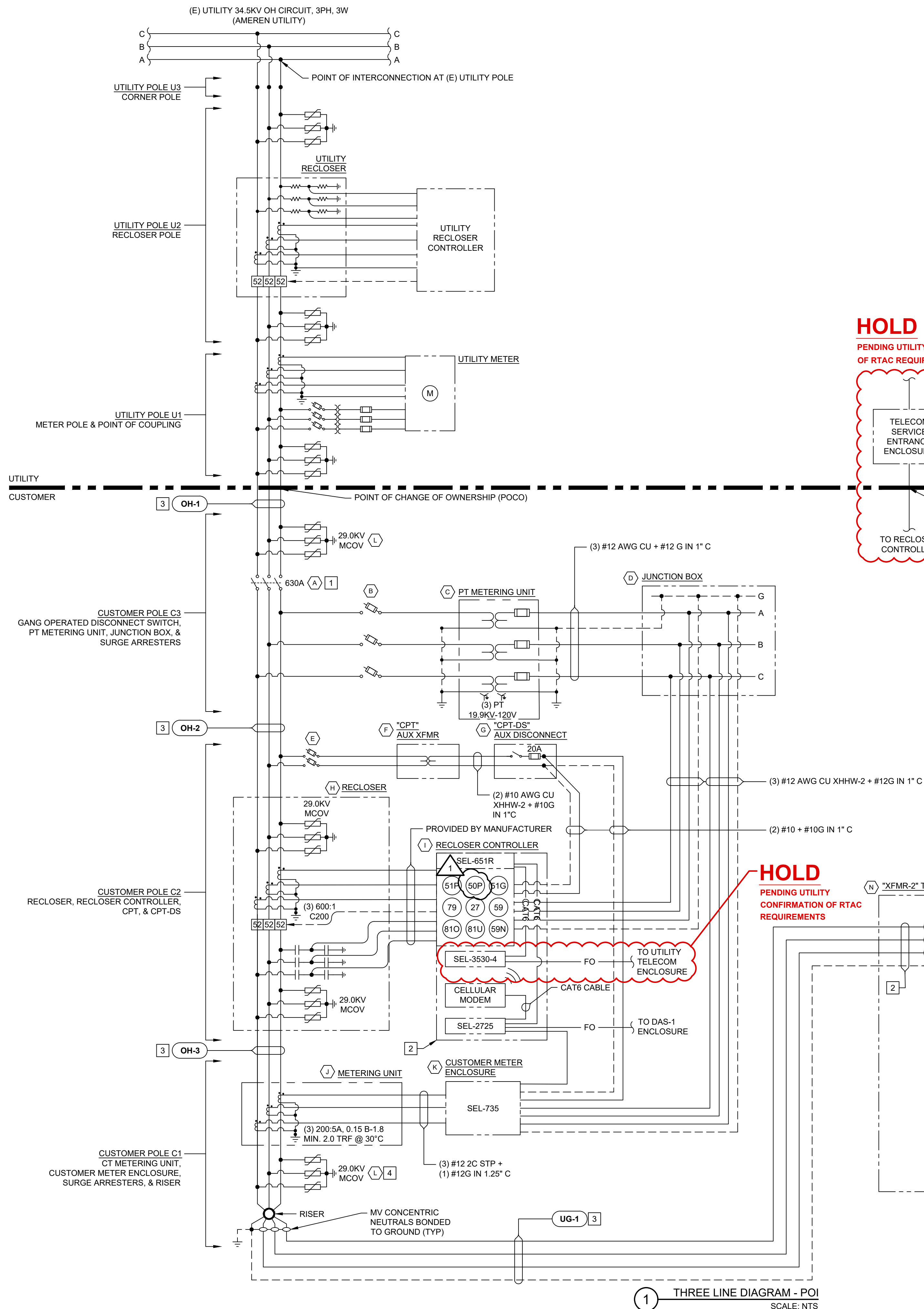
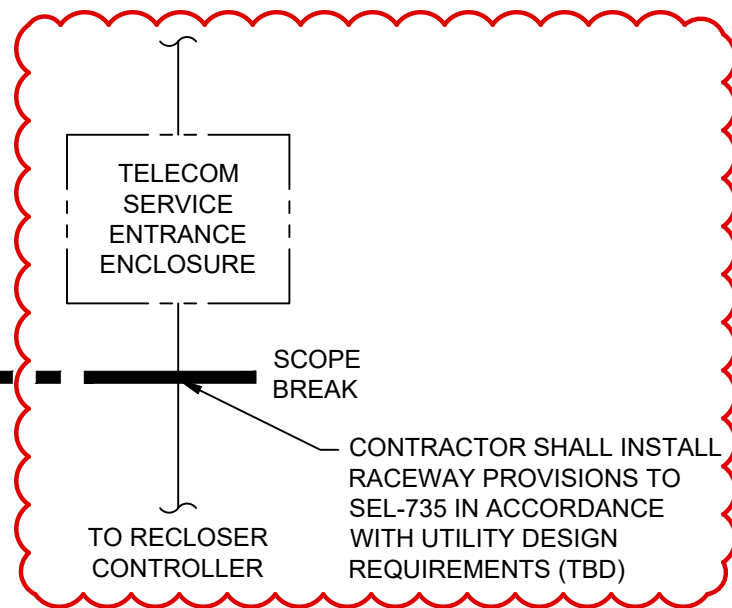


