

Document 00911

NOTICE OF
ADDENDUM NO. 1

Date of Addendum: 4/28/15

PROJECT NAME: FY2013 Flood Gauge and Flood Warning System Construction Work Orders, Work Order No. 5

PROJECT NO: M-430241-0010-4

BID DATE: April 30, 2015 (There is no change to the Bid Date.)

FROM: J. Timothy Lincoln, P.E., City Engineer
City of Houston
Department of Public Works and Engineering
611 Walker, 15th Floor
Houston, Texas 77002
Attn: Maher H. Saied, Sr. Project Manager, Project Manager

TO: Prospective Bidders

The referenced Addendum forms a part of the Bidding Documents and will be incorporated into the Contract documents, as applicable.

Written questions regarding this Addendum may be submitted to the Project Manager following the procedures specified in Document 00200 – Instructions to Bidders. Immediately notify the City Engineer through the named Project Manager upon finding discrepancies or omissions in the Bid Documents.

This Addendum includes:

ADDENDUM SYNOPSIS

Changes to Project Manual
Clarification to the Bid Documents

MKS

Ravi Kaleyatodi, P.E., CPM
Senior Assistant Director
Engineering Branch
Engineering and Construction Division

DATED: 4/28/15

END OF DOCUMENT

Document 00910

ADDENDUM NO. 1

Date of Addendum: 4/28/15

PROJECT NAME: FY2013 Flood Gauge and Flood Warning System, Construction
Work Orders – Work Order No. 5

PROJECT NO: WBS No. M-430241-0010-4

BID DATE: April 30, 2015 (There is no change to the Bid Date)

FROM: James T. Lincoln, P.E., City Engineer
City of Houston, Department of Public Works and Engineering
611 Walker Street, Houston, Texas 77002

Attn: Maher Saied, Project Manager

TO: Prospective Bidders

This Addendum forms a part of the Bidding Documents and will be incorporated into the Contract documents, as applicable. Insofar as the original Project Manual and Drawings are inconsistent, this Addendum governs.

This Addendum uses the change page method: remove and replace or add pages, or Drawing sheets, as directed in the change instructions below. Change bars (|) are provided in the outside margins of pages from the Project Manual to indicate where changes have been made; no change bars are provided in added Sections. Reissued Drawing Sheets show the Addendum number below the title block and changes in the Drawing are noted by a revision mark and enclosed in a revision cloud.

CHANGE IN PROJECT MANUAL

Section 00010 – Table of Contents. Remove the Section 00010 Table of Contents pages 00010-3 and 00010-5 from the contract documents and replace with Section 00010 Table of Contents – pages 00010-3 and 00010-5 from this addendum.

Section 01110 – Summary of Work. Remove the entire Section 01110 – Summary of Work from the contract documents and replace with the entire Section 01110 – Summary of Work from this addendum. Refer to Section 1.10.C.

Section 13376-1 and 13376-18 – Automated Flood Warning System. Remove the Section 13376 Automated Flood Warning System pages 13376-1 and 13376-18 from the contract documents and replace with Section 13376 Automated Flood Warning System pages 13376-1 and 13376-18 from this addendum.

CLARIFICATIONS

The Bid Date for this project will remain the same as in the Project Manual, Document 00210-3, 10.0 – Bid Submission, A.1. City Secretary will receive Bids at 900 Bagby, Room P101, Houston, Texas until 10:30 A.M., central time on April 30, 2015.

Question 1: This project consists of installing flood gauge equipment at several independent locations. Once the specified equipment is installed and tested at a location and the City is able to monitor the location, will substantial completion be granted for that location?

Answer: Partial substantial completion is allowed. Contractor to submit post plan at construction time to be approved by Construction project manager”

Question 2: 13376-1 Paragraph on General Operation states that “Rain Gauges may be used at some installations”. Are any rain gauges desired for this system?

Answer: Yes there will be one “Rain Gauge per site location. The rain gauge will be installed in the “Master Station”.

Question 3: 13376-18 Section 7. Calls for “at least one Base Station Software License”. It is our understanding that the software for this system uses the City’s existing SCADA base station software and would not require additional software for the system expansion. Please clarify.

Answer: No Base Station Software License will be required on this project. The City of Houston already owns their Base Station Software. The equipment must be able to communicate to the City of Houston Base Station Software.

