



**THE COUNTY OF GALVESTON**

**RUFUS G. CROWDER, CPPO CPPB**  
PURCHASING AGENT

**GWEN MCLAREN, CPPB**  
ASST. PURCHASING AGENT

COUNTY COURTHOUSE  
722 Moody (21<sup>st</sup> Street)  
Fifth (5<sup>th</sup>) Floor  
GALVESTON, TEXAS 77550  
(409) 770-5371

December 28, 2017

**RE: ADDENDUM #1**  
**Bid #B181010, CDBG Round 2.2: I-45/Hwy 6 Water Distribution System Project**

To All Prospective Bidders,

The following information is being provided to aid in preparation of your bid submittal(s):

**Pre-Bid Conference:**

The time for the non-mandatory pre-bid conference for Bid #B181010, CDBG Round 2.2: I-45/Hwy 6 Water Distribution System Project, has been changed. The new time for the meeting is listed below:

**Date: Thursday, January 4, 2018**

**Time: 11:30 A.M.**

**Place: County Courthouse**

**722 Moody (21<sup>st</sup> Street)**

**Purchasing Department**

**Fifth (5<sup>th</sup>) Floor**

**Galveston, TX 77550**

Please send bid submittals to:  
**Galveston County Purchasing Agent**  
**Attention: Rufus Crowder, CPPO CPPB**  
**722 Moody (21<sup>st</sup> Street), Fifth (5<sup>th</sup>) Floor**  
**Galveston, Texas 77550**

As a reminder, all questions regarding this bid must be submitted in writing to:

Rufus G. Crowder, CPPO CPPB  
Galveston County Purchasing Agent,  
722 Moody, Fifth (5<sup>th</sup>) Floor  
Galveston, Texas 77550  
Fax: (409) 621-7987  
E-mail: [rufus.crowder@co.galveston.tx.us](mailto:rufus.crowder@co.galveston.tx.us)

Please excuse us for any inconvenience that this may have caused.

Sincerely,

*Rufus Crowder*

Rufus G. Crowder, CPPO CPPB  
Purchasing Agent  
Galveston County



**THE COUNTY OF GALVESTON**

**RUFUS G. CROWDER, CPPO CPPB**  
PURCHASING AGENT

**GWEN MCLAREN, CPPB**  
ASST. PURCHASING AGENT

**COUNTY COURTHOUSE**  
722 Moody (21<sup>st</sup> Street)  
Fifth (5<sup>th</sup>) Floor  
GALVESTON, TEXAS 77550  
(409) 770-5371

January 3, 2018

**RE: ADDENDUM #2**  
**Bid #B181010, CDBG Round 2.2: I-45/Hwy 6 Water Distribution System Project**

To All Prospective Bidders,

Attached you will find Addendum #2 for Bid #B181010, CDBG Round 2.2: I-45/Hwy 6 Water Distribution System Project

As a reminder, all questions regarding this bid must be submitted in writing to:

Rufus G. Crowder, CPPO CPPB  
Galveston County Purchasing Agent  
722 Moody, Fifth (5<sup>th</sup>) Floor  
Galveston, Texas 77550  
E-mail: [rufus.crowder@co.galveston.tx.us](mailto:rufus.crowder@co.galveston.tx.us)

If you have any further questions regarding this bid, please address them to Rufus Crowder, CPPO CPPB, Purchasing Agent, via e-mail at [rufus.crowder@co.galveston.tx.us](mailto:rufus.crowder@co.galveston.tx.us), or contact the Purchasing Department at (409) 770-5371.

Please excuse us for any inconvenience that this may have caused.

Sincerely,

A handwritten signature in black ink, appearing to read "Rufus", with a long horizontal line extending to the right.

Rufus G. Crowder, CPPO CPPB  
Purchasing Agent  
Galveston County

**ADDENDUM NO. 2  
TO THE  
TECHNICAL SPECIFICATIONS, CONTRACT DOCUMENTS AND PLANS FOR  
BID #B181010, CDBG ROUND 2.2: I-45 WATERLINE PROJECT  
GLO CONTRACT NO. 13-465-000-7974  
PROJECT NO. P21465  
GALVESTON COUNTY AND THE TEXAS GENERAL LAND OFFICE**

January 3, 2018

TO BIDDER OF RECORD:

This addendum, applicable to work designated above, is an amendment to the bidding documents and as such shall be a part of and included in the Contract. Acknowledge receipt of this addendum by submitting the attached acknowledgement form with your bid.

