Macon Water Authority

ADDENDUM No.3

Rebuild Gravity Thickeners 1,2, and 3 and Clarifier #6 at Rocky Creek WRF

MACON, GEORGIA

DATE: October 15th, 2026

To: All Bidders

This addendum forms a part of the Contract Documents and modifies the original Specifications and Contract Documents as noted below. Acknowledge receipt of this addendum in the space provided on the Bid Form. Failure to do so may result in disqualification of the bidder.

SPECIFICATIONS & CONTRACT DOCUMENTS

SECTION 00100 – INSTRUCTIONS TO BIDDERS: Delete this section in its entirety and replace with the revised Section 00100 bearing "Addendum Number 3" in the header. **The Bidder must submit a Photocopy of State of Georgia Utility Contractor's License when submitting his or her bid.**

QUESTIONS

1) **QUESTION**: We would like to request that Ovivo (previously EIMCO) be added as an approved equal for the Thickener and Clarifier Drives and Mechanisms.
   RESPONSE: The project will remain aligned with the specified requirements.

2) **QUESTION**: The Thickener Replacement Specification does not have a sludge removal section. The thickener drawings (DWG No. 23930D2) depict rake arms with segmented blades and pickets. Please confirm that segmented rake arms and pickets are to be supplied for sludge removal in the thickeners.
   RESPONSE: Yes, segmented rake arms and pickets are to be supplied for sludge removal in the thickeners with the same design as existing.

3) **QUESTION**: Multiple sections of the Thickener Replacement Specification reference the "Equipment Design Criteria", but there is no "Equipment Design Criteria" in the Thickener Replacement Specification. Please clarify what design criteria is required for the thickeners.
   RESPONSE: Please see ***Attachment 1: Rocky Creek WRF Thickeners Equipment Design Criteria***

4) **QUESTION**: The Thickener Replacement Specification refers to a continuous, momentary peak, and maximum overload torque that are listed in the "Equipment Design Criteria". As mentioned above the design criteria is not in the specification. Please confirm the torque values that are being referenced.
   RESPONSE: Per the design specs:
   Running Torque – 42,200 ft-lbs
   Alarm Torque – 50,640 ft-lbs

Motor Shut-off Torque – 63,300 ft-lbs

5) **QUESTION AND RESPONSE IN BLUE**: We request the following information for Thickeners 1, 2 & 3:

Design Flow (MGD) – 0.864 MGD (600 gpm)
Max Flow (MGD)- No max provided in plant design specifications.
Design Solids Loading Rate (lbs/day) – 25,000 ppd
Max Solids Loading Rate (lbs/day)- No max provided in plant design specifications.

6) **QUESTION**: The thickener drawings (DWG No. 23930D3) depict a spray system, but the Thickener Replacement Specification does not include a spray system. Please confirm whether a spray system is to be supplied by the equipment manufacturer on both the clarifier and thickeners.

RESPONSE: Omit the spray system from the thickeners. Clarifier spray system including the stainless steel pipe shall be provided and installed by the contractor.

7) **QUESTION**: The clarifier drawings depict a peripheral influent feed with inset effluent launders. Please confirm if this feed type is to be maintained or if the feed will enter through a stationary influent column and disperse into a feedwell as described in the Clarifier Replacement Specification.

RESPONSE: Feed shall disperse into a feedwell as described in the Clarifier Replacement Specification.

8) **QUESTION**: Section 3.F.a of the Clarifier Replacement Specification states that squeegees should be fastened to the rake blades with 316L bolts and 304L nuts. Section 3.I.a of the Clarifier Replacement Specification states that all anchor bolts shall be 304 SS with 316 SS nuts. Please confirm if this is correct, or if the materials for the squeegee fasteners should match Sections 3.I.a.

RESPONSE: Match 3.I.a

9) **QUESTION**: The feedwell sections of both the Clarifier and Thickener Replacement Specifications include the supply of removable scum baffles over the feedwell ports. Are the baffles intended to removable while the unit is in service? The baffles are technically removable by undoing the fasteners, but this would be difficult while the unit is in service. WesTech can supply adjustable feedwell baffles. Please clarify what is expected by "removable baffle", and if adjustable baffles are acceptable.

RESPONSE: Adjustable baffles are acceptable.

10) **QUESTION**: The feedwell sections of both specifications also include the supply of 3/4" stainless steel water line to direct water to the feedwell. If this line is meant to be included, please verify if the water line (piping, nozzle, valve) is to be provided by the contractor or by the equipment manufacturer.

RESPONSE: Yes, the water line (piping, nozzle, valve) shall be supplied by the contractor.

11) **QUESTION**: Bid Item 2 describes concrete repairs and chemical-resistant lining, while the Clarifier #6 technical specification requires a complete 130-foot mechanism, including the drive, bridge, platform, center column, feedwell, cage, sludge collection components and scum equipment. Please confirm that Bid Item 2 includes removal and replacement of the complete clarifier mechanism in addition to concrete repairs and lining, identify any existing components to be retained, and issue a corrected bid-item description establishing a common pricing basis.

RESPONSE: This project is for the complete replacement of the clarifier mechanism to include all rotating assemblies, drive, bridge and platform, feedwell, center column, cage, sludge collection components, scum trough, baffles, weirs, electrical, and lighting.

12) **QUESTION**: The thickener specification repeatedly references Equipment Design Criteria for operating torque, maximum overload, momentary peak torque, column diameter and feedwell dimensions. It specifies a minimum 36,000 ft-lb continuous gear rating, but we could not identify a complete current schedule establishing the remaining requirements. Historical drawings are referenced. Please provide the governing design criteria for Thickeners 1, 2 and 3—including operating speed, torque ratings, alarm and shutdown settings, peak flow, center-column diameter, feedwell dimensions and scum-trough dimensions—or explicitly identify which historical drawing values govern the new equipment.

RESPONSE:

Operating Speed	2 rpm
Design Torques	listed above
Thickener Feedwell Dimensions	10 ft. diameter, 8 ft. depth (7.5 ft. submerged)
Center Column Diameter	Believed to be 36 in., contractor to field verify
Scum Trough Dimensions	See **Attachment 4: Rocky Creek WRF Thickener Scum Trough Detail**

13) **QUESTION**: Addendum 1 requires stainless steel bridge construction. However, the technical specifications describe aluminum grating, aluminum handrails and aluminum center-drive platform flooring. They also require comparative 304L and 316L structural pricing, without a corresponding alternate entry on the bid form. Please confirm whether the stainless steel requirement supersedes the aluminum requirements for grating, handrails and platform flooring; issue a component material schedule; and identify the required base-bid grade and method for submitting the 316L comparison price.

RESPONSE: Aluminum grating, handrails and platform flooring. Use 304 SS on bridge construction as per Addendum 2.

14) **QUESTION**: The clarifier specification requires a biological-inhibiting coating over the effluent trough. The attached coating specification identifies the Sherloxane 800 algae-control coat as optional. The documents also require treatment of damaged areas exposing reinforcing steel without establishing a quantified repair scope. Please identify the mandatory base-bid coating system, including whether Sherloxane 800 is required, and provide the coating limits and required film thicknesses. Please also establish a common

bid quantity, allowance or unit-price basis for concrete repairs whose extent will be determined after cleaning and inspection.

RESPONSE: Yes, the Sherloxane 800 coating is required on clarifier #6. Sherwin-Williams spec reads 6-8 mils thick. See ***Attachment 2: Rocky Creek WRF Final Clarifier #6 Painting and Surface Area Repairs*** drawing of coated area of the effluent trough. Please base the concrete repairs on 200 sq ft.

