

MASON COUNTY PUD #1										
PROJECT		VALLEY TO BOURGAULT			WO #		25005		LINE:	
UG LOCATE TICKET #					BY	DETAIL MAP	COUNTY		SCHOOL DISTRICT	
									STAKED BY	
									REVISIED BY	
									DATE	
									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, #2 cable, 500 MCM 4-pt junctions, 500MCM deadbreak elbows, #2 loadbreak elbows, 200A & 600A dust caps, 3-phase cabinets.
Contractor provides everything NOT mentioned above, including but not limited to:
All riser assembly materials (primary & secondary), materials not mentioned above for making up vaults and cabinets, secondary pedestals, 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.

PUD1 will provide minimal overhead materials: PUD1 will provide OH transformers that can't be reused. PUD1 wants contractor to repurpose existing Group-Operated-Switches (GOS). PUD1 will provide bypass switch (on arm) for recloser at U1. Existing reclosers to be reinstalled (U1 & S38).
Contractor provides everything NOT mentioned above, including but not limited to:
All overhead materials (DF Poles, 336 ACSR (Merlin), 4/0 ACSR (Penguin), 4 ACSR (Swanate), OH assemblies, Sec DE, etc.)

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.
Assume secondary deadends (Sec DE) of appropriate size at each J2.1 unit. Sec DE's shall be automatics.

Assume all OH secondary to remain unless splices present. Replace all glass. Replace all xfmr's with rusted tops. Cutouts can remain if deemed acceptable. In other words some replacements called out for on staking sheet may not be needed. Confirm with PUD if there is any question.

Technical Assumptions
Assumed Worst Case Tension (WCT) for 336 ACSR (Merlin) is 3,162 ft-lbs
Assumed Worst Case Tension (WCT) for 4/0 ACSR (Penguin) is 2662 ft-lbs.
Assumed Worst Case Tension (WCT) for 4 ACSR (Swanate) is 2142 ft-lbs.

MASON COUNTY PUD #1

OVERHEAD PROJECT: VALLEY TO BOURGAULT OVERHEAD
DRAWING #'S: E1-E6

WO # 25005

**ACTION LEGEND: E=EXISTING
R=REMOVE
A=ADD**

DATE: 7/2/2025

REVISION: 0

Action	POLES					UNIT	CONDUCTOR			R-W CLEAR	LINE ANGLE (Deg)	GUY			ANCHOR		GROUND	#	MISC.	TRANSFORMER		SECONDARY			REMARKS	
	STR #	MAP #	HT-CL-TYPE				Back Span (Ft)	#	Size Type			#	Type	Lead (Ft)	#	Type				UNIT	KVA	#	Size	Span (Ft)		Unit
E	S25	5610	40	2	DF						2	E1.1	20	1	F2.8	H1.1										
R	S25	5610				C5.21		3	4-0 ACSR																	
R	S25	5610						1	1-0 ACSR																	
A	S25	5610				C5.21F		3	336 ACSR															REPLACE DE W/ FIBERGLASS. INSTALL GOS FROM UG RISER.		
A	S25	5610						1	4-0 ACSR																	
E	S26	5206	55	2	DF						2	E1.1		2	F2.8	H1.1			G1.5	25	1	2-TPX		J2.1		
R	S26	5206				C6.21	245	3	4-0 ACSR															REPLACE DDE W/ FIBERGLASS.		
R	S26	5206					245	1	1-0 ACSR																	
A	S26	5206				C6.21FL	245	3	336 ACSR															REPLACE DDE W/ FIBERGLASS.		
A	S26	5206					245	1	4-0 ACSR																	
R	S27	5207	45	2	DF	CAL1	275	3	4-0 ACSR							H1.1			G1.5	25	1	2-TPX		J2.1	REUSE XFMR	
R	S27	5207					275	1	1-0 ACSR																	
R	S27	5207				A5.2	2		6 CU								1	S1.1								
A	S27		50	2	DF	CAL1	275	3	336 ACSR							H1.1			G1.5	25	1	2-TPX		J2.1	REUSE XFMR.	
A	S27						275	1	4-0 ACSR																	
A	S27					A5.2	2		4 ACSR		1	E1.1	5	1	F2.8		1	S1.1							10 K FUSE TAP. ADD DOWN GUY & ANCHOR	
R	S27L1	1947	45	4	DF	A4.2	140	2	6CU		1	E1.1														
A	S27L1		50	2	DF	A4.2	140	2	4 ACSR		1	E1.1													GUY AT BISECT EXISTING ANCHOR	
A	S27L1							2	6CU																EXISTING CU TO EAST TO REMAIN	
E	S28	4993	45	4	DF																1	4-DPX		J2.1		
R	S28	4993				CAL1	265	3	4-0 ACSR																REPLACE 3PH TANGENT NARROW FRAMING	
R	S28	4993					265	1	1-0 ACSR																	
R	S28	4993				A5.2	1		4 ACSR																	
A	S28	4993				CAL1	265	3	336 ACSR																REPLACE 3PH TANGENT NARROW FRAMING	
A	S28	4993					265	1	4-0 ACSR																	
A	S28	4993				A5.2	1		4 ACSR		1	E1.1	5	1	F2.8	H1.1	1	S1.1							20K FUSED TAP. 5' LEAD TO BACKUP 1PH DE	
R	28R1	1953	40	4	DF	A4.2	140	2	4 ACSR							H1.1			G1.5	25	2	2-TPX 4-DPX		J2.1	RETIRE XFMR.	
R	28R1	1953				A5.1		2	CU																REMOVE 1PH PRI TO S28R1R1	
A	28R1		45	2	DF	A4.2	140	2	4 ACSR		1	E1.4	50			H1.1			G1.5	25	2	2-TPX 4-DPX		J2.1	REFRAME AS DDE. NEW XFMR. SPAN GUY TO S28R1R1	
R	28R1R1	1955	35	4	DF	A5.1	50	2	CU							H1.1					1	2-TPX		J2.1	RETIRE 1PH OH. NO LONGER NEEDED	
A	S28R1R1		40	2							1	E1.1	F2.8			H1.1					1	2-TPX	50	J2.1	BECOMES GUY STUB/SECONDARY POLE.	
E	S29	5209	45	2	DF																					
R	S29	5209				C6.21	275	3	4-0 ACSR																RETIRE DDE FRAMING	
R	S29	5209				S2.32	275	1	1-0 ACSR																REMOVE GOS AND REUSE ON S64A	
A	S29	5209				CAL1	275	3	336 ACSR																REFRAME W/ 3PH TANGENT NARROW FRAMING	
A	S29	5209					275	1	4-0 ACSR																	