PURPOSE:

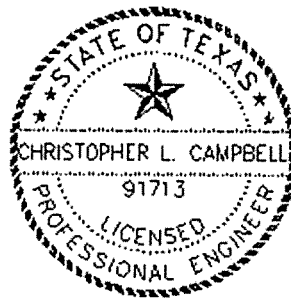
The purpose of this addendum is to clarify previously issued bid documents, technical specifications, special conditions, proposal and plans.

INSTRUCTIONS:

This Addendum uses the change page method: remove and replace or add pages, or Drawing sheets, as directed in the change instructions below.

**This Addendum will not change the bid opening date of –**

**Thursday, January 18, 2018 at 2:00 p.m.**



*Chris Campbell*  
January 3, 2018

CLARIFICATIONS

1. **Q:** Please confirm existing 39" Pipe Type, either AWWA C301 PCCP Lined Cylinder Pipe, or AWWA C303 Bar Wrapped Cylinder Pipe. Drawing 29 states pipe is "B-301". Specification Summary of Work Page 7 of 8 says to use PCCP for construction. If existing is PCCP, connections must be completed at the joints. If the existing pipe is Bar Wrap, connections can be made using welded butt strap closures (refer to drawing 29).

- A:** It is the understanding of the Engineer that the existing 39" pipe is AWWA C303 Bar Wrapped Cylinder Pipe.
2. **Q:** What are the Contract Days?  
**A:** In accordance with the Contract Award document, the Contractor shall complete the work within 270 Calendar Days.
3. **Q:** I cannot find the ductile iron pipe specifications for the pressure/flow control station and meter station.  
**A:** In accordance with Spec Section 02511, Item 2.01, A. 2., water line piping within plant site to be welded joint steel pipe with flange or approved restraint joint connections.
4. **Q:** I am hoping to request OCV Control Valves be written in as an approved equal on the flow control valve section.  
**A:** OCV Control Valves will not be written in as an approved equal.
5. **Q:** Can you provide a drawing for the 6" blow off?  
**A:** The 6" blow-off is part of the combination vacuum relief/air release valve assembly and is shown in that detail.
6. **Q:** Do underground restraints on DI fittings & bell joint clamps require SS bolts?  
**A:** Yes. They require SS nuts and washers as well.
7. **Q:** Will the Contractor have access along GCWA's ROW and will matting be required?  
**A:** GCWA says yes to access and no to matting, but the Contractor must restore the ROW to existing conditions.
8. **Q:** Will any permits be required?  
**A:** Yes, City of Santa Fe will require a permit for work in a ROW.
9. **Q:** Will the Contractor have access through the TCE's within the wetlands?  
**A:** Yes, the Contractor can install a temporary access road in the wetlands area, but must restore to existing conditions.
10. **Q:** Is the Mobilization amount a fixed amount?  
**A:** Yes.
11. **Q:** What does the Contractor do with the excess spoil materials?  
**A:** The Contractor will haul off excess spoil materials at his expense.
12. **Q:** Where are the valves located on the existing 39-inch water line? Are the valves fully operable?  
**A:** According to GCWA, the nearest valve to the south is located at the intersection of FM 1764 and Ave. F, a distance of approximately 10,000 LF, and the nearest valve to the north is located at the intersection of 2<sup>nd</sup> St. and Ave. L, a distance of approximately 6,600 LF. The valves are operable but GCWA will not guarantee zero leakage and GCWA wants to remind the contractors that the Contractor of record should never operate any GCWA valves without a GCWA representative on site.
13. **Q:** How long can the existing 39-inch water line be turned off? GCWA says it depends on demand; what time of year will this occur?