15) **QUESTION**: The thickener motor specification calls for local Hand/Off control, while the center-drive platform specification calls for Hand/Off/Auto control. New drives also require remote 4–20 mA torque feedback and overload alarm/shutdown functions. Historical electrical drawings are included, but we could not identify a current termination or input/output schedule for the new equipment. Please resolve the Hand/Off versus Hand/Off/Auto requirements and provide the required operating sequence, signal destinations and wiring interfaces. Identify which existing feeders and controls are reused, required panel or PLC/SCADA modifications, and responsibility for programming, integration and functional testing.

RESPONSE: Yes, a switch for Hand/Off/Auto is required. MWA will investigate and provide further details.

16) **QUESTION**: We have received requests from potential subcontractors to also look at the site. Is it possible to provide additional days for site visits that our subcontractors could attend?

RESPONSE: Additional site visits are not a problem, but the equipment will be in service.

17) **QUESTION**: It was noted in the pre-bid conference and is referenced in the documents that a Georgia Utility Contractors License is not needed for this project. However, according to GA Code 43-14-2(33) and 43-14-8.2 that a Georgia Utility Contractors License would be required for this project. Please confirm if a Georgia Utility Contractors License is required.

RESPONSE: **Georgia Utility Contractors License is required. See the revised Section 00100 - Instructions to Bidders attached, to be used moving forward.**

18) **QUESTION:** Please confirm if the sludge thickeners are to receive any protective coatings.

RESPONSE: No.

19) **QUESTION**: Please confirm if the splitter box can be isolated by existing plant infrastructure for the replacements of the (3) three slide gates.

RESPONSE: Yes.

20) **QUESTION:** Reference Appendix A-Rocky Creek Thickener 1,2,3 Replacement Specification, Part 2-General Requirements; subpara B. Major Components. These do not mention rake arms nor pickets and just to clarify, no new rake arms nor pickets are required. Please confirm.

RESPONSE: Complete replacement of all components is required.

21) **QUESTION**: Reference Appendix A-Rocky Creek Thickener 1,2,3 Replacement Specification, Part 2-General Requirements; subpara 3, Equipment Description, subpara A, items 1 thru 12, no mention is made of the weir plates and baffle plates, although these are called for by name as required earlier in the specification. The size of these elements for the Thickener does not appear to be shown on the Thickener drawings in Appendix D. (Note: size of weir plates and baffle plates are shown for the existing Clarifier; however, these may not be the correct size for the Thickener. Please provide the size of weir plates and baffle plates required for the Thickener.

RESPONSE: Please see sketch with details provided in ***Attachment 3: Rocky Creek WRF Thickener Weir and Baffle Dimensions.***

22) **QUESTION**: Reference Appendix A -Rocky Creek Thickener 1,2,3 Replacement Specification, Part 2-General Requirements; subpara 3, Equipment Description, subpara A, items 10a-Feedwell, calls for material to be 304 SS with alternate pricing for 316L SS. Please clarify if spec should read 304L SS with alternate pricing for 316L SS.

RESPONSE: Refer to Addendum 2. Alternate pricing for 316L SS is no longer required.

23) **QUESTION**: Reference the Bid Form, Item 1, if new weir plates and baffle plates for the Gravity Thickeners are to be included here, these items should be added by name to this description for item 1. Please clarify.

RESPONSE: Weir plates and baffle plates for the Gravity Thickeners are to be included in the work for this Item.

24) **QUESTION**: Please note that in my earlier note to you dated Sep 30, 2026, we brought to your attention that the current Bid Form (format) does not allow for the insertion of pricing for BOTH requested items designed with 304L SS AND for the same items designed with 316L SS. The Bid Form requires further attention to accommodate BOTH these prices.

RESPONSE: For items that allow for 304L SS, with 316L SS as an alternate, only pricing for 304L SS is required on the bid. Alternate pricing for 316L SS is not required to be provided on the bid. Pricing for 316L SS shall only be required on the bid for items specified such as the Hoffman Stainless Steel Junction Box.

25) **QUESTION**: In Addendum 2, for Question #2 MWA's response was "MWA requests stainless steel be 304L (for fabricated structural steel products). No comparable pricing is needed." This reply is then compared to answers by MWA further into the Addendum.

RESPONSE: MWA requests that stainless steel be 304L SS. No comparable pricing is needed.

26) **QUESTION**: In Addendum 2, for Question #5 MWA's response was "Yes, it should read 304L SS and 316L SS." The Bid Form in its current state does NOT allow for alternate pricing. Therefore, it is suggested that the reference to providing pricing for 316L SS be deleted, otherwise the Bid Form needs revision and a place for pricing these products specifically referred to here, in 316L SS, be incorporated.

RESPONSE: MWA requests that stainless steel be 304L SS. No comparable pricing is needed.

27) **QUESTION**: In Addendum 2, for Question #6 MWA's response was "This should read 304L SS and 316L SS." The Bid Form in its current state does NOT allow for alternate pricing.
RESPONSE: MWA requests that stainless steel be 304L SS. No comparable pricing is needed.

28) **QUESTION**: Are troughs and tanks at thickeners to be coated?
RESPONSE: No.

29) **QUESTION**: Will equal manufacturers be accepted for equipment replacement?
RESPONSE: Yes, except for coating work on Clarifier 6.

30) **QUESTION**: Is the main basin to receive coatings at the clarifier?
RESPONSE: Diagram of coating area supplied in ***Attachment 2: Rocky Creek WRF Final Clarifier #6 Painting and Surface Area Repairs*.**

31) **QUESTION**: Please identify any third-party testing or inspection that must be provided and paid for by the Contractor, including coating inspection, concrete repair testing, electrical testing and gate leakage testing.
RESPONSE: Sherwin-Williams should be contacted to inspect the coating work as it progresses.

32) **QUESTION**: Gearbox Replacement: Addendum No. 2 states that the equipment is to be a direct replacement with the exception of the gearbox. Please clarify what changes to the existing gearbox design the Owner is.
RESPONSE: Gearbox design is specified under section 3. Equipment Description under Clarifier #6 Mechanism Replacement Specification as well as the Thickener 1, 2, and 3 Replacement Specification.

33) **QUESTION**: The original specifications identify aluminum grating, handrails, and platform flooring, while the addendums clarify that the bridge structure is to be stainless steel. Please confirm that aluminum grating, handrails, and platform flooring are still acceptable.
RESPONSE: Bridge shall be constructed of 304L SS. Grating, handrails, and platform flooring shall be aluminum.

34) **QUESTION**: Gate Replacement and Flow Isolation: Can the splitter box be taken completely out of service for replacement of all three gates, or must flow be maintained through the structure during installation?
RESPONSE: The splitter box can be left completely isolated for up to a week. If the anticipated time is beyond that, plans will have to be made to do the work with flow going to the structure.

35) **QUESTION**: Will Macon Water Authority be responsible for draining, cleaning, and removing accumulated sludge from the thickeners and clarifier before the contractor begins demolition?
RESPONSE: MWA will drain and wash down the units.

36) **QUESTION**: Please confirm whether the contractor is responsible for removing and disposing of all existing thickener mechanisms, clarifier equipment, and gates, or whether any components are to remain onsite for the

RESPONSE: All demo'd material is to be disposed of by the contractor.

37) **QUESTION**: The Invitation to Bid requires a 10% bid bond, while the Instructions to Bidders appear to require 5%. Please confirm the required.

RESPONSE:

38) **QUESTION**: Please confirm whether any temporary pumping, bypassing, temporary treatment equipment or other temporary operating provisions will be required during the planned outages or if they can be used to shrink.