MASON COUNTY PUD #1																																					
OVERHEAD PROJECT: <u>VALLEY TO BOURGAULT OVERHEAD</u>														WO # <u>25005</u>				ACTION LEGEND: E=EXISTING R=REMOVE A=ADD																			
DRAWING #S: <u>E1-E6</u>														DATE: <u>7/2/2025</u>														REVISION: <u>0</u>									
Action	POLES					UNIT	CONDUCTOR			R-W CLEAR	LINE ANGLE (Deg)	GUY			ANCHOR		GROUND	#	MISC.	TRANSFORMER		SECONDARY				REMARKS											
	STR #	MAP #	HT-CL-TYPE				Back Span (Ft)	#	Size Type			#	Type	Lead (Ft)	#	Type				UNIT	KVA	#	Size	Span (Ft)	Unit												
E	S30	5204	50	2	DF												H1.1			G1.5	25	1	2-TPX		J2.1												
E	S30	5204				A5.2		2	4ACSR									1	S1.1							ENSURE FUSE IS 10K FUSE. REPLACE 4ACSR TO TAP POLE											
R	S30	5204				CAL1	280	3	4-0 ACSR																	REPLACE 3PH TANGENT NARROW FRAMING											
R	S30	5204					280	1	1-0 ACSR																												
A	S30	5204				CAL1	280	3	336 ACSR																	REPLACE 3PH TANGENT NARROW FRAMING											
A	S30	5204					280	1	4-0 ACSR																												
R	S30L1	1597	40	2	DF	A5.1	140	2	4 ACSR			1	E1.1				H1.1			G1.5	25					REUSE XFMR. REPLACE DAMAGED 4 ACSR											
E	S30L1													1	F2.8											REUSE ANCHOR											
A	S30L1		50	2	DF	A5.1	140	2	4 ACSR			1	E1.1				H1.1			G1.5	25					REUSE XFMR											
E	S31	5203	45	2	DF							2	E1.1		1	F2.8	H1.1																				
R	S31	5203				CAL1	315	3	4-0 ACSR			1	E1.1													RETIRE DOWN GUY TO WEST (UNUSED). REPLACE 3PH TANGENT NARROW FRAMING											
R	S31	5203					315	1	1-0 ACSR																												
R	S31	5203				A5.2		2	CU									1	S1.1																		
A	S31	5203				CAL1	315	3	336 ACSR																	REPLACE 3PH TANGENT NARROW FRAMING											
A	S31	5203					315	1	4-0 ACSR																												
A	S31	5203				A5.2		2	4ACSR									1	S1.1							15K FUSED TAP											
R	S31R1	1576	40	2	DF	A1.1	160	2	6CU								H1.1			G1.5	25	2 1	2-TPX 1/0-TPX		J2.1	RETIRE XFMR											
A	S31R1		45	2	DF	A4.2	160	2	4 ACSR								H1.1			G1.5	25	2 1	2-TPX 1/0-TPX		J2.1	NEW XFMR.											
E	S31R1							2	6CU																	CUT INTO EXISTING CU TO WEST AND INSTALL 1 PH DDE.											
R	S32	5202	45	2	DF	CAL 1	265	3	4-0 ACSR																												
R	S32	5202					265	1	1-0 ACSR																												
A	S32		50	2		CAL1	265	3	336 ACSR																	INSTALL POLE CLOSER TO HWY TO REDUCE LINE ANGLE											
A	S32						265	1	4-0 ACSR																												
E	S33	5201	45	2	DF																																
R	S33	5201				CAL1	260	3	4-0 ACSR																	REPLACE 3PH TANGENT NARROW FRAMING											
R	S33	5201					260	1	1-0 ACSR																												
A	S33	5201				CAL1	260	3	336 ACSR																	REPLACE 3PH TANGENT NARROW FRAMING											
A	S33	5201					260	1	4-0 ACSR																												
E	S34	1566	45	2	DF															G1.5	25	2	1/0-TPX		J2.1												
R	S34	1566				C6.21	300	3	4-0 ACSR																	REPLACE 3PH TANGENT NARROW FRAMING											
R	S34	1566					300	1	1-0 ACSR																												
A	S34	1566				C6.21F	300	3	336 ACSR																	REPLACE 3PH TANGENT NARROW FRAMING											
A	S34	1566					300	1	4-0 ACSR																												
R	S35	1563	45	2	DF	CAL1	270	3	4-0 ACSR								H1.1					1	1/0-TPX	270	J2.1	REPLACE OH SEC FOR SEC RISER IF NEEDED. VERIFY SIZE.											
R	S35	1563					270	1	1-0 ACSR																												
R	S35	1563				A5.2		2	4 ACSR																												
A	S35		50	2	DF	CAL1	270	3	336 ACSR								H1.1					1	1/0-TPX	270	J2.1	REPLACE OH SEC FOR SEC RISER IF NEEDED. VERIFY SIZE.											
A	S35						270	1	4-0 ACSR																												
A	S35					A5.2		2	4 ACSR			1	E1.1	5	1	F2.8		1	S1.1							10K FUSED TAP											