Question 4: 01110-2 calls for Spare Equipment to be incidental to Bid Form Part B Items. The potential problem with this approach is that if the full cost of the spares is spread out over all the sites and the City opts to not issue a contract for all the sites there will not be sufficient money to cover all the spare equipment. We request that the spares either be listed as a separate line item in the bid form or there is a statement that the quantity of spares would be adjusted appropriately if all listed sites (10 Master Stations and 52 Remote stations) are on included in the awarded contract.

Answer: This bid is for all sites to be constructed under this project. This is not a work order based contract.

Question 5: The previous contract for this type of Flood Gauge equipment called for a 2 year price guarantee. Is a similar guarantee required for this contract?

Answer: The guarantee on the price of the equipment is between the supplier and the contractor. There is only one work order and the worker order is this bid.

Question 6: The previous sites that have been installed were done so under a number of Work Orders. Is it planned that all the listed sites will be awarded at one time under a single work order?

Answer: There is only one work order and the work order is this bid.



DATED: _____

9/28/15

MHS

Ravi Kaleyatodi, P.E., CPM
Senior Assistant Director
Department of Public Works and
Engineering

END OF ADDENDUM NO. 1

**FY2013 Flood Gauge and Flood Warning System
 Construction Work Orders
 Work Order No. 5
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<u>Doc. No.</u>	<u>Document Title</u>	<u>Doc. Date</u>
00631	(POP-3) City of Houston Pay or Play Program – List of Subcontractors	07-03-2012
00633	Equal Employment Opportunity–Certification By Material Suppliers	02-01-2010
00642	Monthly Subcontractor Payment Reporting Form	02-01-2010
00646	Payment Notification Explanation of Withholding	02-01-2010
 GENERAL CONDITIONS		
00700	General Conditions	01-01-2015
 SUPPLEMENTARY CONDITIONS		
00803	Work Order Supplementary Conditions	11-12-2009
00805	Equal Employment Opportunity Program Requirements	05-01-2012
00808	Requirements for the City of Houston Program for Minority, Women, and Small Business Enterprises (MWSBE), and Persons with Disabilities Business Enterprises (PDBE) Program ..	08-01-2013
00820	Wage Scale for Engineering Construction	02-01-2015
00840	Pay or Play Program Requirements	07-03-2012
 ADDENDA AND MODIFICATIONS		
00910	Addendum	02-01-2004
00911	Notice of Addendum	02-01-2004
00931	Request for Information	02-01-2004
 SPECIFICATIONS		
 DIVISION 1 - GENERAL REQUIREMENTS		
01110	Summary of Work	06-27-2005
01145	Use of Premises	01-01-2011
01255	Change Order Procedures	08-01-2003
01270	Measurement and Payment	08-01-2003
01292	Schedule of Values	08-01-2003
01312	Coordination and Meetings	08-01-2003
01321	Construction Photographs	08-01-2003
01325	Construction Schedule	08-01-2003
01326	Construction Schedule (Bar Chart)	08-01-2003
01330	Submittal Procedures	08-01-2003
01340	Shop Drawings, Product Data, and Samples	08-01-2003

**FY2013 Flood Gauge and Flood Warning System
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<u>Doc. No.</u>	<u>Document Title</u>	<u>Doc. Date</u>
02915	TREE PLANTING	01-01-2011
02922	SODDING	07-01-2009
02951	PAVEMENT REPAIR AND RESTORATION	07-01-2009

DIVISION 3 - CONCRETE

03315	CONCRETE FOR UTILITY CONSTRUCTION	10-01-2002
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DIVISION 4 - MORTAR

04061	MORTAR	10-01-2002
04210	BRICK MASONRY FOR UTILITY CONSTRUCTION.....	10-01-2002

DIVISION 5 – METALS- Not Used

DIVISION 6 - WOOD AND PLASTICS- Not Used

DIVISION 7 - THERMAL AND MOISTURE PROTECTION- Not Used

DIVISION 8 - DOORS AND WINDOWS- Not Used

DIVISION 9 - FINISHES- Not Used

DIVISION 10 - SPECIALTIES- Not Used

DIVISION 11 – EQUIPMENT- Not Used

DIVISION 12 - FURNISHINGS- Not Used

DIVISION 13 - SPECIAL CONSTRUCTION

13376	AUTOMATED FLOOD WARNING SYSTEM	06-26-2012
13440	PUMP STATION CONTROL SYSTEM	06-26-2012
13446	PRIMARY INSTRUMENTATION DEVICES.....	06-26-2012
13471	CONTROL CABINET ENCLOSURES	06-26-2012

