Clay County Utility Authority
3176 Old Jennings Road
Middleburg, Florida 32068-3907
Telephone (904) 272-5999
Facsimile (904) 213-2469
www.clayutility.org

Working together to protect public health, conserve our natural resources, and create long-term value for our ratepayers.

ADDENDUM NO. 1

TO THE BID DOCUMENTS

CCUA BID NO. 19/20-A9 Fleming Island Wastewater Treatment Facility, BTU No. 3 Expansion

CLAY COUNTY UTILITY AUTHORITY MIDDLEBURG, FLORIDA

October 1, 2020

To All Plan Holders and/or Prospective Bidders:

The following changes, additions, and/or deletions are herby made part of the Contract documents for the Fleming Island Wastewater Treatment Facility, BTU No. 3 Expansion as fully and completely as if the same were fully set forth therein:

A. General Information

1. An optional site visit will be available on Wednesday, October 7, 2020 at 11:00 a.m. local time for contractors to inspect the site.

B. Division 0 – Bidding and Contract Requirements

1. Section 00300, Bid Form

   DELETE in its entirety and REPLACE with the attached.

C. Division 1 – General Requirements

1. Section 01720, Record Documents

   DELETE in its entirety and REPLACE with the attached.

D. Division 2 – Site Work

1. Section 02215, Tank Cleaning and Sludge/Grit Removal

   DELETE Paragraph 1.01D and REPLACE with the following:

   D. Contractor shall confirm groundwater level is below the lowest point of the bottom slab of BTU No. 1 based on record drawings (approximately EL 18.35) prior to draining the tank. Contractor shall monitor groundwater level while the tank is being drained by the Owner and when the tank is empty. The Contractor shall install a minimum of one groundwater observation well in accordance with Section 02030 "Geotechnical Instrumentation and Monitoring".

2. Section 02215, Tank Cleaning and Sludge/Grit Removal

   ADD to the end of Paragraph 1.01D with the following:

   Quantities of grit/debris/ solids and sludge in BTU No. 1 is unknown at this point, however, the Contractor shall assume an anticipated amount of 150 cubic yards of grit/debris/solids in the base bid price. Also, a unit price per ton of grit/debris/solids and sludge that will be removed and disposed of from BTU No. 1 shall be provided.

3. Section 02215, Tank Cleaning and Sludge/Grit Removal

   ADD Paragraph 1.02B with the following:

   B. Section 02030 "Geotechnical Instrumentation and Monitoring".

4. Section 02215, Tank Cleaning and Sludge/Grit Removal

   DELETE Paragraph 3.01D1 and REPLACE with the following:

   1. **Draining involves the processing of the majority of the tank contents through the normal operations at the facility. At the time of cleaning, the structures will have been taken out of service. The Contractor shall submit his request for dewatering operations to the Owner for approval not less than fourteen (14) calendar days before operations are to commence. The Owner shall be responsible for draining the structure to the most extent possible. The Owner will not begin draining of the structure until the Contractor confirms the groundwater levels are below the lowest point of the bottom slab of BTU No. 1. It is anticipated that the Owner will require the following time durations to drain the structures:**
      a. **BTU No. 1 will take 21 days.**

5. Section 02563 Polyvinyl Chloride Pipe

   ADD "BURIED" to the beginning of Paragraph 2.2.

6. Section 02563 Polyvinyl Chloride Pipe

ADD Paragraph 2.5 with the following:

2.5 EXPOSED PVC PIPE AND FITTINGS GENERAL REQUIREMENTS

A. Manufacturers:

1. **GF Piping Systems**
2. **Ipex USA**
3. **Spears Manufacturing**

B. Applicable Piping System:

1. **Exposed NPW Pipe and Fittings.**
2. **Exposed Influent Structure Odor Control Intake and Fittings.**

C. Pipe:

1. **PVC compliant with ASTM D1785, Class 12454.**
2. **Joints: Socket welded unless otherwise noted on the Drawings**

D. Fittings:

1. **Coordinate fittings with in line connections on valves and appurtenances.**
2. **Schedule: 80**
3. **Socket Type: Solvent welded socket, comply with ASTM D2467.**
   a. **Solvent and primer shall contain no fumed silica and shall be "Weld-On 724" for PVC pipe including use of primer per the NSF 61 certification, as manufactured Oatey Industrial Grade Low VOC Heavy Duty Gray as manufactured by Oatey Corp., Cleveland OH.**
4. **Flange Type: Comply with ASTM D2467, rated for maximum 150 psig working pressure.**
5. **Threaded Type: Comply with ASTM D2464**

7. Section 02563 Polyvinyl Chloride Pipe

ADD Paragraph 2.6 with the following:

2.6 TRACER WIRE

A. Tracer wire for open-trench direct bury shall be 10 gauge solid.

B. Tracer wire shall meet the specifications as that of Pro-line Safety Products.

C. Break load shall be 448 lbs (or 55,000PSI), with a 30 mil HDPE coating, 30 volts and ROHS compliant.

D. <u>The coating shall be of the proper color to meet the APWA color code of the buried utility line.</u>

E. <u>Tracer wire shall be:</u>

1. <u>Pro-Trace HF-CCS PE30, 10 AWG Solid Pro-Trace HF-CCS PE30, consist of a dead soft annealed 21% IACS conductivity, copper clad steel conductor,</u>
2. <u>Copperhead 1030 SF,</u>
3. <u>Or approved equal.</u>

<u>E. Division 11 – Equipment</u>

1. Section 11286, Stainless Steel Gates

   REPLACE “Trips - 3” with “Trips -1” in Paragraph 3.6G2.

2. Section 11286, Stainless Steel Gates

   REPLACE “Trips - 3” with “Trips -1” in Paragraph 3.6G4.

3. Section 11378, Biological Treatment Unit Equipment

   DELETE Paragraph 2.3F in its entirety and REPLACE with the following.

   F. Mixer Painting

   1. Unless otherwise noted, all ungalvanized fabricated iron and steel surfaces shall receive a shop-cleaned surface preparation equivalent to SSPC-SP-10 immediately prior to shop-priming. Shop-priming shall consist of One (1) coat(s) of Tnemec 161-1211 primer or approved equal to 3.0 to 5.0 Mils D.F.T. Touch up and finish painting shall be the responsibility of the Contractor.

   2. The motors and gear reducers shall receive a minimum shop-cleaned surface preparation equivalent to SSPC-SP-1 immediately prior to shop-priming and finish coating. Shop-priming and finish painting shall consist of a coating that is compatible with a high quality finish coating that is specifically resistant to chemical, solvent, salt water, and acid environmental conditions. Touch-up painting shall not be the responsibility of the equipment manufacturer.

4. Section 11378, Biological Treatment Unit Equipment

   DELETE Paragraph 2.3G in its entirety.

5. Section 11378, Biological Treatment Unit Equipment

ADD Paragraph 2.3H with the following:

H. The Contractor shall supply the first charge of run in oil for the reducers, and if necessary due to run time, the change of oil. The Contractor shall purchase the oil from a local firm selected by the Owner, in accordance with the information in the O&M manual, to assure lubricant compatibility.

F. Division 15 – Mechanical

1. Section 15108, Process Valves

DELETE Paragraph 2.2A in its entirety and REPLACE with the following.

A. Manufacturers: DeZurik; Miliken Valve Co; Clow Valve Co, Pratt and Val-Matic Valve & Mfg. Co

2. Section 15108, Process Valves

REPLACE "250 psig" with "150 psig" in Paragraph 2.2F.

3. Section 15108, Process Valves

DELETE Paragraph 2.3 in its entirety and REPLACE with the following.

2.3. NOT USED

4. Section 15108, Process Valves

ADD Paragraph 2.6 with the following:

2.5 AIR RELEASE VALVES

A. Manufacturers: Crispin Valve; Golden-Anderson Industries, Val-Matic Valve & Manufacturing Corp.

B. Substitutions: Owner approved equal.

C. Description:

1. **Comply with AWWA C512.**
2. **FM listed.**
3. **Suitability for corrosive service: Match pipeline service.**
4. **Small orifice assembly air release valves:**

   a. **Automatically release air accumulations from pipe under positive pressure.**

b. When valve body fills with air, float mechanism shall fall to open small orifice and exhaust air to atmosphere.
c. When air has been exhausted, float mechanism shall be buoyed up and shall tightly close small orifice.

5. Provide shutoff gate, drain valve, butterfly or ball valves.

D. Materials

1. Body and Cover: Cast or ductile iron.
2. Float: Type 316 stainless steel
3. Seat: Bronze-stainless, Stainless steel or Buna-N.
4. Hardware: Type 316 stainless steel

E. Pressure Rating: 70 psi

F. Nominal Size: 1-inch

G. End Connections: Threaded.

G. Drawings

1. C-1, EXISTING SITE, SOFT DIGS, AND SOIL BORING LOCATION PLAN

   ADD Note 10 in its entirety with the following.

   10. The existing stormwater ponds may be used for construction dewatering discharge provided that is allowed by the Contractor's dewatering permit with the State of Florida and meets the water quality limits of the permit. The portion of the stormwater pond containing media filtration shall be avoided

2. M-8, BIOLOGICAL TREATMENT UNIT NO. 3 UPPER PLAN

   REPLACE "R50'-4" with "R50'-1" in Grid B3.