MASON COUNTY PUD #1																										
OVERHEAD PROJECT: <u>VALLEY TO BOURGAULT OVERHEAD</u> DRAWING #S: <u>E1-E6</u>																	WO # <u>25005</u>				ACTION LEGEND: E=EXISTING R=REMOVE A=ADD					
DATE: <u>7/2/2025</u>																	REVISION: <u>0</u>									
Action	POLES					UNIT	CONDUCTOR			R-W CLEAR	LINE ANGLE (Deg)	GUY			ANCHOR		GROUND	#	MISC.	TRANSFORMER		SECONDARY				REMARKS
	STR #	MAP #	HT-CL-TYPE				Back Span (Ft)	#	Size Type			#	Type	Lead (Ft)	#	Type				UNIT	KVA	#	Size	Span (Ft)	Unit	
R	S35L1	20184	45	2	DF	A4.2	155	2	4 ACSR			1	E1.1				H1.1			G1.5	25	1	2-TPX		J2.1	REUSE XFMR AND STREET LIGHT
E	S35L1														1	F2.8										
A	S35L1		50	2	DF	A4.2	155	2	4 ACSR			1	E1.1				H1.1			G1.5	25	1	2-TPX		J2.1	REUSE XFMR AND STREET LIGHT. VERIFY OH SEC DE SIZE
E	S36	1556	45	2	DF												H1.1			G1.5	25	1	1/0-TPX		J2.1	
R	S36	1556				CAL1	320	3	4-0 ACSR																	REPLACE 3PH TANGENT NARROW FRAMING
R	S36	1556					320	1	1-0 ACSR																	
A	S36	1556				CAL1	320	3	336 ACSR																	REPLACE 3PH TANGENT NARROW FRAMING
A	S36	1556					320	1	4-0 ACSR																	
E	S37	1555	45	2	DF												H1.1			G1.5	15	1	1/0-TPX		J2.1	
R	S37	1555				CAL1	225	3	4-0 ACSR									1	S1.01							REPLACE XFMR CUTOUT (6K)
R	S37	1555					225	1	1-0 ACSR																	
A	S37	1555				CAL1	225	3	336 ACSR									1	S1.01							REPLACE XFMR CUTOUT (6K)
A	S37	1555					225	1	4-0 ACSR																	
R	S38	1476	45	2	DF	CAL1	200	3	4-0 ACSR								H1.1			G1.5	50	1 1 1	1/0-TPX 2-TPX 4-DPX		J2.1	REUSE XFMER
R	S38	1476					200	1	1-0 ACSR																	
R	S38	1476				A5.2		2	CU									1	S1.1							
R	S38	1476				A5.2		2	CU																	
A	S38		50	2	DF	CAL1		3	336 ACSR								H1.1			G1.5	50	1 1 1	1/0-TPX 2-TPX 4-DPX		J2.1	REUSE XFMER
A	S38							1	4-0 ACSR																	
A	S38					A5.2		2	4 ACSR									1	S1.1							10K FUSED TAP TO WEST
A	S38					A5.2		2	4 ACSR									1	R1.1							TRANSFER SEIMENS CMR RECLOSER FROM S38L1
R	S38L1	1485	40	1	DF	A4.2	185	2	CU									1	R1.1							TRANSFER SEIMENS CMR RECLOSER TO S38
R	S38L1	1485				A5.1		2	CU								H1.1	1	S1.1			1	4-DPX			REPLACE STREETLIGHT
A	S38L1		50	2	DF	A4.2	185	2	4 ACSR																	
A	S38L1					A5.1		2	CU								H1.1	1	S1.1			1	4-DPX			10K FUSED TAP, INSTALL NEW STREETLIGHT, 4-DPX SEC DE