RESPONSE: No bypassing required.

39) **QUESTION**: Please provide the allowable outage duration for each thickener, Clarifier No. 6 and the slide/weir gates. Also confirm whether Clarifier No. 6 and gate work may proceed concurrently with one of the thickener replacements.

RESPONSE: Clarifier #6 can be down for approximately three months with allowances for extra time based on unforeseen issues. The thickeners can be left down for three to four months each. Yes, Clarifier No. 6 and gate work may proceed concurrently with one of the thickener replacements.

ATTACHMENTS

Attachment 1: Rocky Creek WRF Thickeners Equipment Design Criteria
Attachment 2: Rocky Creek WRF Final Clarifier #6 Painting and Surface Area Repairs
Attachment 3: Rocky Creek WRF Thickener Weir and Baffle Dimensions
Attachment 4: Rocky Creek WRF Thickener Scum Trough Detail
Attachment 5: ***SECTION 00100 – INSTRUCTIONS TO BIDDERS***

REQUIRED CONFIRMATION OF RECEIPT:

Acknowledge receipt of this addendum by return e-mail and as required on the Bid form *"Section 00300-4" of the contract documents.

1-1/2-inch diameter shaft which is secured to the frame assembly by two grease lubricated pillow block bearings. The sprocket shall be aligned and the chain shall be tensioned through a spring tensioner maintaining proper synchronization of the drive and idler sprockets.

(1) Motor: The motor shall be designed and manufactured in accordance with the standards of NEMA and shall have the following characteristics:

Design B
3/4 Horsepower
1800 RPM
460 volt, 60 Hz, 3 phase
Class B insulation
Service factor - 1.15
Continuous duty
TEFC

Motor shall be equal to General Electric, Westinghouse, Reliance or U.S. Electric.

(2) Gear Reducer: The reducer shall be a helical worm gear type that shall be shaft mounted to the drive assembly. The reducer ratio shall be 60:1 with a nominal output speed of 30 RPM. The reducer shall have a minimum service factor of 1.25 based on the input brake horsepower.

(3) Over Torque Protection: The bar screen shall be equipped with a limit switch. The limit switch shall sense torque motion in the gear motor arrangement in the event of blockage or interference of the stepping grid. The motor starter shall be interlocked with the torque sensing switch so as to alarm and shut down the unit in the event of a fault condition. The switch shall be suitable for 115 volt AC single Phase current and provide two (2) normally open contacts for remote control.

(d) Testing: The equipment shall be test run in the factory and thoroughly inspected by the manufacturer prior to shipment to insure the proper interface and adjustment of all parts. The manufacturer shall provide the Engineer with a certified statement of performance.

(e) Manufacturer: The bar screen shall be Model RST-2486 as manufactured by Hycor Corporation or equal.

GRAVITY THICKENERS: The gravity thickeners shall be circular, center supported, half-bridge scraper design with center feed and peripheral flow.

(a) Operating Requirements: Gravity thickener units shall meet the following requirements:

Hydraulic loading, gpm	600
Solids loading, pounds dry solids/day	25,000

(b) General: All fabricated structural steel shall meet the requirements of ASTM A-36. All welding shall conform to AWS D 1.0. Except where

ifically indicated otherwise, all plates and structural members shall a minimum thickness of 1/4-inch. All members shall be hot dipped anized after fabrication.

icated assemblies shall be shipped in the largest sections permitted by ier regulations and properly match-marked for ease of field erection. bolted connections will be allowed in the field. Stainless steel anchor bolts, with necessary hex nuts and washers, shall be provided all parts of the unit to be secured to the tank.

crete floor slopes shown on the Drawings shall be adjusted to suit pment requirements. Scraper arms shall be used as a reference only and to sweep grout into place.

(c) Center Cage and Scraper Arms: The center cage shall be of all-welded truction and furnished in not more than two (2) sections, necessitating one (1) bolted field connection.

center cage shall support the scraper arms and shall be suspended from driven by the main spur gear. Scraper arms shall have steel flights adjustable squeegees.

(2) gravity thickener arms equipped with scraper blades set and spaced scrape settled sludge from the tank bottom to a hopper located at the ter of the tank, shall be attached to and rotated by a center cage. The s shall be of a structural steel box truss design and shall be quately braced. Vertical steel pickets shall be attached approximately ery two (2) feet on the arms. The pickets shall be a minimum of four (4) t high at the tank wall. Steel scraper blades shall be securely tened to the arms and provided with adjustable brass squeegees which l project 1-1/2-inch below the bottom of the blades.

ch rake arm shall be designed to withstand twice the rated torque of the ve unit without overstressing the members.

(d) Center Pier: A cylindrical steel center pier shall support the drive, ckener mechanism, and access bridge and shall be secured to the concrete se with anchor bolts. The manufacturer shall provide a template to cilitate accurate location of the anchor bolts. Include inside the nter pier an 8-inch diameter steel pipe connected to the influent pipe for the purpose of delivering flow into the Gravity Thickeners.

(e) Influent Well: An influent center well shall provide even distribution of flow into the tank. The well shall not be less than 0 feet in diameter with minimum side depth of 8 feet.

A minimum of four (4) scum ports, 4-inches high by 16-inches long shall be provided.

(f) Access Bridge: An all-welded structural steel access bridge shall extend from the wall of the tank to a point beyond the center pier to provide convenient access to the drive. A drive platform, minimum 8 feet by 8 feet, shall be provided as shown on the Drawings. The bridge shall be designed to support, in addition to the dead load, a live load of 100 pounds per square foot, with a deflection not exceeding 1/360 of the span.

Attachment 1: Rocky Creek WRF Thickeners Equipment Design Criteria

g'-6" walkway, with aluminum grating, shall extend over the entire bridge ength. Handrail shall be furnished for each side of the walkway and latform. Grating and handrail is specified in Section 5.

(g) Scum Removal: Each thickener shall be provided with two (2) surface immers to skim the tank surface from the center feed well to the scum affle. The surface skimming equipment shall consist of L-shaped deflector lades supported from the influent baffle and the trussed supporting arm. a hinged wiper assembly shall be mounted on the other end of the deflector lade. The hinged wiper assembly shall be so constructed as to form a ocket for trapping the scum. In addition to the hinged arrangement, there hall be two (2) pivot joints to insure continuous contact and proper lignment between wiper blade, scum baffle and beach as the blade travels the beach. Each wiper blade shall have a neoprene wearing strip on its ter end which is in contact with the scum baffle and a Neoprene strip on its lower and inner edge. The wiper blades shall move up the beach, oncentrating the scum trapped in the skimmer arm pocket to minimize the mount of flushing water required. The scum trough and beach shall be of elded steel construction, adequately supported from the tank wall and oviding a 6-inch standard pipe flange connection for the scum discharge ipe. The beach shall be 72-inches wide minimum.

rnish and install limit switches for the scum box spray wash system. All hwitt switches shall be equal to Square D, Class 9007, Type C, rated NEMA , submersible with epoxy encapsulated contacts, O-ring shaft seal and oxy coated, pre-wired STO cord sealed.

(h) Drive: The drive shall consist of primary and intermediate gear ducers and an enclosed final reduction unit consisting of a pinion and ur gear.

(1) Rating: The drive unit shall be rated for a running torque of not less than 42,200 ft.-lbs., an alarm torque of not less than 50,640 ft.-lbs., and a motor shut-off torque of not less than 63,300 ft.-lbs. The running torque shall be defined as AGMA minimum 24 hours/day, 20-years continuous per AGMA 218.01. Structural calculations shall be submitted by the manufacturer to verify strength and durability of spur gear. Calculations shall be strictly per AGMA 218.01.