- A:** Taking the line out of service will shut down flow to both Dickinson WCID#1 and League City. They will need plenty of notice. Tell us time of year and we will check with those affected agencies.
14. **Q:** Is there a conflict with the existing 2-inch gas line next to the existing 39-inch water line? If the gas line is in conflict, who moves the gas line?
- A:** This question will be answered if there is a conflict.
15. **Q:** Who sets the construction staking?
- A:** The Contractor.
16. **Q:** Who provides the Construction Materials Testing services?
- A:** HTS.
17. **Q:** Will there be a Pre-Construction meeting?
- A:** Yes.
18. **Q:** What is the distance between the valves on the abandoned 24-inch water line on Avenue L?
- A:** Unknown.
19. **Q:** Who owns the abandoned 24" water line?
- A:** The City of Galveston, they have confirmed it is abandoned.
20. **Q:** Is there cathodic protection on the existing 39-inch water line?
- A:** According to GCWA, no.
21. **Q:** Who pays for any dewatering?
- A:** The Contractor is paid for dewatering under Bid Item No. 24.
22. **Q:** What are the backfill requirements under the existing 39-inch water line?
- A:** Cement stabilized sand will be installed in the pipe zone and up to the subgrade.
23. **Q:** What is the required connection between the existing 39-inch water line and the proposed 24-inch water line?
- A:** A 24" flanged outlet tee off of the 39" pipe.
24. **Q:** Is there any requirement to add to the existing 39-inch water line?
- A:** The Contractor shall only replace what is shown in the drawings.
25. **Q:** Will Avenue L be required to stay open all of the time?
- A:** Yes, traffic control as shown in the drawings will be required.
26. **Q:** Will the existing 39-inch water line require hydro testing and chlorination?
- A:** According to GCWA, they will approve a visual weld test and like any other potable water, disinfect and take Bac-T samples. GCWA will require the samples to be collected by GCWA personnel on the entirety of the project, not just the 39". Follow AWWA chlorination requirements. They will push water from both sides and blow-off into the canal.
27. **Q:** What is the required transition between the PVC pipe and the steel pipe?

**A:** The steel pipe will extend below grade to the first bend going back to horizontal pipe. All steel pipe will be coated per the spec.

28. **Q:** Will there be a site visit for the Bidders?

**A:** There is no site visit scheduled. If the bidders wish to visit the site, they can contact Galveston County to arrange access.

29. **Q:** How long until NTP?

**A:** According to the County, approximately two (2) months after the bid date.

END OF ADDENDUM NO. 2

**ADDENDUM NO. 2  
TO THE  
TECHNICAL SPECIFICATIONS, CONTRACT DOCUMENTS AND PLANS FOR  
BID #B181010, CDBG ROUND 2.2: I-45 WATERLINE PROJECT  
GLO CONTRACT NO. 13-465-000-7974  
PROJECT NO. P21465  
GALVESTON COUNTY AND THE TEXAS GENERAL LAND OFFICE**

January 3, 2018

I \_\_\_\_\_ of  
Name Title  
\_\_\_\_\_  
Company Name

**do hereby acknowledge receipt of Addendum No.'s 1 and 2 for the Construction of the I-45 Waterline Project**

Name: \_\_\_\_\_  
Signature  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_



**THE COUNTY OF GALVESTON**

**RUFUS G. CROWDER, CPPO CPPB**  
PURCHASING AGENT

**GWEN MCLAREN, CPPB**  
ASST. PURCHASING AGENT

COUNTY COURTHOUSE  
722 Moody (21<sup>st</sup> Street)  
Fifth (5<sup>th</sup>) Floor  
GALVESTON, TEXAS 77550  
(409) 770-5371

January 10, 2018

**RE: ADDENDUM #3**  
**Bid #B181010, CDBG Round 2.2: I-45/Hwy 6 Water Distribution System Project**

To All Prospective Bidders,

Please find attached, Addendum #3 for Bid #B181010, CDBG Round 2.2: I-45/Hwy 6 Water Distribution System Project.

In addition to the attached addendum, the following also applies:

**MINIMUM WAGE RATE CLARIFICATION:**

“Clarification was received from the General Land Office that EO 13658 is not applicable to CDBG projects. Therefore, the minimum wages to be paid to employees is that which is listed for each individual classification as applicable for the work they perform.”

