



Upper Occoquan Service Authority

Leader in Water Reclamation and Reuse

14631 COMPTON ROAD, CENTREVILLE, VIRGINIA 20121-2506
(703) 830-2200

May 5, 2021

TO ALL RFP RECIPIENTS:

For UOSA RFP 21-16 A/1 Motor Control Centers Replacements

SUBJECT: Addendum # 2

The above numbered solicitation is amended as set forth below. The hour and date specified for receipt of offers:

☐ is not extended

☒ is extended

OFFERORS MUST ACKNOWLEDGE receipt of this Addendum by one of the following methods:

- a. By acknowledgement of this Addendum on Submission Form submitted with the proposal;
- b. By referencing its receipt in your Transmittal Letter

If by virtue of this Addendum you desire to change a proposal already submitted, such change may be made by letter, provided it includes reference to the solicitation and this Addendum and is received prior to the due hour and date specified.

DESCRIPTION OF ADDENDUM:

1. To extend the due date for proposal submissions **from** May 13, 2021, 2:00 PM **to** May 20, 2021, 2:00 PM.
2. To provide answers to all questions received prior to the deadline for questions. Q&A provided as Attachment A.
3. To provide a corrected version of RFP Section 3. Content changes have been made to Sections 3.5 Proposal Organization and 3.7 Instructions for Submitting Proposals to allow for electronic copies to be provided in lieu of hard copies. The other changes to Section 3 are related to a subsection numbering error. The version of Section 3 provided as Attachment B shall supersede and replace the original RFP Section 3 in its entirety.
4. To provide updated Online & Panel drawings. Drawings provided as Attachments C & D respectively.

All other Terms, Conditions, Tables, Charts and Specifications, and Drawings not otherwise changed remain as originally stated or as shown.

ISSUED BY:

Upper Occoquan Service Authority

A handwritten signature in blue ink, appearing to read 'Dustin Baker', is written over a horizontal line.

Dustin Baker, Senior Buyer

5/5/2021

Date

UOSA RFP 21-16 Addendum #2 – Attachment A Q&A

1. Comparing the control diagrams in the RFQ package to the existing buckets on site, it appear there has been modifications to the buckets and controls added. Please provide updated wiring diagrams for the MCC starters.

There have been no modifications. UOSA's DCS works off a 24v signals for the existing controls. The MCCs in A/1 are setup for 120v controls. The extra relay was to tie the two systems together and is original.

2. Please provide the key interlock sequence of operation.

The Kirk Key System shall have a total of four Kirk Key Locks and three keys. These shall be located within MCC 11A and 11B. Each MCC shall have one key lock in the main feeder breaker and on the TIE breaker to MCC 11C.

- a. All Feed from A – The keys will be in MCC 11A Main, MCC 11A TIE, and MCC 11B TIE.
 - b. All Feed from B – The keys will be in MCC 11B Main, MCC 11B TIE, and MCC 11A TIE.
 - c. Mix Feed - MCC 11A Main, MCC 11B Main, and MCC 11B TIE (The MCC 11A TIE could be used in place of the 11B TIE)
3. In the meeting it was brought to our attention the grit pumps all have drives installed instead of full voltage non reversing starters as show on the RFQ drawings. Please provide revised control drawings for the VFDs.
 - a. Also can you clarify that if the drives would increase the size of the replacement MCC's it is okay for them to be provided externally.

UOSA would find it allowable to move the grit pump drives to an external installation, if they will not fit within the MCC. UOSA would like to keep the drives within the MCCs to save wall space. UOSA is looking for proposals for how to interconnect the VFD to the existing controls. The HOA switch within the existing bucket can be removed from the controls and replaced with the VFD. The Local HOA switch is still required and the flush water solenoid will still need to be energized when the motor is started.

4. Please confirm PLC programming and interconnects between the PLC and MCC is by others.

The Contractor will be required to setup the programming on the PLC to pass the signals listed in Attachment G in the RFP documents from the MCC to the PLC. UOSA will be responsible for the programming between the PLC and the UOSA DCS. UOSA will give the Contractor the connection point between the DCS and the new PLC.

5. Please confirm PLC (if required) is supplied by others.

The PLC will be supplied by the Contractor, it is acceptable to UOSA for the Contractor to use a subcontractor for this work. As per section 2.4.3.b, the PLC that is to be supplied shall be a Modicon m 340 or Equal Approved by the Owner.