The mechanism shall be designed to operate continuously or intermittently at a speed of at least one revolution in 30 minutes. The maximum peripheral speed of the gravity thickener arms shall not exceed 15 FPM.

(2) Final Reduction: The spur gear shall be mounted on a large anti-friction ball bearing assembly of cast or forged steel construction. The bearing race shall be a minimum of 45-inches in diameter. Balls shall be a minimum of 1-1/4-inches in diameter, of the finest quality carbon, chrome alloy steel.

Spur gear surface area shall be a minimum of 1000 square inches. Spur gear surface area is defined as follows:

Spur Gear Surface Area = 3.14 x Spur Gear Pitch Diameter x Spur Gear Face Width

Bearing surfaces shall be replaceable hardened alloy steel. A turntable, integral with the spur gear, shall support the center cage and scraper mechanism. The final reduction pinion shall be of heat treated steel and shall be mounted on the slow speed shaft of the intermediate gear reduction unit. All pinions shall be supported at both top and bottom by bearings. The gear, pinion and large anti-friction ball bearing shall run in an oil bath within the final reduction housing. This housing shall be effectively sealed against contaminants by a felt or neoprene strip and dust seal. Provide an oil filling and level pipe with a drain plug.

(3) Intermediate Reducer: The intermediate reducer shall be a totally enclosed oil bath lubricated worm gear unit mounted on a machined face on the top of the final reducer and properly registered to maintain accurate location of the final reduction gearing.

The overload device shall be actuated by the thrust from the worm shaft and shall have two limit switches to provide one contact closure when the load on the mechanism approaches the overload and a second contact closure when the overload occurs. Switches shall be wired to controls included in CP-GTAP.

(4) Primary Reducer: The primary speed reducer shall be an oil bath lubricated worm or helical gear unit driving the intermediate reducer through a steel chain and sprocket. The primary reducer shall be mounted on an adjustable steel base supported from the intermediate reducer. The steel base shall provide sufficient adjustment for proper chain tension. Provide an OSHA approved removeable chain guard.

Furnish a shear pin alarm device to activate a contact in the event the shear pin fails. Torque shall be indicated at the drive.

(5) Motor: The motor shall be designed and manufactured in accordance with the standards of NEMA and shall have the following characteristics:

Design B
1.0 Horsepower
1800 RPM
460 volt, 60 Hz, 3 phase
Class H insulation
Service Factor - 1.15
Continuous Duty
Totally enclosed, fan cooled

Motors shall be equal to products of General Electric, Westinghouse, Reliance or U.S. Electric.

The motor shall drive the primary reducer through a flexible coupling. Provide approved coupling guard.

Installation: Install in strict accordance with the manufacturer's recommendations. After installation the unit shall be tested to substantiate the shut-off torque. Method of testing shall be approved by the Engineer.

Test: The equipment manufacturer shall perform a static torque test to substantiate the thickener mechanism shut-off torque specified. This test shall be performed by methods approved by the Engineer.

The mechanism shall also exhibit no permanent deformation of any components. If deformation does occur or correct torque is not achieved, the defective parts shall be replaced by the mechanism manufacturer and retested at no cost to the Owner.

Manufacturer: The gravity thickener shall be manufactured by Eimco, Walker Process, Envirex, Dorr-Oliver or equal.

THICKENED SLUDGE PUMPS: The sludge pumps shall be horizontal, heavy duty positive displacement, progressing cavity type.

Operating Requirements: Each pump shall meet the following requirements:

Rated capacity, gpm	250
Rated TDH, feet	90
Maximum RPM	280

Body: The pump body and bearing housing shall be of high quality, close grained cast iron of proper cross section to withstand all stresses incidental to service. Suction and discharge connections shall be 125 pound cast iron ASA flanges, minimum 6-inches in diameter.

Rotor: The pump rotor shall be machined of tool steel, air hardened to a Rockwell "C" hardness of 57 to 60 and covered with a heavy layer of hard chrome plate for abrasion resistance.

The rotor shall be joined to the drive shaft by a connecting rod and grease-lubricated, sealed universal joints of adequate design to transmit the required thrust and torque while allowing the rotor to move through its required eccentric path. The angle of deflection of the rotor from the extended drive shaft alignment shall not exceed 2 degrees.

Stator: The rotor shall rotate within a medium-high acrylonitrile "N" rubber stator of approximate 65 Durometer hardness (Shore A) chemically bonded to high strength steel tube.

Shaft and bearings: The shaft shall be mounted in two (2) ball bearings or two (2) tapered roller bearings. The B-10 life of the bearings shall be in excess of 30,000 hours at rated operating conditions. Fittings shall be provided for grease lubrication of the bearings.

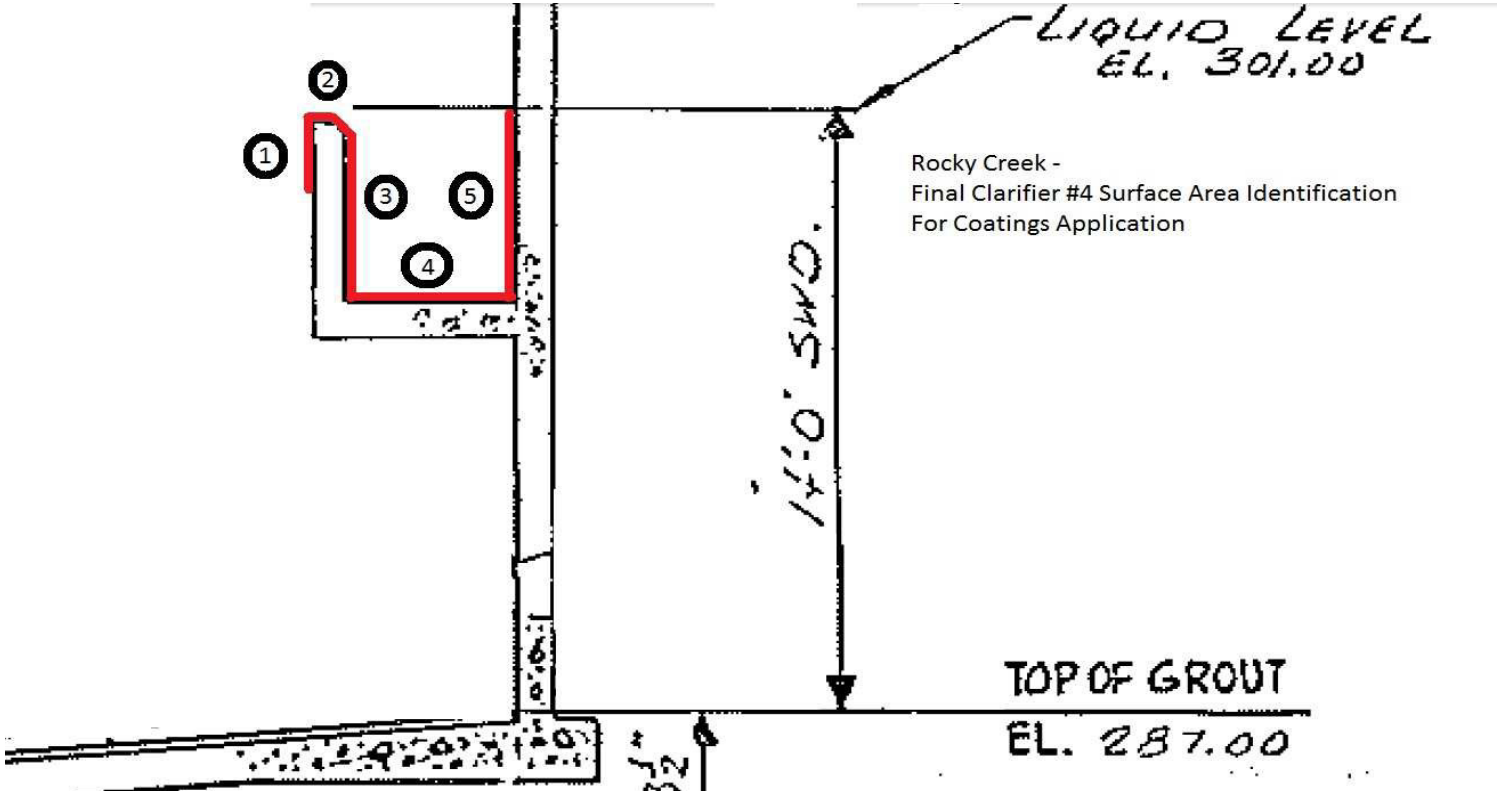
Stuffing Box: The stuffing box shall be equipped with a ductile iron gland and a split teflon lantern ring. The box shall be suitable for either grease lubrication or water seal. The construction shall be such