DIVISION 14 - CONVEYING SYSTEMS- Not Used

DIVISION 15 – MECHANICAL- Not Used

DIVISION 16 – ELECTRICAL

16010	BASIC ELECTRICAL REQUIREMENTS.....	01-01-2011
16012	ELECTRICAL WORK.....	05-03-2012

Section 01110

SUMMARY OF WORK

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Summary of the Work including work by the City, City-furnished Products, work sequence, future work, Contractor use of Premises, special conditions for substantial completion and City occupancy.
- B. Justification: There have been occurrences of flooding in the underpass locations in this bid package. Providing flood depth warning systems will minimize the probability of the traveling public entering the flooded high water hazard area.

1.02 WORK COVERED BY CONTRACT DOCUMENTS

- A. Definition: Work of the Contract is for construction of the Storm Water Flood Warning System Improvements at the following grade separations: (1)-East Hardy Pump Station, (2)-1500 N Main at Brooks, (3)-Gulf Freeway Pump Station, (4)-Wayside Under Lawndale, (5)-Forrest Hill Underpass, (6)-Harrisburg at Railroad, (7)-Clinton at N. Wayside, (8)-Franklin Under Commerce, (9)-Mesa Road at Liberty. More specifically the work covered by the contract documents includes installation of new advanced safety warning lights, street signs, water level gauges, electrical wiring, traffic control regulation, and pavement rehabilitation as detailed on the Contract Drawings.

Contractor is responsible for pulling all permits with respect to this project. A list of required permits includes but is not limited to the following: a Street Cut Permit, City of Houston Building permit and Railroad Permit.

The work in general consists of the following:

- C. Construction of an Advance Flood Warning System including signage at the intersections which includes High Sierra Model 3512C and HSE Model 3350 Series controller with major components consisting of: Flood Sensor, Master Station, Advance Warning Station, Communications System Solar Power

System, load Control, Mounting, Conduit and Cabling; Optional Gauging, and Monitoring and Control. Communication data will be sent to the City of Houston Maintenance Facility by the installation of a SCADA Panel that receives data from the High Sierra Master Stations. The contractor shall coordinate with the City of Houston Project Manager and the Manufacturer to provide the City of Houston with a VHF Radio Frequency license for each location in this project. Contractor is responsible for all work shown in the Construction Drawings. Any omission of work shown in the Construction Drawings from this Summary of Work is unintentional. Contractor is responsible for all means, methods, techniques and sequences utilized for the completion of all work shown in the Construction Drawings. Any costs associated with the means and methods utilized in the completion of the work shall be included in the Total Bid Price.

Installation of Conduit (Trench or Boring) will not be paid for directly but will be incidental to the SCADA Panel Bid Item.

Saw Cutting will not be paid for directly but will be incidental to Bid Item "Remove and Dispose of Miscellaneous Concrete and Masonry". See Section 02221 (Removing Existing Pavements and Structures)

- C. Materials and Equipments: Provide complete materials, equipment, tools and supervision to perform the required work. Provide all appurtenant equipment, connections and special items necessary to accomplish the purposes shown or specified even if such appurtenances are not specifically specified or shown on the drawings. Install all items provided in accordance with the specifications, the manufacturer's recommendations and the best practices of the trades involved. The contractor shall supply spare equipment for the Master Gauging System, Remote Warning Station, SCADA Panel in accordance with the following list:

1. Master Gauging System / Remote Warning Station

- a. Quantity of 2 Each - 20 Watt Solar Panel with Mounting Bracket & 25' Cable. (Model# 5302-03)
- b. Quantity of 1 Each - 15 PSI Pressure Transducer with 35' Submersible Cable, Desiccant Box with Signal Conditioning Circuit, 12' Signal Cable. (Model# 6600-10)

- c. **Quantity of 215 LF** – 215' of additional Submersible Cable for a Total Length of 250'. (Price per Foot) (Model# 6600-01)
- d. **Quantity of 1 Each** - 12" Yellow LED Beacon Assembly. (Model# 5826-00)
- e. **Quantity of 4 Each** – 100 Amp Hour, 12V Sealed Solar Battery. (Model# 5611-00)
- f. **Quantity of 2 Each** – VFH Omni-Directional Antenna; Tuned Frequency range: 169 to 173 MHz (Model# 7110-00)
- g. **Quantity of 2 Each** – Antenna Cable Set (extended length) with Lightning Protection. (Model# 7150-12)
- h. **Quantity of 1 Each** – ALERT Controller /Transceiver/ Decoder. Includes: AC Float Charger, Audio, Battery Cables and 12V 2.3 Amp Hour Battery. (Model# 3345-01)
- i. **Quantity of 1 Each** – Alert Controller in Nema-4X Enclosure. (Master or Remote Capability) (Model# 3355-03)
- j. **Quantity of 1 Each** – VHF Telemetry Transceiver. (Model# 3701-00)
- k. **Quantity of 1 Each** - Complete SCADA Panel per Project Drawings (Sheet 97 of 99, SCADA Panel Elevation Details)

