

ADDENDUM #1

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|--------------------------------------------------------|---------|------------------------------------------------------------------------------|---------------------------------------------|
| 5/10/2022 | 9:16:48 | CHUGACH ELECTRIC ASSOCIATION, INC. ASSEMBLY UNITS BID SHEET | Page 2 of 3 |
| Project: P2000006 MINNESOTA DR. AT 27TH AVE. | | | In Construction Contractor: _____ |

| Assembly Unit | Proposed Quantity | Actual Quantity | Labor | Material | Labor & Material | Extended Labor & Material |
|--------------------------|-------------------|-----------------|-------|----------|------------------|---------------------------|
| 1/0 CONC 3 PH | 0.810 | | | | | |
| 2 BACU | 0.270 | | | | | |
| 4/0 BACU | 0.230 | | | | | |
| 4/0 CONC | 0.045 | | | | | |
| 750 CONC 15KV | 2.340 | | | | | |
| BORE | 0.480 | | | | | |
| CLEAN CNDT | 0.230 | | | | | |
| MANHOURS | 120.000 | | | | | |
| R&R | 1.000 | | | | | |
| SHUR2-5 | 0.085 | | | | | |
| STAG-2 | 3.000 | | | | | |
| SUM1F | 1.000 | | | | | |
| SUM3-9 | 1.000 | | | | | |
| SUM5014H | 0.550 | | | | | |
| SUM5016P | 0.015 | | | | | |
| SUM5024H | 0.270 | | | | | |
| SUM5026H | 0.550 | | | | | |
| SUM5026P | 0.010 | | | | | |
| SUM6-1D 3 PH | 1.000 | | | | | |
| SUM6-25C 3 PH | 2.000 | | | | | |
| SUM6-25D 3 PH | 1.000 | | | | | |
| SUM6-25F 3 PH | 3.000 | | | | | |
| SUM6-28C 3 PH | 4.000 | | | | | |
| SUM6-28F 3 PH | 2.000 | | | | | |
| SUM6-36A | 6.000 | | | | | |
| SUM6-4EL | 1.000 | | | | | |
| SUM6-6 | 4.000 | | | | | |
| SUME445F4 | 1.000 | | | | | |
| SUME490F3 | 3.000 | | | | | |
| SUME490F5 | 1.000 | | | | | |
| SUME630F5 | 4.000 | | | | | |

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



In Construction
STAKING SHEET

for

PROJECT: P2000006

MINNESOTA DR. AT 27TH AVE.

Work Request: P2000006
Design: MINNESOTA DR. AT 27TH AVE.
Capital Account: 10720/000/03/7665
Reimbursible Account: / / /
Retirement Account: 10880/326/03/7665
Work Plan No:
Project Type: Relocation-Agency
Work Order Number: GRID 1528/1529

Reviewed by Designer/Project Engineer:  Date: 5/10/22
Moritz Salvavera
Reviewed by Supervisor/Manager:  Date: 5/10/22
Supervisor

Remarks:

***** SWITCH CABINETS IN THIS PROJECT WILL BE RENUMBERED WITH AN "M" SUFFIX. PLEASE FILL OUT MISSING INFORMATION (ie. Manufacturer's name, serial number, etc.) ON THE SWITCH CABINET SHEETS PROVIDED IF AVAILABLE IN THE FIELD FOR THE FOLLOWING SWITCH CABINETS: SC 1M (SC-1), SC 43M (SC-43), SC 202M (SC-202)

~~***** ALL 3PH 1/0 SHLD WILL BE REPLACED WITH 3PH 4/0 SHIELD WITH PARALLEL #2 BACU UNDER E2114024 -- ROMIG LOOP SYSTEM IMPROVEMENTS.~~

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|----------------------------------------------------------------------------|-------|------------------|
| Chugach Electric Association 5601 Electron Drive Anchorage, AK 99518 | | |
| Designer | _____ | Date ___/___/___ |
| Checker | _____ | Date ___/___/___ |
| Manager | _____ | Date ___/___/___ |