6. Is the intent of this project to complete the MCC replacement ½ of 1 MCC at a time as done on previous MCC replacements on site?

Because there are three MCCs, UOSA expects that each MCC shall be replaced one at a time. It can be done Two MCCs at a time assuming power can be maintained to the required equipment.

7. Please confirm that temporary power will be needed to maintain power to all equipment located in the section of MCC being replaced.

Temporary Power List per Section 2.2, This is a list of the major equipment that will need to remain in service during the project to allow UOSA to continue to operate A/1. 8. For the buckets that supply the barscreens, have a 20 amp breaker as per the drawings. This will feed the existing bar screen control panels.

8. Page 15 of the solicitation states "Offerors are requested to submit six (6) sets of a written Technical Proposal plus **one original set with an original signature uniquely identified as "original" on the cover of the volume.**" Would you consider accepting an electronic copy of the technical proposal in lieu of hard copies?

We will accept an electronic copy in lieu of the requested non-original proposal copies. Offers must still submit on "Original" hard copy proposal with ink signatures. The electronic copies must be on physical media included in the sealed proposal package. We cannot accept emailed proposal submissions (see updated Section 3 provided as Attachment B).

9. Who will be determining the staging of equipment for installation?

The schedule and staging of the work shall be laid out by the Contractor. It is up to the Contractor to decide on what equipment will be started first. The only requirements are that the equipment listed in section 2.2 has power.

10. What will be done with the old control wires?

The existing control wires shall be disconnected at each end and removed by the Contractor.

SECTION 3

3 Submission of Proposals and Method of Evaluation

3.1 General

The following general information is provided and shall be carefully followed by all Offerors to insure that proposals are properly prepared.

- A. A transmittal letter prepared on the Offeror's business stationery must accompany the proposal.
- B. Each Offeror must furnish all information required by the RFP. The person signing the proposal must initial erasures or other changes. Proposals signed by an agent of the corporation must be accompanied by evidence of his or her authority to bind the corporation to the terms and conditions of this solicitation.
- C. UOSA reserves the right to conduct discussions with qualified Offerors in any manner necessary to serve the best interest of UOSA.

3.2 Questions and Communications

All contact between Offerors and UOSA with respect to this solicitation will be formally held at scheduled meetings or in writing through the Purchasing Department. Questions concerning this solicitation are due by the deadline for questions shown on the cover page. Misinterpretation of specifications shall not relieve the Contractor(s) of responsibility to perform. Substantive questions must be submitted in writing via mail, express mail, e-mail, fax, etc., to the UOSA Purchasing Department, by the deadline on the cover page. Questions submitted after the deadline will not be answered. All properly submitted substantive questions will be responded to in writing, in the form of an Addendum to the solicitation. Failure to submit questions or to otherwise seek clarification(s) by the deadline for submitting questions shall constitute a waiver of any potential claim by the Offeror/Contractor.

Communications between prospective Offerors, their agents and/or representatives and any member of UOSA other than as authorized herein, concerning this solicitation are prohibited. In any event and in all circumstances, unauthorized communications cannot be relied upon.

3.3 Addenda to the RFP

UOSA reserves the right to amend this solicitation at any time prior to the deadline for submitting proposals. If it becomes necessary to revise any part of this solicitation, notice of the revision will be given in the form of a written Addendum that will be provided to all prospective Offerors who are on record with the Purchasing Department as having received this solicitation. Addenda will be distributed within a reasonable time to allow Offerors to consider them in preparing their proposals. If in the opinion of the Purchasing Manager, the deadline for receipt of proposals does not allow sufficient time; the deadline shall be extended. Acknowledge your receipt and compliance with the Addenda by noting it in the space provided on the Solicitation Response Form (Attachment B). Failure to acknowledge receipt of an Addendum may result in rejection of the proposal.

3.4 Duration of Proposals

Proposals shall be valid for a minimum of 120 days following the deadline for submitting offers. If an award is not made during that period, all offers shall be automatically extended for another 120 days. Offers will be automatically renewed until such time as either an award is made or proper Notice is given to UOSA of Offeror's intent to withdraw its offer. Offers may only be canceled by submitting Notice at least 15 days before the expiration of the then current 120-day period.

3.5 Proposal Organization

Failure to include any of the below listed Proposal elements may be considered grounds to deem the proposal non-responsive.