The spare part will not be paid for directly, but will be incidental to the Document 00410B – Bid Form – Part B for Item (Remote Warning Station), Item (Master Gauging System) and Item (SCADA Panel).

- D. Contractor: Assume full responsibility for the means, methods, techniques, sequences and procedures of construction and safety precautions and programs incidental thereto, and for the functional operation of equipment and systems specified in this contract. No materials or equipment may be placed upon the property of the City other than designated on the Drawings unless the City has agreed to the location contemplated by the Contractor to be used for storage.

Contractor will be responsible to coordinate with residents, Home Owners Association (HOA), Property Owners Association (POA), Civic Association, Historic District and Super Neighborhood on handling of any private features within the right-of-way a minimum of 72-hours prior to any construction

activities which may impact these features (For Contact Info See 1.06: Work Sequence of this document) . These features may include but are not limited to: existing irrigation systems (including spray and rotary heads and related piping and electrical wiring), mailboxes, and landscaping and existing yard drain. All Landscaping, irrigation and private electrical conduits and /or equipment including sprinkler systems which are affected by construction of proposed pavement, driveway, sidewalk, storm sewer, sanitary sewer, and / or waterline replacement and/or due to contractor activities, will be considered incidental to the various construction bid items included in Document 00410-Bid Form, Part A & B. Contractor Shall use caution while working within the proximity of these types of facilities so as to avoid impacts. Should impacts occur, restoration shall be to a condition that is equal to or better than prior to start of construction. The repair or replacement of these types of facilities, necessitated by construction activities, will be the contractor's responsibility at no cost to the city. Contractor should verify the operation of irrigation systems with the property owner prior to the starting construction.

- E. Storage: Move any stored products under Contractor's control, which interfere with operations of the City or separate contractor.
- H. Additional Storage: Obtain and pay for the use of additional storage or work areas needed for operations.
- L. Appurtenances: The contractor shall be responsible for installing any new services and related appurtenances from the existing system.
- M. SW3P: Conduct all construction operation under this contract in conformance with the erosion control practices described in Document 01410 "TPDES Requirements" and Document 01570 "Storm Water Pollution Control". The Storm Water Pollution Prevention Plans and notes are included in the construction drawings.
- N. Restoration: Any pavement (such as wheel chair ramps, pavement curbs, sidewalks, driveways, bikeways, etc.), fences, gates, lawns, irrigation utilities, landscapes, ditches, culverts, inlets, manholes, signs or mail boxes and other improvements that have been disturbed due to construction activity shall be replaced with same quality material or better, unless otherwise noted in the contract documents, according to City of Houston standard specifications.

The cost incurred will be incidental to the Document 01740 "Site Restoration".
Contractors are required to bid accordingly.

1.03 CASH ALLOWANCES

A. Include the following specific Cash Allowances in Contract Price under provision of General Conditions Paragraph 3.11:

1. Street Cut Permit Fee
2. City of Houston Building Permit
3. Railroad Permit

1.04 ALTERNATES – NOT USED.

1.05 CITY-FURNISHED PRODUCTS

A. Items Furnished by the City for Installation and final connection by Contractor: None.

B. Contractor's Responsibilities:

1. Arrange and pay for Product delivery to the site.
2. Receive and unload Products at the site; jointly with the City, inspect for completeness or damage.
3. Handle, store, install, and finish Products.
4. Repair or replace damaged items.
5. Contractor will be responsible to coordinate with residents and the

1.06 WORK SEQUENCE

A. The Contractor shall install all of the Service Meter Assembly within 30 working days from the commencement date of contract.