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|----------------------------|---------|------------------------------------|-----------------|
| 5/10/2022 | 9:15:33 | STAKING SHEET | Page 2 of 4 |
| Project: P2000006 | | Design: MINNESOTA DR. AT 27TH AVE. | In Construction |
| MINNESOTA DR. AT 27TH AVE. | | | Grid: |

Structure: 00. GENERAL

| Assembly Unit | Activity | #Cond | Qty | Unit Description | Complete | Qty |
|---------------|----------|-------|-----|-------------------------------------------|----------|-----|
| MANHOURS | Install | 0 | 120 | MANHOURS (MANHOUR OF LABOR) | | |
| R&R | Install | 0 | 1 | R&R FENCE/TEMP (R&R FENCE AND TEMP FENCE) | | |
| SURL | Install | 0 | 1 | SURL (LANDSCAPING) | | |
| SWPPP-BP | Install | 0 | 1 | SWPPP-BP (STORM WATER PLAN - BP) | | |

Remarks: - MANHOURS ARE FOR INSPECTOR'S DISCRETION.
 - SURL TO RESTORE LANDSCAPING WITHIN CEA PROJECT LIMITS.
 - PAVEMENT/SIDEWALK RESTORATION INCIDENTAL TO PROJECT.

Structure: 01. 72A

| Assembly Unit | Activity | #Cond | Qty | Unit Description | Complete | Qty |
|---------------|----------|-------|-----|-----------------------------------|----------|-----|
| SUM6-28F 3 PH | Install | 0 | 1 | SUM6-28F (750 MCM PRIMARY SPLICE) | | |
| SUM6-28F 3 PH | Remove | 0 | 1 | SUM6-28F (750 MCM PRIMARY SPLICE) | | |

Remarks: - UTILIZE GS3 NEUTRAL STRAP KITS FOR GOING CONC TO SHLD

Structure: 02. SC-173M (SC-173)

| Assembly Unit | Activity | #Cond | Qty | Unit Description | Complete | Qty |
|--------------------------|--------------------|--------------|--------------|-----------------------------------------------|----------|-----|
| 4/0 BACU | Install | 1 | 230 | 4/0 BACU Wire (4/0 BARE COPPER NEUTRAL) | | |
| 750 CONC 15KV | Install | 3 | 230 | 750 CONC 15KV (WIRE, AL JCN 750MCM EPR) | | |
| CLEAN CNDT | Install | 1 | 215 | CLEAN CNDT (MANDREL & SWAB) | | |
| SUM1F | Install | 0 | 1 | SUM1F (CONCRETE PAD 600 A SWITCH CAB.) | | |
| SUM3-9 | Install | 0 | 1 | SUM3-9 (600 A SC 2 FUSES 2 SWITCHES) | | |
| SUM5016P | Install | 1 | 15 | SUM5016P - Conduit ((1) 6" PVC CONDUIT) | | |
| SUM6-25C 3 PH | Install | 0 | 1 | SUM6-25C (1/0 PRIMARY TERMINATION) | | |
| SUM6-25D 3 PH | Install | 0 | 1 | SUM6-25D (4/0 PRIMARY TERMINATION) | | |
| SUM6-25F 3 PH | Install | 0 | 1 | SUM6-25F (750 MCM PRIMARY TERMINATION) | | |
| SUM6-25F 3 PH | Install | 0 | 1 | SUM6-25F (750 MCM PRIMARY TERMINATION) | | |
| SUM6-36A | Install | 0 | 1 | SUM6-36A (FUSE, S&C END FITTING SML-20) | | |
| SUM6-36A | Install | 0 | 1 | SUM6-36A (FUSE, S&C END FITTING SML-20) | | |
| SUM6-36A | Install | 0 | 1 | SUM6-36A (FUSE, S&C END FITTING SML-20) | | |
| SUM6-36A | Install | 0 | 1 | SUM6-36A (FUSE, S&C END FITTING SML-20) | | |
| SUM6-36A | Install | 0 | 1 | SUM6-36A (FUSE, S&C END FITTING SML-20) | | |
| 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 | | |
| SUME490F3 | Install | 0 | 3 | SUME490F3 (4" FG 90 36") | | |
| SUME690F5 | Install | 0 | 3 | SUME690F5 (6" FG 90 60") | | |
| SUM1E | Remove | 0 | 1 | SUM1E (CONCRETE PAD 200 A SWITCH CAB.) | | |
| SUM3-12 | Remove | 0 | 1 | SUM3-12 (600 A SC 3 FUSES 1 SWITCH) | | |
| SUM6-25C 3 PH | Remove | 0 | 1 | SUM6-25C (1/0 PRIMARY TERMINATION) | | |
| SUM6-25C 3 PH | Remove | 0 | 1 | SUM6-25C (1/0 PRIMARY TERMINATION) | | |
| SUM5016P | Existing | 1 | 215 | SUM5016P - Conduit ((1) 6" PVC CONDUIT) | | |

