

MASON COUNTY PUD #1															
PROJECT: _____		LILLIWAUP BAY		WO # _____		25060		LINE: _____							
UG LOCATE TICKET # _____				BY _____		DETAIL MAP _____		COUNTY _____		SCHOOL DISTRICT _____		STAKED BY _____		DATE _____	
												REVISED BY _____		DATE _____	
TWSP _____				RANGE _____		SECTION _____		NOTES _____		REVISION M _____		CHECKED BY _____		DATE _____	

NOTES - Refer to Specifications and Guidelines for Additional Information
PUD1 will provide some of the major UG materials: **500MCM cable, 4/0 cable, SCH40 stick conduit, 775 vaults, 1-phase cabinet, 3-phase cabinet, and the Group-Operated Switches (GOS) associated with riser assembly UCG3.GOS.**
Contractor provides everything NOT mentioned above, including but not limited to:
All primary and secondary riser assembly (SCH80 conduit, jumpers, terminators, grounding, lightning arrestors, etc.) materials except for GOS itself, materials needed for making up vaults and cabinets (junctions, deadbreak, loadbreak, fused elbow, etc.) secondary pedestals, rolled pipe (for bores) and any other material, implied or otherwise shall be provided by contractor.
Refer to installation specifications for storage and installation of equipment and material. If there are competing specifications or guideline adhere to strictest one.
All elbows shall be installed on multi point junctions from left to right (Source, Load, Tap, Tap).
All equipment shall be installed as described.
All underground pulls shall be well lubricated. Pulling eyes for 500MCM cable pulls greater than 1000' should be considered.
All sweeps shall be long radius, except where specified otherwise in construction unit drawings.
Use plastic conduit plugs at each stub location.
All trenches shall have a minimum width of 2' unless specified otherwise.
All trenches shall be backfilled in accordance with drawing details, and specifications.
All cable shall be phase marked and tagged with the destination (vault/cabinet #) of cable.
All phases shall be marked
All lightning arrestors shall be 10 kV MOV 8.4 kV MCOV.
Make arrester ground terminal-to-neutral (or concentric) jumper as short as possible.
All secondary pedestals shall be above ground (not-flush mount).

PUD1 will provide: **Wood pole and Group-Operated-Switch (GOS).**
Contractor provides: **All OH assemblies.**

All OH phase jumpers to be covered conductor.
All poles shall have split bolts at top of pole when not framed for two directions.
Guying shall be done in accordance with Guy & Anchor Standards found in the guidelines attachment.
Poles shall be installed 10% + adder' in accordance with TM-10-MA01 found in the guidelines attachment.
All 8' deadend crossarms shall be 3-position fiberglass with a minimum ultimate deadend strength of 13,900 lbs/position.

Technical Assumptions

Assumed Worst Case Tension (WCT) for 4/0 ACSR (Penguin) is 2662ft-lbs.
Assumed Worst Case Tension (WCT) for 1/0 ACSR (Raven) is 1534ft-lbs.

Guying/Anchoring strengths based on 10" anchor installation torque of 3000 ft-lbs.

8" helix anchors may be used in lieu of 10" anchors, such that the holding capacity meets or exceeds 16kip.

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OVERHEAD PROJECT: <u>LILLIWAUP BAY CORNER REBUILD</u> DRAWING #'S: <u>E1</u>																		WO # <u>25060</u>				ACTION LEGEND: E=EXISTING R=REMOVE A=ADD					
DATE: 10/8/2026																		REVISION: 0									
Action	POLES						UNIT	CONDUCTOR			R-W CLEAR	LINE ANGLE (Deg)	GUY			ANCHOR		GROUND	#	MISC.	TRANSFORMER		SECONDARY				REMARKS
	KEYED NOTE	ORIGINAL STR #	MAP #	HT-CL-TYPE				Back Span (Ft)	#	Size Type			#	Type	Lead (Ft)	#	Type				UNIT	KVA	#	Size	Span (Ft)	Unit	
E	P1	N146		50	2	DF	C5.21F		3	4-0 ACSR			1	E1.1	25	1	F2.8	H1.1			G1.5	25					EXISTING POLE TO REMAIN
E	P1	N146							1	1-0 ACSR			1	E1.1	20	1	F2.8										MODIFY RISER SEE UG STAKING SHEETS
R	P2	N160	5233	45	1	DF	C5.21		3	1-0 ACSR			1	E1.1	25	1	F2.8	H1.1									RETURN POLE TO PUD
R	P2	N160	5233						1	1-0 ACSR			1	E1.1	20	1	F2.8										
A	P2	N160		50	2	DF	C5.21F		3	1-0 ACSR			1	E1.1	25	1	F2.8	H1.1									
A	P2	N160							1	1-0 ACSR			1	E1.1	20	1	F2.8										
E	P3	N156	5290	55	4	DF	C5.21		3	4-0 ACSR			1	E1.1	25	1	F2.8	H1.1									EXISTING POLE TO REMAIN
E	P3	N156	5290						1	1-0 ACSR			1	E1.1	20	1	F2.8										MODIFY RISER SEE UG STAKING SHEETS