B. Construct the Work in Phases during the construction period; coordinate all Of construction schedule and operations with the City:

- C. Coordination of the Work: Refer to Section 01312 - Coordination and Meetings. The following are the contact numbers for HOA, POA, Civic Association, Historic District and Super Neighborhood:
1. Clinton @ N. Wayside Key Map 495-N
 - a. (56) DENVER HARBOR / PORT HOUSTON
 - b. Denver Harbor Civic Club, Mark Hernandez P.O.Box 15900
Houston, TX 77220
 2. Harrisburg @ R.R Key Map 495-W
 - a. (61) DOWNTOWN - James Dickins (713)861-6551
 - b. (63) SECOND WARD
 - c. Second Ward Residence Association, Paul Meza
123 Christensen, Houston, TX 7700
 3. 1500 N. Main @ Brooks Key Map 493-H
 - a. (61) DOWNTOWN - James Dickins (713)861-6551
 - b. (51) NEAR NORTHSIDE - Renamed as the NORTHSIDE VILLAGE
 - c. North Central Civic Association - Frenando Cisneroz
3804 Robertson, Houston, TX 77009
 4. Franklin under Commerce Key Map 493-R
 - a. (61) DOWNTOWN - James Dickins (713)861-6551
 - b. (63) SECOND WARD
 - c. Second Ward Residence Association, Paul Meza
123 Christensen, Houston, TX 7700
 5. Wayside under Lawndale Key Map 535-B
 - a. (88) LAWNSDALE / WAYSIDE
 - b. East Lawndale Civic Association Email:
elca2012@yahoo.com
 - c. Greater Magnolia Pineview Place Civic Club
Angie Martinez 7508 Harrisburg Blvd.,
Houston, TX 77011
 6. Forrest Hill Underpass Key Map-494-Z
 - a. (88) LAWNSDALE / WAYSIDE
 - b. (82) MAGNOLIA PARK
 - c. East Lawndale Civic Association Email:
elca2012@yahoo.com
 - d. Greater Magnolia Pineview Place Civic Club
Angie Martinez, 7508 Harrisburg Blvd. Houston, TX 77011

7. Gulf Freeway Pump Station Key Map 494-S
 - a. (64) Greater Eastwood
 - b. (67) Greater Thirdward
 - c. Eastwood Civic Association
info@eastwoodcivicassociation.org
8. 7506 E. Hardy Key Map 453-M
 - a. (46) Eastex / Jensen
 - b. (45) Northside / Northline
9. 5405 Mesa Key Map 455-U
 - a. (49) East Houston

1.07 CONTRACTOR USE OF PREMISES

- A. Comply with procedures for access to the site and Contractor's use of rights-of-way as specified in Section 01145 - Use of Premises.
- B. Construction Operations: Limited to the City's rights-of-way provided by the City and areas shown or described in the Contract documents.
- D. Utility Outages and Shutdown: Provide a minimum of 48 hours notice to the City and private utility companies (when applicable), excluding weekends and holidays, in advance of required utility shutdown. Coordinate all work as required.
- E. Private Utility Relocations: Pursuant to the Section 40-395 of the City of Houston (City) Utility Relocation Ordinance Program (URO), there were no private utilities conflicts identified at this time within the scope of the project limits, based on the information provided to Othon, Inc by the utilities companies. After the contractor has notified the Texas One Call (713-223-4567/800-245-4545 and Lone Star One Call at 800-669-8344) to locate all utilities for each site, a pre-construction meeting will be held at each site and the all equipment to be installed will be staked in the field by contractor and City of Houston or the City of Houston representative. If at this time a conflict should exist the equipment will be relocated in the field by the engineer to resolve any conflict. The relocation of the any equipment shall be performed at no cost to the City of Houston.

1.08 STREET CUT ORDINANCE

- A. Excavations on or under pavement in the City's right-of-way must have a permit. Comply with City of Houston, Texas Ordinance No. 2000-1115, and ordinance amending Chapter 40 of the Code Ordinances, Houston, Texas, relating to excavating in the Public right-of-way and comply with amendments provided by Texas Ordinance No. 2006-0595 including the following fee schedule:

Schedule of Permit Application Fees*

Initial Application Fee:

Tunneling, Jacking and Boring only	\$137.60
All other Methods of Excavation	\$192.65

Permit Extension Application Fee:

Other Than Steel Plate Temporary Surface	\$27.51
Steel Plate Temporary Surface	\$55.04

Data Entry Fee for Non-Electronic Submission (per application)	\$55.04
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*All fees/charges are non-refundable

Comply with the latest edition of street cut "New Pavement Repair and Pavement Replacement details".

Contractor shall comply with requirements from Chapter 12 of the City of Houston's Infrastructure Design Manual (dated January, 2011), entitled "Street Cut requirements".

- B. The bid items for the cost of street cut pavement repair and replacement identified on the drawings are included in the Bid Form.
- C. Contractor shall obtain all required permits and signs prior to performing any methods of construction involving street excavation in the existing pavement.

1.09 WARRANTY

- A. Comply with warranty requirements in accordance with Document 00700 - General Conditions.

1.10 ADDITIONAL CONDITIONS FOR SUBSTANTIAL COMPLETION

- A. In addition to requirements outlined in Document 00700 – General Conditions, for Contractor to be substantially complete with the Work and call for inspection by Project Manager to confirm, the following conditions must be met or completed:
1. Demonstrate the ability to receive and monitor Data Acquisition (SCADA) data from all remote sites through the Master Station back to the City of Houston Maintenance Facility.
 2. All testing shall be completed and accepted by the City of Houston Project Manager or City of Houston Representative.
 3. All spare equipment shall be delivered to the City of Houston as directed by the City of Houston Project Manager.
 4. All safety related systems and equipment shall be installed, accepted by the manufacturer's representative (per specification requirements) and approved for use.
 5. Contractor shall provide VHF Radio Frequency License for locations to the City of Houston Project Manager.
 6. All pay Items shall be compiled in complete report.
 7. All services and utilities are operational.
- B. No additional condition described in Paragraph 1.10 may be included in Contractor's punch list.
- C. Partial Substantial Completion per the following:
1. Partial substantial completion will be allowed. Contractor must submit a post plan / schedule of all construction work to be performed per each site location before the start of construction to be approved by City of Houston Construction Project Manager or his representative.
 2. Record Drawings shall be submitted upon Completion of each construction site location or as directed by the construction Project Manager before partial substantial completion will be approved.

PART 2 P R O D U C T S - Not Used

PART 3 E X E C U T I O N - Not Used

END OF SECTION

FY2013 Flood Gauge and Flood Warning System

Construction Work Orders

Work Order No. 5

ADDENDUM No. 1

WBS No. M-430241-0010-4

AUTOMATED FLOOD WARNING SYSTEM

SECTION 13376

AUTOMATED FLOOD WARNING SYSTEM

PART 1 - GENERAL

1.00 **DESCRIPTION**

This Item shall govern the furnishing and installation of a solar powered water level monitoring system solar-powered flooded roadway Automated Flood Warning System (AFWS) as shown in plans, as detailed in the special specifications and as directed by the Engineer. This system will be used to detect rising water levels and issue an alert regarding of the possibility of roadway flooding.

A. **General Operation:**

1. When the water level monitored by the "flood sensor" reaches a threshold level, the wireless data and control system will activate sets of flashing beacons or programmed message signs. A rain gauge for measurement and recording of rainfall data shall be included with the Master Station installations (One (1) per site location). The system reports water level in near real-time without significant delay. The water level monitor is also referred to as the "flood sensor". The flood sensor may be one of several acceptable technologies that avoid direct electrical contact with the water. The flood sensor signal is processed for action and transmission by the Master Station. The Master Station controls up to eight (8) Remote Advance Warning Stations equipped with flashing beacons, changeable message signs or dynamic message signs as selected by the engineer. The Advance Warning Station confirms it has been activated by sending a message back to the Master Station. The Master Station provides updated status message to the Base Station for display and sending of various alarm notifications. The flood sensors report via wireless means to a base station for operation and control.

FY2013 Flood Gauge and Flood Warning System

Construction Work Orders

Work Order No. 5

ADDENDUM No. 1

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AUTOMATED FLOOD WARNING SYSTEM

- a. Warrant that products supplier manufactures are free from defects in material and workmanship for a 3 year period. Batteries and other manufactures' products are under the warranty of that manufacturer. Provide a minimum of one year warranty from the date of shipment on all equipment. Warranty may be voided for equipment that has been altered without authorization, tampered with or vandalized.
7. Measurement. This Item will be measured by each solar-powered water level monitor with pressure transducer, with or without rain gauge system, and concrete foundation, complete and in place. This Item will be measured as each system furnished, installed and tested in accordance with this Special Specification and as directed by the Engineer.
8. Payment. The work performed and materials furnished in accordance with this Item and measured as provided under "Measurement" will be paid for at the unit price bid for "Solar-Powered Water Level Monitor and Automated Flood Warning System for Low Water Crossings". This price shall be full compensation for all equipment, tools, labor, training, warranty, and incidentals.

END OF SECTION