Remarks: - REPLACE 15 kV, 200A, 3Ø SC W/ NEW 15KV, 600A. 3Ø 2SW/2FS SC. USED SUM3-12 FOR SC RETIREMENT.
 - REFER TO ONE-LINE DIAGRAM FOR FUSING.
 - EXTEND EXISTING 6" PVC GOING WEST TO 72A PULL PAD (@ LOCATOR DISC) & EXTEND INTO SC, PULL NEW 750 MCM CABLES FROM 72A INTO SC-173. RUN PARALLELED 4/0 BACU WIRE TO SPLICE W/ 750 MCM ALSHLD AT PP 72A.
 - STAG-2 IS FOR RE-TAGGING PRIMARY CABLE AT SC 43M

Structure: 03. T-6705 / 82A

| Assembly Unit | Activity | #Cond | Qty | Unit Description | Complete | Qty |
|---------------|----------|-------|-----|-----------------------------------------|----------|-----|
| 4/0 CONC | Install | 3 | 15 | 4/0 CONC Wire (4/0 CONCENTRIC PRIMARY) | | |
| CLEAN CNDT | Install | 1 | 15 | CLEAN CNDT (MANDREL & SWAB) | | |
| SUM6-1D 3 PH | Install | 0 | 1 | SUM6-1D (4/0 LB ELBOW TERMINATION) | | |
| 1/0 CONC 3 PH | Remove | 3 | 15 | 1/0 CONC 3 PH (1/0 CONCENTRIC PRIMARY) | | |
| SUM6-1C 3 PH | Remove | 0 | 1 | SUM6-1C (1/0 LB ELBOW TERMINATION-15KV) | | |
| SUM5014P | Existing | 1 | 15 | SUM5014P - Conduit ((1) 4" PVC CONDUIT) | | |

Remarks: - REPLACE 3-1/0 SHLD (1/0 CONC 3PH IN STAKING) W/ 4/0 CONC
 ***** RETURN TO SC 173 *****

Structure: 04. 92E

| Assembly Unit | Activity | #Cond | Qty | Unit Description | Complete | Qty |
|--------------------------|--------------------|--------------|----------------|---------------------------------------------------|----------|-----|
| 1/0 CONC 3 PH | Install | 3 | 270 | 1/0 CONC 3 PH (1/0 CONCENTRIC PRIMARY) | | |
| 2 BACU | Install | 1 | 270 | 2 BACU Wire (#2 BARE COPPER NEUTRAL) | | |
| 750 CONC 15KV | Install | 3 | 270 | 750 CONC 15KV (WIRE, AL JCN 750MCM EPR) | | |
| BORE | Install | 1 | 240 | BORE | | |
| SHUR2-5 | Install | 1 | 30 | SHUR2-5 (PRIMARY TRENCH HAND -DIG) | | |