R	S38R1	1482	35	2	DF	A1.1	330	2	4 ACSR																	
A	S38R1		45	2	DF	A4.2	330	2	4 ACSR			1	E1.1	5	1	F2.8										CUT INTO EXISTING LINE AND INSTALL 1 PH DDE. INSTALL DG & ANCHOR AS NEEDED.
E	S39	1475	45	2	DF																					
R	S39	1475				CAL1	280	3	4-0 ACSR																	REPLACE 3PH TANGENT NARROW FRAMING
R	S39	1475					280	1	1-0 ACSR																	
A	S39	1475				CAL1	280	3	336 ACSR																	REPLACE 3PH TANGENT NARROW FRAMING
A	S39	1475					280	1	4-0 ACSR																	
R	S41	1466	45	2	DF	CAL1	280	3	4-0 ACSR											G3.1	50,50,50	2 1 1	2-TPX 4/0-QPX 1/0-TPX		J2.1	REUSE 50KVA XFMRs REPLACE. RECONFIGURE TO REMOVE OH SEC (2-TPX) CROSSING. <u>VERIFY SECONDARY VOLTAGES.</u>
R	S41	1466					280	1	1-0 ACSR																	
R	S41	1466				C5.21		4	CU								H1.1	1	S1.3							
R	S41	1466				A5.2		2	4 ACSR									1	S1.1							
A	S41		50	2	DF	CAL1	280	3	336 ACSR											G3.1	50,50,50	1 1 1	2-TPX 4/0-QPX 1/0-TPX		J2.1	REUSE 50KVA XFMRs REPLACE. RECONFIGURE TO REMOVE OH SEC (2-TPX) CROSSING. <u>VERIFY SECONDARY VOLTAGES.</u>
A	S41						280	1	4-0 ACSR																	
A	S41					C5.21F		4	4 ACSR			1	E1.1	5	1	F2.8	H1.1	1	S1.3							15K FUSED TAP
A	S41					A5.2		2	4 ACSR									1	S1.1							10K FUSED TAP
R	S41L1	1467	40	4	DF	C5.21	135	4	4 ACSR			1	E1.1				H1.1			G3.3	50,50,15	1 1 1	2-TPX 4/0-QPX 4-DPX	135	J2.1	REUSE 50KVA XFMRs REPLACE 15 KVA W/ 50 KVA. REUSE STREETLIGHT. RECONFIGURE TO REMOVE OH SEC (2-TPX) CROSSING. <u>VERIFY SECONDARY VOLTAGES.</u>
E	S41L1														1	F2.8										
A	S41L1		50	2	DF	C5.21F	135	4	4 ACSR			1	E1.1				H1.1			G3.3	50,50,50	1 1 1	4/0-QPX 4-DPX		J2.1	REUSE 50KVA XFMRs REPLACE 15 KVA W/ 50 KVA. REUSE STREETLIGHT. RECONFIGURE TO REMOVE OH SEC (2-TPX) CROSSING. <u>VERIFY SECONDARY VOLTAGES.</u>
E	S42	1464	45	2	DF												H1.1									
R	S42	1464				CAL1	355	3	4-0 ACSR																	REPLACE 3PH TANGENT NARROW FRAMING
R	S42	1464					355	1	1-0 ACSR																	
R	S42	1464				A5.21	325	2	CU									1	S1.01							
A	S42	1464				CAL1	355	3	336 ACSR																	REPLACE 3PH TANGENT NARROW FRAMING
A	S42	1464					355	1	4-0 ACSR																	
A	S42	1464				A5.21	325	2	4 ACSR			1	E1.1	5	1	F2.8		1	S1.01							1 PH DE TO BE WOOD. 10K FUSED TAP. INSTALL DG & ANCHOR