3. M-8, BIOLOGICAL TREATMENT UNIT NO. 3 UPPER PLAN

   REPLACE callout for deck length from Aerator No. 3B of "21'-9"" with "20'-0"" and adjust dimension to centerline of aerator in Grid F2.

4. M-8, BIOLOGICAL TREATMENT UNIT NO. 3 UPPER PLAN

   REPLACE callout for overall inside dimension of "100'-8" OVERALL INSIDE DIMENSIONS" with "100'-2" OVERALL INSIDE DIMENSIONS (SEE NOTE 1)" in Grid A2.

5. M-8, BIOLOGICAL TREATMENT UNIT NO. 3 UPPER PLAN

   REPLACE callout for overall inside dimension of “198’-2” OVERALL INSIDE DIMENSION” with “197’-11” OVERALL INSIDE DIMENSION (SEE NOTE 1)” in Grid D4.

6. M-8, BIOLOGICAL TREATMENT UNIT NO. 3 UPPER PLAN

   REPLACE callout for deck length from Aerator No. 3B of “21’-9”” with “20’-0”” and adjust dimension to centerline of aerator in Grid F2.

7. M-8, BIOLOGICAL TREATMENT UNIT NO. 3 UPPER PLAN

   REPLACE callout for distance between decks of “43’-6”” with “46’-6”” in Grid E3.

8. M-10, BIOLOGICAL TREATMENT UNIT NO. 3 SECTIONS AND DETAILS I

   REPLACE callout for deck length from Aerator No. 3A of “23’-6”” with “20’-0”” in Section 1, Grid D1.

9. M-10, BIOLOGICAL TREATMENT UNIT NO. 3 SECTIONS AND DETAILS I

   REPLACE callout for deck length from Aerator No. 3B of “19’-6”” with “20’-0”” in Section 1, Grid F1.

10. M-10, BIOLOGICAL TREATMENT UNIT NO. 3 SECTIONS AND DETAILS I

    REPLACE callout for distance between decks of “43’-6”” with “46’-6”” in Section 1, Grid E1.

11. M-10, BIOLOGICAL TREATMENT UNIT NO. 3 SECTIONS AND DETAILS I

    REPLACE callout for overall inside dimension of “100’-8” OVERALL INSIDE DIMENSIONS” with “100’-2” OVERALL INSIDE DIMENSION (SEE NOTE 4)” in Section 2, Grid C2.

12. M-10, BIOLOGICAL TREATMENT UNIT NO. 3 SECTIONS AND DETAILS I

    REPLACE callout for distance between decks of “43’-6”” with “46’-6”” in Section 3, Grid F2.

H. Written questions received and responses:

Addendum No. 1 includes the responses to the questions received by the Friday, September 25, 2020.

1. Robbins Lightning, Inc. received this project today and we are not listed as an Approved Lightning Protection Manufacturer. I have attached an approval letter about our company. Our websites are listed in the letter where you may view our products and services. We would like to be listed as an Approved Lightning Protection Manufacturer on this project and future projects.

   Response: Additional lightning protection products will not be considered at this time. The lighting protection system shall be as specified in Section 16600 “Grounding System”. No substitutions will be allowed.

2. The ductile iron specification calls for a restrained joint system, like Flex Ring by ACIPCO. That system is approximately twice the cost of going with the standard push-on piping, e.g. Fastite by ACIPCO, with bell restraint harnesses. Would you consider that to be equal? Meeting the pressure testing of course.

   Response: This substitution is not acceptable.

3. The PVC specification calls for Class 235 DR 18 piping with gasketed push on joints. There is 2" NPW running around the BTU No. 3 aboveground to feed the wash hose stations. Would you consider utilizing Schedule 80 PVC with solvent weld joints?

   Response: Schedule 80 pipe for the aboveground NPW piping, 4" and less, would be acceptable. Section 02563 "Polyvinyl Chloride Pipe" will be updated.

4. Please clarify the gauge requirement for the locating wire.

   Response: Tracer wire for open-trench direct bury shall be 10 gauge wire. This requirement will be added to Section 02563 "Polyvinyl Chloride Pressure Pipe". Tracer Wire is included in CCUA's Materials Manual, Page S-42.

   CCUA's Materials Manual and Standard Details can be accessed at the links below.
   https://www.clayutility.org/engineering/materials_manual.aspx
   https://www.clayutility.org/engineering/standards_details.aspx

5. Sheet C-3 has an ARV called out on it, but we could not locate any specifications for this item, please advise. Please confirm if this is to be an air release valve, air/vac valve, or combination valve for the application? Is this valve to be supplied with a SST Body? Also, please confirm max flow through the 4" line so we can properly size the air valve.