THIS EDGE INTENTIONALLY LEFT BLANK FOR BINDING - PAPER SIZE 34" X 22" - THIS EDGE INTENTIONALLY LEFT BLANK FOR BINDING - PAPER SIZE 34" X 22" - THIS EDGE INTENTIONALLY LEFT BLANK FOR BINDING - PAPER SIZE 34" X 22" - THIS EDGE INTENTIONALLY LEFT BLANK FOR BINDING - PAPER SIZE 34" X 22"



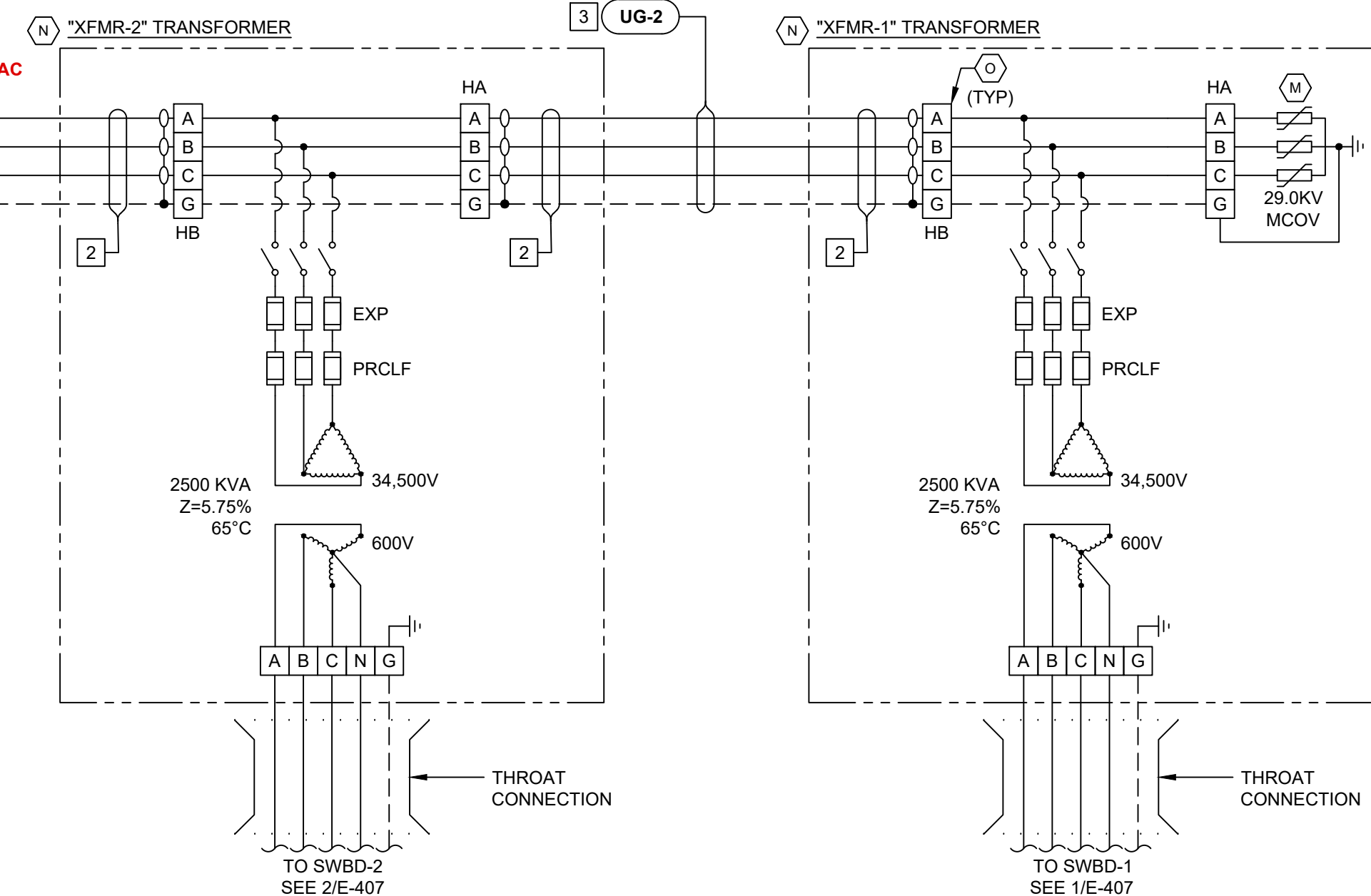
HOLD

PENDING UTILITY CONFIRMATION OF RTAC REQUIREMENTS



-HOLD

PENDING UTILITY CONFIRMATION OF RTAC REQUIREMENTS



SHEET NOTES:

1. UTILITY INTERCONNECTION INFORMATION:
 - SOLAR AC CURRENT: 4.812A @ 600V
 - SOLAR AC CURRENT: 83.89A @ 34.5KV
 - UTILITY EXISTING FAULT CURRENT AT 34.500V:
 - 3ø: 1975.5A
 - 1ø: 2305.9A
2. GROUND MEDIUM VOLTAGE UNDERGROUND CONDUCTOR SHIELDS ON BOTH ENDS.
3. UTILITY EQUIPMENT SHOWN FOR REFERENCE ONLY. FINAL DESIGN OF UTILITY EQUIPMENT SHALL BE BY UTILITY. NOT ALL UTILITY EQUIPMENT MAY BE SHOWN.