MASON COUNTY PUD #1																										
OVERHEAD PROJECT: <u>VALLEY TO BOURGAULT OVERHEAD</u> DRAWING #S: <u>E1-E6</u>																		WO # <u>25005</u>				ACTION LEGEND: E=EXISTING R=REMOVE A=ADD				
DATE: <u>7/2/2025</u>																		REVISION: <u>0</u>								
Action	POLES					UNIT	CONDUCTOR			R-W CLEAR	LINE ANGLE (Deg)	GUY			ANCHOR		GROUND	#	MISC.	TRANSFORMER		SECONDARY				REMARKS
	STR #	MAP #	HT-CL-TYPE				Back Span (Ft)	#	Size Type			#	Type	Lead (Ft)	#	Type				UNIT	KVA	#	Size	Span (Ft)	Unit	
R	S42R1	1465	35	5	DF	A1.11	130	2	CU																	
A	S42R1		45	2	DF	A6.21	130	2	4 ACSR			1	E1.1	5	1	F2.8									CUT INTO EXISTING LINE AND INSTALL 1 PH DDE HORIZONTAL. INSTALL DG & ANCHOR AS NEEDED.	
E	S43	1459	45	2	DF																					
R	S43	1459				CAL1	240	3	4-0 ACSR			1	E1.1												REPLACE 3PH TANGENT NARROW FRAMING. REMOVE UNUSED GUY.	
R	S43	1459					240	1	1-0 ACSR																	
A	S43	1459				CAL1	240	3	336 ACSR																REPLACE 3PH TANGENT NARROW FRAMING	
A	S43	1459					240	1	4-0 ACSR																	
E	S44	1455	45	2	DF																1	4-DPX		J2.1		
R	S44	1455				CAL1	235	3	4-0 ACSR												1	4-DPX			REPLACE 3PH TANGENT NARROW FRAMING. RETIRE OH SEC 4-DPX TO SOUTH.	
R	S44	1455					235	1	1-0 ACSR																	
A	S44	1455				CAL1	235	3	336 ACSR								H1.1			G1.5	15				REPLACE 3PH TANGENT NARROW FRAMING, TRANSFER AND INSTALL 15KVA XFMR FROM S45. PICK UP OH SEC 4-DPX TO NORTH.	
A	S44	1455					235	1	4-0 ACSR																	
R	A1	1454																			1 1	4-DPX 4-DPX	130	J2.1	RETIRE POLE, HPS STREETLIGHT, OH SEC 4-DPX TO NORTH AND SOUTH.	
R	S44A	5411	45	2	DF	CAL1	155	3	4-0 ACSR																	
R	S44A	5411					155	1	1-0 ACSR																	
R	S44A	5411				C5.21		4	4 ACSR								H1.1	1	S1.3							
A	S44A		50	2	DF	CAL1	155	3	336 ACSR																INSTALL 3PH TANGENT NARROW FRAMING	
A	S44A						155	1	4-0 ACSR																	
A	S44A					C5.21F			4 ACSR			1	E1.1	5	1	F2.8	H1.1	1	S1.3						INSTALL DG & ANC TO BACKUP 3PH FB DE CROSSING. 25K FUSED 3PH TAP.	
R	S44AL1	5397	45	2	DF	C5.21	100	4	4 ACSR								H1.1									
R	S44AL1	5397				A5.2		2	CU									1	S1.1							
A	S44AL1		50	2	DF	C5.21F	100	4	4 ACSR			1	E1.1	5	1	F2.8	H1.1								INSTALL DG & ANC. INSTALL 3PH FG DE.	
A	S44AL1					A5.2		2	4 ACSR									1	S1.1						10K FUSED TAP	
R	S44AL2	1452	40	2	DF	A5.1	210	2	CU			1	E1.1							G1.5	15	2	2-TPX		J2.1	REUSE EXISTING XFMR
E	S44AL2														1	F2.8										
A	S44AL2		45	2	DF	A5.1	210	2	4 ACSR			1	E1.1							G1.5	15	2	2-TPX		J2.1	REUSE EXISTING XFMR
R	S45	1451	45	2	DF	C6.21	160	3	4-0 ACSR								H1.1	1	S1.3	G1.5	15	1	4-DPX	181	J2.1	RETIRE SOLID BLADE CUTOUTS AND OH SEC 4-DPX TO NORTH. TRANSFER 15KVA XFMR TO POLE.
R	S45	1451					160	1	1-0 ACSR																	
A	S45		50	2	DF	C6.21F	160	3	336 ACSR								H1.1								INSTALL 3PH FG DDE	
A	S45						160	1	4-0 ACSR																	
R	S46	1450	45	4	DF	CAL2		3	4-0 ACSR																	
R	S46	1450						1	1-0 ACSR																	
E	S46												PUSH												PUSH POLE TO REMAIN	
A	S46					CAL2		3	336 ACSR																INSTALL 3PH SM ANGLE FRAMING (TWIGGY).	
A	S46							1	4-0 ACSR																	
R	S47	5905	45	2	DF	CAL4		3	4-0 ACSR			2	E1.4													
R	S47	5905						1	1-0 ACSR																	
A	S47		50	2		CAL4		3	336 ACSR			2	E1.4	120											INSTALL 3PH ALLEY STYLE TWIGGY & SPAN GUY TO S47GS	
A	S47							1	4-0 ACSR																	
R	S47GS	1449	35	4	DF		120					1	E1.1												REPLACE SPAN GUY POLE	
E	S47GS														1	F2.8										
A	S47GS		45	2	DF		120					1	E1.1												REPLACE SPAN GUY POLE	