   Response: Requirements for the ARV will be added to Section 15108 "Process Valves". ARVs are included in CCUA's Materials Manual, Page S-23.

   CCUA's Materials Manual and Standard Details can be accessed at the links below.
   https://www.clayutility.org/engineering/materials_manual.aspx
   https://www.clayutility.org/engineering/standards_details.aspx

6. Section 15108 2.2 eccentric plug valve clarifications required:
   a. 2.2.F Please confirm that 250 psi rating is required, or if 150 psi is acceptable.
   b. 2.2.H.1 The plug valve manufacturers listed are rectangular port, not round, will rectangular port be acceptable?
   c. 2.2.H.2 The spec is calling for standard port plug valves (80% port), but there is another plug valve spec (15108 / 2.3) calling out for full port plugs as well. Does Clay County want 100% port plug valves as these are available, or standard port as specified are acceptable? See attached two brochures.

   Response: A testing pressure of 150 psi would be acceptable. Rectangular port valves are acceptable. Standard port plug valves are acceptable. Paragraph 2.2 will be revised and Paragraph 2.3 will be removed from Section 15108 "Process Valves".

CCUA's Materials Manual and Standard Details can be accessed at the links below.
https://www.clayutility.org/engineering/materials_manual.aspx
https://www.clayutility.org/engineering/standards_details.aspx

7. Section 15108 lists out two different types of plug valves under 2.2 and 2.3. Please advise on what style is acceptable on the project. Please see the attached supporting documentation between the two.

   Response: Eccentric plug valves are preferred. Paragraph 2.3 will be removed from Section 15108 "Process Valves".

8. We are requesting ValMatic be a named pre-approved manufacturer for plug valves listed in section 15108 / 2.2.A as ValMatic is listed in the Clay County approved materials.

   Response: Val-Matic Valve & Mfg. Co. 5800RN Series is an approved manufacturer per CCUA materials manual, Page S-16. Section 15108 list of manufacturers will be revised.

   CCUA's Materials Manual and Standard Details can be accessed at the links below.
   https://www.clayutility.org/engineering/materials_manual.aspx
   https://www.clayutility.org/engineering/standards_details.aspx

9. Spec Section 02215. Is there a presumed quantity of settled grit/debris/solids and sludge removal in BTU No. 1? Can that quantity be added to Bid Form as a Unit Price?

   Response: The amount of sludge to be removed from BTU No. 1 is estimated to be approximately 150 cubic yards. The basin was last cleaned in 2015. A unit bid price for additional sludge to be removed will be included for this work in the revised Bid Form included in this addendum.

10. Spec section 02215. It is also stated the Contractor shall confirm groundwater level is below the lowest point of the bottom slab of BTU No. 1 prior to draining the tank, but it is also stated the Owner shall be responsible for draining the structure to the most extent possible. So how and why is the Contractor to confirm groundwater level? Should we estimate a certain number of monitoring wells encircling BTU No. 1?

    Response: The Owner will not begin dewatering until the groundwater level has been confirmed by the Contractor. Groundwater must be monitored while BTU No. 1 is drained. The Contractor can monitor the groundwater by any means necessary but it is recommended to install a minimum of one groundwater observation well in accordance with Section 02030 "Geotechnical Instrumentation and Monitoring".

11. Can the existing stormwater pond be used for construction dewatering discharge?

    Response: The existing stormwater ponds may be used for construction dewatering discharge provided that is allowed by the Contractor's dewatering permit with the State of Florida and meets the water quality limits of the permit. The portion of the stormwater pond containing media filtration shall be avoided

12. Note 7 on G-5. What is the approximate distance to this long-term storage? Is it on this site?

    Response: The long-term storage location is on-site. The actual on-site location will be as directed by CCUA.

13. Sheet M-8 (Pg.33 of 55): The Large Radius shown on both the ends are different. At one end it is 50'-4"and at another end it is 50'-1". Based on the all channel width and the 6" wall thickness dimension shown, it seems the small radius does not match with the outer radius of the same deck (i.e 23'-7" shown) and also does not match with large radius of 50'-1".

    Response: The long radius callout of 50'-4" will be updated to match the 50'-1" callout. These dimensions are based on an assumed wall thickness of 6" but the wall thickness will be dependent upon the delegated design as required in Section 13231 "Wire and Strand Wrapped Prestressed Concrete Tank".

14. The deck length from the c/L of the aerator recommended is 20 ft for 75 HP aerator. In section 1 on pg. 35 of 55 (Sheet M-10), the deck length shown at one end is 23.5 ft and at other end is 19.5 ft.

    Response: The deck length will be updated to indicate a length of 20-ft from the centerline of the aerators.

