUILDING STEEL FRAME, COLD WATER AND GAS PIPE, INTERIOR METAL PIPING, AND CONCRETE ENCASED ELECTRODE (UFER GROUND).
- ALL CONDUCTORS SHALL BE COPPER TYPE THHN/THWN OR XHHW.
- ALL POWER WIRING INDICATED IS TO BE PROVIDED BY THE CONTRACTOR.



NOTES:

- COORDINATE TAP AND TERMINATION RATINGS WITH AMPACITY OF CONDUCTORS
- PANELS P1, P2, P3 REFER TO PANELS P, S, AND G ON PANEL SCHEDULES
- COMPLY WITH TAP RULE OR PROVIDE ADDITIONAL DISCONNECTS
- ALL WIRING IS TO BE IN ACCORDANCE WITH CURRENT APPLICABLE NEC
- COORDINATE ALL SERVICE WITH UTILITY CO AND PAY ALL FEES
- VERIFY ALL WORK WITH LOCAL CODE AUTHORITIES

RISER SCHEMATIC

1-23-25 FIELD REVISIONS
7-18-24 FIELD REVISIONS
6-23-23 CODE RESPONSES
5-15-23 CODE RESPONSES
9-1-22 REVIEW SET

SERVICE STATION AND
CONVENIENCE STORE

LEE SUMMIT, MO

John C. Zekind, PE
CONSULTING ENGINEERS
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Project Number: 9-1-22
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