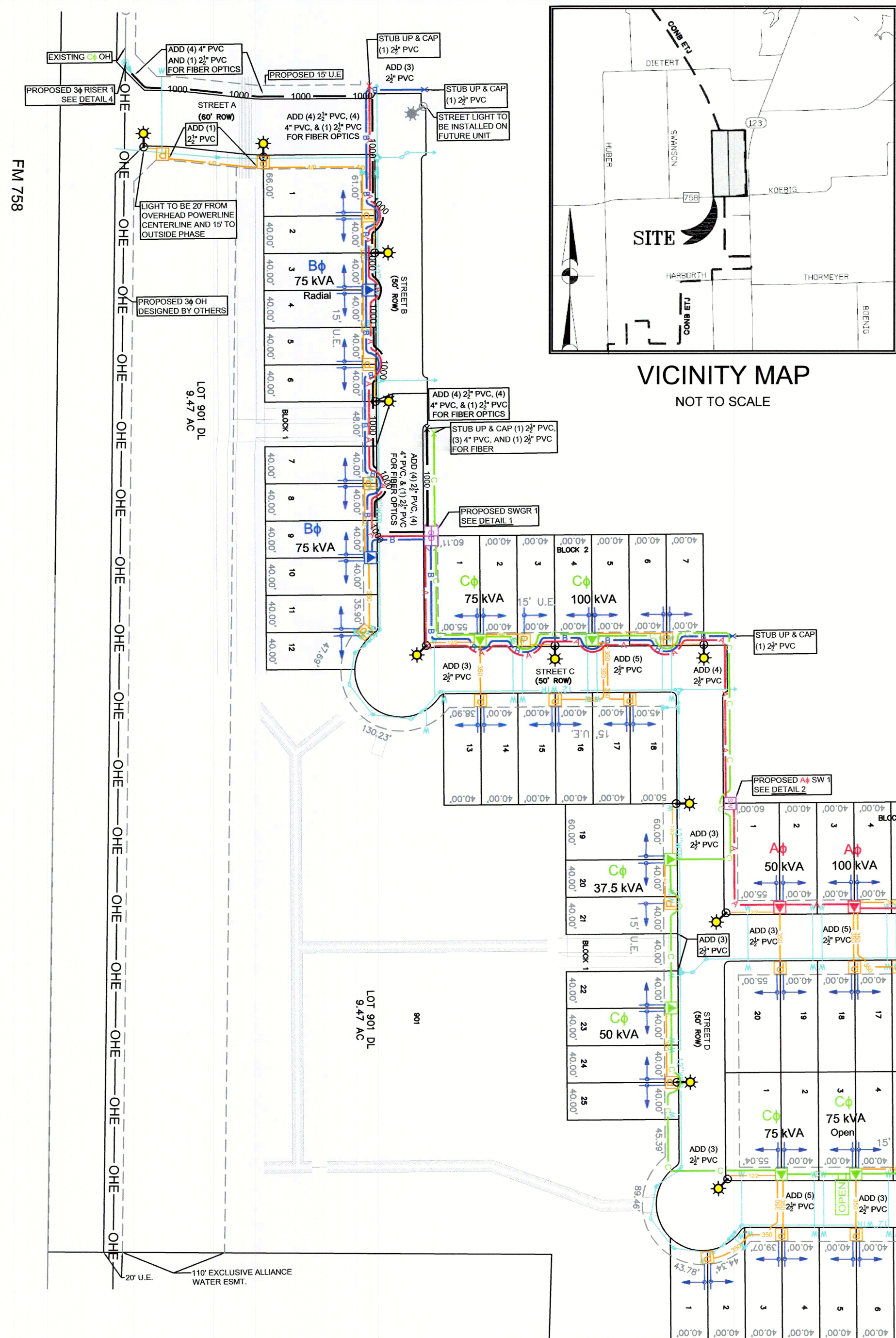
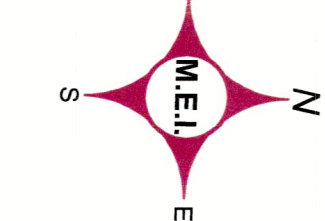