15. It seems that because of changes in large radius the overall inside to inside length and width shown on pg. 33 of 55 (Sheet M-8) do not match with calculated one. Calculated inside to inside Length: 21.33 + 40 + 86.5 + 50.08 = 197'-11" ft not equal to 198'-2" shown Calculated inside to inside Width: 26.75 + 0.5 + 22.58 + 0.5 +22.58 + 0.5 +26.75 = 100'-2" ft not equal to 100'-8" shown.

    Response: The inside dimensions will be updated. These dimensions are based on an assumed wall thickness of 6" but the wall thickness will be dependent upon the delegated design as required in Section 13231 "Wire and Strand Wrapped Prestressed Concrete Tank".

16. Section 11378 2.3.F – Prime and paint requirements for the mixers should be the same as the Aerators see section 2.2.E.

    Response: Prime and paint requirements for the mixers will be revised.

17. Section 11378 2.3.G.4 – Oil for mixer to be supply by contractor similar to Aerators see section 2.2.C.6

    Response: Supply of the oil for the mixers will be revised.

18. Section 11286, Par. 2.2.D.: The guides are listed as "weighing a minimum of 3 lbs per foot". This seems very light for stainless steel construction. Is this supposed to be "13 lbs per foot". A weight of 13 lbs per foot is our standard for wall mounted guides.

    Response: The guides within Section 11286 "Stainless Steel Gates" will not be updated.

19. Section 11286, Par. 3.6.G.: The field service requirements seem excessive the number of gates on this project. We respectfully request that the field service be reduced to a total of two separate trips including one 8-hour day per trip." We feel it is important to inspect the wide weir gates prior to grouting.

    Response: The field service requirements will be updated in Section 11286 "Stainless Steel Gates".

20. I noticed that there are no drawings of the tank structure in the bid set. Do you have the final drawings that Ovivo can review?

    Response: The tank manufacturer shall provide structural design drawings as a delegated design submittal in accordance with Section 13231 "Wire and Strand Wrapped Prestressed Concrete Tank".

21. I respectfully request that CDM Smith add Cintron Consultant Services, LLC, Florida to the Clay County's list of approved INSTRUMENTATION SYSTEM CONTRACTOR/SUPPLIER for the Fleming Island Wastewater Treatment Facility - BTU No.3 Expansion Project - Bid No. 19/20-A9 for the work specified in SECTION 16900 INSTRUMENTATION AND CONTROL.

    Response: Additional integrators will not be prequalified at this time.

22. Is another site visit allowed at the Fleming Island WWT Facility? If so, who could I schedule it with?

    Response: An optional site visit will be available on Wednesday, October 7, 2020 at 11:00 a.m. local time for contractors to inspect the site.

End of Addendum No. 1

SECTION 00300

BID FORM

PROJECT NO. 2203-132 **BID NO.** 19/20-A9
Fleming Island Wastewater Treatment Facility
BTU No. 3 Expansion
CLAY COUNTY UTILITY AUTHORITY

SUBMITTED BY: _____ DATE:_____

Company: _____

Email: _____

City/State/Zip: _____

Telephone No.: _____

Email: _____

The undersigned, as Bidder, hereby declares that the only person or persons interested in the proposal as Principal(s) is (or are) named herein and that no other person who is herein mentioned has any interest in this proposal or in the contract to be entered into; that this proposal is made without connection with any other person, company, or parties making a bid or proposal; and that it is in all respects fair and in good faith, without collusion or fraud.

The Bidder further declares that the Bidder has examined the site of the work and is fully informed in regard to all conditions pertaining to the places where the work is to be performed; that the Bidder has examined the plans and specifications for the work and contract documents relative thereto, that the Bidder has read all special provisions furnished prior to the opening of bids, and that the Bidder is satisfied as to the work to be performed.

The Bidder further understands that the AUTHORITY reserves the right to waive formalities in any Bid, to reject any or all bids with or without cause, and/or to accept the Bid or any portion thereof that, in the AUTHORITY'S sole and absolute judgment, will be in the best interest of the AUTHORITY.

The Bidder proposes and agrees, if this proposal is accepted, to contract with the AUTHORITY in the form of contract specified, to furnish all necessary materials, equipment, machinery, tools, apparatus, means of transportation and labor necessary to complete the contract in full and complete it in accordance with the shown, noted, described and reasonable intended requirements of the plans and specifications and contract documents to the full satisfaction of the contract with the AUTHORITY with a definite understanding that no money will be allowed for extra work except as set forth in the attached General Conditions and contract documents, as follows:

BID SCHEDULE:

Total Lump Sum Bid Price is the sum of the amounts shown for all items listed below and includes all labor, materials, equipment, permits, and incidentals necessary to perform the work as indicated in the Contract Documents based upon the Bidder's own estimate of the quantities and costs for a functional and complete system. Work includes, but is not necessarily limited to, all the items described in the Contract Documents, and generally described as follows:

- The Contractor is responsible for mobilization and demobilization from the site. Contractor shall be responsible for general conditions, performance and payment bonds, insurance and permits.