A. Technical Proposal

Offerors are requested to submit six (6) sets of a written Technical Proposal or one electronic copy (electronic versions must be on CD/DVD media or flash drive included in your physical proposal package) plus **one original, hard copy, set with an original signature uniquely identified as “original” on the cover of the volume.** In order to enhance this process and provide each firm an equal opportunity for consideration, adherence to a standardized proposal format is required. Failure to adhere to the prescribed format may result in finding the proposal non-responsive. Proposals shall be limited to thirty (30) single sided pages, excluding cover letters, required forms, and appendices. The format of each proposal must contain the following elements organized into separate chapters and sections, in the order listed below. All proposal elements shall be included in the Technical Proposal and shall include:

1. Cover Letter (not included in page count)
2. Solicitation Response Form (Attachment B)(not included in page count)
3. Qualification Form (Attachment C) (not included in page count)
4. References (Attachment D) (not included in page count)
5. Written Narrative
6. Pricing (Pricing Summary Sheet sheet provided Attachment E) (not included in page count)

B. The elements listed in ‘A’ above parallel the basis of the Authority’s proposal evaluation criteria. The Authority is not responsible for failure to locate, consider, and evaluate qualification factors presented outside this format. The following paragraphs provide guidelines to each Offeror for information to include in its proposal.

1. **Cover Letter** – The cover letter should provide a brief history of your Company and its organization. The letter should indicate the principal of the firm who will be the Authority’s primary point of contact during negotiations. This individual must have authority to negotiate all aspects of the Scope of Services and provisions on behalf of the Company. An officer authorized to bind the firm to the terms and conditions of this RFP must sign the cover letter transmitting the proposal.
2. **Written Narrative** – Each Offeror shall provide a written narrative which demonstrates the Contractor’s ability to meet the specifications of the RFP. The written narrative should include:
 - a. **Experience and Qualifications** – Discuss the company history, qualifications, capabilities, past performance, office locations and staff size, experience with similar projects and overall experience and capabilities that help provide an understanding of the company and its abilities. This section should include a discussion of similar work done for other agencies or companies.
 - b. **Subcontractors** – Discuss the role of any subcontractors if proposed, the company’s past experience with subcontractors and how the subcontractors would enhance the delivered project.
 - c. **Project Team** – Provide resumes for proposed team members including education, years of experience performing similar services to those of this project, years with the company, location if the company has multiple offices and experience with projects similar to this project. Provide similar information for any proposed subcontractor staff. Also include any special qualifications, certifications, awards, etc.

- d. Confirmation of Compliance with the Specification(s) - The Offeror shall describe how the proposal meets the specifications of the RFP. This section should present the Offeror's proposed solution.
- e. References – The Offeror shall provide references in accordance with the requirements listed in Section 2.

3. **Pricing** - This section should provide a completed Attachment E with all pricing indicated.

3.6 Evaluation Process

- A. Evaluation Committee: UOSA will establish an Evaluation Committee (the "Committee") to review and rank each proposal. The Committee will be composed of individuals designated by UOSA. The Committee may request additional technical assistance from other sources.
- B. Qualifying and Evaluating Proposals: Each proposal will first be reviewed for compliance with the Requirements of this RFP. The Offer assumes all responsibility for addressing all technical requirements in order meet the objectives of the RFP. Each proposal will be evaluated according to the elements listed and point structure shown below.

Element	Points Allowed
Responsiveness of written proposal in clearly stating and understanding the requirements as outlined this RFP.	0-15
Reputation, Qualifications and Experience in connection with services required.	0-25
Total time for project completion	0-25
Pricing	0-45
Total Points Allowed	100

Should proposals require additional clarification and/or supplementary information, firms should be prepared to submit such additional clarification in a timely manner, when so requested.

The Authority's Purchasing Manager may arrange for discussion with firms submitting proposals, if required, for the purpose of obtaining additional information or clarification.

The Evaluation Committee may make such reasonable investigation, as it deems proper and necessary to determine the ability of the firm to perform the work. The Evaluation Committee and/or its representative(s) reserve the right to inspect the firm's physical premises prior to award to satisfy questions regarding the firm's capabilities.

After review and evaluation, and based on its sole discretion, the Authority reserves the right to reject any or all proposals received in response to this request and will not compensate Offerors for the cost of proposal preparation whether or not an award is consummated.

