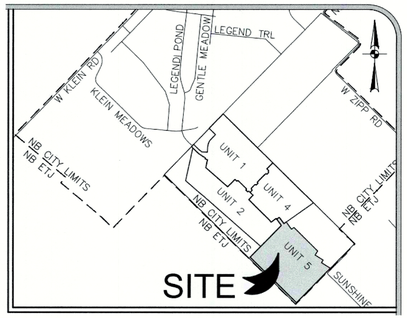


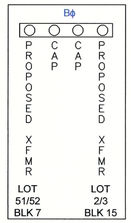
VICINITY MAP

NOT TO SCALE

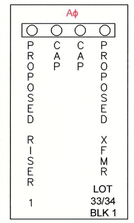
WO# 1965899
130 LOTS
19 LIGHTS

Upline Device
V401
14.4/24.9 kV

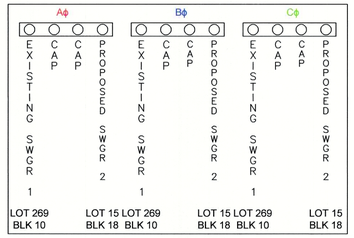
50' 0 50' 100' 150' 200'
GRAPHIC SCALE



DETAIL 3: PROPOSED SW 1
PROPOSED Bϕ SWITCH CABINET



DETAIL 4: PROPOSED SW 2
PROPOSED Aϕ SWITCH CABINET



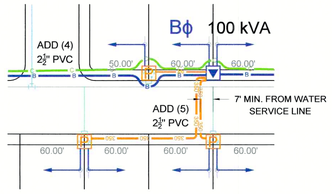
DETAIL 5: PROPOSED SW 3 600 AMP
PROPOSED 3ϕ 600 AMP SWITCH CABINET

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 — A-PHASE PRIMARY UNDERGROUND - 1/0 AL 25kV IN (1) 2½" PVC CONDUIT
- B — B-PHASE PRIMARY UNDERGROUND - 1/0 AL 25kV IN (1) 2½" PVC CONDUIT
- C — C-PHASE PRIMARY UNDERGROUND - 1/0 AL 25kV IN (1) 2½" PVC CONDUIT
- 1000 — PRIMARY UNDERGROUND - 3-PHASE 1000 MCM AL 25kV IN (3) 4" PVC CONDUIT WITH (1) 2½" PVC CONDUIT FOR FIBER
- 350 — SECONDARY UNDERGROUND - 350 TPLX IN (1) 2½" PVC CONDUIT WITH (1) 2½" SPARE CONDUIT
- 4/0 — SECONDARY UNDERGROUND - 4/0 TPLX IN (1) 2½" PVC CONDUIT
- #2 — SECONDARY UNDERGROUND - #2 TPLX IN (1) 2½" 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)

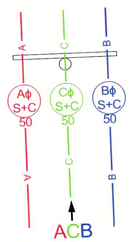
GENERAL NOTES:

1. 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.
2. VERIFY ALL UNDERGROUND UTILITIES BEFORE DIGGING.
3. GVEC STAFF WILL NOTIFY CONSTRUCTION CREWS WHEN TO PROCEED WITH INSTALLATION OF THE UNDERGROUND SYSTEM.
4. GVEC TO HAVE A 5' WIDE ELECTRIC EASEMENT ON ALL ROAD CROSSINGS IN WHICH ELECTRIC LINES ARE PLACED.
5. INSTALL THE CORRECT kV RATED PARKING STAND ARRESTORS AND LIGHTNING ARRESTORS FOR ALL OPEN POINT TRANSFORMERS.
6. ALL UNDERGROUND CONDUIT FOR GVEC ELECTRIC FACILITIES TO BE SCHEDULE 40, GRAY PVC UNLESS OTHERWISE SPECIFIED BY GVEC STAFF.
7. WATER PROVIDED BY GVSUD
8. SEWER PROVIDED BY GBRA



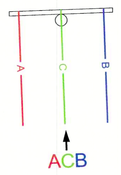
ROAD CROSSING DETAIL - REQUIRED CLEARANCE FROM WATER MAIN AND SERVICE LINES

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



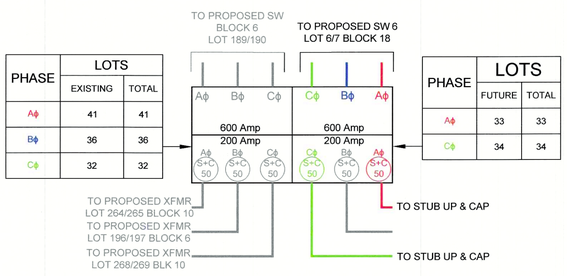
PHASE	LOTS		
	PROPOSED UNIT 5	FUTURE	TOTAL
Aϕ	42	0	42
Bϕ	0	30	0
Cϕ	39	0	39

DETAIL 6: PROPOSED RISER 1
ON PROPOSED RISER POLE, INSTALL:
- QUANTITY (1) Aϕ RISER AND QUANTITY (1) Aϕ 50 S&C FUSE
- QUANTITY (1) Bϕ RISER AND QUANTITY (1) Bϕ 50 S&C FUSE
- QUANTITY (1) Cϕ RISER AND QUANTITY (1) Cϕ 50 S&C FUSE