Attachment 2: Rocky Creek WRF Final Clarifier #6 Painting and Surface Area Repairs

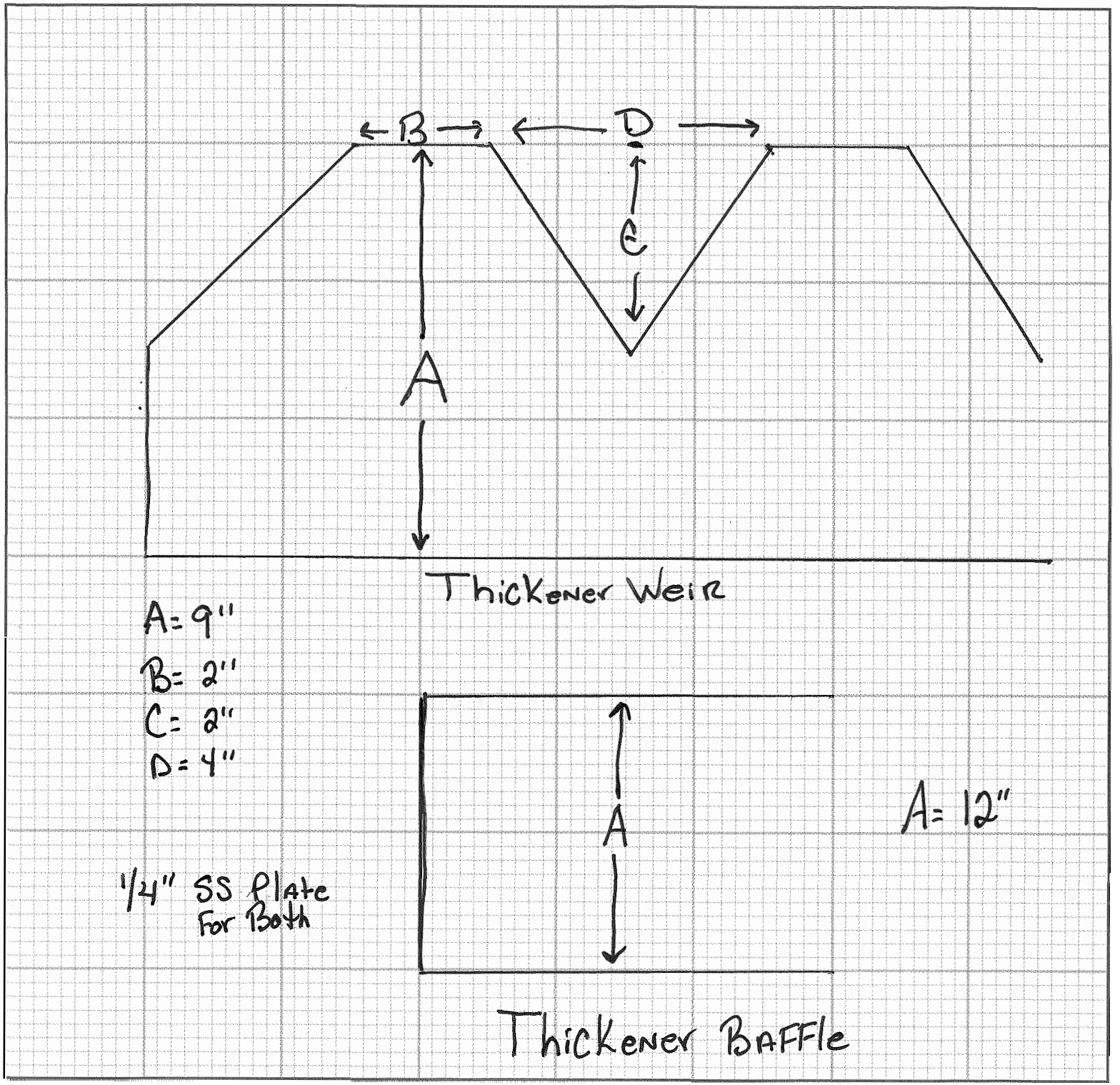
Rocky Creek Final Clarifier 6 CIP Project

Painting and Surface Area Repairs - Final Clarifier #6

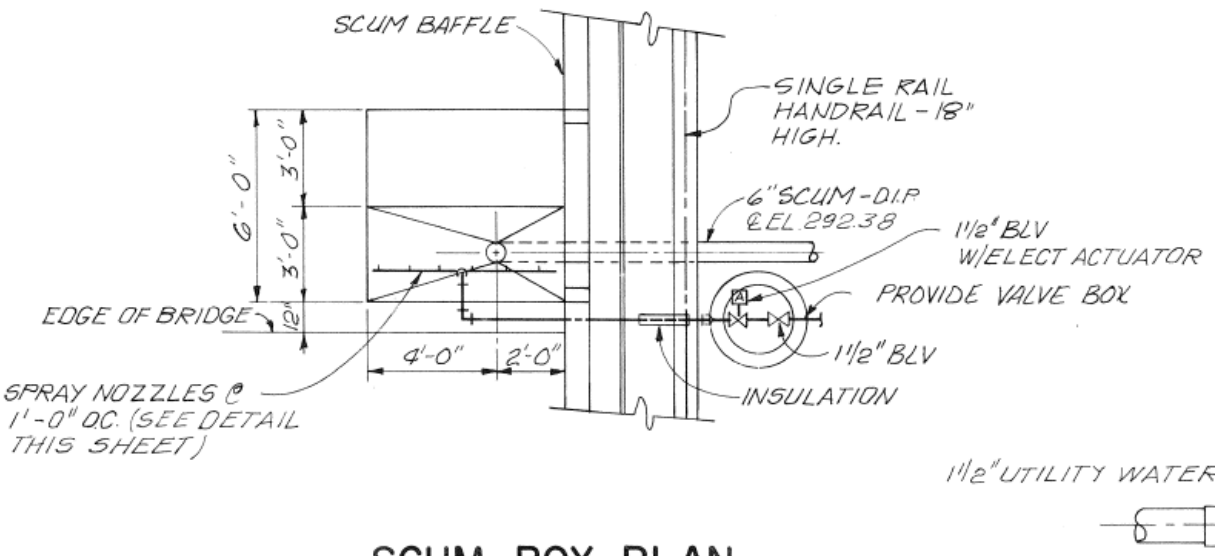
Coverage is marked in RED. The coating shall extend below the bottom of the weirs on wall #1.