- The Contractor shall schedule and conduct his work such that it will not impede any part of the treatment process, create potential hazards to operating equipment and/or personnel, reduce the quality of the plant finished water or cause treatment process upsets.

- The Contractor is responsible for demolition of above and below grade utilities including, but not limited to, above grade concrete walls and foundations, miscellaneous equipment, buried piping, wire, and conduit. Removed items not to be salvaged shall be disposed off-site by the Contractor in accordance with local, state, and federal codes and requirements.

- The Contractor shall be responsible for temporary bypass pumping to complete the modifications to the Influent Structure and installation of the Automatic Transfer Switch. Bypass pumping will be set-up and ready to power the effluent pump station in the event that the standby generator fails during replacement of the electrical service and during modifications to the main breaker, and in the event normal power fails during replacement of the standby generator.

- The Contractor shall be responsible for settlement monitoring of existing structures during construction.

- The Contractor shall be responsible for site clearing and site grading to provide level ground for construction of Biological Treatment Unit (BTU) No. 3. A swale will be added between BTU No. 3 and existing BTU No. 2 to ensure site drainage.

- The Contractor shall be responsible for installing temporary silt fences and/or barriers as required to avoid silt or turbid water transport from the work areas.

- The Contractor shall construct, install and test yard piping improvements, including; influent biological treatment unit (BTU) No. 3 influent piping, BTU No. 3 effluent piping, BTU No. 3 drain piping and non-potable water piping.

- The Contractor shall construct, install and test modifications to the Influent Structure. Within the Influent Structure, the distribution box shall be extended to accommodate splitting flow to the new BTU No. 3 and a future BTU No. 4, including new weir gates. Contractor shall construct, install and submit the proposed system of protection of the Influent Structure and Odor Control Tank signed and sealed by a professional engineer.

- The Contractor shall relocate equipment associated with the odor control system at the Influent Structure and reroute the odor control piping and ductwork.

- The Contractor shall provide, install, test and commission the new BTU No. 3. BTU No. 3 shall be an elliptical carrousel process, 2-stage oxidation ditch with anoxic and aerobic zones, three aerators and two turbine mixers. The BTU tank shall be pre-stressed concrete.

- The Contractor shall construct, install and test the expansion of the existing Motor Control Center (MCC) to accommodate the new equipment associated with BTU No. 3. New variable frequency drives (VFDs) for BTU No. 3 aerators shall be installed and tested. The Contractor shall update the instrumentation and controls to accommodate the modifications to the Influent Structure and the new BTU No. 3 including integration of the upgrades into the plant supervisory control and data acquisition (SCADA) system.

- The Contractor will replace the effluent control gate in the existing BTU No. 1. A structural evaluation will be performed by the Engineer once BTU No. 1 is removed from service. The Contractor shall assist with preparation of BTU No 1 for the evaluation and shall remove and dispose settled grit/debris/solids and sludge from BTU No. 1. Recommendations for repair will be provided by the Engineer after completion of the evaluation. The intent is to incorporated repair recommendations will be added to the Scope of Work through a change order.

- The Contractor shall construct, install and test buried conduits from the existing Electrical Building to BTU No. 3. Contractor shall construct, install and test new fiber optic cable from the existing WWTF Office and Lab Building to the WWTF Electrical Building.

- The Contractor shall disconnect, remove and salvage the existing generator set and transport to a location on Site as directed by CCUA. The Contractor shall procure the services of the existing standby generator manufacturer to prepare the equipment for long-term outdoor storage in accordance with the equipment manufacturer's recommendations. The Contractor shall install and test a new standby generator, fuel piping and extend the existing generator pad.

- The Contractor shall be responsible for putting Project in operational order, adjusting, and balancing equipment, initial operation (startup) of equipment, operating equipment, starting systems, operations of systems, testing of equipment and systems, and demonstration and verification of the completed Work.

- The Contractor shall be responsible for site restoration, final cleaning, and project record drawings.

Total Lump Sum Bid: $_____
(Numerals)

Additive Alternate Unit Price Work

1. Overexcavation and fill with common fill for structures or utilities, includes excavation, backfill, installation and compaction

   1,500 cubic yards at $_____/cubic yard = $ _____

2. Removal and disposal of grit/debris/solids from BTU No. 1

   1,000 cubic yards at $ _____/cubic yard = $ _____

   Provide the total price for all Unit Price Work, an amount equal to the sum of the established unit price for each separately identified item in the Additive Alternate Unit Price Work times the estimated quantity of that item as indicated. Estimated quantities are not guaranteed, and determinations of actual quantities and classifications are to be made by Engineer as provided in the General Conditions.

