

LETTER OF TRANSMITTAL

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Brandon Whitley, General Manager

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FROM: Philip R. Schofield, P.E.

DATE: March 10, 2022

PROJ. NO.: G19009

SUBJECT: Addendum No. 4
Walker County Water & Sewerage Authority
McFarland Avenue Sewer Project

PAGES: 11 pages to follow

PLEASE RESPOND → → → →	TO CONFIRM RECEIPT OF THIS ADDENDUM NO. 4 PLEASE SIGN AND EMAIL TO CTI vvisco@ctiengr.com
	Company _____
	Signature _____
	Title _____
	Date _____

ID 751258

ADDENDUM NO. 4

**McFARLAND AVENUE SEWER PROJECT (PHASE 1)
WALKER COUNTY WATER & SEWERAGE AUTHORITY
FLINTSTONE, GEORGIA
CTI PROJECT NO. G19009**

The following changes shall be made to the Contract Documents and Specifications:

I. CONTRACT DOCUMENTS

- A. **Section 00 21 00, Information for Bidders.** Page 00 21 00-3, No. 9
 - 1. DELETE the words "120 consecutive calendar days" in the second and third lines and SUBSTITUTE therefor the following: "120 days to procure pipe, pumps and materials and 180 days for installation"
- B. **Section 00 41 00, Bid.** Page 00 41 00-1
 - 1. In the second paragraph, third line, DELETE "120 consecutive calendar days " and SUBSTITUTE therefor the following: "120 days to procure pipe, pumps and materials and 180 days for installation"
- C. **Section 00 43 80, Bidder Acknowledgement of Contract Time.** Page 00 43 80-1
 - 1. In the first line, DELETE "120-day" and SUBSTITUTE therefor "120 days to procure pipe, pumps and materials and 180 days for installation"
- D. **Section 00 52 00, Contract.** Page 00 52 00-1
 - 1. In Paragraph 3, ADD the words after, within 120 "days to procure pipe, pumps and materials and 180 days for installation"
- E. **Section 00 55 00, Notice to Proceed.** Page 00 55 00-1
 - 1. In the third line of the second paragraph, DELETE "120-day" and SUBSTITUTE therefor the following: "120 days to procure pipe, pumps and materials and 180 days for installation"

II. SPECIFICATIONS

- A. **Section 26 32 13, Generator Set.**
 - 1. Page 26 32 13-3. DELETE Paragraphs 2.2.C.1 and 2.2.C.2 and SUBSTITUTE the following therefor:
 - "1. Power Output Ratings. Size the generator to start and run two submersible pumps (in two steps) in conjunction with a 5 KVA (4.5 KW) miscellaneous mixed load. Minimum size of the generator set shall be 300 KW/375 KVA. Pumps are equipped with soft-start, reduced voltage starters with bypass contactors. Pump motor characteristics are as follows:
 - a. Electrical - 460/3/60
 - b. Horsepower - 121 hp
 - c. Full load current - 142 amps

- d. Full load PF - 0.85
 - e. Starting current - 838 amps
2. Generator shall be capable of starting the two pumps (lead and lag1) in two steps, together with the miscellaneous load as specified above. Voltage dip at either step shall not exceed 15 percent, and frequency dip shall not exceed 5 percent. Alternator shall recover to nominal rated voltage following motor starting. When the starter of the designated lead pump is in bypass mode (i.e., across the line), the generator shall be capable of starting the lead pump in the first step in conjunction with the miscellaneous load with a voltage dip not exceeding 35 percent and a frequency dip not exceeding 10 percent.”

B. Section 33 09 30, Pump Controls.

- 1. Page 33 09 30-4. INSERT the following sentence after the first sentence in Paragraph 2.3.D.9:

“Soft-start starter shall be ramp type, 3 pole.”
- 2. Page 33 09 30-6. ADD the following sentence to the end of Paragraph 2.3.E.4:

“It shall be possible to manually stop automatic alternation and fix the starting sequence of the pumps.”