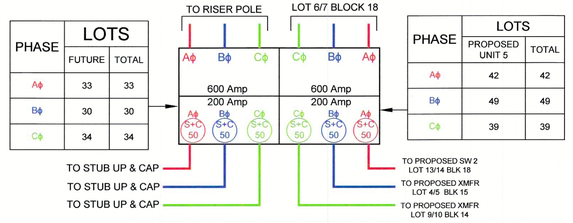
DETAIL 7: PROPOSED RISER 2
ON PROPOSED RISER POLE, INSTALL:
- ONE (1) Aϕ RISER AND ONE (1) 600 AMP DISCONNECT BLADE SWITCH
- ONE (1) Bϕ RISER AND ONE (1) 600 AMP DISCONNECT BLADE SWITCH
- ONE (1) Cϕ RISER AND ONE (1) 600 AMP DISCONNECT BLADE SWITCH

PHASE	LOTS	
	EXISTING	TOTAL
Aϕ	41	41
Bϕ	36	36
Cϕ	32	32



PHASE	LOTS	
	FUTURE	TOTAL
Aϕ	33	33
Cϕ	34	34

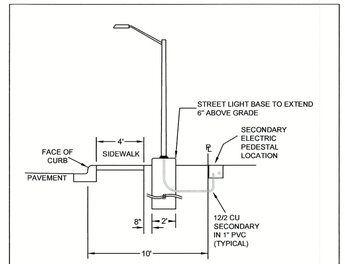
DETAIL 1: EXISTING SWGR 1 (PME-9)
PROPOSED SWITCHGEAR LAYOUT



PHASE	LOTS	
	FUTURE	TOTAL
Aϕ	33	33
Bϕ	30	30
Cϕ	34	34

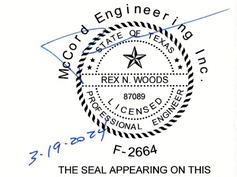
PHASE	LOTS	
	PROPOSED UNIT 5	TOTAL
Aϕ	42	42
Bϕ	49	49
Cϕ	39	39

DETAIL 2: PROPOSED SWGR 2 (PME-9)
PROPOSED SWITCHGEAR LAYOUT



STREET LIGHT NOTE:
USE FLUSH-MOUNT PEDESTALS.

Material List		
Quantity	CU	Description
9664	U1/0AL25KV	1/0 AL 25KV Aluminum URD Primary Cable
5367	U1000AL25KV	1000 MCM Aluminum URD Primary Cable
1994	U12/2UFW/GRD	12/2 UF Copper with Ground Street light Cable
4193	U350ALTP	350 MCM URD Triplex Secondary Cable
927	U4/0ALTP	4/0 MCM URD Triplex Secondary Cable
38	UK6-350	Secondary pedestal, fed with 350 MCM URD triplex
16	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
19	UP30-5AL	30 ft. aluminum street light pole with one 54 watt type 3 LED luminaire
1234	UPVC 1	1 Schedule 40 PVC"
15633	UPVC 2.5	2.5 Schedule 40 PVC"
4478	UPVC 4	4 Schedule 40 PVC"
1	UVG5-2D-100	100 kVA DV/120-240 Pad-Mounted Transformer, Open
2	UVG5-2D-50	50 kVA DV/120-240 Pad-Mounted Transformer, Open
5	UVG7-2D-100	100 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
11	UVG7-2D-75	75 kVA DV/120-240 Pad-Mounted Transformer, Loop
1	UVM2-1000X-X	Three phase riser assembly, 14.4kV
1	UVM2-5X-X	Three phase riser assembly, 14.4kV
2	UVM31-2	1 Phase switch cabinet, 2-Way
1	UVM33-2	3 Phase switch cabinet, 2-Way



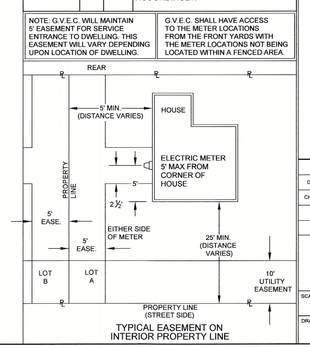
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY REX N. WOODS, P.E. 87089 MARCH 19, 2023
NOT VALID UNLESS SIGNED.
ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

APPROVED FOR CONSTRUCTION

DATE	#	BY	REVISION
02/12/24	1	SB	DEVELOPER ADDED LOTS AND STORM DRAINAGE. PLAN ADJUSTED ACCORDINGLY.

NOTE: G.V.E.C. WILL MAINTAIN 5' EASEMENT FOR SERVICE ENTRANCE TO DWELLING. THIS EASEMENT WILL VARY DEPENDING UPON LOCATION OF DWELLING.

G.V.E.C. SHALL HAVE ACCESS TO THE METER LOCATIONS FROM THE FRONT YARDS WITH THE METER LOCATIONS NOT BEING LOCATED WITHIN A FENCED AREA.



TYPICAL EASEMENT ON INTERIOR PROPERTY LINE

gvec Delivering more.™

GUADALUPE VALLEY ELECTRIC CO-OP., INC.
P.O. BOX 118 - 825 E. SARAH DeWITT DR.
GONZALES, TEXAS 78629-0118
830-672-2871
1800-223-GVEC(4832)
FAX 210-672-9841
e-mail info@gvec.org

DATE	02/12/2024	JOB NAME	SOUTH POINT UNIT 5 DEVELOPER REVISIONS
DRAWN BY	SB		
CHECKED BY			
DATE			
SCALE	1" = 100'	WORK ORDER #	WO# 1965899

McCORD ENGINEERING, INC.
Texas Registered Engineering Firm F-2664
916 Southwest Parkway East
College Station, TX 77840
(979) 764-8356

SCALE:	1" = 100'	DWG NO.	MEI-17688
DATE:	02/12/2024	SHEET NO.	1 OF 1
DRAWN BY:	SB	REV.	0
JOB CODE:	GVC-3-S.42-A		