The award will be made to the responsible Offeror whose offer conforms to the solicitation and is most advantageous to the Authority, cost or price, revenue and other factors considered.

Should the Authority determine in writing and in its sole discretion that only one Offeror is fully qualified, or that one Offeror is clearly more highly qualified than the others under consideration, a contract may be negotiated and awarded to that Offeror.

3.7 Instructions for Submitting Proposals

- A. The deadline for submitting Proposals is shown on the cover sheet. Offerors mailing proposals should allow sufficient mail delivery time to insure timely receipt by the Purchasing Department.

Proposals will be opened in accordance with the provisions of the Virginia Public Procurement Act. There will be no public proposal opening. The list of prospective Offerors shall be available for public inspection only after Contract Award or upon cancellation of the solicitation.

- B. The attached Solicitation Response Form (Attachment B) must accompany the proposal. The purpose of this form is to formally submit the proposal and bind the Offeror to the terms, conditions and specifications contained in the solicitation. The Form must be signed by an individual who is authorized to bind the Offerors' firm to all items in the proposal including products, services, etc., and prices, contained in the proposal.
- C. Submit one (1) original and six (6) copied sets of your Proposal. An electronic copy may be submitted in lieu of the six copies. The electronic copy shall be submitted on a physical format, either USB flash drive or optical media, along with the printed hard copy original. The set of originally signed documents must be uniquely identified on the cover of each volume.

All Proposals shall be submitted as hard copies in sealed envelopes or packages. **No electronic submissions will be accepted.** All packages shall be sent to the UOSA Purchasing Department at the address identified on the cover sheet of this RFP. Packages shall be labeled as follows:

From: _____

Name of Offeror	Due Date
Street	RFP No.
City, State, Zip Code	RFP Title

SAMPLE

3.8 Contractor Identification

All Offerors must provide all information required by the UOSA Solicitation Response Form (Attachment B) applicable to the Offeror; failure to comply shall make the Proposal nonresponsive. All Offerors also shall include the following in their Solicitation Response Form (Attachment B). Failure to include the required information shall make the Proposal nonresponsive and the Proposal will not be opened or considered:

- A. Individual Offerors must provide their social security numbers.
- B. Proprietorships, partnerships, corporations, limited liability companies, business trusts, limited partnerships or limited liability partnerships must provide their Federal Employer Identification Numbers.

3.9 Qualifications of Offerors

UOSA may make such reasonable investigations as deemed proper and necessary to determine the ability of the Bidder/Offeror to perform the services/furnish the goods and the Bidder/Offeror shall furnish to UOSA all such information and data for this purpose as may be requested. UOSA reserves the right to inspect Bidder's/Offeror's physical facilities prior to award to satisfy questions regarding the Bidder's/Offeror's capabilities. UOSA further reserves the right to reject any proposal if the evidence submitted by, or investigations of, such Bidder/Offeror fails to satisfy UOSA that such Bidder/Offeror is properly qualified to carry out the obligations of the contract and to provide the services and/or furnish the goods contemplated therein.

3.10 Late Proposals

Proposals or unsolicited amendments to proposals arriving after the closing date and time will not be considered. Proposals received after the proposal submission deadline will be returned to the Offeror unopened providing that sufficient proposal identification information is shown on the outside of the proposal envelope.

Proposals may only be canceled by submitting written notice at least 15 days before the expiration of the then current 120-day period.

3.11 Proprietary Information

It shall be the responsibility of each Offeror to clearly mark any part of his proposal considered to be of PROPRIETARY OR CONFIDENTIAL NATURE. Offerors shall not mark sections of their proposal PROPRIETARY OR CONFIDENTIAL if such section is to be part of the award of the contract and are of "Material" nature, (i.e., Prices, company information currently available to the public).

3.12 Acceptable and Unacceptable Proposals and Rejection of Offers

UOSA reserves the right to reject any or all proposals received. Proposals must meet or exceed the mandatory requirements of the Specification section. If an Offeror does not meet a mandatory requirement, UOSA may classify the proposal as "not responsive." The Evaluation Committee may determine that an Offeror is "not responsible," if the Offeror does not have the capabilities in all respects to perform the Work required. The Committee may determine that a proposal meets the Specification but does not raise itself to the competitive level of some or all of the other offers. In such instances, the Committee shall issue a determination that any and all such proposals are "not reasonably susceptible of being selected." Offerors deemed by the Committee to be not responsive, not responsible, or not reasonably susceptible of being selected will be excluded from further consideration and the Offeror so notified.