III. CLARIFICATIONS OF QUESTIONS RECIEVED

- Q1. What size pipe is Line 2 that runs from the pump station to White Row Road. It is shown as different sizes on Drawing 28 and Drawing 32.
A1. The line will be 8-inch as shown on Drawing 32.
- Q2. Is there a tie-in or Manhole structure near Station 38+00 on the force main on North Jenkins Road on Drawing #6 where the force main appears to end? There does not seem to be a Sheet 7 in the issued set of drawings or a Detail showing connection or structure.
A2. The structure is shown on Drawing 7 just past Station 38+00, but it is not shown on the bid set. The structure is an air / vacuum valve in a pre-cast concrete structure at the high point. It was our intension to install an air release valve at the high point of the force main near Station 38+00. We can add the air / vacuum valve and structure with a line valve to stop the line for this contract and use the valve to purge the air from the line during testing. There are pay items for the air / vacuum valve and line valve in the bid schedule. The future force main continues down Jenkins Road in the next phase.
- Q3. Referring to Sheet D-4.0 the **Typical Permanent Trench-Width Pavement Repair Detail**: Can you tell me what the pay width will be for the trenches in the pavement for the 18” gravity sewer and the 16” FM?
A3. The trench width table adjacent to the trench bedding detail is used to calculate the trench rock excavation if you are getting paid by the cubic yard.

Trench rock excavation will be paid by the linear foot. The table is also used to calculate the excess trench bedding for undercutting the trench to get a solid bottom beyond the standard bedding as shown on the other side of the detail. The trench widths for calculating the excess bedding for the 18" and 16" can both be the 3.25' as shown. Typically, we are seeing trench widths around 4' wide due to trench boxes but the table is a standard width for calculating quantities.

Q4. In the corresponding chart next to the diagram, it shows a width for 18" pipe of 3.25' for the 16" I am assuming that the width will be close to the same the FM. Then in the diagram it shows a 12" Cut back on each side of the trench. Does this mean we will be paid for 3.25 + 2' for a total of 5.25' width of paving? Please Clarify.

A4. We anticipate the trench width for the trench paving to be around 6' wide. We are paying the trench-width patch paving by the ton of asphalt and the amount in the bid schedule should cover a trench width at the top from 6' to 8' wide. We also have a trench milling pay item to create a straight edge for the trench paving. It is our intent to have good straight and clean edges for the trench paving.

Q5. For Clarification: In note 3 of the same drawing, it states that the final backfill can be flowable Fill or # 7 Stone. Is this correct we can use # 7 stone instead of Flowable Fill?

A5. The backfill material for the trench will be crushed stone in roads, driveways, and parking lots.

Q6. Can the contract time be extended to 10 months?

A6. See I D. in this Addendum referencing the Contract Documents.

Date: March 9, 2022

Walker County Water & Sewerage Authority
/s/ Brandon Whitley, General Manager

his Bid, shall forfeit to the Owner, as liquidated damages for such failure or refusal, the security deposited with his Bid.

9. Time for Completion and Liquidated Damages

Bidder must agree to commence work on or before a date to be specified in a written Notice to Proceed of the Owner and to fully complete the Project within **120 days to procure pipe, pumps and materials and 180 days for installation.**

Bidder must agree also to pay as liquidated damages the sum of \$500 for each consecutive calendar day in default as hereinafter provided in the General Conditions.

10. Conditions of Work

Each Bidder must inform himself 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 his obligation to furnish all material and labor necessary to carry out the provision of his Contract. Insofar as possible the Contractor, in carrying out his work, must employ such methods or means as will not cause any interruption of or interference with the work of any other Contractor.

11. Addenda and Interpretations

No interpretation of the meaning of the Drawings, Specifications, or other prebid documents will be made to any Bidder orally.

Every request for such interpretation should be in writing addressed to pschofield@ctiengr.com or Philip R. Schofield, P.E., Project Manager, CTI Engineers, Inc., at 1122 Riverfront Parkway, Chattanooga, TN 37402, and to be given consideration must be received at least five days prior to the date fixed for the opening of Bids. Any and all such interpretations and any supplemental instructions will be in the form of written addenda to the Specifications which, if issued, will be mailed and transmitted by facsimile to all prospective Bidders (at the respective addresses and facsimile numbers furnished for such purposes), not later than three days prior to the date fixed for the opening of Bids. Failure of any Bidder to receive any such addendum or interpretation shall not relieve such Bidder from any obligation under his Bid as submitted. All addenda so issued shall become a part of the Contract Documents.