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| Chugach Electric Association 5601 Electron Drive Anchorage, AK 99518 | Designer/Project Engineer _____ Date ____/____/____ Checker _____ Date ____/____/____ Manager/Supervisor _____ Date ____/____/____ |
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ADDENDUM #1

| | | | |
|----------------------------|---------|------------------------------------|-----------------|
| 5/10/2022 | 9:15:33 | STAKING SHEET | Page 3 of 4 |
| Project: P2000006 | | Design: MINNESOTA DR. AT 27TH AVE. | In Construction |
| MINNESOTA DR. AT 27TH AVE. | | | Grid: |

| Structure: 04. 92E | | | | | | | |
|--------------------------|--------------------|--------------|--------------|-----------------------------------------------|----------|-----|--|
| Assembly Unit | Activity | #Cond | Qty | Unit Description | Complete | Qty | |
| SUM5014H | Install | 1 | 270 | SUM5014H - Conduit ((1) 4" HDPE CONDUIT) | | | |
| SUM5024H | Install | 1 | 270 | SUM5024H - Conduit ((2) 4" HDPE CONDUIT) | | | |
| SUM5026H | Install | 1 | 270 | SUM5026H - Conduit ((2) 6" HDPE CONDUIT) | | | |
| SUM6-28C 3 PH | Install | 0 | 1 | SUM6-28C (1/0 PRIMARY SPLICE-15KV) | | | |
| SUM6-28C 3 PH | Install | 0 | 1 | SUM6-28C (1/0 PRIMARY SPLICE-15KV) | | | |
| SUM6-28F 3 PH | Install | 0 | 1 | SUM6-28F (750 MCM PRIMARY SPLICE) | | | |
| SUM6-6 | Install | 0 | 4 | SUM6-6 (GROUNDING ASSY) | | | |
| SUME630F5 | Install | 0 | 4 | SUME630F5 (6" FG 30 60") | | | |
| SUMH-610 | Install | 0 | 1 | PULL VAULT - 6X10 | | | |
| SUMV-1 | Install | 0 | 10 | CABLE RACK RAO8 & STANCHION | | | |
| SUMV-1A | Install | 0 | 20 | CABLE RACK RAO8 | | | |
| SUR2-5 | Install | 1 | 30 | SUR2-5 (PRIMARY TRENCH) | | | |
| 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) | | | |
| SUM6-28C 3 PH | Remove | 0 | 1 | SUM6-28C (1/0 PRIMARY SPLICE-15KV) | | | |
| SUME690P4 | Remove | 0 | 2 | SUME690P4 (6" PVC 90 48") | | | |
| 1/0 CONC 3 PH | Abandon | 3 | 233 | 1/0 CONC 3 PH (1/0 CONCENTRIC PRIMARY) | | | |
| 1/0 CONC 3 PH | Abandon | 3 | 270 | 1/0 CONC 3 PH (1/0 CONCENTRIC PRIMARY) | | | |
| 1/0 CONC 3 PH | Existing | 3 | 337 | 1/0 CONC 3 PH (1/0 CONCENTRIC PRIMARY) | | | |

Remarks:

- RETIRE PULL PAD (SUM1F) AND INSTALL NEW SUMH-610. GRADE. SET MANHOLE LID FLUSHED WITH EXIST. GRADE.
- SUM6-6 CALLED OUT IF VAULT DOES NOT COME WITH UFER GROUNDS.
- REMOVE SPLICE INSIDE 92E & ABANDON 3Ø 1/0 AL DIRECT BURIED GOING WEST TO SC-173 FROM T-7343 (VIA 91E PULL PAD).
- ~~- BORE NEW 3Ø 1/0 CONC (W/ PARALLEL #2 BC) IN (2) 4" HDPE FROM SC 173 INTO VAULT 92E & SPLICE TO 3Ø 1/0 SHLD CABLE GOING TO T-7343 PER ONE-LINE DIAGRAM - 270'. USE GS3 STRAP KITS FOR GOING FROM CONC TO SHLD.~~
- ~~- EXPOSE 30' (TO ACCOUNT FOR COIL INSIDE PULL PAD) OF 3Ø 1/0 SHLD DIRECT BURIED CABLE CIRCUIT FROM T-8670 NORTH OF PULLPAD 92E & RE-ROUTE CABLE INTO NEW VAULT.~~
- SEE VAULT DIAGRAM FOR SPLICING & CONDUIT ENTRY/EXIT
- ~~- UTILIZE 3Ø 1/0 SHLD TO SPLICE T-7343 & T-7137~~
- FIRE TAPE ALL CIRCUIT

