CHUGACH ELECTRIC ASSOCIATION, INC.
Anchorage, Alaska

March 31, 2023

ADDENDUM #2

E2114030
Depot Dr AK Railroad Relocation - SOA

The following changes and additions have been made to the contract documents. Incorporate these changes and additions in your bid, sign the acknowledgement, and attach a signed copy of this addendum to your bid when submitted.

1. Q & A (attached).
2. Contractor Provided Materials (attached).
3. SUM1-M (attached).
4. Assembly Units in Excel ADD2 (separate attachment).
5. Assembly Units PDF ADD2 (separate attachment).
6. Staking Sheets ADD2 (separate attachment).
7. SWPPP Type 1 Signed 3-22-23 (separate attachment).
8. SWPPP U23-003 Approved 3-22-23 (separate attachment).
9. Temporary Construction Permit Application (separate attachment).

ACKNOWLEDGEMENT

The undersigned bidder hereby certifies that the revisions herein set forth have been incorporated in this bid and form a part of the contract documents.

Bidder	Address
Title	Date

APPROVED FOR DISTRIBUTION: _____

Darvin Thornton, Manager, Construction Engineering

Chugach Electric Association
E2114030
Depot Dr AK Railroad Relo.
Bid Questions and Responses

- Q Does CEA know if we will encountered contaminated soils?
  - A There will be contaminated soils. Chugach will provide a Type 1 SWPPP (see attached) and SWPPP inspections for the project. Bidders should price the SWPPP unit for the project to account for anticipated costs for adhering to the SWPPP provided.
- Q Is CEA requiring fire tape in the vaults?
  - A Yes, Chugach requires fire taping for all circuits in vaults.
- Q Are AK RR flagger required for boring under the tracks?
  - A Please refer to GENERAL NOTES section on drawing 1 of 10. "ARRC FLAG PROTECTION IS REQUIRED FOR ALL WORK WITHIN 20FT OF TRACKS, OR WHEN EQUIPMENT CAN REACH OR FALL WITHIN 20 FT OF THE TRACK, INCLUDING BORING UNDER THE TRACKS."
- Q Can we get a Pothole unit? If not please quantify the existing utility crossings.
  - A Potholing is part of the bore unit. Please refer to the 2022-2023 OELCC "Pothole locates of intersecting subsurface utilities are included as required."
- Q I do not see a SUM5028H for the 8"HDPE.
  - A Please refer to remarks on staking sheet Structure: 005. VAULT 9680. "-SUM5026H USED TO REPRESENT CONTRACTOR SUPPLIED 8" HDPE"
- Q How much over dig is CEA requiring for the vaults?
  - A Per CEA Construction Spec for SUMH-814. "4. Compact the manhole vault foundation to a minimum of 95% proctor Density. A minimum of a 6-inch course of D-1 shall be added to all foundations. Where the in-situ materials are not suitable for compaction, the foundation shall be over-excavated to establish a suitable foundation per the import/export supplemental units."
  - A In general CEA wants contractors to over-excavate by 1 FT to accommodate 1 FT of drain rock with geotextile fabric then a course of D1 on top.
- Q If we do encounter over dig what unit will be used for this?
  - A All trenching (over digging) to install a vault is covered with the SUMH-814 unit. There is also import (XUR2-11C - Drain Rock) and export (XUR2-12) units to cover the additional removal of material.
- Q Is there special Railroad permitting and insurance and what is the lead time for the permit?
  - A The awarded contractor must obtain an ARRC Temporary Construction Permit (TCP) and arrange for ARRC flaggers. Lead times and schedules are determined by the ARRC. Insurance is required per Section 4 of the ARRC Standard Specifications for Work on Railroad Property.
- Q Does CEA have a contact phone number for the railroad?
  - A Contact Kristen Gratrix (gratrixk@akrr.com, (907) 265-2465) for ARRC Temporary Construction Permit (TCP)
- Q What are the permit fees for the required Railroad permits?
  - A ARRC TCP application fee is $1,200, with an additional $1,700 charge for the permit. See attached TCP Application.

Chugach Electric Association
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Bid Questions and Responses