3.12 Ranking And Selection

Proposal evaluation will consist of an in-depth evaluation by the Committee of each Offeror's technical capabilities, skills, experience, references, financial stability, etc. as submitted. Firms deemed not qualified or unable to satisfy the technical criteria will be so notified and eliminated from further consideration. Each Technical Proposal will be ranked after it has been evaluated. UOSA may invite up to the four highest ranked Offerors to make an oral presentation and enter into further discussions or may enter directly into negotiations with the highest ranked firms. The offeror shall state any exception to any liability provisions contained in the Request for Proposal in writing at the beginning of negotiations, and such exceptions shall be considered during negotiation. Price shall be considered, but need not be the sole or primary determining factor. After negotiations have been conducted with each offeror so selected, the public body shall select the offeror which, in its opinion, has made the best proposal and provides the best value, and shall award the contract to that offeror. When the terms and conditions of multiple awards are so provided in the Request for Proposal, awards may be made to more than one offeror. Should the public body determine in writing and in its sole discretion that only one offeror is fully qualified, or that one offeror is clearly more highly qualified than the others under consideration, a contract may be negotiated and awarded to that offeror.

3.13 Oral Presentations

Finalists may be required to make individual presentations to the Committee as part of the technical evaluation process. If so notified by the Purchasing Agent, the Offeror must provide a presentation within two calendar weeks of notification or as may be arranged by the Purchasing Agent. Failure to provide a satisfactory presentation will be grounds for a declaration that the offer is non-responsive. Presentations shall be conducted only at UOSA.

3.14 Negotiation

After selection, but prior to Contract Award, the Evaluation Committee reserves the unilateral right to negotiate any aspect of the proposal or proposed Contract in any manner that best serves the needs of UOSA and is within the scope of the solicitation.

3.15 Contract Award

A Contract(s) will be awarded to the Offeror(s) whose proposal(s) is determined to be the most advantageous to UOSA. The selected Offeror(s) will be required to assume full responsibility for the complete effort as required by this RFP whether work is performed by the Offeror or subcontractors. The selected Offeror(s) is to be the sole point of contact with regard to all contractual responsibilities.

- A. Term: The term of the Contract resulting from this solicitation process shall be from the date of execution to the completion and acceptance of the work by UOSA. UOSA shall have the option to award an additional contract to the selected firm for up to six (6) one year annually renewable periods. The purpose of this additional contract is for additional ongoing maintenance, application modifications, or additional application development.
- B. Renewal: The authority reserves the right to renew the Contract for additional services on an annual basis for up to six (6) years. The Authority also reserves the right to contract with more than one Offeror for specific aspects of the RFP if that is in the Authority's best interest.