*3Ø 1/0 SHLD TO BE ABANDONED/EXISTING IS BEING REPRESENTED AS 1/0 CONC 3PH IN STAKING SHEET.

| Structure: 04A. 91E | | | | | | | |
|--------------------------|--------------------|--------------|--------------|-----------------------------------------------|----------|-----|--|
| Assembly Unit | Activity | #Cond | Qty | Unit Description | Complete | Qty | |
| SHUR2-5 | Install | 1 | 10 | SHUR2-5 (PRIMARY TRENCH HAND -DIG) | | | |
| SUM5026P | Install | 1 | 10 | SUM5026P - Conduit ((2) 6" PVC CONDUIT) | | | |
| SUM6-28C 3 PH | Install | 0 | 1 | SUM6-28C (1/0 PRIMARY SPLICE-15KV) | | | |
| SUM6-28C 3 PH | Install | 0 | 1 | SUM6-28C (1/0 PRIMARY SPLICE-15KV) | | | |
| SUM6-28C 3 PH | Remove | 0 | 1 | SUM6-28C (1/0 PRIMARY SPLICE-15KV) | | | |
| SUM6-28C 3 PH | Remove | 0 | 1 | SUM6-28C (1/0 PRIMARY SPLICE-15KV) | | | |
| SUM5026P | Abandon | 1 | 10 | SUM5026P - Conduit ((2) 6" PVC CONDUIT) | | | |
| SUM5026P | Existing | 1 | 120 | SUM5026P - Conduit ((2) 6" PVC CONDUIT) | | | |

Remarks:

- PULL BACK CABLES GOING NORTH TO PP 92E & INTERCEPT EXIST. 2-6" PVC USING SUME630F5. RE-ROUTE CONDUIT INTO NEW VAULT 92E.
- RETURN TO 04. 92E & RE-PULL CABLES. SEE VAULT DIAGRAM FOR SPLICING & CONDUIT ENTRY/EXIT.

| Structure: 05. SC 1M (SC-1) | | | | | | | |
|-----------------------------|----------|-------|-----|------------------------------------------|----------|-----|--|
| Assembly Unit | Activity | #Cond | Qty | Unit Description | Complete | Qty | |
| 750 CONC 15KV | Install | 3 | 280 | 750 CONC 15KV (WIRE, AL JCN 750MCM EPR) | | | |
| BORE | Install | 1 | 240 | BORE | | | |
| SHUR2-5 | Install | 1 | 10 | SHUR2-5 (PRIMARY TRENCH HAND -DIG) | | | |
| STAG-2 | Install | 0 | 3 | STAG-2 (PRIMARY CABLE TAG) | | | |
| SUM5014H | Install | 1 | 280 | SUM5014H - Conduit ((1) 4" HDPE CONDUIT) | | | |
| SUM5026H | Install | 1 | 280 | SUM5026H - Conduit ((2) 6" HDPE CONDUIT) | | | |
| SUM6-25C 3 PH | Install | 0 | 1 | SUM6-25C (1/0 PRIMARY TERMINATION) | | | |
| SUM6-25F 3 PH | Install | 0 | 1 | SUM6-25F (750 MCM PRIMARY TERMINATION) | | | |
| SUME445F4 | Install | 0 | 1 | SUME445F4 (4" FG 45 48") | | | |
| SUME490F5 | Install | 0 | 1 | SUME490F5 (4" FG 90 60") | | | |
| SUME645F5 | Install | 0 | 2 | SUME645F5 (6" FG 45 60") | | | |
| SUME690F5 | Install | 0 | 2 | SUME690F5 (6" FG 90 60") | | | |
| SUR2-5 | Install | 1 | 30 | SUR2-5 (PRIMARY TRENCH) | | | |
| SURCR | Install | 1 | 40 | SURCR (STATE/MOA ROAD CROSSING) | | | |

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