Q Will CEA allow 4 runs of owner or contractor furnished 4 inch HDPE to be used between Vault 9680 and Vault 9664 in place of two 8 inch runs of HDPE?
  A CEA will not allow (4) 4" HDPE for this project. Since this is a distribution circuit we need all the conductor in the same pipe.
Q Does the 8" HDPE from Vault 9964 to Vault 9680 need to be installed in two separate bore shots?
  A Minimizing bores is at contractors discretion. Original design called for 3 BORE shots please refer to staking sheet Structure 005. VAULT 9680.
Q Will bell ends and or duct plugs for the 8" HDPE be required and or provided by CEA?
  A Yes, bell ends and duct plugs for the 8" HDPE will be required. These items will be contractor supplied.
Q What is the O.D. of the 1000MCM Cu cable that will be issued for this job?
  A The O.D for the 1000MCM Cu is 2.471" per manufacture cutsheet.
Q Will 3 1000MCM conductors and 1 4/0 BACU fit in one 6" PVC? Will there be special requirements for installing the cable into the PVC?
  A (3) 1000 MCM conductors and (1) 4/0 BACU will fit in 6" PVC. This configuration has a 50.6% conduit fill per engineering pull calcs.
  A No special requirements for installing the cable into the PVC.
Q Will 3 1000MCM conductors and 1 4/0 BACU fit in one 8" HDPE SDR 11? Will there be special requirements for installing the cable into the HDPE?
  A (3) 1000 MCM conductors and (1) 4/0 BACU will fit in 8" HDPE. Chugach requires a minimum of SDR 13.5.
  A No special requirements no special requirements for installing the cable into the HDPE.
Q What is the required spec for the contractor supplied 8" HDPE?
  A 8" HDPE SDR 13.5 is the minimum
Q There are multiple discrepancies between the 35KV unit materials, and the owner furnished material list. Will the materials that have a CEA part number associated with them be provided by CEA? Will the materials with no part number associated with them be contractor supplied?
  A Any material that has a CEA part number will be provided by Chugach warehouse. All other materials will be contractor supplied.
Q Given the cost and availability of line material right now, will CEA provide a list of contractor supplied material?
  A See attached contractor supplied material list. Also note that any material listed on the material.
Q Will CEA provide number of reels of 1000MCM CU and footage per reel that will be issued for this job?
  A CEA warehouse will be providing several partial reals for this project. The length will vary reel to reel.
Q Will CEA provide the spec for the following units, SUM1-M, SUM6-1J, SUM6-28J, SUM6-28M, SUM6-3J, SUM6-3M and SZUM3-9FI?
  A SUM1-M – 96" x 72" SWITCH CABINET PAD (SEE ATTACHED)

Chugach Electric Association
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Bid Questions and Responses

- A SUM6-1J - LOAD BREAK ELBOW TERMINATION 1/0 35KV
- A SUM6-28J - PRIMARY SPLICE 1/0 35KV
- A SUM6-28M - PRIMARY SPLICE 1000 MCM 35KV
- A SUM6-3J - DEAD BREAK ELBOW 1/0 35KV
- A SUM6-3M - DEAD BREAK ELBOW 1000 MCM 35KV
- A SZUM3-9FI - VISTA 422 35KV SWITCH CABINET

Q Since Vault 9664 and 9680 excavation areas are expected to hold ground water and be wet areas, will CEA provide a Dewater unit for each location?

A See updated Bid and staking sheets showing 2 Dewater units. One for each Vault location.

Q Who is responsible for survey and staking?

A The contractor will be providing survey and staking, please refer to addendum 1. See updated staking and Bid sheet showing Survey unit.

Q Is there anything that will preclude the contractor from installing 3-4" conduits in lieu of the single 8" for the million distribution? Locating 8" power HDPE could pose a problem. Also tooling could be an issue. If 8" is to be found it won't have a red stripe.

A CEA will not allow (3) 4" HDPE for this project. Since this is a distribution circuit we need all the conductor in the same pipe.