Total Additive Alternate Unit Price Work $ _____
(Numerals)

ADDENDUM RECEIPT:
Bidders shall acknowledge below the receipt of all addenda, if any, to plans and specifications.

ADDENDUM NO. _____ DATED _____

ADDENDUM NO. _____ DATED _____

ADDENDUM NO. _____ DATED _____

BIDDER'S LICENSE INFORMATION:

Bidder's License Type: _____

Bidder's License Category (if any): _____

Bidder's License Special Qualification (if any): _____

Bidder's License No: _____

Bidder's License State: _____

License Name/Organization: _____

At the AUTHORITY's option, the Contractor shall be required to provide the AUTHORITY with the details of Contractor's Purchase Order, including vendor quote(s), vendor name, address, and quantity and type of materials being ordered. The AUTHORITY may choose to order the major materials and/or equipment direct. Should the AUTHORITY choose to do this, any payment that is made direct by the AUTHORITY (plus an amount equal to the sales tax that would have been paid by the Contractor) for the materials shall be a direct deduct from the Contractor's contract as if the payment were made direct to the Contractor. The whole purpose of this provision is to save the amount of sales taxes that would be otherwise assessed to the Contractor for the major material purchases.

It shall be the Contractor's responsibility to ensure conformance with contract requirements, coordinate ordering, deliveries, submit Shop Drawings, receive and verify accuracy of such shipments and, unload such shipments as if Contractor had purchased the materials direct. Any Shop Drawings received directly by the AUTHORITY from the suppliers will be forwarded by the AUTHORITY to the Contractor for the Contractor's review of accuracy and correctness of the Shop Drawings, and the Contractor shall provide an approval action on each product. Contractor then shall submit Shop Drawings to the Design Engineer for review and approval action. After the Contractor and Engineer have reviewed and approved the Shop Drawings, they then shall be submitted to the Clay County Utility Authority for review.

The Contractor shall include all risk of loss and bear the cost of insurance on all materials purchased tax exempt. Once the AUTHORITY's Purchase Order is prepared, then it will be returned to the Contractor for proofing and mailing to the vendor.

The Bidder further proposes and agrees to commence work under the Bidder's contract on a date to be specified in the Notice-to-Proceed and shall complete all work there under within the time schedule in the Agreement.

The Bidder has fully reviewed and informed themselves regarding the Bidding Documents. The Bidder, by submitting a Bid to the Authority, warrants that the Bidder conforms with all specified requirements including experience, present commitments, schedule, necessary facilities, MBE/WBE utilization, insurance verification, bonding capacity, local license(s), required Form(s), ability, and financial resources contained in the Bidding Documents. The Bidder shall provide any required proof of experience, license(s), form(s), coverages, requirements, and limits specified in the Bidding Documents within 10 days of the Bid Opening or the Owner may consider Bidder to be in default or non-responsive and reject the Bid and the Owner may then award the Bid to the next lowest conforming, responsive Bidder.

AN INDIVIDUAL:

By _____ (Seal)

(Signature)

_____

(Print Name)

Doing business as

Business Address: _____

Phone No: _____ Fax No: _____

A PARTNERSHIP:

_____ (Seal)

(Firm Name)

_____

(General Partner/Signature)

_____

(Print Name)

Business Address: _____

Phone No: _____ Fax No: _____

A CORPORATION:

_____(Seal)
(Corporation Name)

_____
(State of Incorporation)

By _____
(Signature of Person Authorized to Sign)

_____
(Print Name)

_____
(Title) (Corporate Seal)

Attest _____
(Secretary)

Business Address: _____
Phone No: _____ Fax No: _____

A JOINT VENTURE:

_____
(Business Name)

By: _____
(Signature)

_____
(Print Name)

_____
(Address)

By: _____
(Signature)

_____
(Print Name)

_____
(Address)

(Each joint venture must sign. The manner of signing for each individual, partnership and corporation that is a party to the joint venture should be in the manner indicated above).

The full names; business addresses; business and emergency telephone numbers of persons and firms interested in the foregoing bid, as principals, are as follows:

(If Corporation, President, Secretary, and Treasurer Identification)

ITEMS REQUIRED TO BE SUBMITTED WITH BID:

1. Fully completed and executed Bid Form
2. Required Bid Security
3. Public Entities Crimes Sworn Statement

ITEMS REQUIRED TO BE SUBMITTED POST-BID:

Refer to Section 00200, Instructions to Bidders, for items required to be submitted post-Bid by the three apparent lowest bidders.