Special attention is called to the fact that the minimum to be paid to any classification has been raised to \$10.35. All proposers should review the attached General Decision Number TX180094.

**CLARIFICATION REGARDING SUBMITTALS:**

Sealed bids in sets of five (5), one (1) original and four (4) copies, will be received in the office of the Galveston County Purchasing Agent until 2:00 P.M. C.S.T., on Thursday, January 18, 2018, and opened in that office in the presence of the Galveston County Auditor and the Purchasing Agent.

Please send bid submittals to:  
**Galveston County Purchasing Agent**  
**Attention: Rufus Crowder, CPPO CPPB**  
**722 Moody (21<sup>st</sup> Street), Fifth (5<sup>th</sup>) Floor**  
**Galveston, Texas 77550**


As a reminder, all questions regarding this bid must be submitted in writing to:

Rufus G. Crowder, CPPO CPPB  
Galveston County Purchasing Agent  
722 Moody, Fifth (5<sup>th</sup>) Floor  
Galveston, Texas 77550  
E-mail: [rufus.crowder@co.galveston.tx.us](mailto:rufus.crowder@co.galveston.tx.us)

If you have any further questions regarding this bid, please address them to Rufus Crowder, CPPO CPPB, Purchasing Agent, via e-mail at [rufus.crowder@co.galveston.tx.us](mailto:rufus.crowder@co.galveston.tx.us), or contact the Purchasing Department at (409) 770-5371.

Please excuse us for any inconvenience that this may have caused.

Sincerely,

  
Rufus G. Crowder, CPPO CPPB  
Purchasing Agent  
Galveston County



**ADDENDUM NO. 3  
TO THE  
TECHNICAL SPECIFICATIONS, CONTRACT DOCUMENTS AND PLANS FOR  
BID #B181010, CDBG ROUND 2.2: I-45 WATERLINE PROJECT  
GLO CONTRACT NO. 13-465-000-7974  
PROJECT NO. P21465  
GALVESTON COUNTY AND THE TEXAS GENERAL LAND OFFICE**

January 9, 2018

**TO BIDDER OF RECORD:**

This addendum, applicable to work designated above, is an amendment to the bidding documents and as such shall be a part of and included in the Contract. Acknowledge receipt of this addendum by submitting the attached acknowledgement form with your bid.

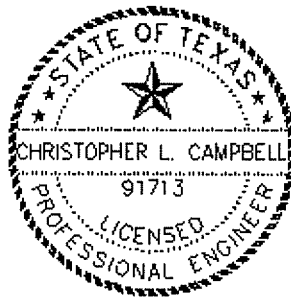
**PURPOSE:**

The purpose of this addendum is to clarify previously issued bid documents, technical specifications, special conditions, proposal and plans.

**INSTRUCTIONS:**

This Addendum uses the change page method: remove and replace or add pages, or Drawing sheets, as directed in the change instructions below.

**This Addendum will not change the bid opening date of –  
Thursday, January 18, 2018 at 2:00 p.m.**



*Chris Campbell*  
January 9, 2018

**CHANGES TO PROJECT MANUAL**

1. TABLE OF CONTENTS - TECHNICAL SPECIFICATIONS: Remove and Replace in its Entirety with the attached Table of Contents – Technical Specifications marked Addendum No. 3
2. SECTION 02526 – WATER METERS: Add the attached Section 02526 – Water Meters marked Addendum No. 3 to the Project Manual.

### CHANGES TO DRAWINGS

3. SHEET NO. 24 – METERING/FLOW CONTROL SITE – Remove and replace Sheet No. 24 – Metering/Flow Control Site with the attached Sheet No. 24 marked Addendum No. 3.

### CLARIFICATIONS

4. **Q:** Can minimum unit prices be reinstated on all items that had minimum unit prices previously?  
**A:** Minimum unit prices are shown on the Extra Unit Items.
5. **Q:** Can a bid item be added for temporary paving?  
**A:** The construction documents provide traffic control plans for a single lane closure. The existing north bound lane will remain open for use in both directions during construction hours.
6. **Q:** Bid Item #30 indicates a specification section 02526, I do not see this section in the specifications. Was it left out?  
**A:** Spec. Section 02526 will be provided in Addendum No. 3.
7. **Q:** Will pipe manufacturers make the 39” pieces.  
**A:** Yes.
8. **Q:** Does the County pay for materials on hand?  
**A:** According to Special Provisions for Construction, Item 6. (a) 1), the County will pay the Contractor for “the value of materials properly stored on the site” which “shall be based upon the estimated quantities of such materials and the invoice prices.”