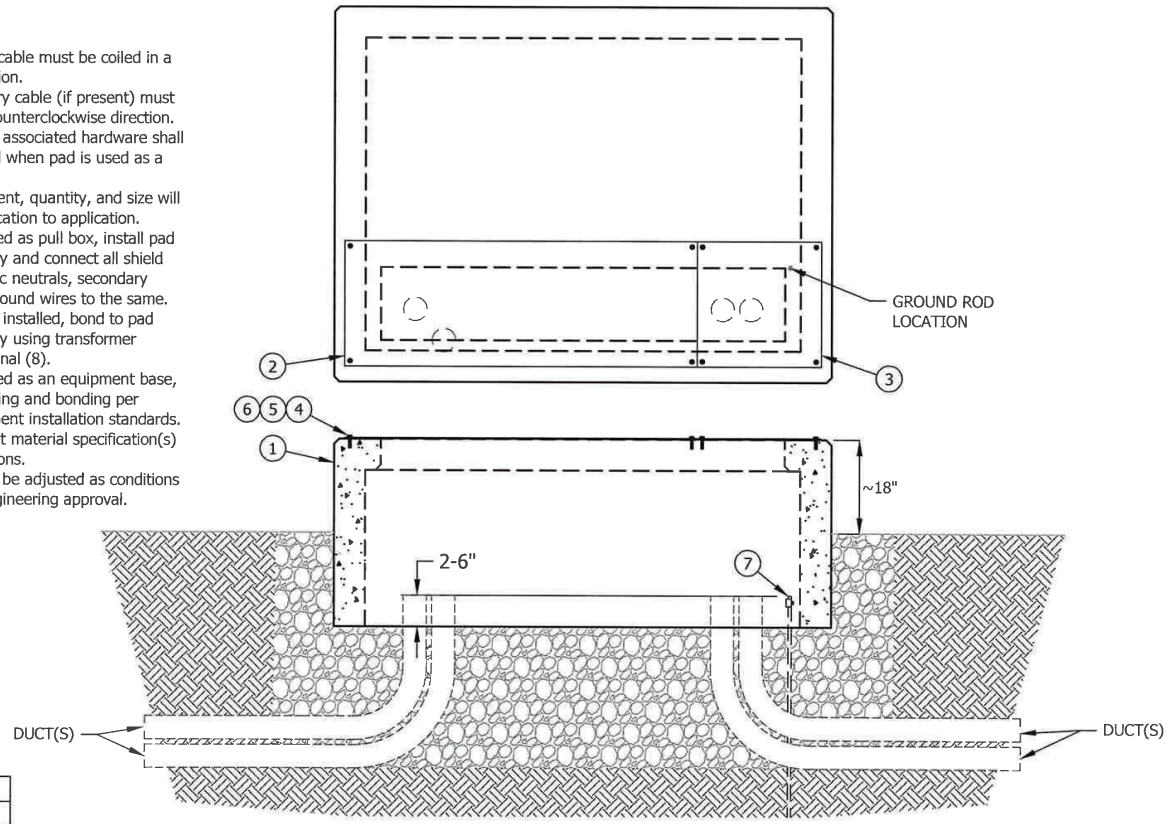
List of Contractor Provided Material

Materials from the following categories shall be provided by the contractor and will not be supplied from Chugach warehouses. Where applicable, all contractor provided equipment must be listed in the most recent version of the "*List of Materials Acceptable for Use on Systems of USDA Rural Development Electrification Borrowers – Informational Publication 202-1*", unless otherwise noted.

- Bolts
- Nuts
- Lock nuts
- Washers
- Lag screws
- Staples
- Cold & heat shrink sleeves for service or secondary wire
- Cold & heat shrink sleeves for conduit connection
- Conduit connectors
- Conduit bell ends
- Conduit plugs
- Dux seal
- Conduit bushings
- Non-standard conduit elbows
- Pulling lubricant
- Pull tape
- Glues and adhesives
- Nails, screws, and other fasteners
- Silicone lubricant
- Underground locator disks
- Underground warning tape
- #14 and #6 BACUSOL
- All wire and cable smaller than #6 AWG
- Transformer hold down clips
- Concrete wedge and screw anchors
- Cable tags
- Compression connectors ("C" crimps, "H" crimps) and covers
- Secondary/service terminations and splices
- Gravel, fill, or bedding material
- Vinyl, fireproof, or mastic tapes
- OH Transformer secondary blocks (PTTs)
- Steel plate covers for equipment pads (SUM1-C Units)
- Anchor thimble-eye bonding clamps (P-nuts)

NOTES:

- Excess primary cable must be coiled in a clockwise direction.
- Excess secondary cable (if present) must be coiled in a counterclockwise direction.
- Cover plate and associated hardware shall only be installed when pad is used as a pull box.
- Conduit placement, quantity, and size will vary from application to application.
- When pad is used as pull box, install pad ground assembly and connect all shield wires, concentric neutrals, secondary neutrals, and ground wires to the same.
- If cover plate is installed, bond to pad ground assembly using transformer grounding terminal (8).
- When pad is used as an equipment base, perform grounding and bonding per relevant equipment installation standards.
- Refer to relevant material specification(s) for pad dimensions.
- Pad height may be adjusted as conditions require with engineering approval.



96" x 72"
SWITCH CABINET
PAD OR PULL BOX
SCALE: 1/2" = 1'-0"

CONSTANT MATERIALS			
Item #	CU/Stock #	Description	Qty
①	20041700	BASE. METERING SWITCH CABINET 96"X72"X36" MC-17	1
⑦	GRND_PAD	PAD GROUND ASSEMBLY (PARTIALLY SHOWN)	1
⑧	20051110	CONNECTOR - COMP CU - 2 TO -8 - -4 SOL-STR BURNDY YC2C4 (NOT SHOWN)	**

CONDITIONAL MATERIALS				
Item #	CU/Stock #	Description	Qty	Rule
②	20039030	PLATE. MILD STEEL 24"X68"X1/4"	1	IF USED AS PULLBOX
③	20039005	PLATE. MILD STEEL 24"X24"X1/4"	1	IF USED AS PULLBOX
④	N/A	PENTA-HEAD BOLT, 1/2" X 1-1/2"	8	IF USED AS PULLBOX
⑤	N/A	FLUSH-MOUNT CONCRETE ANCHORS, 1/2" THREAD	8	IF USED AS PULLBOX
⑥	N/A	WASHER, CUPPED, SECURITY 1/2"	8	IF USED AS PULLBOX
⑨	20052140	TERMINAL - TRANSFORMER GROUNDING MH-14 (NOT SHOWN)	2	IF USED AS PULLBOX

* Items may be substituted with the same item number in the corresponding optional materials table.
** As required or per engineering direction.

STATE OF ALASKA
49 TH
Nolan J. Willis 4/12/2019
Nolan J. Willis
EE-102501
REGISTERED PROFESSIONAL ENGINEER

96"x72" SWITCH CABINET PAD

Assembly: SUM1-M

Signature Page: SEE APPENDIX A - 96"X72" SWITCH CABINET PAD

Municipal Light & Power
1200 East First Avenue
907-263-5340

Rev: 0 | Rev By: N. WILLIS
Drawn By: NJW | Date: 04/08/2019

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Sheet: 1 of 1