4. DESIGN ASSUMES EXISTING UTILITY CIRCUIT IS A SINGLE POINT GROUNDING-WYE CONFIGURATION. CUSTOMER EQUIPMENT RATINGS AND DESIGN ARE ONLY SUITABLE FOR THIS CONFIGURATION.
5. ALL SWITCHBOARDS, PANELBOARDS AND TRANSFORMERS SHALL BE NEMA 3R RATED.
6. LOW VOLTAGE AC WIRING SHALL BE COPPER AND XHHW-2 UNLESS OTHERWISE NOTED.

KEYED NOTES:

- 1 PER UTILITY INTERCONNECTION GUIDELINES, PROVIDE MANUAL DISCONNECT DEVICE WITH VISIBLE DISCONNECT TO ISOLATE GENERATING FACILITY FROM UTILITY DISTRIBUTION SYSTEM. THE DEVICE MUST BE ACCESSIBLE TO UTILITY PERSONNEL AND BE CAPABLE OF BEING LOCKED IN THE OPEN POSITION.
- 2 SUBCONTRACTOR SHALL PROVIDE ADDITIONAL SLACK (4FT) OF MV CABLES ON ALL THREE PHASES AT THE TRANSFORMER TERMINATIONS.
- 3 SEE MV CABLE SCHEDULE ON SHEET E-502.
- 4 ARRESTERS SHALL HAVE ZERO LEAD LENGTH.