MASON COUNTY PUD #1																										
OVERHEAD PROJECT: <u>VALLEY TO BOURGAULT OVERHEAD</u> DRAWING #S: <u>E1-E6</u>																		WO # <u>25005</u>		ACTION LEGEND: E=EXISTING R=REMOVE A=ADD						
DATE: <u>7/2/2025</u>																		REVISION: <u>0</u>								
Action	POLES					UNIT	CONDUCTOR			R-W CLEAR	LINE ANGLE (Deg)	GUY			ANCHOR		GROUND	#	MISC.	TRANSFORMER		SECONDARY				REMARKS
	STR #	MAP #	HT-CL-TYPE				Back Span (Ft)	#	Size Type			#	Type	Lead (Ft)	#	Type				UNIT	KVA	#	Size	Span (Ft)	Unit	
R	S48	1442	45	2	DF	3PH ALLEY	315	3	4-0 ACSR																	
R	S48	1442					315	1	1-0 ACSR																	
R	S48	1442				C5.21		3	4-0 ACSR			1	E1.1				H1.1			G1.4	5	1	4-DPX		J2.1	RETIRE XFMR
R	S48	1442						1	1-0 ACSR			1	E1.1													
E	S48													1	F2.8											
A	S48		50	2	DF	3PH ALLEY	315	3	336 ACSR																	
A	S48						315	1	4-0 ACSR																	
A	S48					C5.21F		3	4-0 ACSR			1	E1.1				H1.1			G1.4	5	1	4-DPX		J2.1	TRANSFER XFMR FROM S51
A	S48							1	1-0 ACSR			1	E1.1													
R	U1	5709	45	2	DF	C6.21	150	3	4-0 ACSR								H1.1	1	GOS							TRANSFER GOS TO S64A
R	U1	5709					150	1	1-0 ACSR									1	R3.3							REUSE/REINSTALL EXISTING RECLOSER
A	U1	5709	50	2	DF	C6.21F	150	3	4-0 ACSR								H1.1	1	R3.3							INSTALL PRE-FAB 3-PHASE BY-PASS SWITCHES. 'REUSE/REINSTALL EXISTING RECLOSER
A	U1	5709					150	1	1-0 ACSR																	
R	S48A	5720	45	2	DF	C6.21	375	3	4-0 ACSR										S2.32							REUSE AND RECONFIGURE WITH UNDERGROUND RISER.
R	S48A	5720			DF		375	1	1-0 ACSR																	
A	S48A		50	2	DF	C5.21F	375	3	336 ACSR			1	E1.1	25	1	F2.8										INSTALL NEW DGS AND ANCS.
A	S48A				DF		375	1	4-0 ACSR			1	E1.1	18	1	F2.8										REUSE AND RECONFIGURE WITH UNDERGROUND RISER. SEE UG STAKING SHEETS
R	S49	1440	45	4	DF	C1.13	385	3	4-0 ACSR																	
R	S49	1440					385	1	1-0 ACSR																	
R	S50	1439	40	4	DF	C1.13	405	3	4-0 ACSR																	
R	S50	1439					405	1	1-0 ACSR																	
R	S51	1438	40	4	DF	C1.13	425	3	4-0 ACSR								H1.1			G1.4	5					TRANSFER 5 KVA TO POLE S48
R	S51	1438					425	1	1-0 ACSR																	
R	S51C1	5328	35	4	DF																					ABANDONED SECONDARY POLE
R	S52	5033	40	2	DF	C1.13	375	3	4-0 ACSR																	
R	S52	5033					375	1	1-0 ACSR																	
R	S53	1436	40	4	DF	C1.13	320	3	4-0 ACSR																	
R	S53	1436					320	1	1-0 ACSR																	
R	S54	1435	45	4	DF	C2.21L	405	3	4-0 ACSR																	
R	S54	1435					405	1	1-0 ACSR																	
R	S55	1434	35	4	DF	C1.13	400	3	4-0 ACSR																	
R	S55	1434					400	1	1-0 ACSR																	
R	S56	1433	35	4	DF	C1.13	280	3	4-0 ACSR																	
R	S56	1433					280	1	1-0 ACSR																	
R	S57	1431	55	4	DF	3PH ALLEY	415	3	4-0 ACSR			1	E1.4	75												
R	S57	1431					415	1	1-0 ACSR																	
R	S57GS	1432	30	6	DF		75					1	E1.1													
R	S58	1430	50	2	DF	C2.21L	360	3	4-0 ACSR																	
R	S58	1430					360	1	1-0 ACSR																	
R	S59	1429	45	2	DF	C1.13	380	3	4-0 ACSR																	
R	S59	1429					380	1	1-0 ACSR																	
R	S59A	1428	50	4	DF	C1.13	295	3	4-0 ACSR																	
R	S59A	1428					295	1	1-0 ACSR																	
R	S60	1426	40	4	DF	C2.21L	340	3	4-0 ACSR			1	E1.4	75												
R	S60	1426					340	1	1-0 ACSR																	
R	S60GS	1427	30	4	DF							1	E1.1													
R	S61	1425	50	4	DF	C1.13	435	3	4-0 ACSR								H1.1			G1.4	15	1	2-TPX		J2.1	
R	S61	1425					435	1	1-0 ACSR																	
E	S61A1	5180	30	4	DF																	1	2-TPX		J2.1	
R	S61A1	5180																				1	2-TPX	120		REMOVE 2-TPX OH FROM CROSSING
R	S62	5788	45	2	DF	C1.13	420	3	4-0 ACSR																	
R	S62	5788					420	1	1-0 ACSR																	
R	S63	1423	50	2	DF	C2.21L	395	3	4-0 ACSR																	
R	S63	1423					395	1	1-0 ACSR																	
R	S64	1422	45	4	DF	C6.21	280	3	4-0 ACSR								H1.1	1	S1.3							RETIRE SOLID BLADE. RETIRE OH TO THE NORTH.
R	S64	1422					280	1	1-0 ACSR																	
A	S64		50	2	DF	C5.21F		3	336 ACSR																	
A	S64				DF			1	4-0 ACSR																	