12. Security for Faithful Performance

Simultaneously with his delivery of the executed Contract, the Contractor shall furnish a surety bond or bonds as security for faithful performance of this Contract and for the payment of all persons performing labor on the Project under this Contract and furnishing materials in connection with this Contract, as specified in the General Conditions included herein. Surety companies executing bonds must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the state where the project is located.

BID

Project Description: McFarland Avenue Sewer Project

Proposal of _____
(hereinafter called "Bidder"), doing business as _____
a corporation, a partnership, an individual

To the Walker County Water & Sewerage Authority (hereinafter called "Owner").

Gentlemen:

The Bidder, in compliance with your Advertisement for Bids for the construction of this project having examined the Drawings and Specifications with related documents and the site of the proposed work, and being familiar with all of the conditions surrounding the construction of the proposed project including the availability of materials and labor, hereby proposes to furnish all labor, materials, and supplies, and to construct the project in accordance with the Contract Documents, within the time set forth therein, and at the price(s) stated below. This price(s) is to cover all expenses including overhead and profit incurred in performing the work required under the Contract Documents, of which this proposal is a part.

Bidder hereby agrees to commence work under this contract on or before a date to be specified in written Notice to Proceed of the Owner and to fully complete the project within 120 days to procure pipe, pumps and materials and 180 days for installation.

Bidder further agrees to pay as liquidated damages, the sum of \$500 for each consecutive calendar day thereafter as hereinafter provided in the General Conditions.

Bidder acknowledges receipt of the following addenda:

Bidder agrees to perform all the construction of the project complete with appurtenant and accessory work described in the Specifications and shown on the plans for the attached price(s).

The attached price(s) shall include all labor, materials, bailing, shoring, removal, overhead, profit, insurance, etc., to cover the finished work of the several kinds called for.

Bidder understands that the Owner reserves the right to reject any or all Bids and to waive any informalities in the bidding.

BIDDER ACKNOWLEDGMENT OF CONTRACT TIME

By signature below, Bidder acknowledges and agrees that the 120 days to procure pipe, pumps and materials and 180 days for installation contract time for substantial completion of the work included in these Contract Documents is either:

1. Sufficient, barring changed conditions, acts of God, or abnormal weather conditions that would justify time extensions; or
2. Insufficient, in which case the Contractor agrees that the price bid includes an allowance for liquidated damages of adequate magnitude to cover the additional time required to complete the work.

Bidder Name _____

Signature _____

Attest:

CONTRACT

THIS CONTRACT, made this _____ day of _____, 20__, by and between Walker County Water & Sewerage Authority, hereinafter called "Owner" and _____
_____ doing business as a _____
_____ corporation, individual, or partnership hereinafter called "Contractor."

WITNESSETH: That for and in consideration of the payments and agreements hereafter mentioned:

1. The Contractor will commence and complete the construction of the McFarland Avenue Sewer.
2. The Contractor will furnish all of the material, supplies, tools, equipment, labor and other services necessary for the completion of the work described herein.
3. The Contractor will commence the work required by the Contract Documents within 30 calendar days after the contract start date of the written Notice to Proceed and will complete the work within **120 days to procure pipe, pumps and materials and 180 days for installation.**

The Contractor further agrees to pay as liquidated damages, the sum of \$500.00 for each consecutive calendar day in default thereafter as hereinafter provided in the General Conditions.