EQUIPMENT SPECS:

- (A) 630A, 38KV, 25KA, 200KV BIL GANG-OPERATED DISCONNECT SWITCH, HORIZONTAL MOUNTING, FIBERGLASS CONTROL ROD, S&C 147434A4-A2-P1, OAE.
- (B) (3) 100A, 36KV, 12KA, 170KV BIL CUTOUT SWITCH HUBBELL CP710613, OAE. 0.4A FUSE LINKS SHALL BE REMOVABLE BUTTONHEAD, HUBBELL TYPE M0D45FA23, OAE.
- (C) (3) 34.5KV, 200KV BIL, VOLTAGE TRANSFORMERS METERING UNIT, ARTECH TYPE URS-36, OAE WITH RATINGS AS SHOWN. VOLTAGE TRANSFORMER SECONDARIES SHALL BE FUSED. PRIMARY METERING MOUNT, ALUMA-FORM PMM-6.
- (D) NEMA 3R JUNCTION BOX WITH TERMINAL BLOCK.
- (E) (2) 100A, 36KV, 12KA, 170KV BIL CUTOUT SWITCH, HUBBELL CP710613, OAE. 0.4A FUSE LINKS SHALL BE REMOVABLE BUTTONHEAD, HUBBELL TYPE M0D45FA23, OAE.
- (F) 2.0KVX, 1Ø, 34.5KV-120V AUXILIARY TRANSFORMER PROVIDED BY RECLOSER MANUFACTURER AND MOUNTED TO RECLOSER.
- (G) 30A, 120V, 1P FUSIBLE DISCONNECT SWITCH IN NEMA 3R ENCLOSURE, EATON TYPE DH111NRK, OAE. FUSE SIZE AS SHOWN, CLASS RK5.
- (H) 1250A, 38KV, 16KA, 170KV BIL, TAVRIDA QSMO3 SMART 5 OAE. POLE MOUNT RECLOSER WITH ONE TRANSFORMER, 4-HOLE NEMA PADS AND WILDFIRE COVERS, WITH UPS BATTERY BACKUP, POLE MOUNT FRAME, LOAD SIDE VOLTAGE SENSORS, SOURCE AND LOAD SIDE SURGE ARRESTERS.
- (I) SEL-651R RECLOSER CONTROL, POLE MTD, 120ACV SUPPLY, 16AH BATTERY, DUAL REDUNDANT 10/100BASE-T METALLIC ETHERNET PORTS, 40FT CONTROL CABLE.
- (J) (3) 34.5 KV, 200KV BIL, CURRENT TRANSFORMERS METERING UNIT, ARTECH TYPE CRF-36, OAE WITH RATINGS AS SHOWN. PRIMARY METERING MOUNT, ALUMA-FORM PMM-6.
- (K) SEL-735 REVENUE METER WITH TEST SWITCH PROVISIONS, BACKUP UPS, AND 10/100BASE-T PORTS IN NEMA 3R ENCLOSURE.
- (L) POLE-MOUNTED ARRESTER, HEAVY DUTY (HD) RISER CLASS, 29KV MCOV, 20KA, HUBBELL MODEL PVR OPTIMA CAT#221629, OAE.
- (M) ELBOW ARRESTER, 200A, 35 kV CLASS, 29KV MCOV COOPER POWER MODEL M.O.V.E CAT#23202C36M, PROVIDE LOAD REDUCING TAP PLUG FOR ELBOW ARRESTER ON DEADBREAK CONNECTOR.
- (N) PAD MOUNTED STEP-UP TRANSFORMER WITH VOLTAGE AND POWER RATING AS INDICATED. TRANSFORMER SHALL BE LOOP FEED TYPE WITH 600A DEAD BREAK TERMINATIONS. EXTERNAL VISIBLE DISCONNECT REQUIRED.
- (O) 600A, 35KV, MIN 25KA AT 10 CYCLES, 10KA AT 3 SEC, 150KV BIL, DEAD-BREAK CONNECTOR COOPER MODEL BOL-T CAT#BT635*****.

DESIGN COORDINATOR



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REVISIONS

#	DESCRIPTION	DATE
0	IFC	02/06/2026
1	IFC R1	02/27/2026

ISSUED FOR CONSTRUCTION
FEBRUARY 27, 2026

138883 CEMETERY
SUN, LLC
FREDERICK, IL, 62639



SHEET TITLE

THREE LINE DIAGRAM - MV

SHEET NO.

E-406