MASON COUNTY PUD #1																										
OVERHEAD PROJECT: <u>VALLEY TO BOURGAULT OVERHEAD</u> DRAWING #S: <u>E1-E6</u>																		WO # <u>25005</u>				ACTION LEGEND: E=EXISTING R=REMOVE A=ADD				
DATE: <u>7/2/2025</u>																		REVISION: <u>0</u>								
Action	POLES					UNIT	CONDUCTOR			R-W CLEAR	LINE ANGLE (Deg)	GUY			ANCHOR		GROUND	#	MISC.	TRANSFORMER		SECONDARY				REMARKS
	STR #	MAP #	HT-CL-TYPE				Back Span (Ft)	#	Size Type			#	Type	Lead (Ft)	#	Type				UNIT	KVA	#	Size	Span (Ft)	Unit	
			HT	CL	TYPE																					
A	S64A		50	2	DF	C6.21F	400	3	336 ACSR									1	S2.32							INSET NEW POLE. TRANSFER GOS FROM U1
A	S64A				DF		400	1	4-0 ACSR																	
R	S65	20008	50	2	DF	C2.52	480	3	4-0 ACSR																	INSTALL NEW POLE ~ 10' CLOSER TO ROW TO REDUCE LINE ANGLE
R	S65	20008					480	1	1-0 ACSR																	
R	S65	20008				C5.21		4	1-0 ACSR			1	E1.1					1	S1.3							
E	S65													1	F2.8											
A	S65		50	2	DF	C1.13	80	3	336 ACSR																	INSTALL NEW POLE ~ 10' CLOSER TO ROW TO REDUCE LINE ANGLE
A	S65						80	1	4-0 ACSR																	
A	S65					C5.21F		4	1-0 ACSR			1	E1.1					1	S1.3							INSTALL 3PH FG DE W/ 40K FUSED TAP
E	S65R1A	20009	45	2	DF	C6.21	150	4	1-0 ACSR																	RESAG BACK TO S65 ONLY
R	S66	1388	45	4	DF	C2.21L	280	3	4-0 ACSR			1	E1.4	65			H1.1			G1.4	10	1	2-TPX		J2.1	RETIRE XFMR
R	S66	1388					280	1	1-0 ACSR																	
R	S66	1388				A5.2		2	CU																	
A	S66		50	2	DF	C2.21L	280	3	336 ACSR			1	E1.4	65			H1.1			G1.4	25	1	2-TPX		J2.1	NEW XFMR
A	S66						280	1	4-0 ACSR																	
A	S66					A5.2		2	4 ACSR									1	S1.01							10K FUSED TAP
R	S66GS	1390	35	6	DF		65					1	E1.1													
E	S66GS														1	F2.8										REUSE ANCHOR IF POSSIBLE
A	S66GS		45	2	DF		65					1	E1.1	5	1	F2.8										REUSE ANCHOR IF POSSIBLE
R	S66A1	1389	25	6	DF		65															1	2-TPX	65	J2.1	REMOVE EXCESSIVE SECONDARY SAG
A	S66A1		40	2			65															1	2-TPX	65	J2.1	REMOVE EXCESSIVE SECONDARY SAG
R	S66R1	1391	40	4	DF	A4.2	160	2	CU			1	E1.1													
E	S66R1														1	F2.8										
A	S66R1		45	2	DF	A4.2	160	2	4 ACSR			1	E1.1													
R	S67	5102	45	2	DF	C6.21	400	3	4-0 ACSR			1	E1.4	65			H1.1	1	S1.3	G1.4	10	1				RETIRE SOLID BLADE. REUSE XFMR
R	S67	5102					400	1	1-0 ACSR																	