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UNDERGROUND PROJECT: <u>LILLIWAUP BAY CORNER REBUILD</u>														WO#: <u>25060</u>										ACTION LEGEND: E=EXISTING R=REMOVE A=ADD				
DRAWING #'S: <u>E1</u>																												
DATE: <u>10/8/2026</u>														REVISION: <u>0</u>														
Action	LOCATION			PRIMARY CONDUIT			PRIMARY CABLE			PRIMARY UNIT		PAD/VAULT		GROUND	TRANSFORMER		ELBOW		MULTI-PT. TERMIN.		CAP		MISC		CONDUIT ELBOWS		REMARKS	
	KEYED NOTE	STR #	MAP#	Distance	#	Size Type	Cable Length (Ft)	#	Size Type	#	Assy	#	Assy		UNIT	KVA	#	Size Type	#	Size Type	#	Size Type	#	Size Type	#	Per Primary or Sec Cond Size		
A	V1				3	3"SCH40		3	500MCM			1	VC77D/V77	UVG			9	UM6.EL6.500	3	UM6.JN6666	6	UM6.C6						INTERCEPT EXISTING 500MCM. INSTALL 775 VAULT. DROP EXISTING 500MCM FROM P1 INTO NEW VAULT. PULL IN NEW 500MCM TO P1.
A	V1-HCC STUB				2	2"SCH40																			6	UP7.04.90.2		STUB (6) 2" HCC NEAR VAULT. (2) IN, (2) TO P1, (2) TO V2
E	P1	N146			3	3"SCH40				1	UC3.3														3	UP7.04.90.3		REUSE EXISTING RISER.
R	P1	N146					100	3	500MCM															3	UM6.T.500			DROP 500 MCM INTO NEW VAULT
A	P1	N146					100	3	500MCM															3	UM6.T.500			PULL IN NEW 500MCM FROM V1.
E	P1-HCC STUB	N146			2	2"SCH40																						EXISTING HCC RISER STUB
A	V2			1300	3	3"ROLLED CONDUIT	1400	6	500MCM			1	VC77D/V77	UVG			3	UM6.EL6.500	3	UM6.JN6666	3	UM6.C6						INTERCEPT EXISTING 4/0 UG. INSTALL 775 VAULT. (2) 3PH 600A WAYS & (1) 3PH 200A WAY TO PICK UP EXISTING TOWARD THE NORTHWEST.
A	V2							3	4-0								3	UM6.EL2.4-0					3	UM6.BA.62				REUSE 4/0 TO NW. NEED 600A TO 200A "FOOTBALLS" UM6.BA.62
A	V2-HCC STUB			1300	2	2"ROLLED CONDUIT																			4	UP7.04.90.2		STUB (4) 2" HCC NEAR VAULT. (2) IN, (2) TO P2
R	P2	N160	5299	280	3	2"SCH40	325	3	4-0	1	UC3												3	UM6.T.4/0	3	UP7.04.90.2		RETIRE OLD RISER
A	P2	N160		280	3	3"SCH40	325	3	500MCM	1	UC3.3GOS			HC3.3											3	UP7.04.90.3		INSTALL NEW 500MCM RISER W/ GOS
A	P2-HCC STUB	N160		280	2	2"SCH40																			1	UP7.04.90.2		(2) 2" HCC RISER STUBS
A	C1				3	2"SCH40		3	4-0	1	US3.PJ						6	UM6.EL2.4-0			6	UM6.C2			6	UP7.04.90.2		INTERCEPT EXISTING 4/0 UG. INSTALL 3-PHASE CABINET. DROP EXISTING 4/0 UG FROM P3 INTO NEW CABINET. PULL IN NEW 4/0 UG TO P3.
E	P3	N156	5290		3	2"SCH40				1	UC3.3														3	UP7.04.90.2		REUSE EXISTING RISER.
R	P3	N156	5290				100	3	4-0															3	UM6.T.4/0			DROP 4/0 INTO NEW CABINET
A	P3	N156	5290				100	3	4-0															3	UM6.T.4/0			INSTALL NEW RUN OF 4/0 FROM C1
A	P3-HCC STUB	N156	5290		2	2"SCH40																			1	UP7.04.90.2		(1) 2" HCC RISER STUB FOR HWY CROSSING
A	C2			100	2	2"ROLLED CONDUIT				1	US1.PJ														2	UP7.04.90.2		INSTALL NEW 1PH CABINET & CONDUIT ONLY.
NOTE: HIGHLIGHTED SECTIONS PERTAINING TO HCC ARE INFORMATIONAL ONLY. HCC TO PROVIDE ALL COMMUNICATION CONDUIT/MATERIALS. CONTRACTOR TO STUB HCC CONDUIT ONLY! DO NOT USE FOR MATERIAL TAKE-OFF																												