3.16 Type of Contract(s)

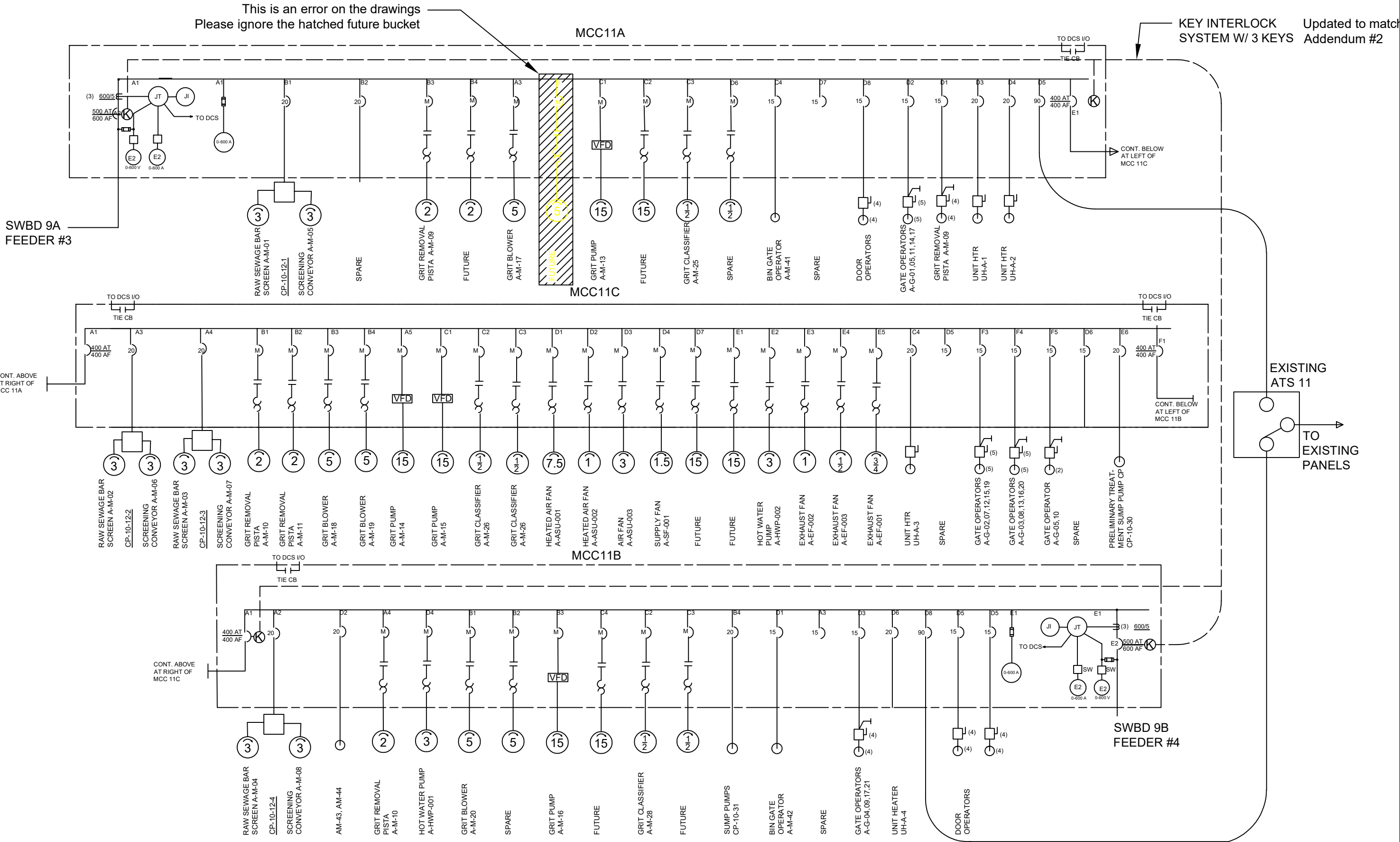
The Upper Occoquan Service Authority shall enter into a firm/fixed price contract based on fixed rates as negotiated for the A/I Motor Control Center project.

UOSA may include in this contract or in a separate contract additional scope for future maintenance, application modifications or additional application development. UOSA will request separate quotes from the awarded Contractor for any additional work outside the scope of the PM Mobile Application. The quotes for additional work shall be based on the hourly rates submitted in response to this RFP.

3.17 Annual Increases

After the first year (and any year thereafter), contract prices may not be increased by more than the Cost of Living as indicated in the Consumer Price Index – Urban (i.e., “CPI-U”) for the calendar month ending two months before the expiration month of the then current contract year.

An increase based upon factors other than the CPI-U (e.g., Force Majeure, etc.) may be submitted when and, as they occur providing that sufficient detailed supporting documentation is included with the request. UOSA reserves the right to reject any such request or negotiate a mutually agreeable price



MCC 11A PANEL LIST			
BUCKET	DESCRIPTION	NOTE	BREAKER SIZE
A1	Main Breaker	Monitoring	
A2	FEEDER	SWBD 9A	600 AMP
A3	A-M-17	BLOWER 1	5 HP
B1	CP-10-12-1	BS 1	20 AMPS
B2	SPARE		20 AMPS
B3	A-M-09	PISTA 1	2 HP
B4	FUTURE		2 HP
C1	A-M-13	GRIT PMP 1	15 HP
C2	FUTURE		15 HP
C3	A-M-25	CLAS. 1	0.5 HP
C4	A-M-41	BIN GATE	15 AMP
D1	A-GS-1,4	GATES	15 AMP
D2	A-G-01,05,18,14,11	GATES	15 AMP
D3	UH-A-1	HEATER	20 AMP
D4	UH-A-2	HEATER	20 AMP
D5	ATS 11	PANELS	90 AMP
D6	SPARE		0.5 HP
D7	SPARE		15 AMP
D8	OPERATORS	DOOR	15 AMP
E1	MCC 11C TIE	KEY SYS.	400 AMP
E2	KW METER	PHASE MR	
E3	SPACE		
E4	PHASE CAPACITOR		