WO# 1833641
113 LOTS
22 LIGHTS

Upline Device
YC301
14.4/24.9 kV



VICINITY MAP
NOT TO SCALE

DETAIL 2: PROPOSED SW 1
PROPOSED A4 SWITCH CABINET

DETAIL 3: PROPOSED SW 2
PROPOSED 34 SWITCH CABINET 600 AMP

DETAIL 5: PROPOSED RISER 2
ON PROPOSED RISER POLE, INSTALL:

- ONE (1) A4 RISER AND ONE (1) 600 AMP DISCONNECT BLADE SWITCH
- ONE (1) B4 RISER AND ONE (1) 600 AMP DISCONNECT BLADE SWITCH
- ONE (1) C4 RISER AND ONE (1) 600 AMP DISCONNECT BLADE SWITCH

DETAIL 6: PROPOSED RISER 3
ON PROPOSED RISER POLE, INSTALL:

- ONE (1) A4 RISER AND ONE (1) 600 AMP DISCONNECT BLADE SWITCH
- ONE (1) B4 RISER AND ONE (1) 600 AMP DISCONNECT BLADE SWITCH
- ONE (1) C4 RISER AND ONE (1) 600 AMP DISCONNECT BLADE SWITCH

LEGEND:

- PROPOSED POLE
- PROPOSED POLE WITH RISER(S)
- EXISTING POLE
- STREET LIGHT
- SINGLE PHASE PAD MOUNT TRANSFORMER
- THREE PHASE PAD MOUNT TRANSFORMER
- SINGLE PHASE POLE MOUNT TRANSFORMER (NOT INCLUDED IN PROJECT SCOPE)
- SECONDARY PEDESTAL
- OPEN POINT
- SWITCH
- SWITCHGEAR
- PULL BOX
- WATER METERS
- A-PHASE PRIMARY UNDERGROUND - 1/0 AL 25KV IN (1) 2" PVC CONDUIT
- B-PHASE PRIMARY UNDERGROUND - 1/0 AL 25KV IN (1) 2" PVC CONDUIT
- C-PHASE PRIMARY UNDERGROUND - 1/0 AL 25KV IN (1) 2" PVC CONDUIT
- 1000 PRIMARY UNDERGROUND - 3-PHASE 1000 MCM AL 25KV IN (3) 4" PVC CONDUIT WITH (1) 2" PVC CONDUIT FOR FIBER
- 350 SECONDARY UNDERGROUND - 350 TPLX IN (1) 2" PVC CONDUIT WITH (1) 2" SPARE CONDUIT
- 4/0 SECONDARY UNDERGROUND - 4/0 TPLX IN (1) 2" PVC CONDUIT
- #2 SECONDARY UNDERGROUND - #2 TPLX IN (1) 2" PVC CONDUIT
- 12/2 SECONDARY STREETLIGHT CIRCUIT - 12/2 W/GND IN (1) 1" PVC CONDUIT
- FUTURE SERVICE STUB-OUT (CONDUIT ONLY)
- PROPOSED WATER LINES (BY OTHERS)