END OF ADDENDUM NO. 3

**ADDENDUM NO. 3  
TO THE  
TECHNICAL SPECIFICATIONS, CONTRACT DOCUMENTS AND PLANS FOR  
BID #B181010, CDBG ROUND 2.2: I-45 WATERLINE PROJECT  
GLO CONTRACT NO. 13-465-000-7974  
PROJECT NO. P21465  
GALVESTON COUNTY AND THE TEXAS GENERAL LAND OFFICE**

January 9, 2018

I \_\_\_\_\_ of  
Name Title

\_\_\_\_\_  
Company Name

**do hereby acknowledge receipt of Addendum No.'s 1, 2 and 3 for the Construction of the I-45 Waterline Project**

Name: \_\_\_\_\_  
Signature

Title: \_\_\_\_\_

Date: \_\_\_\_\_

**GALVESTON COUNTY  
I-45/HWY 6 WATER DISTRIBUTION SYSTEM**

**TECHNICAL SPECIFICATIONS**

TABLE OF CONTENTS

<u>Section No.</u>	<u>Title</u>	<u>No. of Pages</u>
<b><u>DIVISION 1</u></b>	<b><u>GENERAL REQUIREMENTS</u></b>	
01110	Summary of Work (with Attachments) .....	12
01145	Use of Premises .....	4
01255	Change Order Procedures.....	6
01270	Measurement and Payment .....	4
01292	Schedule of Values.....	2
01312	Coordination and Meetings .....	4
01321	Construction Photographs .....	4
01325	Construction Schedule.....	6
01330	Submittal Procedures.....	4
01340	Shop Drawings, Product Data, and Samples.....	4
01410	TPDES Requirements .....	16
01422	Reference Standards.....	4
01450	Contractor's Quality Control.....	2
01452	Inspection Services.....	2
01454	Testing Laboratory Services.....	4
01502	Mobilization .....	2
01504	Temporary Facilities and Controls.....	12
01520	Temporary Field Office.....	4
01555	Traffic Control and Regulation .....	8
01562	Tree and Plant Protection .....	6
01570	Storm Water Pollution Control .....	14
01575	Stabilized Construction Exit.....	4
01576	Waste Material Disposal .....	2
01578	Control of Ground Water and Surface Water.....	8
01580	Project Identification Signs .....	4
01610	Basic Product Requirements .....	4
01630	Product Substitution Procedures .....	4
01725	Field Surveying .....	2
01731	Cutting and Patching .....	4
01732	Procedure for Water Valve Assistance.....	2
01770	Closeout Procedures.....	4
01782	Operations and Maintenance Data .....	4
01785	Project Record Documents.....	2