- NOTES:
- BS STANDS FOR BAR SCREEN
 - HW STANDS FOR HOT WATER
 - EXH. STANDS FOR EXHAUST
 - CP STANDS FOR CONTROL PANNEL
 - PMP STANDS FOR PUMP
 - PISTA STANDS FOR PISTA-GRIT REMOVAL CHAMBER
 - SWBD STANDS FOR SWITCH GEAR BOARD DISTRIBUTION
 - FUTURE BUCKETS SHALL BE FULLY FURNISHED AND READY TO SUPPORT A CONNECTION
 - SPARE BUCKETS SHALL HAVE JUST A BREAKER AS SIZED ABOVE.
 - SPACE BUCKETS ARE EMPTY.
 - FEEDER FOR MCC 11A AND MCC 11B ARE WITHIN CC/1.
 - Updated for Addendum #2

MCC 11B PANEL LIST			
BUCKET	DESCRIPTION	NOTE	BREAKER SIZE
A1	MCC 11C TIE	KEY SYS.	400 AMP
A2	CP-10-12-4	BS 4	20 AMP
A3	SPARE		15 AMP
A4	A-M-12	PISTA 4	2 HP
B1	A-M-20	BLOWER 4	5 HP
B2	SPARE		5 HP
B3	A-M-16	GRIT PMP 4	15 HP
B4	CP-10-31	SUMP PMP	20 AMP
C1	SPACE	EMPTY	
C2	A-M-28	CLAS. 4	0.5 HP
C3	FUTURE		15 HP
C4	FUTURE		15 HP
D1	A-M-42	BIN GATE	15 AMP
D2	AM-43,44	DOOR	20 AMP
D3	A-G-04,09,17,21	GATES	15 AMP
D4	A-HWP-001	HW PMP 1	3 HP
D5	OPERATORS	DOOR	15 AMP
D6	UH-A-4	HEATER	20 AMP
D7	SPACE	EMPTY	
D8	ATS 11	PANELS	90 AMP
E1	MAIN BREAKER	MONITOR	
E2	FEEDER	SWBD 9B	600 AMP
E3	PHASE MONITOR		
E4	PHASE CAPACITOR		

MCC 11C PANEL LIST			
BUCKET	DESCRIPTION	NOTE	BREAKER SIZE
A1	MCC 11A TIE		400 AMP
A2	SPACE	EMPTY	
A3	CP-10-12-2	BS 2	20 AMP
A4	CP-10-12-3	BS 3	20 AMP
A5	A-M-14	GRIT PMP 2	15 HP
B1	A-M-10	PISTA 2	2 HP
B2	A-M-11	PISTA 3	2 HP
B3	A-M-18	BLOWER 2	5 HP
B4	A-M-19	BLOWER 3	5 HP
C1	A-M-15	GRIT PMP 3	15 HP
C2	A-M-26	CLAS. 2	0.5 HP
C3	A-M-27	CLAS. 3	0.5 HP
C4	UH-A-3	HEATER	20 AMP
D1	A-ASU-001	AIR FAN	7.5 HP
D2	A-ASU-002	AIR FAN	1 HP
D3	A-ASU-003	AIR FAN	3 HP
D4	A-SF-001	SUPPLY FAN	1.5 HP
D5	SPARE		15 AMP
D6	SPARE		15 AMP
D7	FUTURE		15 HP
E1	FUTURE		15 AMP
E2	A-HWP-002	HW PMP 2	3 HP
E3	A-EF-002	EXH. FAN	1 HP
E4	A-EF-003	EXH. FAN	0.5 HP
E5	A-EF-001	EXH. FAN	0.75 HP
E6	CP-10-30	SUMP PMP	20 AMP
E7	SPACE	EMPTY	
F1	MCC 11B TIE		400 AMP
F2	SPACE	EMPTY	
F3	AG-02,07,12,15,19	GATES	15 AMP
F4	A-G-03,08,13,16,20	GATES	15 AMP
F5	A-G-05,10	GATES	15 AMP