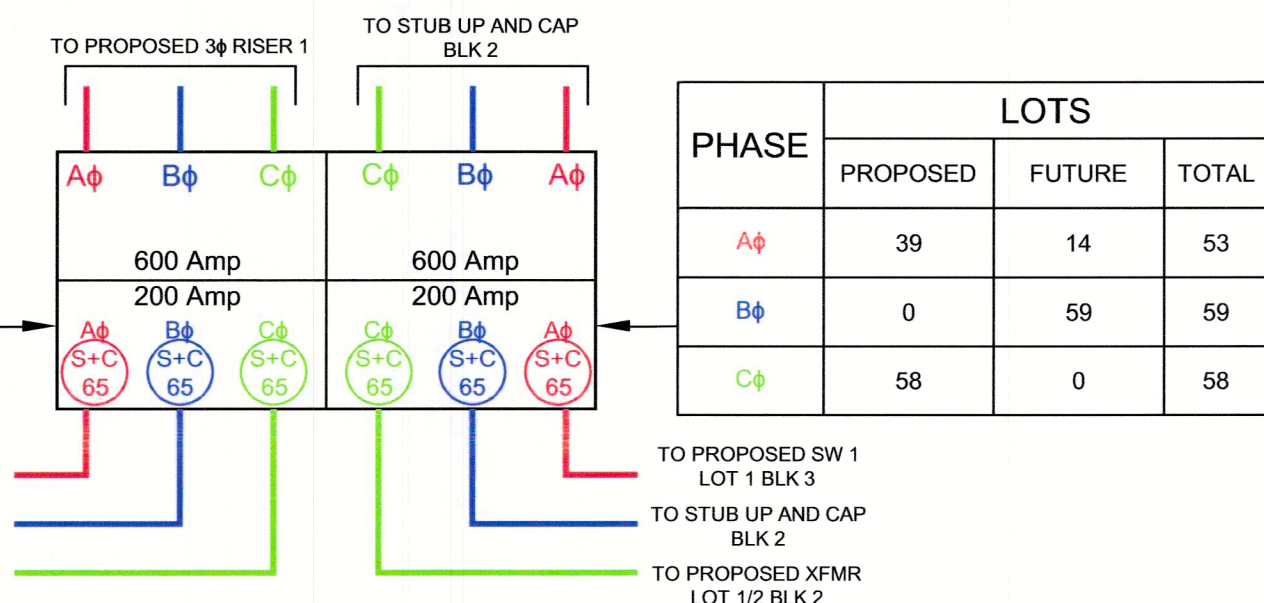
ROAD CROSSING DETAIL - REQUIRED CLEARANCE
FROM WATER MAIN AND SERVICE LINES

ALL ELECTRIC CONDUITS PARALLEL WITH WATER MAIN OR SERVICE LINES TO HAVE SEVEN FOOT (7') HORIZONTAL CLEARANCE.

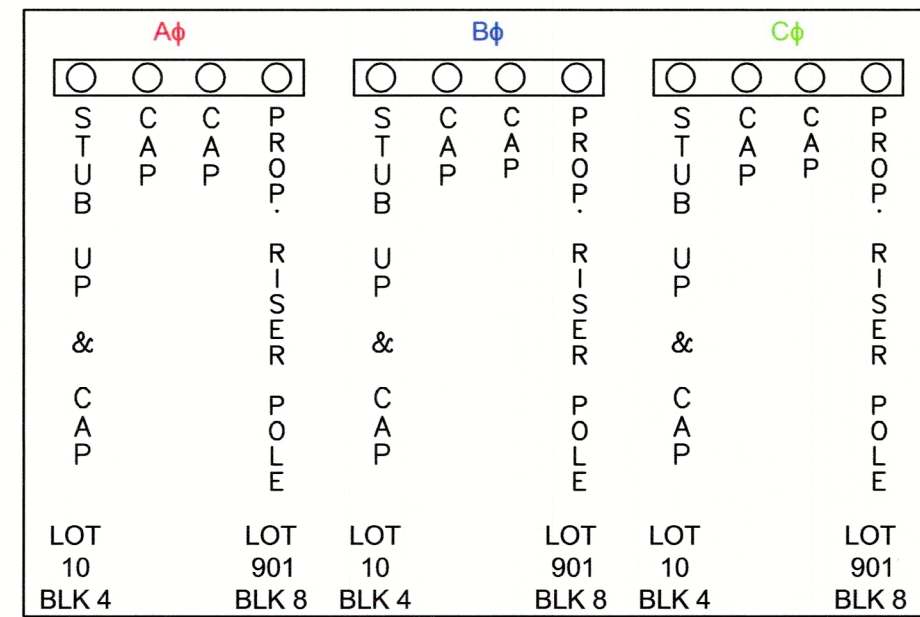
GENERAL NOTES:

- FOR FUTURE TEMPORARY SERVICE, STUB OUT (1) 2" FLEXIBLE ELECTRICAL PVC CONDUIT 6" BELOW GRADE CENTERED IN FRONT OF ALL TRANSFORMERS AND PEDESTALS. WHEN TEMPORARY SERVICE IS RETIRED, CUT OFF AND CAP 6" BELOW FINISHED GRADE.
- VERIFY ALL UNDERGROUND UTILITIES BEFORE DIGGING.
- ZACH HAUPERT WILL NOTIFY CONSTRUCTION CREWS WHEN IT IS OK TO PROCEED WITH INSTALLATION OF THE UNDERGROUND SYSTEM.
- GVEC TO HAVE A 5' WIDE ELECTRIC EASEMENT ON ALL ROAD CROSSINGS IN WHICH ELECTRIC LINES ARE PLACED.
- INSTALL THE CORRECT KV RATED PARKING STAND ARRESTORS AND LIGHTNING ARRESTORS FOR ALL OPEN POINT TRANSFORMERS.
- WATER AND SEWER PROVIDED BY CITY OF SEGUIN AND CRYSTAL CLEAR.

PHASE	LOTS		
	PROPOSED	FUTURE	TOTAL
Aφ	0	44	44
Bφ	12	36	48
Cφ	0	36	36



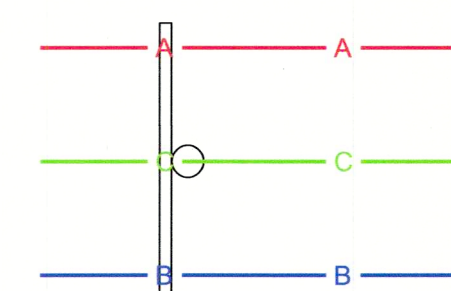
DETAIL 1: PROPOSED SWGR 1 (PME-9)
PROPOSED SWITCHGEAR LAYOUT



PHASE	LOTS		
	PROPOSED	FUTURE	TOTAL
Aφ	39	14	53
Bφ	0	59	59
Cφ	58	0	58

DETAIL 4: PROPOSED RISER 1
ON PROPOSED RISER POLE, INSTALL:

- ONE (1) A4 RISER AND ONE (1) 600 AMP DISCONNECT BLADE SWITCH
- ONE (1) B4 RISER AND ONE (1) 600 AMP DISCONNECT BLADE SWITCH
- ONE (1) C4 RISER AND ONE (1) 600 AMP DISCONNECT BLADE SWITCH



DETAIL 5: PROPOSED RISER 2
ON PROPOSED RISER POLE, INSTALL:

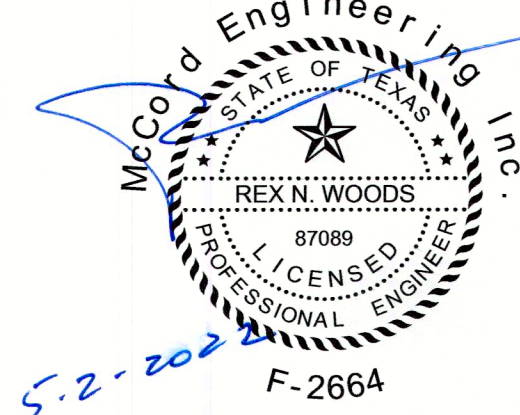
- ONE (1) A4 RISER AND ONE (1) 600 AMP DISCONNECT BLADE SWITCH
- ONE (1) B4 RISER AND ONE (1) 600 AMP DISCONNECT BLADE SWITCH
- ONE (1) C4 RISER AND ONE (1) 600 AMP DISCONNECT BLADE SWITCH