4. The Contractor agrees to perform all of the Work described in the Contract Documents and comply with the terms therein for the sum of \$ _____, or as shown in the Bid Schedule.
5. The term "Contract Documents" means and includes the following:
 - a. Advertisement for Bids
 - b. Information for Bidders
 - c. Bid
 - d. Bid Bond
 - e. Contract
 - f. General Conditions
 - g. Supplemental General Conditions
 - h. Payment Bond
 - i. Performance Bond
 - j. Notice of Award
 - k. Notice to Proceed
 - l. Change Order(s)
 - m. Drawings prepared by CTI Engineers, Inc., numbered 1-36, D-1 thru D-6, E-1 thru E-2, ES 1, ES-2.1, ES-2.2, ES-3.1, ES-3.2, ES-4.1, ES-4.2, ES-5 thru ES-11.
 - n. Specifications prepared or issued by CTI Engineers, Inc., dated September 2020.
 - o. Addenda:
 - No. _____, dated _____, 20__
 - No. _____, dated _____, 20__

NOTICE TO PROCEED

To: _____

Project Description: The Project consists of the following major elements: construction of approximately 5,500 linear feet of gravity flow sewer, manholes, 3,500 linear feet of 16-inch force main, a TRIPLEX submersible pumping station and all associated appurtenances for a complete installation.

You are hereby notified to commence work in accordance with the Contract dated _____, 20____, on or before _____, 20____, and you are to complete the work within 120 days to procure pipe, pumps, and materials and 180 days for installation day contract time. The date of completion of all work is therefore _____, 20____.

Dated this _____ day of _____, 20____.

WALKER COUNTY WATER & SEWERAGE
AUTHORITY

By _____

Name _____

Title _____

ACCEPTANCE OF NOTICE

Receipt of the above Notice to Proceed is hereby acknowledged by _____, this the _____ day of _____, 20____.

By _____

Name _____

Title _____

1.8 WARRANTY

- A. Base Warranty: Manufacturer shall provide base warranty coverage on the material and workmanship of the generator set for a minimum of twenty-four (24) months for Standby product and twelve (12) months for Prime/Continuous product from registered commissioning and start-up.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Only approved bidders shall supply equipment provided under this contract. Equipment by other named suppliers that meets the requirement of this specification are acceptable if approved not less than 2 weeks before scheduled bid date. Other suppliers are not acceptable.

1. Cummins Power Generation
2. Caterpillar
3. Kohler

2.2 ENGINE-GENERATOR SET

- A. Factory-assembled and -tested, engine-generator set.
- B. Mounting Frame: Maintain alignment of mounted components without depending on concrete foundation; and have lifting attachments.
 1. Rigging Information: Indicate location of each lifting attachment, generator-set center of gravity, and total package weight in submittal drawings.
- C. Capacities and Characteristics:

1. Power Output Ratings. Size the generator to start and run two submersible pumps (in two steps) in conjunction with a 5 KVA (0.4.5 KW) miscellaneous mixed load. Minimum size of the generator set shall be 300 KW/375 KVA. Pumps are equipped with soft-start, reduced voltage starters with bypass contactors. Pump motor characteristics are as follows:

- a. Electrical - 460/3/60
- b. Horsepower - 121 hp
- c. Full load current - 142 amps
- d. Full load PF - 0.85
- e. Starting current - 838 amps

2. Generator shall be capable of starting the two pumps (lead and lag1) in two steps, together with the constant load as specified above. Voltage dip at either step shall not exceed 15 percent, and frequency dip shall not exceed 5 percent. Alternator shall recover to nominal rated voltage following motor starting. When the starter of the designated lead pump is in bypass mode (i.e., across the line), the generator shall be capable of starting the lead pump in the first step in conjunction with the miscellaneous load with a voltage dip not exceeding 35 percent and a frequency dip not exceeding 10 percent.

3. Nameplates: For each major system component to identify manufacturer's name and address, and model and serial number of component. The engine-generator nameplate shall include information of the power output rating of the equipment.

voltage, phase, hertz, ampere rating and horsepower rating. A warning label against electric shock shall be permanently affixed to the outer door. All fasteners shall be Type 304 or 316 stainless steel or Type 6063T5 aluminum.