<b><u>DIVISION 2</u></b>	<b><u>SITE WORK</u></b>	
02081	Cast-in-Place Concrete Manholes .....	10
02082	Precast Concrete Manholes .....	12
02084	Frames, Grates, Rings and Covers .....	4
02085	Valve Boxes, Meter Boxes, and Meter Vaults .....	8
02086	Adjusting Manholes, Inlets, and Valve Boxes to Grade .....	4
02221	Removing Existing Pavements and Structures.....	4
02233	Clearing and Grubbing .....	2
02260	Trench Safety System.....	4
02316	Excavation and Backfill for Structures .....	10
02317	Excavation and Backfill for Utilities.....	18
02318	Extra Unit Price Work for Excavation and Backfill .....	2
02320	Utility Backfill Materials .....	10
02321	Cement Stabilized Sand .....	8
02330	Embankment.....	4
02336	Lime Stabilized Subgrade .....	8
02371 (LD)	Erosion Control and Vegetation Mat (Large Diameter).....	2
02400	Tunnel Shafts.....	6
02425 (LD)	Tunnel Excavation and Primary Liner for Water Mains.....	26
02431	Tunnel Grout .....	8
02447	Augering Pipe and Conduit .....	10
02502	Steel Pipe and Fittings.....	12
02503	Copper Tubing.....	4
02506	Polyvinyl Chloride Pipe .....	8
02507	Prestressed Concrete Cylinder Pipe .....	20
02511	Water Lines .....	22
02513	Wet Connections .....	2
02514	Disinfection of Water Lines .....	4
02515	Hydrostatic Testing of Pipelines .....	4
02517	Water Line in Tunnels.....	8
02518	Steel Pipe and Fittings for Large-Diameter Water Lines.....	36
02520	Flushing Hydrants .....	6
02521	Gate Valves .....	6
02522	Butterfly Valves .....	8
02523	Pressure Reducing / Flow Valve .....	8
02524	Air Release and Vacuum Relief Valves.....	4
02526	Water Meters.....	6
02527	Polyurethane Coatings on Steel or Ductile Iron Pipe.....	8
02528	Polyethylene Wrap .....	6
02613	Bar Wrapped Steel Cylinder Pipe .....	18
02621	Geotextile .....	4
02712	Cement Stabilized Base Course .....	8
02713	Recycled Crushed Concrete Base Course .....	8
02716 (LD)	Cement Stabilized Sand Base.....	6
02741	Asphaltic Concrete Pavement .....	10
02821	Chain Link Fences and Gates.....	6
02911	Topsoil.....	2
02921	Hydromulch Seeding.....	4

02922	Sodding.....	6
02951	Pavement Repair and Resurfacing .....	4
<b><u>DIVISION 13</u></b>	<b><u>SPECIALTIES</u></b>	
13110	Cathodic Protection System .....	30
13120	Pre-Cast Concrete Building Prefabricated .....	8

END OF DOCUMENT

Section 02526

WATER METERS

PART 1 GENERAL

1.01 SECTION INCLUDES

Water meters and flow transmitters.

1.02 MEASUREMENT AND PAYMENT

Stipulated Price (Lump Sum). If Contract is Stipulated Price Contract, payment for work in this Section is included in total Stipulated Price. Cost included in lump sum for meter station.

1.03 REFERENCES

- A. ANSI B 16.5 – Carbon Steel Pipe Flanges and Flanged Fittings.
- B. AWWA C-207 – Steel Pipe Flanges and Flanged Fittings.
- C. AWWA Manual M6 - Water Meters - Selection, Installation, Testing, and Maintenance.

1.04 SUBMITTALS

- A. Conform to other sections of the specifications for submittal procedures.
- B. Submit written certification of calibration and test results.
- C. Submit manufacturer's certification that meters meet applicable requirements of this Specification Section.
- D. Submit accuracy registration test certification from manufacturer for each 8 inch through 16-inch diameter meter.
- E. Shop Drawings
  - 1. Manufacturers written and illustrated instructions for the construction and dimensions.
  - 2. Manufacturers written and illustrated instructions for the approved installation method.
  - 3. Use elementary diagram with numbered terminals for interconnection with other units in accordance with ISA loop diagram standards.
- F. Operations and Maintenance Data: Include, as a minimum, the following:

1. Equipment operational instructions.
2. Preventive maintenance instructions.
3. Troubleshooting instructions.
4. Complete listing of repair parts and model numbers.
5. Calibration method and procedure.
6. Manufacturer's installation statement that the meters are properly installed and adjusted or description of any deficiency and recommended corrective action.
7. Corrected shop drawings as called for above.

1.05 QUALITY CONTROL

- A. Submit manufacturer's warranty against defects in materials and workmanship for one year from date of Substantial Completion.
- B. Provide vendor's unconditional guarantee that performance of each meter meets applicable AWWA standards and AWWA Manual M6 as follows:

Turbine type: 1 year from date of installation

Operations of hermetically sealed register, 5/8-inch to 2-inch diameter, shall be unconditionally guaranteed for 15 years.

- C. Provide manufacturer's unconditional guarantee for each sealed register against leakage, fogging, discoloration, and stoppage for 15 years from date of installation.
- D. Vendor may replace meters that become defective within guarantee period with meters that comply with this Specification. The Authority will return defective meters to vendor at expense of vendor. Meters repaired or replaced under this guarantee must meet accuracy limits for new meters upon receipt and accuracy limits for remaining period of initial guarantee.