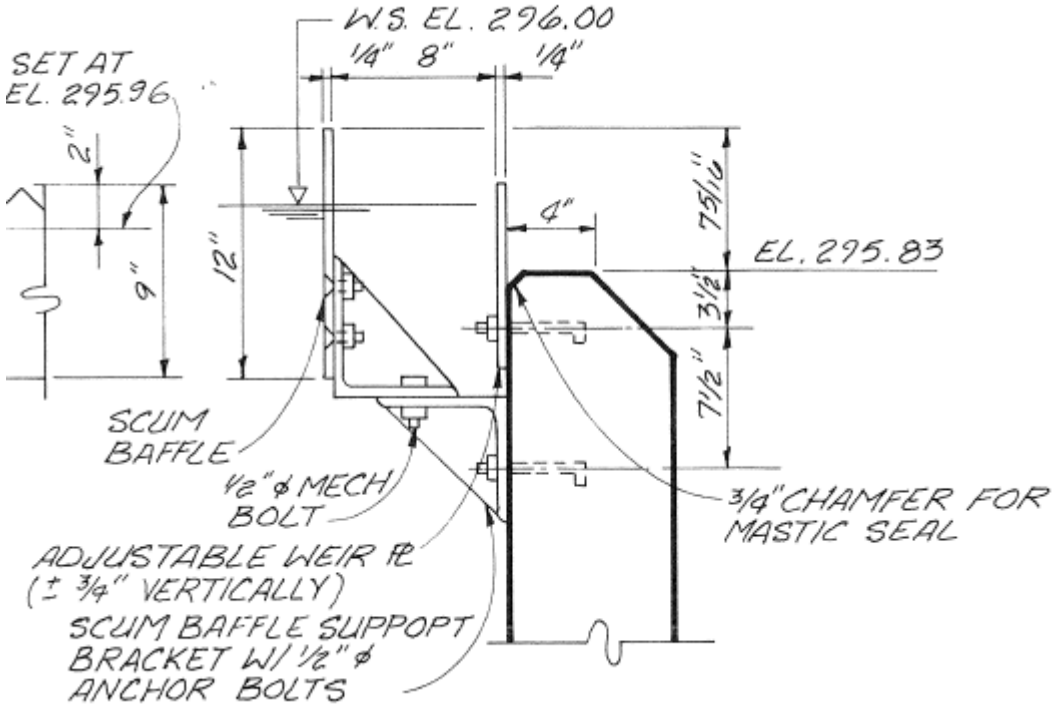
Attachment 3: Rocky Creek WRF Thickener Weir and Baffle Dimensions



Attachment 4: Rocky Creek WRF Thickener Scum Trough Detail



SCUM BOX PLAN



SECTION 00100

INSTRUCTIONS TO BIDDERS

1.01 CONTRACT DOCUMENTS

A. The Bidder's attention is directed to the General Conditions and other Contract Documents, all of which should be reviewed and studied by the Bidders before submitting a Bid.

B. The Contract Documents shall define and describe the complete Work to which they relate.

1.02 DEFINITIONS

The Bidder's attention is called to the definitions set forth in Article 41 of the General Conditions.

1.03 PREPARATION AND EXECUTION OF BID

A. Each Bid must be prepared to represent that it is based solely upon the materials and equipment specified in the Contract Documents.

1. *Trade Names.*— When reference is made in the Contract Documents to trade names, brand names, or to the names of manufacturers, such references are made solely to indicate that products of that description may be furnished and are not intended to restrict competitive bidding. Unless requests for approvals of other products have been received and approvals have been published by addendum in accordance with the procedure described below in this Section, the successful Bidder may furnish no products of any trade names, brand names, or manufacturers' names except those designated in the Contract Documents.
2. *Use of other products.*—If a Bidder desires to use products of trade or brand names or of manufacturers' names which are different from those specified in the Contract Documents, application for the approval of the use of such products must be received by the Engineer at least ten (10) days prior to the date set for the opening of Bids. The application to the Engineer for approval of a proposed product must be accompanied by:
    a. a schedule setting forth in which respects the materials or equipment submitted for consideration differ from the materials or equipment designated in the Contract Documents; and
    b. a copy of the published recommendations of the manufacturer for the installation of the product together with a complete schedule of changes in the drawings and specifications, if any, which must be made in other work in order to permit the use and installation of the proposed product in accordance with the recommendations of the manufacturer of the product.

In addition, the Engineer will give consideration to reports from reputable independent testing laboratories, verified experience records showing the reputation

of the proposed product with previous users, evidence of reputation of the manufacturer for prompt delivery, evidence of reputation of the manufacturer for efficiency in servicing its products, or any other written information that is helpful in the circumstances. To be approved, a proposed product must also meet or exceed all express requirements of the Contract Documents.

3. *Burden of proof.*— The degree of proof required for approval of a proposed product as acceptable for use in place of a named product or products is that amount of proof necessary to convince a reasonable person beyond all doubt.
4. *Request for conference.*—Any Bidder who alleges that rejection of a submittal is the result of bias, prejudice, caprice, or error on the part of the Engineer may request a conference with a representative of the Owner: PROVIDED, that the request for said conference, submitted in writing, shall be received by the Owner at least five (5) days prior to the date set for the opening of Bids, time being of the essence.
5. *Issuance of addenda.*— If the submittal is approved by the Engineer, an addendum will be issued to all prospective Bidders. Issuance of an addendum is a representation to all Bidders that the Engineer, in the exercise of its professional judgment and discretion, established that the product submitted for approval is acceptable and meets or exceeds all express requirements.

B. Each Bid must be submitted on the Bid forms which are a part of the Contract Documents. **All blank spaces for Bid prices, both words and figures, must be filled in and completed in ink.** In case of discrepancy, the amount shown in words will govern. All required enclosed certifications or other documents must be fully completed and executed when submitted.

C. In case of discrepancies between the figures shown in the unit prices and the totals, the unit prices shall apply and the totals shall be corrected to correspond with the unit prices. In case of discrepancies between written amounts and figures, written amounts shall take precedence over figures and the sum of all Bid extensions (of unit prices) plus lump sum items shall take precedence over the Bidders input of the Bid Total.

D. Each Bid must be submitted in a sealed envelope, addressed to the Macon Water Authority (the "Owner"). Each sealed envelope containing a Bid must be plainly marked on the outside as, "**Rebuild Gravity Thickeners 1,2, and 3 and Clarifier #6 at Rocky Creek WRF**".

E. The Bidder shall provide on the outside of the sealed envelope the following information:
   1. Bidder's Name;
   2. Bidder's Georgia Utility Contractor License Number (if applicable); and,
   3. The words, "SEALED BID"

F. Any Bid submitted which does not contain the above information on the outside of the sealed envelope will not be opened and will be returned to the Bidder.

G. If forwarded by mail, the sealed envelope containing the Bid must be enclosed in another envelope addressed as follows:

THE MACON WATER AUTHORITY
Attn: Heather Veal
790 Second Street
Post Office Box 108
Macon, Georgia 31202-0108

H. Any and all Bids not meeting the aforementioned criteria for Bid submittal may be declared non-responsive, and subsequently returned to the Bidder unopened.

I. The Bidder, in signing a Bid on the whole or any portion of the Project, shall conform to the following requirements:

1. Bids which are not signed by individuals making the Bid shall have attached thereto a power of attorney evidencing authority to sign the Bid in the name of the person for whom it is signed.

2. Bids which are signed for a partnership shall be signed by all of the partners or by an attorney-in-fact. If a Bid is signed by an attorney-in-fact, there should be attached to the Bid a power of attorney executed by the partners evidencing authority to sign the Bid.