SECTION 01720

RECORD DOCUMENTS

PART 1 – GENERAL

1.01 DESCRIPTION

A. Scope of Work

1. During construction: At the construction site, maintain for the Owner one (1) record copy of:

   a. Drawings

   b. Specifications

   c. Addenda

   d. Change Orders and other modifications of the Contract

   e. Engineer's Field Orders or written instructions

   f. Approved Shop Drawings, Working Drawings, and Samples

   g. Field Test Records

   h. Construction Photographs

2. After completion of construction: Contractor shall prepare and deliver to Owner "As-Built" plans which have been prepared by a Florida registered surveyor and mapper in accordance with CCUA's "As-Built Specifications Standards Manual" latest edition.

B. Related Requirements Described Elsewhere:

1. Shop Drawings, Working Drawings, and Samples: Section 01300 "Submittals".

2. Construction Facilities: Section 01500 "Construction Facilities".

3. CCUA "As-Built Specifications Standards Manual" (https://www.clayutility.org/engineering/development_permitting.aspx)

1.02 TERMINOLOGY

A. The terms “Record Documents” and “As-Built” are used interchangeably and have the same meaning.

1.03 MAINTENANCE OF DOCUMENTS AND SAMPLES

A. Store documents and samples in Contractor's field office apart from documents used for construction.

1. Provide files and racks for storage of documents.

2. Provide locked cabinet or secure storage space for storage of samples.

B. File documents and samples in accordance with CSI format with section numbers as provided herein.

C. Maintain documents in a clean, dry, legible condition and in good order. Do not use record documents for construction purposes.

D. Make documents and samples available at all times for inspection by the Engineer or the Owner.

E. As a prerequisite for monthly Progress payments, the Contractor is to exhibit the currently updated "Record Documents" for review by the Engineer and Owner. Payment may be withheld if record documents are not satisfactorily maintained.

1.04 RECORDING

A. Specifications and Addenda: Legibly mark each section to record:

1. Manufacturer, trade name, catalog number of Supplier of each product and item of equipment actually installed.

2. Changes made by Field Order or by Change Order.

B. Shop Drawings (after final review and approval): Provide six (6) sets of record shop drawings within the Operation and Maintenance Manual, for each process equipment, piping, electrical system and instrumentation system.

PART 2 – PRODUCTS (NOT USED)

PART 3 – EXECUTION

3.01 AS-BUILT SUBMITTALS

A. Procedure

1. Contractor's Florida registered surveyor and mapper shall obtain all required field information.

2. Contractor shall obtain the electronic CAD files from Engineer.

3. Contractor shall incorporate the field information into the electronic CAD files.

4. Contractor shall insert the as-built certification block onto all CAD drawing files (regardless of whether information on the particular drawing file has changed from the design or not). The as-built certification block shall contain, as a minimum, the following information:

   a. The words "AS-BUILT" in 1" high letter.

   b. The Contractor's name, address and telephone number.

   c. The Florida registered surveyor and mapper's name, address and telephone number.

   d. The date the as-built drawings were prepared.

   e. Information listed in the CCUA's "As-Built Specifications Standards Manual".

   f. Submit the modified electronic CAD files, along with a PDF document of the CAD drawings, to Engineer for review as a Shop Drawings submittal.

   g. Incorporate comments received and resubmit.

5. All AS-BUILTs shall be reviewed and certified the Contractor.

6. All AS-BUILTs shall be signed and sealed by a Florida registered surveyor and mapper.

B. At Contract closeout, deliver Record Documents to the Engineer for the Owner. Record Documents which do not comply fully and completely with CCUA's "Standard As-Built Specification Manual" will be rejected.

C. For water/wastewater plant facilities include the following requirements in the "As-builts":

A. Buildings: Coordinates of all ground floor corners (x, y, z) and finished floor elevations.

B. Rectangular tanks/treatment units: Coordinates (x, y, z) of all corners with top, bottom, and finished grade elevations.

C. Circular tanks/treatment units: Coordinate at center (x, y, z) and four (4) quadrants of outer walls with top, floor and finished grade elevations.

D. Roadways/Driveways: Coordinates (x, y, z) of edge of road/driveways/ sidewalks and centerlines at a maximum interval of fifty (50) feet.

E. Drainage: Coordinates (x, y, z) of above and below ground improvements impacted by construction including the next upstream or downstream structures. Callouts designating each size, slope, material, pipe, and structure.

F. Permanent Reference Points: Provide coordinates (x, y, z) for a minimum of two property corners on plant sites or lift station sites. On linear projects provide coordinates (x, y, z) every 500 feet with at least two.

D. Accompany submittal with transmittal letter in duplicate, containing:

1. Date

2. Project Title and number

3. Contractor's name and address

4. Title and number of each Record Document

5. Signature of Contractor or his authorized representative

END OF SECTION