A	S67		50	2	DF	C1.13L	400	3	336 ACSR			1	E1.4	65			H1.1			G1.4	10					
A	S67						400	1	4-0 ACSR																	
R	S67GS	1386	35	6	DF		65					1	E1.1													
E	S67GS														1	F2.8										REUSE ANCHOR IF POSSIBLE
A	S67GS		45	2	DF		65					1	E1.1	5	1	F2.8										REUSE ANCHOR IF POSSIBLE
R	S68	1383	50	4	DF	C1.13L	490	3	4-0 ACSR																	
R	S68	1383					490	1	1-0 ACSR																	
R	S68	1383				A5.2		2	4 ACSR								H1.1	1	S1.1			2	4-TPX		J2.1	
A	S68		55	2	DF	C2.21L	490	3	336 ACSR																	
A	S68						490	1	4-0 ACSR																	
A	S68					A5.2		2	4 ACSR			1	E1.1	5	1	F2.8	H1.1	1	S1.1			2	4-TPX		J2.1	10K FUSED TAP. INSTALL DG & ANC
R	S68R1	1384	40	2	DF	A5.1	140	2	4 ACSR			1	E1.1				H1.1			G1.5		1	4-TPX	140		
E	S68R1														1	F2.8										
A	S68R1		50	2	DF	A5.1	140	2	4 ACSR			1	E1.1				H1.1			G1.5		1	4-TPX	140		
R	S69	1381	50	4	DF	C1.13	370	3	4-0 ACSR								H1.1			G1.5	10	1	1/0-TPX		J2.1	REUSE XFMR
R	S69	1381					370	1	1-0 ACSR																	
A	S69		55	2	DF	C1.13	370	3	336 ACSR								H1.1			G1.5	10	1	1/0-TPX		J2.1	REUSE XFMR
A	S69						370	1	4-0 ACSR																	
R	S70	1376	55	2	DF	C1.13	340	3	4-0 ACSR																	
R	S70	1376					340	1	1-0 ACSR																	
R	S70	1376				A5.2		2	4 ACSR								H1.1									
A	S70		60	2	DF	C1.13	340	3	336 ACSR																	
A	S70						340	1	4-0 ACSR																	
A	S70					A5.2		2	4 ACSR			1	E1.1	10	1	F2.8	H1.1	1	S1.1							10K FUSED TAP. INSTALL DG & ANC
R	S70R1	1377	40	4	DF	A4.2	100	2	4 ACSR			1	E1.1	15			H1.1	1	S1.1							FUSED TAP MOVES TO TAKE-OFF POLE
E	S70R1														1	F2.8										
A	S70R1		50	2	DF	A4.2	100	2	4 ACSR			1	E1.1	15			H1.1									
R	S71	1375	55	2	DF	C1.13	315	3	4-0 ACSR																	
R	S71	1375			DF		315	1	1-0 ACSR																	
A	S71		60	H1	DF	C6.21F	315	3	336 ACSR																	
A	S71				DF		315	1	4-0 ACSR																	
R	S72	1325	55	2	DF	C2.21L	390	3	4-0 ACSR								H1.1			G1.4	25	1	2-TPX		J2.1	REUSE XFMR
R	S72	1325					390	1	1-0 ACSR																	
A	S72		60	H1	DF	C6.21F	390	3	336 ACSR											G1.4	25	1	2-TPX		J2.1	REUSE XFMR
A	S72						390	1	4-0 ACSR								H1.1									

MASON COUNTY PUD #1

OVERHEAD PROJECT: VALLEY TO BOURGAULT OVERHEAD
DRAWING #'S: E1-E6

WO # 25005

**ACTION LEGEND: E=EXISTING
R=REMOVE
A=ADD**

DATE: 7/2/2025REVISION: 0[illegible]