PART 2 PRODUCTS

2.01 MATERIAL AND/OR EQUIPMENT

A Flowmeter

1. Manufacturer:
  - a. Siemens SITRANS FM - MAG5100W Magnetic Flow Meter
2. Flowmeter Materials



- a. Flow Tube: 150# Cast steel with 304 stainless steel flow tube, ebonite hard rubber liner and hasetilloy C measuring and grounding electrodes. Flow tube to be painted with corrosion resistant epoxy paint.
  - b. Grounding shall be accomplished by way of built-in grounding electrodes. Grounding rings shall not be required.
  - c. The sensor termination box shall be sealed with a non-hardening, two-part epoxy compound poured in place in the field as soon as proper operation of the flowmeter/transmitter is confirmed. The sensor shall be rated for submergence for up to 30 ft. of water for indefinite periods with the compound installed and cured.
3. Flanged end connections in accordance with ANSI B 16.5 Class 150.
  4. Maximum operating pressure 150 PSIG.
  5. Accuracy: 100% +/- 0.25% of actual throughput NIST.
  6. Range: 250 to 10,000 gpm with a maximum intermittent flow of 12,500 pgm.
  7. Designation: Refer to drawings.
- B. Accessories
1. Transmitter
    - a. Manufacturer.
      - i) Siemens transmitter and accessories: MAG 6000 with MODBUS Communications.
    - b. Output: Electric pulse proportional to flow.
    - c. NEMA 4X enclosed for remote mounting, with appropriate length factory cable kit and submersible kit.
    - c. Required features:
      - i) Back illuminated 3 line 200 character display.
      - ii) Shall indicate flowrate, totalized values – Forward and Reverse, settings and faults.
      - iii) Capable of rotating 360 degrees and shall be protected by a hinged cover.
      - iv) Programmed via integral password protected keypad.

- v) Plug in ModBUS Communications module.
- 2. Signal Transmitter
  - a. Manufacturer
    - i) Sensus Metering Systems -Model 1107D
    - ii) Approved equal
  - b. Performance Requirements
    - i) Input signal: From transmitters specified in paragraph 2.01, A.
    - ii) Output signal: 4-20mA DC into 500 ohm load at 24 volt DC. Signal to be directly proportional to flow.
  - c. Features
    - i) Solid-state electronics
    - ii) Integral regulated power supply for driving transmitter, 120-volt AC single phase 60 hertz.
    - iii) Plug-in circuit cards coated for maximum environmental protection

## 2.02 LAYING LENGTHS

Minimum laying lengths for meter and standard strainer shall be as shown on Drawings.

## PART 3 EXECUTION

### 3.01 TAPPING AND METER SERVICE INSTALLATION

- A. Refer to other sections of the specifications for tapping requirements.
- B. Meter Service Line:
  - 1. Use pipe and fittings conforming to requirements of Section 02501 - Ductile Iron Pipe and Fittings, or Section 02506 - Polyvinyl Chloride Pipe.
  - 2. Limit pulling and deflecting of joints to limits recommended by manufacturer.
  - 3. Make vertical adjustments with offset bends where room will permit. Minimize number of bends.
- C. Follow manufacturer's recommendation for the minimum upstream and downstream

installation requirements for the flow sensor.

3.02 METER FITTING HOOKUP

- A. Support meter piping and meter, level and plumb, during installation. Support meters 8 inches and larger with concrete at minimum of two locations.
- B. Use round flanged fittings inside meter station or vault except for mechanical joint to flange adapter. Provide full-face 1/8-inch black neoprene or red rubber gasket material on flanged joints. Provide bolts and nuts made from approved corrosion-resistant material.
- C. Tighten bolts in proper sequence and to correct torque.
- D. Visually check for leaks under normal operating pressure following installation. Repair or replace leaking components.

3.03 METER BOX AND VAULT INSTALLATION

Conform to other sections of the specifications for requirements of meter vaults.