PHASE	LOTS		
	PROPOSED	FUTURE	TOTAL
Aφ	5	48	53
Cφ	58	0	58

DETAIL 6: PROPOSED RISER 3
ON PROPOSED RISER POLE, INSTALL:

- ONE (1) A4 RISER AND ONE (1) 600 AMP DISCONNECT BLADE SWITCH
- ONE (1) B4 RISER AND ONE (1) 600 AMP DISCONNECT BLADE SWITCH
- ONE (1) C4 RISER AND ONE (1) 600 AMP DISCONNECT BLADE SWITCH

Material List Table		
Quantity	CU	Description
22	P30AL-SL	30 ft. aluminum street light pole with one 54 watt type 3 LED luminaire
6,620	U1/0AL25KV	1/0 AL 25KV Aluminum URD Primary Cable
4,936	U1000AL25KV	1000 MCM Aluminum URD Primary Cable
1,506	U12/2UFW/GRD	12/2 UF Copper with Ground Street light Cable
3,847	U350ALTP	350 MCM URD Triplex Secondary Cable
1,132	U4/0ALTP	4/0 MCM URD Triplex Secondary Cable
37	UK6-350	Secondary pedestal, fed with 350 MCM URD triplex
9	UK6-4/0	Secondary pedestal, fed with 4/0 MCM URD triplex
1	UM3E-3-9	Three phase 600 Amp dead front switchgear with 2 source and 2-200Amp load compartments
828	UPVC 1	1" Schedule 40 PVC
13,860	UPVC 2.5	2.5" Schedule 40 PVC
4,343	UPVC 4	4" Schedule 40 PVC
1	UVG5-2D-75	75 kVA DV/120-240 Pad-Mounted Transformer, Open
2	UVG6-2D-50	50 kVA DV/120-240 Pad-Mounted Transformer, Radial
1	UVG6-2D-75	75 kVA DV/120-240 Pad-Mounted Transformer, Radial
5	UVG7-2D-100	100 kVA DV/120-240 Pad-Mounted Transformer, Loop
1	UVG7-2D-25	25 kVA DV/120-240 Pad-Mounted Transformer, Loop
1	UVG7-2D-37.5	37.5 kVA DV/120-240 Pad-Mounted Transformer, Loop
3	UVG7-2D-50	50 kVA DV/120-240 Pad-Mounted Transformer, Loop
7	UVG7-2D-75	75 kVA DV/120-240 Pad-Mounted Transformer, Loop
2	UVM2-1000-X	Three phase riser assembly, 14.4kV
1	UVM2-4X-X	Two phase riser assembly, 14.4kV
1	UVM31-2	1 Phase switch cabinet, 2-Way
1	UVM33-2	3 Phase switch cabinet, 2-Way, 600 Amp
3	UVM6-4	Fault Indicator



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY
REX N. WOODS, P.E. 87089
APRIL 2, 2022

NOT VALID UNLESS SIGNED.
ALTERATION OF A SEALED DOCUMENT WITHOUT
PROPER NOTIFICATION TO THE RESPONSIBLE
ENGINEER IS AN OFFENSE UNDER THE
TEXAS ENGINEERING PRACTICE ACT.

APPROVED
FOR CONSTRUCTION



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GONZALES, TEXAS 78629-0118
830-672-2871
1800-223-GVEC(4832)
FAX 210-672-9841
e-mail info@gvec.org

DATE	4-25-2022	JOB NAME	JARO NORTH UNIT 1
DRAWN BY	JB		
CHECKED BY	RW/DW		
DATE	4-25-2022	WORK ORDER #	WO# 1833641
SCALE	1" = 100'		
DRAWN BY	JB	JOB CODE	GVC-3-J2
DATE	4-25-2022	DWN NO.	MEI-16219
SHEET NO.	1 OF 1		