3. A steel back panel with electroplated bright zinc and clear chromate finish shall be provided inside the enclosure. The stainless steel back panel shall be mounted on bolts using stainless steel nuts and lock washers to maintain enclosure integrity and shall be used as the means for mounting the components in the enclosure.
4. Motor control panel, switch boxes, communication panels, and all other associated pump station panels shall be mounted on stainless steel uni-strut mounting.
5. A canopy shall be provided over the entire control panel area, providing protection from the weather for personnel working in and around control panel(s). The canopy shall be constructed in accordance with the details shown on the Contract Drawings.
6. Seal-off fittings shall be installed at the control panel on any conduit from the wetwell (as shown on the Drawings). Seal-off fittings shall be properly installed in accordance with electrical code requirements.
7. The incoming power shall be 460 volts, 3 phase, 60 hertz service. Terminal blocks with box type lugs shall be supplied to terminate all wiring for floats and heat and seal sensors for the pump, if required. The pump leads shall be terminated at the over-load relay or at box type terminal blocks. Box-type lug connectors shall be made of polyamide thermoplastic to exclude aging due to heat influences. Each terminal block shall be properly and permanently labeled on the pump controller as to its purpose.
8. A circuit breaker shall be used to protect from line faults and to disconnect the pump from the incoming power. Circuit breakers shall be thermal magnetic and sized to meet NEC requirements for motor controls. One circuit shall be supplied for each motor, with a separate circuit breaker being supplied for the control voltage.
9. A Solid-State reduced voltage starter with an integral bypass contactor shall be provided for each pump. **Soft-start starter shall be ramp type, 3 pole.** Coordinate the starter size with the size motor provided by the pump manufacturer. Acceptable Manufacturers are: Allen Bradley (Rockwell Automation), Square D (Schneider Electric), or WEG.
10. Control voltage shall be 120 VAC and may be accomplished by the means of a transformer. A control breaker (on/off switch) and fuse shall protect and an integral
11. The control panel shall have an automatic alternating relay to alternate pumps after each cycle. Alternating circuit shall include on-off toggle switch to deactivate alternator. The alternator shall be of the type which alternately switches when voltage is removed from its circuit.
12. Wire ties shall be used to maintain panel wiring in neat bundles and to prevent interference with operating devices. All wiring shall be numbered to

proportional 4-20 mA signal representing level/pressure.

- b. The transducer shall be suitable for continuous submergence and operation and shall be installed in accordance with manufacturer's instructions. The bottom diaphragm face of the sensor shall be installed at the manufacturer's recommended distance above the floor. The sensor shall be mounted using a stainless steel cable system and weight at the location shown on the Drawings.
 - c. Provide an intrinsically safe barrier between the control panel and lower assemblies. The barrier shall render the level sensing system suitable for use in Class 1 - Groups A, B, C and D; and Class 2 - Groups E, F, and G.
 - d. The submersible level transducer system shall be an A1000i-157GSCI as manufactured by Siemens Water Technologies, Control Systems, or a PX79U7-010GI as manufactured by Omega.
 - e. A single suspended anchor system, Part Number WRWXX (XX = feet of cable), as manufactured by Anchor Scientific shall be provided for the floats and level transducer. The floats and the transducer shall be attached to the anchor line.
4. A comprehensive automatic controller with alternating capability for the pumps shall be provided. Controller/alternator shall control alternation of two or more pumps as required. The system shall be an NE Controls NE150 Series Triplex Pump Controller, a programmable logic controller (PLC) and human interface (HMI) unit in one, or approved equal. A relay shall be provided that is capable of switching pump control over to the backup float switch system automatically if the high level alarm float is made. **It shall be possible to manually stop automatic alternation and fix the starting sequence of the pumps.**
5. Pump controls shall be as follows:
- a. Low level alarm (and float) - this level should stop all pumps and send an alarm.
 - b. Off level - normal level for all pumps to stop pumping - not an alarm status.
 - c. Primary/lead pump on - start the lead pump.
 - d. Secondary/lag 1 pump on - start the lag 1 pump.
 - e. Lag 2 pump on - start the lag 2 pump.
 - f. High level alarm (and float) - start both pumps, switch to float control and send alarm.
 - g. High high level alarm - float only - sends alarm signal to telemetry.

Refer to the Contract Drawings for the level settings.

6. The float controls shall be installed such that: