



Fulton County, GA

Department of Purchasing & Contract Compliance

April 9, 2014

**Re: 14ITB91558K-JAJ
S-127 Morgan Falls Waste Water Pump Station
Improvements**

Dear Bidders:

Attached is one (1) copy of Addendum 2, hereby made a part of the above referenced Invitation to Bid.

Except as provided herein, all terms and conditions in the Invitation to Bid referenced above remain unchanged and in full force and effect.

Sincerely,

James A. Jones

James A. Jones
Assistant Purchasing Agent

Winner 2000 - 2009 Achievement of Excellence in
Procurement Award • National Purchasing Institute



14ITB91558K-JAJ
S-127 Morgan Falls Waste Water Pump
Station Improvements
Addendum No. 2
Page Two

This Addendum forms a part of the contract documents and **modifies** the original ITB documents as noted below:

CORRECTIONS TO ITB:

SECTION 5; Page 1 of Purchasing Documents:

Form C: Professional License Certification

Form C1- Georgia Utility Contractor's License (APPLICABLE)

Form C2-Georgia General Contracting License (APPLICABLE)

Form C3- Georgia Professional License (NOT APPLICABLE)

SECTION 01 33 00, SUBMITTAL PROCEDURES; Page 1, Item 1.02, INITIAL SUBMITTALS

The Contractor shall prepare and submit a draft Schedule of Values for approval by the Owner. The Schedule of values shall follow the bid schedule and breakdown work activities and payment amounts. The final approved schedule of values will be included in each monthly Payment Application. Preferably the schedule of values shall be prepared in Primavera.

SECTION 01 33 00; Page 1, Item 1.04, SCHEDULE OF SUBMITTALS :

The Contractor shall prepare and submit for approval by the owner a draft Schedule of Submittals (Submittal Log) listing all submittals to be processed during the project.

ADDITIONS TO ITB:

1. PRIMAVERA Contract Management Expedition and P6 for Scheduling: Contractor shall include (in Section 2; Page 3; Bid Form Item 1) and provide 3 licenses for Primavera Contract Management and 3 licenses for Primavera P6 and provide Training and Technical Support for both as described below in Section 01 3350, Project Document Tracking and Control.

SECTION 01 3350

PROJECT DOCUMENT TRACKING AND CONTROL SYSTEM

PART 1 - GENERAL

SUMMARY

- A. This section includes requirements for the implementation and use of the Project Document Tracking and Control System for S-127 Morgan Falls Pump Station Improvements Project.
- B. Related Sections include the following:
 - Division 01 Section "Payment Procedures" for submitting Application for Payment.
 - Division 01 Section "Construction Progress Documentation" for submitting schedules and reports, including Contractor's Construction Schedule.
 - Division 01 Section "Submittal Procedures"
 - Division 01 Section "Closeout Procedures" for submitting warranties and Project Record Documents.
 - Division 01 Section "Project Record Documents" for submitting Record Drawings, Record Specifications, and Record Product Data.

1.01 SCOPE

- A. The Project Document Tracking and Control System (DTCS) will be utilized by the Owner and Contractor. The primary function of the system is to facilitate timely processing and approval of all contract documentation in coordination with the Overall Project Schedule established by these Specifications and the Contractor. This system will utilize software equal to the following:

1. Primavera P6 for CPM scheduling;
2. Primavera Contract Management (Expedition) for document tracking and control;
3. Any other software and licenses necessary for the installation and running of the DTCS.

The software will:

1. Facilitate communication among the Owner and Contractor.
2. Facilitate turn-around time with regard to responses and approvals.
3. Provide a central location for all Project information to facilitate all Project participants in performing their tasks based on the latest Project data.
4. Provide a standard system of project reporting and administration with accountability.

B. The Contractor will utilize the system to create the required project documents and monthly project status reports. All appropriate Project documents generated by the Users will be maintained within the DTCS database. The system will be used to create and track the following documents:

1. Project Directory/Contact List: Addresses, phone numbers, personnel contacts, etc.
2. Drawings Log: Current drawing revision log.
3. Shop drawing submittal log.
4. Transmittals and submittals forms and logs.
5. Requests for Information & Answers (RFIs) forms and logs.
6. Change Documents, Forms, and Logs, Including:
7. Daily Reports: Integrated with the Overall Project Schedule, including Contractor's daily reports.
8. Field Orders & Clarification Memos.
9. Notices of Non-Conformance and Non-Compliance.
10. Construction Issue Memos
11. Test reports

12. Task and issue management
13. Schedule and calendar Management.
14. Punch lists.
15. Meeting Minutes & Agendas.
16. Correspondence.
17. Progress Payments (integrated with cost loaded P6 schedule of values).
18. Work plans.
19. Start-up plans.
20. Equipment Operation and Maintenance Training.
21. Spare Parts.
22. Equipment Vendor
23. Payment application forms
24. Reminder and tracking functions
25. Photo documentation
26. Drawing and specification document hosting, viewing, and updating
27. Online document collaboration
28. Archiving functions
29. Other functions as required by the Construction Manager.

D. Software:

1. The Contractor shall include in its bid (Section 2; Bid Form; Page 3; Item 1, Pump Station Improvements) the cost for procuring software and current licenses of the DTCS software and hardware for the duration of the project.
 - a. Primavera Contract Management (Expedition) - Three licenses, Two of which shall be turned over to the Owner. One shall be retained by the Contractor for use during the Project and turned over to the Owner at the end of the Project. Version is latest at time of NTP issuance, as determined by the Owner.
 - b. Primavera P6 - Three licenses, Two of which shall be turned over to the Owner. One shall be retained by the Contractor for use during the Project and turned over to the

Owner at the end of the Project. Version is latest at time of NTP issuance, as determined by the Owner.

2. The Contractor shall also purchase technical support, maintenance, and upgrades for the duration of the Project for all software identified above for the full duration of the Project. This shall also include the cost of any upgrades, both hardware and software.
 3. Ownership of all software licenses shall be assigned to and retained by the County.
 4. Software shall be delivered to the Owner within 15 days after issuance of the Notice to Proceed.
- E. The Contractor shall be responsible for providing training of the project team for the DTCS software. Training shall include space for up to Two of Owner's personnel and up to two for the Contractor.
- F. On completion of the Project, the Contractor shall provide one complete archive copy of Project Document Tracking and Control System files to the Owner in a digital storage format acceptable to Owner.

+++ END OF SECTION 01 3350

SECTION 33 32 27

MAIN PUMP CONTROL PANEL [MPCP]

GENERAL

SUMMARY

This Section includes the design, furnishing, testing and start up of the Main Pump Control Panel complete and ready for operation at the Morgan Falls Pump Station.

DEFINITIONS

The Main Pump Control Panel includes all process, electrical, instrumentation, controls and power distribution equipment.

SYSTEM DESCRIPTION

The systems provided under this specification shall be complete and operable in all respects including, but not limited to, connections to other systems, lubricants, component and system tests, calibration, alignment and adjustments as necessary to place the systems in operation and to perform their intended function.

Major components of the system include, but are not limited to, all materials, equipment and work required to implement a complete and operating system including pump variable frequency drive (VFD), the pump controller (PLC or equivalent) and all process, electrical, instrumentation, controls and power distribution equipment. The system shall include internal control panel wiring, instrumentation and control equipment as noted hereinafter and in the reference specification sections.

QUALITY ASSURANCE

Contractor shall be responsible to provide for the supply, installation, certification, adjustment, testing and start-up of a complete and coordinated system which shall reliably perform the specified functions.

All interconnecting conduit and wiring, among components of a single packaged system shall be furnished, installed and connected under Section 26 05 00 - Common Work Results for Electrical Work.

SUBMITTALS

In addition to the requirements of this specification, the following information shall be provided to the Engineer before any components are fabricated, and/or integrated into assemblies, or shipped to the site:

Catalog information, descriptive literature, wiring diagrams, and shop drawings for all components of the control system.

A detailed description of the instrumentation and control system of each packaged system, including a list of all functions monitored, controlled and/or alarmed. Describe all interlock and automatic shutdown features. Standard instrument Society of America symbols shall be used on the schematics.

Field electrical installation information, including conduit routing, control panel location and wiring and conduit sizing.

The following specified information shall be provided to the Engineer within thirty days following contract award:

Electrical design drawings and installation with style and content similar to the electrical drawings in these contract documents. At a minimum the electrical design and installation drawings shall include the following:

Elementary control diagrams.

Electrical power and control plans.

Elevations of electrical engineered assemblies.

Wire sizing calculations.

Conduit sizing.

Installation details.

Control panel diagrams. Diagrams shall include all control devices and all auxiliary devices such as relays, alarms, fuses, lights, heaters, etc.

MANUFACTURER'S SERVICES

A technical representative of the Packaged Pump Control System supplier shall be present at the job site for a minimum of six days excluding travel time. The technical representative shall provide system start-up assistance and training of the Owner's personnel in the operation and maintenance of the system.

PRODUCTS

FUNCTIONAL REQUIREMENTS

General:

The Packaged Pump Control System supplier shall provide all wiring, conduit, instrumentation and controls necessary to provide a safe and operable system. The specific electrical and control systems proposed shall be subject to the approval of the Engineer, and shall be submitted in accordance with submittals section.

All electrical, instrumentation and control work provided under this section shall be of industrial quality.

Pre-wire all electrical and control devices:

All devices, electrical and control components that connect to other devices, electrical and control components integral to the control panel enclosure shall be pre-wired.

All devices, electrical and control components that connect to field devices or other equipment external to the control panel enclosure shall be prewired to common well marked field terminals. Use a separate and dedicated terminal strip for each of the following:

Power 460V or greater.

Control, discrete 120 volt.

Control, analog.

MAJOR COMPONENTS

Variable Frequency Drive (VFD)

The VFD shall be an Allen-Bradley or approved equal. The VFD shall have the following features:

The VFD shall be constant torque utilizing PWM technology in a NEMA 1, or open chassis enclosure.

Motor Rating: 20 HP

Input Rating: 460 Volt, 3 phase, 60 Hz power supply

Input KVA: 20.6 KVA

Input Frequency Tolerance: 47 to 63 Hz

Power Factor: 0.9 (minimum across entire speed range)

Efficiency: 97 percent (minimum at rated amps, nominal volts)

Output Current: 27 Amps (continuous)

Output Voltage Range: 0 volts to motor rated voltage

Output Frequency Range: 0Hz to 420Hz (Vector Control)

Analog Input: 4-20 mA

External Speed Control: 10 K ohms speed potentiometer

The VFD shall be U.L. listed and shall comply with IEEE 519 guidelines on harmonics.

The VFD shall be equipped with a human interface module that will display drive status, output frequency, output voltage, output current, output power, drive temperature, and the last four drive faults.

Interface module shall be equipped with an analog speed potentiometer and drive programmer.

When the pump selector switch on the pump control, panel is placed in the AUTO position, the drive shall accept an isolated Run/Stop signal from the pump control panel and an external 4-20 mA speed reference signal from the flow controller.

When the pump selector switch is placed in the HAND position, the drive shall be engaged and shall run on a potentiometer speed signal that is integrally mounted to the drive.

Pump Controller

The pump controller shall be an ITT Flygt model APP 741 (4-Pump Controller) or approved equal (3-Pump Controller/PLC). The Controller shall have the following features:

Supply voltage: 120 VAC, 60 Hz

Operating Temperature: 14 to 140 degrees F

Relative Humidity: 5 to 95 percent

Digital inputs: All 16 digital inputs are individually opto-isolated

Logic 0: -3 - +5V

Logic 1: 11-30 V, 6-30 mA

Digital outputs: All 8 outputs are individually isolated

Relay outputs: 6

Type: Normally open, unprotected

Max load: 2 A 250 VAC/DC

Solid state outputs: 2

Type: Normally open, unprotected

Output: 100 mA, 250 VAC/DC

Leakage current max: 0,01mA

Analogue inputs: All 4 inputs are individually opto-isolated

Resolution: 12bits

Signal range: 4-20 mA

Internal dynamic resistance, full scale: 50 Ohm

Inaccuracy, full scale, typ.: 0.1%

Voltage drop: 8 V

Communication:

Communication port: RS232

Bus communication: SIOX Driver

Max number of I/O: 600

Ethernet 10/100 Mbit: 1

User interface

Display: LCD 2x20 character, LED backlight

Push buttons: 8

Alarm indications: 16 LEDs

Pump well indications: 13 LEDs

RTU status indications: 4 LEDs

Power supply

Supply voltage: 24 VDC -15% - + 20%

Current consumption (no load): 1 A

Fuse: 2 A

Digital inputs, max load: 0,5 A

Analogue inputs, max load: 24 V, 80 mA

CONTROL PANEL

Control panel enclosures shall be U.L. listed. The Control Panels shall be complete with instruments and control components installed and wired in the equipment suppliers' factories. All wiring shall be completed and tested prior to shipment. All external connections shall be by way of numbered terminal blocks. Terminal blocks shall be grouped such that AC circuits are separate from DC or analog circuits.

Sufficient terminal blocks shall be provided to terminate all spare conductors. In addition, 20 percent of used terminals or no less than six shall be provided as unused spare terminals.

Control Panel enclosures shall conform to the requirements of NEMA and shall be rated as noted in the individual equipment specifications. In addition to the NEMA standards, the panels shall conform to the following requirements:

Control Panel enclosures shall be manufactured by Hoffman, or approved equal.

Unless otherwise noted, panels shall be constructed with front access only.

Minimum metal thickness shall be 14 gauge

All doors shall be rubber gasketed and have a continuous hinge

Panel cutouts for instruments and other devices such as pilot lights and switches shall be cut, punched and smoothly finished with rounded edges.

Where panels are mounted outside or in unheated areas, provide thermostatically controlled heaters that will maintain their inside temperature above 40°F.

All control panels shall be equipped with suitable surge arresting devices to protect the equipment from damage due to electrical transients.

CONTROL PANEL ELECTRICAL

All electrical work shall be in accordance with the applicable state and local codes and the 2011 Edition of the National Electrical Code.

Power distribution within control panels:

Control panels that have three phase power requirements and contain motor starters in addition to logic controls shall contain a main circuit breaker interlocked with the panel door. Operator controls and indications as specified herein shall be mounted on the front access door. Circuit breakers shall be operable without opening the panel.

Circuit breakers shall meet the requirements of UL and NEMA AB1. All breakers shall have a 25,000-ampere rms symmetrical interrupting rating, minimum, at 480 volt. Main and branch circuit breakers, except motor branch circuit breakers, shall be molded case thermal magnetic. Provide a method for padlocking of motor branch circuit breakers in the OFF position. Motor branch circuit breakers shall be thermal magnetic with adjustable magnetic trip units. Motor branch circuit breaker ratings shall be as recommended by the manufacturer for maximum motor protection. Tripping of breakers shall be indicated by operator handle position. Provide circuit breakers suitable for use with 75°C wire at full NEC 75°C Ampacity.

All motor control shall be 120V ac (except intrinsically safe circuits where applicable). Provide a control power transformer that has sufficient capacity to serve the connected load including 200VA for the duplex outlet plus 100VA (minimum) to limit voltage variation to 15 percent during contractor pickup. Fuse one side of the secondary winding and ground the other side. Provide primary winding fuses in all ungrounded conductors.

Provide a power monitoring relay to protect 3-phase equipment against single phasing, phase unbalance and phase reversal. Provide separate, isolated contact outputs to stop all motors and to activate an alarm light in the event of an abnormal condition. Phase monitoring relay shall have 10,000-volt transient voltage protection and shall be Furnas Class 47, or equal.

Power distribution blocks shall be used to parallel feed line side of branch circuit protective devices. "Leap frogging" of power conductors shall not be acceptable.

Wiring within control panels, consoles, and assemblies shall meet the following requirements:

Wires for ac circuits shall be 600-volt, Type THHN stranded copper and shall be sized for the current to be carried, but not smaller than No. 14 AWG.

Wires for other dc circuits shall be 600-volt, Type THHN stranded copper and shall not be smaller than No. 18 AWG.

All analog and other dc circuits shall be separated at least 6 inches from any ac power and control wiring.

All wiring shall be enclosed in either sheet metal raceways or plastic wiring ducts. Wiring ducts shall be complete with rounded ends, covers and wire protectors.

Wiring shall be numbered and tagged at each termination. Wire tags shall be snap-on or slip-on PVC wire markers with legible machine printed markings and numbers. Adhesive or taped-on tags are not acceptable.

Wiring Interface (wiring entering or leaving each panel, console, rack, or cabinet) shall be terminated and identified as follows:

Analog and discrete signal wiring shall be terminated at numbered terminal blocks.

Wiring for special signals such as communications, digital data, and multiplexed signals may be terminated at manufacturer's standard connectors.

Terminal blocks for panels, consoles, rack and cabinets shall meet the following requirements:

Provide sufficient terminations to accommodate both present and future needs. Wire all spare or unused panel mounted elements to their panels' terminal blocks. Provide 20 percent of all connected terminals as unused spare terminals.

Provide 600-volt screw clamp compression, dead front barrier type terminal blocks with current bar providing direct contact with wire between the compression screw and yoke. Provide yoke, current bar, and clamping screw constructed of high strength and high conductivity metal. Use yoke that guides all strands of wire into the terminal. Use current bar providing vibration-proof connection. Supply terminals that allow connection of wire without any preparation other than stripping. Rail mount individual terminals to create a complete assembly. Provide terminals constructed such that jumpers can be installed with no loss of space on terminal or rail.

No more than two wires may be terminated on any single terminal. Size all terminal block components to allow insertion of all necessary wire sizes and types. Supply terminal blocks with marking system allowing the use of preprinted or field-marked tags. Provide UL listed terminal blocks manufactured by Weidmuller, Ideal, or equal.

Grounding:

Panels, consoles, racks, and cabinets shall be provided with an internal copper grounding bus for all ground connections. Ground VFDs in accordance with NEC Article 250 and with VFD manufacturer's instructions.

Relays:

Control circuit switching shall be accomplished with relays. These relays, for interfacing and control applications, shall be the compact general-purpose plug-in type having low coil inrush and holding current characteristics. Contact arrangements shall be rated for no less than 10 amperes at 120V ac or 28V dc. A status indicating light shall be provided as part of each relay. Non-latching relays shall have single coil. Latching relays shall have two coils, unlatching being accomplished by energizing one coil, and latching being accomplished by energizing the other coil. Relays shall have plain plastic dust covers, test buttons, and mounting sockets with screw terminals, and hold-down springs. Relays shall be UL listed. Relays shall be Potter and Brumfield KUP or KUL Series; Struthers-Dunn Series 219; or equal.

Time delays functions shall be accomplished with time delay relays. Units shall be adjustable time delay relays with the number of contacts and contact arrangements required. Contacts shall be rated for 10 amperes at 120V ac. Integral knob with calibrated scale shall be provided for adjustment of time delay. Time delay range shall be at least 10:1. Operating voltage shall be 120V ac. plus 10 percent, -15 percent at 60-Hz. Operating temperature shall be -20 degrees F to 165 degrees F. Repeat timing accuracy shall be plus or minus 10 percent over the operating range. Units shall be Amerace Corp., Control Products Division, Agastat Series 7000; Cutler-Hammer Series D 87; or equal.

All relays shall have a screw terminal interface with the wiring. Terminals shall have a permanent, legible identification. Relays shall be mounted such that the terminal identifications are clearly visible and the terminals are readily accessible.

Front-of-Panel Devices:

Indicating Lights, Watertight: Units shall be heavy-duty, push to-test type, watertight, industrial type with integral transformer for 120V ac applications. The lights shall be rated for NEMA 4X watertight, corrosion-resistant service. Units shall have screwed on plastic lenses, and shall have factory engraved legend plates for service legend. Units shall be Allen-Bradley Type 800H, or Square D Type SK.

Pushbutton, Momentary and Watertight: Units shall be heavy duty, watertight, industrial type pushbuttons with momentary contacts rated for 120V ac service at 10 amperes continuous. The pushbuttons shall be rated for NEMA 4X watertight, corrosion-resistant service. Units shall have standard size, black field, legend plates with white markings for service legend. Units shall be Allen-Bradley Type 800H, or Square D Type SK.

Selector Switch, Watertight: Units shall be heavy duty, watertight, industrial type selector switches with contacts rated for 120V ac service at 10 amperes continuous. The switches shall be rated for NEMA 4X watertight, corrosion-resistant service. Units shall have standard size, black field, legend plates with white markings, for service legend. Operators shall be black knob type. Units shall have the number of positions and contact arrangements as necessary. Units shall be single hole mounting, accommodating panel thicknesses from 1/16-inch minimum to 1/4-inch maximum. Units shall be Allen-Bradley Type 800H, or Square D Class 9001, Type SK.

Nameplates, Name Tags, and Service Legends:

All components provided with the package system, both field and panel mounted, shall be provided with permanently mounted name tags bearing the entire ISA tag number of the component. Tag numbers shall be inside panels for panel mounted components. Panel mounted tags shall be plastic; field mounted tags shall be stamped 316 stainless steel. Panel face mounted instrument name tags shall be mounted to the instrument behind the panel face.

Service legends (integrally mounted with instrument) and nameplates shall be engraved, rigid, laminated plastic type with adhesive back. Provide sufficient service legends and

nameplates to adequately describe the functions of panel face mounted instruments. Color shall be black with white letters and letter height shall be 3/16 inch.

Each panel shall be provided with a face mounted laminated nameplate as specified above inscribed with the panel name and tag number. Color shall be black with white letters 1/2-inch high.

EXECUTION

INSTALLATION

The Contractor shall be responsible for the installation all of the Packaged Pump Control System components as described in section 33 32 26. Location of system components and interconnections between system components and to other systems shall be in accordance with the drawings and specifications. Installation drawings and specifications shall be prepared using general component locations where shown, and shall be approved by the Engineer prior to installation.

CORROSION PROTECTION

All control panels containing electrical or instrumentation and control devices shall be protected from corrosion through the use of corrosion-inhibiting vapor capsules. The corrosion-inhibiting vapor capsules shall be Hoffman Model A-HC1 or equal.

CLEANING AND TOUCH-UP PAINTING

Upon completion of work, the Contractor shall remove materials, scraps, and debris from premises and from interior and exterior of all devices and equipment. Touch-up scratches, scrapes or chips in interior and exterior surfaces of devices and equipment with finishes matching the type, color and consistency of the original finish.

EQUIPMENT CERTIFICATION

The Packaged Pump Control System supplier shall observe and advise on the installation of the Main Pump Control Panel by the Contractor, and certify in writing that the equipment will perform as required.

INSPECTIONS

All materials, equipment and workmanship shall be subject to inspection at any time by the Engineer or the Owner. Correct any work, materials or equipment not in accordance with these contract documents or found to be deficient or defective by the Engineer at no additional cost to the Owner.

END OF SECTION 33 32 27

QUESTIONS:

1. Sheet A-102 calls for aluminum panels for the roof. Are galvanized steel panels acceptable? No, due to the corrosive nature of the application the County is requiring aluminum.
2. Sheet E-03 refers to Specification sections 33 32 26 and 33 32 27 for information on the main pump control panel (MPCP). Those spec sections are not included in the contract documents. See Addition Section of the Addendum for Spec 33 32 27.
3. Dexter Fortson Associates, Inc. (DFA) requests to be named as an approved Control System Manufacturer as defined in specifications section 40 90 000 (Instrumentation and Control for Process Systems) for the Morgan Falls Waste Water Pump Station Improvements project which bids April 17, 2014. Requests consideration to be prequalified to perform the control systems work within the project specifications? A Vendor is acceptable as long as the minimal requirements in the specifications are met and the Vendor has positive past experience and results with Water Resources. Dexter Fortson is an acceptable vendor. Note that Water Resources does not accept Proprietary Systems. Also, note that recently the existing Scada system was replaced with Mission Control.
4. We would like to propose the following questions / comments regarding the above referenced project. Section 33 32 23 Wastewater Pumps
 - 1) We propose adding a speed limitation of 700 RPM and a MINIMUM solids size of 4". This will not give either manufacturer a advantage but will make sure a smaller, higher speed pump that passes a very small solid is not quoted. There are 6", 1800 RPM pumps that meet the design conditions but only pass a 2.6" diameter solid and given the known "Ragging" problem with this station would protect the county from future problems. The Vendor must meet or exceed the minimal requirements in the Specifications section. Note the pumps and motors must be internally cooled. No External cooling source will be accepted. See specification 33 32 23.
 - 2) Can Danfoss be added as a named supplier for the VFD's? Fulton County has many Danfoss drives and are currently ordering more. A Vendor is acceptable as long as the minimal requirements in the specifications are met and the Vendor has positive past experience and results with Water Resources. Danfoss Fortson is an acceptable vendor as long as the VFD's meet or exceed the minimal requirements of the specifications.

- 3) We recommend having the pump supplier provide the pumps, controls and VFD's. This assigns unit responsibility to a single source eliminating the confusion created with one supplying pumps, another drives and yet another a control panel. This completely eliminates the "Finger Pointing" that almost always occurs at start-up. Water Resources leaves the contractor responsible for selecting suppliers to supply equipment that meet or exceed the minimal requirements of the specifications. The contractor can utilize a single source, but will not be restricted to having a pump supplier supply the pumps, controls and VFD's as a single source.

ACKNOWLEDGEMENT OF ADDENDUM NO. 2

The undersigned proposer acknowledges receipt of this addendum by returning one (1) copy of this form with the proposal package to the Department of Purchasing & Contract Compliance, Fulton County Public Safety Building, 130 Peachtree Street, Suite 1168, Atlanta, Georgia 30303 by the ITB due date and time **April 17, 2014, 11:00 A.M.**

This is to acknowledge receipt of Addendum No. 2, _____ day of _____, 20__.

Legal Name of Bidder

Signature of Authorized Representative

Title