3. Bids which are signed for a corporation shall have the correct, legal corporate name thereof, as reflected in the records of the Georgia Secretary of State, and the signature of the president or other authorized officer of the corporation manually written below the corporate name following the wording "By _____." If applicable, the corporate seal shall be affixed to the Bid.

4. The Bidder shall complete, execute and submit the following documents, (if applicable to the Bidder) which are a part of the Contract Documents:

a. The Bid;
b. The Bid Bond;
c. Statement of Bidder's Qualifications;
d. Statement of Equipment;
e. Corporate Certificate, if the Bidder is a corporation;
f. Statement of Disadvantaged Business Enterprise ("DBE") compliance;
g. Contractor's License Certification;
h. Photocopy of State of Georgia Utility Contractor's License;
i. Photocopy of Certificate of Authority from Georgia Secretary of State's Office to do work in Georgia (if out of state contractor);
j. Non-Collusion Affidavit of Prime Bidder;
k. Any and all forms, certifications or other documentation required by the Georgia Department of Natural Resources Environmental Protection Division.

1.04 METHOD OF BIDDING

The unit or lump sum price for each of the several items in the Bid of each Bidder shall include its pro rata share of overhead and profit so that the sum of the products, obtained by multiplying the quantity shown for each item by the unit price, represents the total Bid. Any Bid not conforming to this requirement may be rejected. Additionally, unbalanced Bids (including unbalanced unit prices) may be rejected. Conditional Bids shall not be accepted. ***The special attention of all Bidders is called to this provision, for should conditions make it necessary to revise the quantities, no limit will be fixed for such increased or decreased quantities, nor extra compensation allowed.***

1.05 ADDENDA AND INTERPRETATIONS

A. No interpretation of the meaning of the Drawings, Specifications or other pre-bid documents or Contract Documents shall be made to any Bidder orally.

B. Any and all such interpretations and any supplemental instructions will be in the form of written Addenda to the Contract Documents which, if issued, will be mailed, shipped or faxed to all prospective Bidders (at the respective addresses furnished) at least seventy-two (72) hours (exclusive of weekends and holidays) prior to the date fixed for the opening of Bids.

C. Failure of Bidders to receive or acknowledge any Addendum shall not relieve them of any obligation under the Bid or the Contract Documents. All Addenda shall become part of the Contract Documents and obligations there under binding.

1.06 BID MODIFICATIONS

Bidders may modify their Bid by facsimile communication at any time prior to the scheduled closing time for receipt of Bids, provided such facsimile communication is received by the Owner prior to the time Bids are required, and provided further that the Owner is satisfied that a written confirmation of the facsimile modification over the signature of the Bidder was mailed by the Bidder to the Owner prior to the time Bids are required. The facsimile communication should not reveal the Bid price but should provide the addition or subtraction or other modification so that the final prices or terms will not be known by the Owner until the sealed Bid is opened. If written confirmation from the Bidder is not received by the Owner within two business days from the time Bids are required, no consideration will be given to the facsimile modification and the facsimile modification shall be rejected.

1.07 BID SECURITY

A. Each Bid must be accompanied by a Bid Bond, prepared on the form of Bid Bond included herein, duly executed by the Bidder as principal and having as surety thereon a surety company authorized to do business in the State of Georgia and listed in the

latest issue of U.S. Treasury Circular 570, in the amount of **ten (10%)** percent of the Bid. Attorneys-in-fact who sign Bonds must file with each Bond a currently dated and valid original of their power of attorney. Where validity and currentness of a power of attorney are established by certification executed by a corporate officer, the certification shall be made and executed by a corporate officer of record, as reflected in the records of the Georgia Secretary of State, or by valid corporate resolution or authorization identifying such corporate officer.

B. Except as provided in O.C.G.A. §§ 36-91-52 and 36-91-53, if for any reason whatsoever the successful Bidder withdraws from the competition after opening of the Bids, or if Bidder refuses to execute and deliver the Contract and Bonds required in Article 2 of the General Conditions, the provisions of the Bid Bond may be enforced.

C. Except as provided in O.C.G.A. §§ 36-91-52 and 36-91-53, a Bid may not be revoked or withdrawn until sixty (60) days after the time set for opening the Bids. Upon expiration of this time period, the Bid will cease to be valid, unless the Bidder provides written notice to the Owner prior to the scheduled expiration date that the Bid will be extended for a time period specified by the Owner.

1.08 RECEIPT AND OPENING OF BIDS

The Owner may consider a technicality and informality in any Bid not prepared and submitted in strict accordance with the provisions hereof and may waive any technicality and informality or reject any and all Bids. Any Bid may be withdrawn prior to the above scheduled time for the opening of Bids or authorized postponement thereof. Any Bid received after the time and date specified shall not be opened.

1.09 CONDITIONS OF THE PROJECT

A. Each Bidder must be informed fully of the conditions relating to the construction of the Project and the employment of labor thereon. Failure to do so will not relieve a successful Bidder of the obligation to furnish all material and labor necessary to carry out the provisions of the Contract Documents. Insofar as possible, the Bidder, in carrying out the Work, must employ such methods or means as will not cause any interruption of or interference with the work of any other contractor.

B. The Bidder is advised to examine the location of the Project and to be informed fully as to its conditions; access requirements, the conformation of the ground; the character, quality and quantity of the products needed preliminary to and during the prosecution of the work; the general and local conditions and all other matters which can in any way affect the work to be done under the Contract Documents. Failure to examine the site will not relieve the successful Bidder of an obligation to furnish all products and labor necessary to carry out the provisions of the Contract Documents.

C. The Bidder shall notify the Owner of the date and time Bidder proposes to examine the location of the Project. The Bidder shall confine examination to the specific areas designated for the proposed construction, including easements and public right-of-ways.

If, due to some unforeseen reason, the proceedings for obtaining the proposed construction site (including easements), have not been completed, the Bidder may enter the site only with the express consent of the property owner. The Bidder is solely responsible for any damages caused by examination of the site.

C. All anticipated federal, state and local permits required for the Project ___NA_____ have been obtained.

D. All rights of way and easements anticipated for the Project ***NA*** been obtained.

1.10 EQUAL EMPLOYMENT OPPORTU0000NITY

A. During the performance of the Contract, the Bidder agrees as follows:

1. The Bidder shall not discriminate against any employee or applicant for employment, or in any employment action during employment, based upon any applicable, legally-recognized and protected basis, including, but not limited to, veteran status, uniformed service member status, race, color, religion, sex, sexual orientation, gender identity, age (40 and over), pregnancy (including childbirth, lactation and related medical conditions), national origin or ancestry, citizenship status, physical or mental disability, genetic information (including testing and characteristics), or any other consideration protected by federal, state, or local law.

2. The Bidder shall, in all solicitation or advertisement for employees placed by or on behalf of Bidder, state that all qualified applicants will receive consideration for employment without regard to any applicable, legally-recognized and protected consideration, including, but not limited to veteran status, uniformed service member status, race, color, religion, sex, sexual orientation, gender identity, age (40 and over), pregnancy (including childbirth, lactation and related medical conditions), national origin or ancestry, citizenship status, physical or mental disability, genetic information (including testing and characteristics), or any other characteristic or basis protected by federal, state, or local law.

3. The Bidder shall send to each labor union or representative of the workers, with which the Bidder has a collective bargaining agreement or other contract or understanding, a notice advising the labor union or worker's representative of the Bidder's commitments under the Equal Employment Opportunity Program of the Owner and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

4. The Bidder and its subcontractors, if any, shall file compliance reports at reasonable times and intervals with the Owner in the form and to the extent prescribed by the Owner or the Georgia Department of Natural Resources. Compliance reports filed at such times as directed shall contain information as to the employment practices, policies, programs and statistics of the Bidder and its subcontractors.

5. The Bidder shall demonstrate by the documentation required in Paragraph C, below, that a "Good Faith Effort" has been made to achieve compliance with the Owner's goal that a minimum of ten percent (10%) of the Contract Price shall be subcontracted to a Disadvantaged Business Enterprise (DBE). "DBE" shall have the meaning as is defined in applicable federal law, including the current rules and regulations of the United States Department of Transportation More specifically, the term "DBE" means a firm or business which is at least fifty-one percent (51%) owned, operated, capitalized, and controlled by one or more United States citizens or lawfully admitted residents who are socially and economically disadvantaged.

   As used herein, the term "subcontracted" means providing subcontracting services or furnishing products or materials to be utilized in the performance of the Work.

6. The Bidder shall include the provisions of paragraphs 1 through 6 of this Section 1.10.A in every subcontract or purchase order so that such provisions will be binding upon each subcontractor or vendor.

B. In determining whether a Bidder has made "Good Faith Efforts", the Owner will look effort that a Bidder has made.

C. The following list of kinds of efforts is provided for consideration, but this is not an exhaustive list of efforts that may be considered by the Owner:

1. Whether the Bidder attended any pre-solicitation or pre-bid meetings that were scheduled by the Agent to inform DBEs of contracting and subcontracting opportunities;

2. Whether the Bidder advertised in general circulation, trade association, and DBE-focus media concerning the sub-contracting opportunities;

3. Whether the Bidder provided written notice to DBEs that their interest in the Contract was being solicited, in sufficient time to allow the DBEs to participate effectively;

4. Whether the Bidder followed up initial solicitations of interest by contacting DBEs to determine with certainty whether the DBEs were interested;

5. Whether the Bidder selected portions of the Work to be performed by DBEs in order to increase the likelihood of meeting the DBE goals (including, where appropriate, breaking down contracts into economically feasible units to facilitate DBE participation);

6. Whether the Bidder provided interested DBEs with adequate information about the Drawings, Specifications and requirements of the Contract Documents;

7. Whether the Bidder negotiated in good faith with interested DBEs, not rejecting DBEs as unqualified without sound reasons based on a thorough investigation of

their capabilities;

8. Whether the Bidder made efforts to assist interested DBEs in obtaining bonding, lines of credit, or insurance required by the Contract Documents or Contractor; and

D. Each Bidder shall include with his or her Bid a Statement of Disadvantaged Firm Utilization. Such statement shall include, as a minimum, the names and addresses of all DBE firms providing subcontracting services, furnishing products or materials, etc., the nature of the work to be contracted; and the anticipated cost of the services by each named firm as a percentage of the total Contract Price set forth in the Bid. The percentage participation should be calculated on the basis of the proportion of total dollar value of the Bid, including bulk purchase materials supplied by DBEs.

E. It is the desire of the Owner that DBEs be given the opportunity to bid on the various parts of the Work, and that to the extent feasible, DBE firms in the Middle Georgia area will be solicited and used. However, this desire is not intended to restrict or limit competitive bidding or to increase the cost of the Work. The Owner supports a healthy, free market system that seeks to include responsible businesses and provide ample opportunities for business growth and development.

In an effort to assist minority-owned businesses, Georgia law permits an income tax adjustment on the state tax return of any company that subcontracts with a certified minority-owned firm to furnish goods, property or services to the State of Georgia pursuant to O.C.G.A. § 48-7-38. Suppliers should consult with their tax advisors to find out how to take advantage of these tax credits.

1.11 NOTICE OF SPECIAL CONDITIONS

If any special federal, state, county or city laws, municipal ordinances, and the rules and regulations of any authorities having jurisdiction over construction of the Project, enclosed, herein referred to, or applicable by law to the Project, conflict with requirements of the Contract Documents, then the federal, state, county or city laws, municipal ordinances, and the rules and regulations of any authorities having jurisdiction over construction of the Project shall prevail and supersede the conflicting requirements of the Contract Documents.

1.12 OBLIGATION OF BIDDER

A. By submission of a Bid, each Bidder warrants that Bidder has inspected the site and has read and is thoroughly familiar with the Contract Documents (including all addenda). The failure or omission of any Bidder to examine any form, instrument or document shall in no way relieve any Bidder from any obligation in respect to the Bid.

C. Special attention is directed to Article 4, "Insurance" contained at pages 00700-3 through 00700-6 in the General Conditions. The Owner requires (1) "Worker's Compensation and Employer's Liability Insurance," (2) "Commercial General and Umbrella Liability Insurance," (3) "Business Auto and Umbrella Liability Insurance," and (4) "Materials and Floater" Insurance. For each of the required policies, the Owner requires a certificate of insurance at least quarterly, a copy of the endorsement of the insurance company showing the Owner as an additional insured, and a copy of the insurance policy declaration and any necessary endorsements.

D. Attention is further directed to Paragraph 6 of 00500, Contract Agreement and Article 9 of 00700, General Conditions regarding assignments. Prior written consent of the Owner is required for any assignment of any portion of this Contract, including any assignment due to "buyout" of Bidder or other acquisition of Bidder where the Bidder is a corporation or where Bidder is 50 percent or more owned by a corporation, firm, or person.

1.13 METHOD OF AWARD

A. The Contract, if awarded, will be awarded to the lowest responsible and responsive Bidder whose Bid meets the requirements and criteria set forth in the Contract Documents. The Contract, if awarded, will be awarded by base bid on a lump sum basis, comprised of unit prices, for the performance and completion of all Work required by the Contract Documents.

B. The Bidder to whom the award is made will be notified. The Owner reserves the right to reject any and all Bids and to waive any technicalities and informalities in Bids received whenever such rejection or waiver is in the Owner's interest.

C. A responsive Bidder shall be one who submits a Bid in the proper form without qualification or intent other than as called for in the Contract Documents, and who binds itself on behalf of the Bid to the Owner with the proper Bid Bond completed and attached, and who properly completes all forms required to be completed and submitted at the time of the Bidding. The Bidder shall furnish all data, documents, forms, and certifications required by the Contract Documents. Failure to do so may result in the Bid being declared non-responsive.

D. A responsible Bidder shall be one who can fulfill the following requirements:

1. The Bidder shall maintain a permanent place of business. This requirement applies to the Bidder where the Bidder is a division of a corporation, or where the Bidder is 50 percent or more owned by a person, corporation or firm.

2. The Bidder shall demonstrate adequate construction experience and sufficient equipment resources to properly perform the work under and in conformance with the Contract Documents. This evaluation will be based upon a list of completed or active projects and a list of construction equipment available to the Bidder to perform the work. The Owner may make such investigations as

deemed necessary to determine the ability of the Bidder to perform the Work, and the Bidder shall furnish to the Owner all such information and data for this purpose as the Owner may reasonably request. The Owner reserves the right to reject any Bid if the evidence submitted by, or investigation of, such Bidder fails to satisfy the Owner that such Bidder is properly qualified to carry out the obligations of the Contract Documents and to complete the Project contemplated therein.

3. The Bidder shall demonstrate financial resources of sufficient strength to meet the obligations incident to the performance of the Work covered by the Contract Documents. The ability to obtain the required Performance and Payment Bonds will not alone demonstrate adequate financial capability.

1.14 EMPLOYMENT OF LOCAL LABOR

Preference in employment on the Project shall, insofar as practical, be given to qualified local labor.

END OF SECTION