3.04 CALIBRATION

- A. Each flow sensor shall be wet calibrated and furnished with a factory calibration certificate.
- B. The calibration information and factory settings matching the sensor shall be stored in an integrally mounted SENSORPROM® memory unit. The SENSORPROM® shall store sensor calibration data and signal converter settings for the lifetime of the product. At initial commissioning, the flowmeter commences measurement without any initial programming. The transmitter shall be of the plug-N-play type. All customer specified settings are downloaded to the SENSORPROM®. Should the signal converter need to be replaced, the new signal converter will upload all previous settings and resume measurement without any need for reprogramming or rewiring. A certificate of calibration shall accompany each flow sensor.

3.05 CALIBRATION

- A. Each flow sensor shall be wet calibrated and furnished with a factory calibration certificate.

3.05 TESTING

- A. Accuracy registration tests will be conducted in accordance with latest revision of AWWA standard for type and size of meter.
  - 1. Tests will be run by manufacturer on all 8 inch and larger meters prior to installation. Manufacturer shall submit certified test results.

2. Accuracy of displacement meters during guarantee period shall be as follows:
  - a. Initial period: of 18 months from date of shipment or 12 months from date of installation: 98.5% to 101.5% at standard and minimum flow rates; 98% to 101% at low flow rates.

END OF SECTION





Mason Tender Cement.....\$ 9.96  
Pipelayer.....\$ 10.07

PIPEFITTER.....\$ 17.00 0.04

Power equipment operators:

Excavator.....\$ 16.74  
Backhoe.....\$ 13.25  
Bulldozer.....\$ 14.00  
Crane.....\$ 14.91 0.58  
Front End Loader.....\$ 11.75 0.92  
Grader.....\$ 12.20 1.48  
Tractor.....\$ 12.38 1.51

TRUCK DRIVER.....\$ 12.28 0.98

-----  
WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

=====  
Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at [www.dol.gov/whd/govcontracts](http://www.dol.gov/whd/govcontracts).

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

-----  
The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than "SU" or "UAVG" denotes that the union classification and rate were

prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

#### Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

#### Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

---

#### WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- \* an existing published wage determination
- \* a survey underlying a wage determination



- \* a wage and Hour Division letter setting forth a position on a wage determination matter
- \* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

with regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations  
Wage and Hour Division  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

=====  
END OF GENERAL DECISION



**THE COUNTY OF GALVESTON**

**RUFUS G. CROWDER, CPPO CPPB**  
PURCHASING AGENT

**GWEN MCLAREN, CPPB**  
ASST. PURCHASING AGENT

COUNTY COURTHOUSE  
722 Moody (21<sup>st</sup> Street)  
Fifth (5<sup>th</sup>) Floor  
GALVESTON, TEXAS 77550  
(409) 770-5371

January 17, 2018

**RE: ADDENDUM #4**  
**Bid #B181010, CDBG Round 2.2: I-45/Hwy 6 Water Distribution System Project**

To All Prospective Bidders,

The following information is being provided to aid in preparation of your bid submittal(s):

**AMENDED BID OPENING DATE:**

Due to the negative effect of the flow of business to the County due in part to office closures caused by the inclement weather conditions, the bid opening date for the aforementioned solicitation has been changed. The new bid opening date is as follows:

**Date: Thursday, January 25, 2018**  
**Time: 2:00 P.M., CST**


Please send bid submittals to:  
**Galveston County Purchasing Agent**  
**Attention: Rufus Crowder, CPPO CPPB**  
**722 Moody (21<sup>st</sup> Street), Fifth (5<sup>th</sup>) Floor**  
**Galveston, Texas 77550**

As a reminder, all questions regarding this bid must be submitted in writing to:

Rufus G. Crowder, CPPO CPPB  
Galveston County Purchasing Agent,  
722 Moody, Fifth (5<sup>th</sup>) Floor  
Galveston, Texas 77550  
Fax: (409) 621-7987  
E-mail: [rufus.crowder@co.galveston.tx.us](mailto:rufus.crowder@co.galveston.tx.us)

Please excuse us for any inconvenience that this may have caused.

Sincerely,

  
Rufus G. Crowder, CPPO CPPB  
Purchasing Agent  
Galveston County