

**ADDENDUM #1**

8/29/2022	15:51:41	<b>CHUGACH ELECTRIC ASSOCIATION, INC.</b> <b>ASSEMBLY UNITS BID SHEET</b>	Page 3 of 3
<b>Project: E2114024</b> <b>ROMIG LOOP SYSTEM IMPROVEMENTS</b>			<b>In Construction</b> Contractor: _____

Assembly Unit	Proposed Quantity	Actual Quantity	Labor	Material	Labor & Material	Extended Labor & Material
* 1/0 CONC 3 PH	1.380 <del>4.650</del>					
* 2 BACU	0.280 <del>0.550</del>					
* SUG17A-150	1.000					
* SUM1B	1.000					
* SUM1-CA	1.000					
* SUM1F	1.000					
* SUM6-1C 1 PH	2.000					
* SUM6-1C 3 PH	2.000					
* SUM6-25C 3 PH	1.000					
* SUM6-28C 3 PH	5.000					
* SUME690P4	2.000					
* 1/0 CONC	0.144					
* 1/0 CONC 3 PH	1.863					
* 2 BACU	0.765					
* SUM6-28C 1 PH	2.000					

Total Extended Labor & Material This Page  
 Total Extended Labor & Material Previous Page  
 Total Extended Labor & Material

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**ADDENDUM #1**

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Project: E2114024		Design: ROMIG LOOP SYSTEM IMPROVEMENTS	In Construction
ROMIG LOOP SYSTEM IMPROVEMENTS			Grid:

**Structure: 00. GENERAL**

Assembly Unit	Activity	#Cond	Qty	Unit Description	Complete	Qty
MANHOURS	Install	0	70	MANHOURS (MANHOUR OF LABOR)		
SURL	Install	0	1	SURL (LANDSCAPING)		
SWPPP-BP	Install	0	1	SWPPP-BP (STORM WATER PLAN - BP)		
Traffic Control	Install	0	1	Traffic Control (Traffic Control)		
<b>GENERATOR</b>	<b>INSTALL</b>		<b>1</b>			

Remarks: - MANHOURS FOR INSPECTOR'S DISCRETION & RESTORATION OF ASPHALT, CONCRETE, & CURB.  
 - TCP FOR SIDEWALK CLOSURE. **- PROVIDE GENERATOR FOR OUTAGE AT PM9306**  
 - SURL TO RESTORE LANDSCAPING WITHIN PROJECT LIMITS.

**Structure: 01. SC 173M**

Assembly Unit	Activity	#Cond	Qty	Unit Description	Complete	Qty
SUM6-25D 3 PH	Install	0	1	SUM6-25D (4/0 PRIMARY TERMINATION)		
SUM6-4EL	Install	0	1	3-PH UG CURNT RESET FI, 600A TRIP		
SUM6-4EL	Install	0	1	3-PH UG CURNT RESET FI, 600A TRIP		

Remarks: - SC 173M PMH9 600A TO BE INSTALLED UNDER P2000006.  
 - TERMINATE IN COMP. 4 FUSE AT 100E.  
 - INSTALL FI AT COMP. 2.

**Structure: 02. VAULT 9614 (92E)**

Assembly Unit	Activity	#Cond	Qty	Unit Description	Complete	Qty
2 BACU	Install	1	270	2 BACU Wire (#2 BARE COPPER NEUTRAL)		
4/0 SHLD 3 PH	Install	3	270	4/0 SHLD 3 PH PRIMARY		
CLEAN CNDT	Install	1	270	CLEAN CNDT (MANDREL & SWAB)		
SUM6-28D 3 PH	Install	0	1	SUM6-28D (4/0 PRIMARY SPLICE)		
SUM5024H	Existing	1	270	SUM5024H - Conduit ((2) 4" HDPE CONDUIT)		
SUMH-610	Existing	0	1	PULL VAULT - 6X10		

Remarks: - VAULT & CONDUIT SYSTEM TO BE INSTALLED UNDER P2000006.  
 - SEE VAULT DETAIL ON PAGE 2 OF DRAWINGS FOR WIRING DETAILS.

**Structure: 03. SC 1177**

Assembly Unit	Activity	#Cond	Qty	Unit Description	Complete	Qty
2 BACU	Install	1	230	2 BACU Wire (#2 BARE COPPER NEUTRAL)		
4/0 SHLD 3 PH	Install	3	230	4/0 SHLD 3 PH PRIMARY		
CLEAN CNDT	Install	1	140	CLEAN CNDT (MANDREL & SWAB)		
SHUR2-5	Install	1	10	SHUR2-5 (PRIMARY TRENCH HAND-DIG)		
SUM1F	Install	0	1	SUM1F (CONCRETE PAD 600 A SWITCH CAB.)		
SUM1-GPA	Install	0	1	SUM1-GPA (GUARD POST W/SLEEVE)		
SUM1-GPA	Install	0	1	SUM1-GPA (GUARD POST W/SLEEVE)		
SUM1-GPA	Install	0	1	SUM1-GPA (GUARD POST W/SLEEVE)		
SUM1-GPA	Install	0	1	SUM1-GPA (GUARD POST W/SLEEVE)		
SUM3-9	Install	0	1	SUM3-9 (600 A SC 2 FUSES 2 SWITCHES)		
SUM5016H	Install	1	90	SUM5016H - Conduit ((1) 6" HDPE CONDUIT)		
SUM6-25C 1 PH	Install	0	1	SUM6-25C (1/0 PRIMARY TERMINATION)		
SUM6-25D 3 PH	Install	0	1	SUM6-25D (4/0 PRIMARY TERMINATION)		
SUM6-25D 3 PH	Install	0	1	SUM6-25D (4/0 PRIMARY TERMINATION)		
SUM6-36A	Install	0	1	SUM6-36A (FUSE, S&C END FITTING SML-20)		
SUM6-4EL	Install	0	1	3-PH UG CURNT RESET FI, 600A TRIP		
SUME645F5	Install	0	2	SUME645F5 (6" FG 45 60")		
SUME690F5	Install	0	1	SUME690F5 (6" FG 90 60")		
SUR2-5	Install	1	80	SUR2-5 (PRIMARY TRENCH)		
SURCP	Install	1	90	SURCP (PARKING LOT CROSSING)		
SUM5016P	Existing	1	140	SUM5016P - Conduit ((1) 6" PVC CONDUIT)		

Remarks: - USE SUME690F5 TO INTERCEPT EXISTING (2) 6" GOING SOUTH TO VAULT 91E AND SPLICE NEW (2) 6" HDPE TO EXTEND INTO SC 1177. USE SHUR2-5 TO EXPOSE END OF EXISITNG CONDUIT.  
 - TERMINATE NEW 4/0 CONC IN COMP 1.  
 - INSTALL FAULT INDICATOR IN COMP 2.

**Structure: 04. PM 9306**

Assembly Unit	Activity	#Cond	Qty	Unit Description	Complete	Qty
1/0 CONC	Install	1	70	1/0 CONC Wire (1/0 CONCENTRIC PRIMARY)		
SHUR2-5	Install	1	30	SHUR2-5 (PRIMARY TRENCH HAND-DIG)		
SUM5022H	Install	1	70	SUM5022H - Conduit ((2) 2" HDPE CONDUIT)		
SUM6-10	Install	0	1	SUM6-10 (200A BUSHING CAP)		
SUM6-15	Install	0	1	SUM6-15 (200A PARKING STAND)		
SUM6-1C 1 PH	Install	0	1	SUM6-1C (1/0 LB ELBOW TERMINATION-15KV)		

Chugach Electric Association 5601 Electron Drive Anchorage, AK 99518	Designer/Project Engineer _____ Date ____/____/____ Checker _____ Date ____/____/____ Manager/Supervisor _____ Date ____/____/____
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Project: E2114024	Design: ROMIG LOOP SYSTEM IMPROVEMENTS		In Construction
ROMIG LOOP SYSTEM IMPROVEMENTS			Grid:

**Structure:** 04. PM 9306

Assembly Unit	Activity	#Cond	Qty	Unit Description	Complete	Qty
SUR2-5	Install	1	40	SUR2-5 (PRIMARY TRENCH)	[ ]	[ ]
SURCP	Install	1	70	SURCP (PARKING LOT CROSSING)	[ ]	[ ]
SUG6-50	Existing	0	1	SUG6-50 (XFMR, PM, 50 KVA, 1 PH, RADIAL)	[ ]	[ ]

Remarks: - INSTALL NEW 1/0 CONC IN 2" HDPE W/ SPARE. TERMINATE IN COMP 3 AT SC 1177.  
 - AØ FUSE AT 40E.  
 - USE SHUR2-5 TO TRENCH ACROSS EXISTING BURIED FUEL VENT PIPES.

\*\*\*RETURN TO SC 1177\*\*\*

**Structure:** 05. VAULT 9614 (92E)

Assembly Unit	Activity	#Cond	Qty	Unit Description	Complete	Qty
2 BACU	Install	1	230	2 BACU Wire (#2 BARE COPPER NEUTRAL)	[ ]	[ ]
4/0 SHLD 3 PH	Install	3	230	4/0 SHLD 3 PH PRIMARY	[ ]	[ ]
CLEAN CNDT	Install	1	140	CLEAN CNDT (MANDREL & SWAB)	[ ]	[ ]
SUM5016H	Install	1	90	SUM5016H - Conduit ((1) 6" HDPE CONDUIT)	[ ]	[ ]
SUM6-28D 3 PH	Install	0	1	SUM6-28D (4/0 PRIMARY SPLICE)	[ ]	[ ]
SUME690F5	Install	0	1	SUME690F5 (6" FG 90 60")	[ ]	[ ]
SUM5016P	Existing	1	140	SUM5016P - Conduit ((1) 6" PVC CONDUIT)	[ ]	[ ]

Remarks: - SEE VAULT DETAIL ON PAGE 2 OF DRAWINGS & SC SHEETS FOR CABLE SPLICING/TERMINATION DETAILS.  
 - USE GS3 STRAP KITS TO SPLICE NEUTRAL WIRE.  
 - JOINT TRENCH WITH WL. 03. SC 1177.

**Structure:** 06. PP 9525 (93C)

Assembly Unit	Activity	#Cond	Qty	Unit Description	Complete	Qty
2 BACU	Install	1	315	2 BACU Wire (#2 BARE COPPER NEUTRAL)	[ ]	[ ]
4/0 SHLD 3 PH	Install	3	315	4/0 SHLD 3 PH PRIMARY	[ ]	[ ]
BORE	Install	1	180	BORE	[ ]	[ ]
SHUR2-5	Install	1	30	SHUR2-5 (PRIMARY TRENCH HAND -DIG)	[ ]	[ ]
SUM5024H	Install	1	315	SUM5024H - Conduit ((2) 4" HDPE CONDUIT)	[ ]	[ ]
SUM6-28D 3 PH	Install	0	1	SUM6-28D (4/0 PRIMARY SPLICE)	[ ]	[ ]
SUME445F4	Install	0	6	SUME445F4 (4" FG 45 48")	[ ]	[ ]
SUME490F5	Install	0	6	SUME490F5 (4" FG 90 60")	[ ]	[ ]
SUR2-5	Install	1	105	SUR2-5 (PRIMARY TRENCH)	[ ]	[ ]
SURCR	Install	1	20	SURCR (STATE/MOA ROAD CROSSING)	[ ]	[ ]
SUM1F	Existing	0	1	SUM1F (CONCRETE PAD 600 A SWITCH CAB.)	[ ]	[ ]

Remarks: - PP 9525 (93C) IS A SWITCH CABINET PAD.  
 - SEE VAULT DIAGRAM ON PAGE 2 OF DRAWINGS FOR WIRING DETAILS.  
 - USE GS3 STRAP KITS TO SPLICE NEUTRAL WIRE.  
 - USE (2) SUME445F4 TO SWEEP OUT OF VAULT 92E & INTO THE EASEMENT IMMEDIATELY IF POSSIBLE.  
 - SHUR2-5 PROVIDED FOR HAND DIGGING NEAR EXISTING UNDEGROUND FACILITIES.

**Structure:** 07. SC 173M

Assembly Unit	Activity	#Cond	Qty	Unit Description	Complete	Qty
<del>SUM6-25C 3 PH</del>	<del>Remove</del>	<del>0</del>	<del>1</del>	<del>SUM6-25C (1/0 PRIMARY TERMINATION)</del>	<del>[ ]</del>	<del>[ ]</del>

Remarks:

**Structure:** 08. VAULT 9614 (92E)

Assembly Unit	Activity	#Cond	Qty	Unit Description	Complete	Qty
<del>1/0 CONC 3 PH</del>	<del>Remove</del>	<del>3</del>	<del>270</del>	<del>1/0 CONC 3 PH (1/0 CONCENTRIC PRIMARY)</del>	<del>[ ]</del>	<del>[ ]</del>
<del>2 BACU</del>	<del>Remove</del>	<del>1</del>	<del>270</del>	<del>2 BACU Wire (#2 BARE COPPER NEUTRAL)</del>	<del>[ ]</del>	<del>[ ]</del>
<del>SUM6-28C 3 PH</del>	<del>Remove</del>	<del>0</del>	<del>1</del>	<del>SUM6-28C (1/0 PRIMARY SPLICE-15KV)</del>	<del>[ ]</del>	<del>[ ]</del>

Remarks: ~~- RETIRE SPLICE & REMOVE 3PH 1/0 SHLD W/ #2 BACU (REPRESENTED ON STAKING SHEET AS 1/0 CONC) FROM EXIST. 4" HDPE BETWEEN SC 173M & VAULT 92E.~~

**Structure:** 09. VAULT 91E

Assembly Unit	Activity	#Cond	Qty	Unit Description	Complete	Qty
1/0 CONC 3 PH	Remove	3	140	1/0 CONC 3 PH (1/0 CONCENTRIC PRIMARY)	[ ]	[ ]
2 BACU	Remove	1	140	2 BACU Wire (#2 BARE COPPER NEUTRAL)	[ ]	[ ]
SUM1-CA	Remove	0	1	SUM1-CA (SUM1F METAL PAD COVERING)	[ ]	[ ]
SUM1F	Remove	0	1	SUM1F (CONCRETE PAD 600 A SWITCH CAB.)	[ ]	[ ]
SUM6-28C 3 PH	Remove	0	1	SUM6-28C (1/0 PRIMARY SPLICE-15KV)	[ ]	[ ]
SUME690P4	Remove	0	2	SUME690P4 (6" PVC 90 48")	[ ]	[ ]

Chugach Electric Association 5601 Electron Drive Anchorage, AK 99518	Designer/Project Engineer _____ Date ____/____/____ Checker _____ Date ____/____/____ Manager/Supervisor _____ Date ____/____/____
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