



**PIMA COUNTY PROCUREMENT DEPARTMENT  
DESIGN AND CONSTRUCTION DIVISION**  
130 W. CONGRESS STREET, 3rd FLOOR. ☞ TUCSON, AZ. 85701  
PHONE: (520) 740-3731 FAX: (520) 243-4434

February 23, 2011

**ADDENDUM NO. 2**

PROJECT: Richey Blvd. Fuel Tank Replacement

SOLICITATION NO.: 1101396

TO ALL POTENTIAL BIDDERS:

Please be advised of the following additions, clarifications and/or changes which are hereby incorporated into the Bid Documents of the above referenced solicitation:

1. **CHANGE**, Instructions to Bidders, page 1, BID DUE DATE/TIME as follows:  
**FROM:** "BID DUE DATE/TIME: MARCH 1, 2011, AT OR BEFORE 2:00PM LOCAL TUCSON TIME..."  
**TO:** "BID DUE DATE/TIME: **MARCH 16, 2011**, AT OR BEFORE 2:00PM LOCAL TUCSON TIME..."
2. Addendum #2 by GLHN Architects and Engineers dated February 23, 2011 (10 pages total including Addendum #2, Specification Section 02555, and Specification Section 02764).
3. ADD sections a.-f. below to Exhibit "A" Scope of Work:
  - a. Contractor shall comply with all Arizona Department of Environmental Quality (ADEQ) requirements for permanent closure of the underground storage tanks (UST). Contractor shall be responsible for all notifications, permits, sampling, analytical and report writing costs. The County shall procure and pay for the County building permit.
  - b. Contractor shall submit to COUNTY a copy of Intent to Close letter submitted to ADEQ along with the closure number received by ADEQ.
  - c. Contractor shall conduct site assessment in accordance with ADEQ requirements. All soil samples shall be collected and analyzed in accordance with ADEQ guidelines for permanent UST closure. Contractor shall prepare ADEQ Underground Storage Tank (UST) Permanent Closure Assessment Report Form and submit to COUNTY for review prior to submitting to ADEQ.
  - d. If ADEQ determines sampling was not sufficient, or if ADEQ considers samples exceeded the extraction holding time, additional samples shall be collected at no additional expense to COUNTY.
  - e. Excavated soils shall not be removed from site until soil sample results are received and disposal and/or treatment options are determined.
  - f. Excavated areas shall not be back filled until ADEQ has granted clean closure status for the UST removal.

All other terms remain unchanged. This addendum is a total of 11 pages including this page and full Addendum #2 by GLHN Architects and Engineers.

/s/ Melissa Hala'ufia

Melissa Hala'ufia, CPPB, Commodity/Contracts Officer

**NOTE: Signify receipt of any and all solicitation addenda on the page entitled Exhibit "B" Bid for Lump Sum Construction Contract**



**ADDENDUM NO. 2  
TO CONSTRUCTION SPECIFICATIONS**

Pima County Facilities Management  
150 West Congress, 5<sup>th</sup> Floor  
Tucson, Arizona 85701

RE: Richey Blvd. Fuel Tank Replacement  
Pima County P.O. No. 11002135

Dated: February 23, 2011

To All Bidders:

This addendum supplements and amends the original Specifications, dated December 17, 2010 and shall be taken into account in preparing proposals, and shall become part of the Contract Documents. In case of conflicts between the Specifications and this Addendum, the Addendum shall govern. Careful note of this Addendum shall be taken and all trades affected shall be fully advised for performance of the work. Acknowledge receipt of the Addendum in the space provided on the bid form. Failure to do so may subject bidder to disqualification.

**SPECIFICATIONS:**

1. Section 02555 "Fuel Tank Monitoring System."
2. Section 02764 "Pavement Joint Sealants."



**DRAWINGS:**

1. **T001 - *Specifications:*** Include in list
  - a. Section 02751 – CEMENT CONCRETE PAVEMENT.
  - b. Section 02764 – PAVEMENT JOINT SEALANTS.
  - c. Section 16075 – ELECTRICAL IDENTIFICATION.
  
2. **MD101**
  - a. Revise Keynote #10 to read: “REMOVE EXISTING GASBOY CONTROL PANEL, SALVAGE BACK TO OWNER.”
  - b. Revise Keynote #11 to read: “REMOVE EXISTING VEEDER-ROOT CONTROL PANEL, SALVAGE BACK TO OWNER.”
  
3. **MP101**
  - a. Revise Keynote #9 to read: “PROVIDE NEW FE PETRO LEVEL/LEAK MONITOR AND PUMP STARTER ENCLOSURE, MOUNT ON WALL AT 54" AFF, COORDINATE WITH ELECTRICAL TRADE.
  - b. Add Keynote #15 adjacent to keynote #9, note to read: “PROVIDE NEW VEEDER-ROOT CONTROL PANEL, MOUNT ON WALL AT 54" AFF, COORDINATE WITH ELECTRICAL TRADE.”
  
4. **EP101**
  - a. ***Revise Keynote #8 to read:*** “NEW VEEDER-ROOT LEAK DETECTION SYSTEM AND REQUIRED CABLES AND CONNECTIONS IN 3/4" CONDUIT TO NEW FUEL TANK, CONNECT TO NEW PANEL ‘GP’. VERIFY LOCATION AND CONNECTIONS WITH VENDOR, REFER TO DIAGRAM 3 SHEET ‘EP501’.”
  - b. Clarification - Keynote #18: Referenced FE Petro Level/Leak monitor and pump starter enclosure to be located on wall in existing control room.
  
5. **EP501**
  - a. Clarification: Referenced Level/Leak monitor and pump starter cabinet to be located in existing control room.

**END OF ADDENDUM NO. TWO**

## SECTION 02555 – FUEL TANK MONITORING SYSTEM

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including Specification 02554.

#### 1.2 SUMMARY

- A. This Specification governs the manufacture and supply of Fuel Tank Monitoring System.

#### 1.3 WORK NOT EXCLUDED

- A. Field installation labor.
- B. Electrical wiring required for field interconnection of system components, unless specified in the equipment description or when furnished as an integral part of the system.

#### 1.4 SUBMITTALS

- A. Product Data: Include monitoring system capabilities and capacities. Include shipping, installation requirements, specialties and accessories. Include product data for sensors and probes.

#### 1.5 QUALITY ASSURANCE

- A. System installation shall comply with governing authorities' requirements and applicable building codes.

#### 1.6 DELIVERY STORAGE AND HANDLING

- A. All equipment shall be adequately crated or protected to prevent damage in handling, transit, and storage at jobsite.

## PART 2 - PRODUCT

### 2.1 FUEL TANK MONITORING SYSTEM

A. The design, materials, and construction shall be in accordance with the Vendor's standard practice or recommendation for the intended service.

B. Operating and Design Features.

1. Automatic Tank-To-Meter Mapping.
2. 0.1 GPH In-Tank Leak Detection.
3. Electronic Line Leak Detection Capabilities.
4. Inventory Monitoring and Reporting.
5. Interstitial/Sump Leak Sensing Capabilities.
6. Vapor Well Monitoring Capabilities.
7. Groundwater Monitoring Capability.
8. Input/Output Capability.
9. Sump and Dispenser Monitoring Capabilities.
10. RS-232 Data Communications.
11. Ethernet/IP Communications.
12. Internal Auto-Dial Fax/Modem Communications.
13. Audible and Visual Alarm Capabilities.
14. Monitors up to 12 Tanks.
15. Maximum Tank Capacity: 15,000 Gallons; 37,000 Gallons with Continuous Statistical Leak Detection.

C. Manufacturer

1. The system shall be a Veeder-Root Model TLS-350R.
  - a. Console Form Number: 848290-122, with integral printer.
  - b. Console Form Number: 330532-001, memory expansion module. (optional)
2. Available Accessories:
  - a. Form Number: 329356-002, four input probe, qty. 1.
  - b. Form Number: 329358-001, eight input liquid, qty. 1.
  - c. Form Number: 329357-001, five input vapor, qty. 1.
  - d. Form Number: 329399-001, five input groundwater, qty. 1.
  - e. Form Number: 329956-001, eight input Type A, qty. 1.
  - f. Form Number: 329950-001, six input Type B, qty. 1.
  - g. Form Number: 330843-001, six input pressurized leak, qty. 1.
  - h. Form Number: 329359-001, four relay output, qty. 1.
  - i. Form Number: 329360-001, two input/two relay output, qty. 1.
  - j. Form Number: 329999-001, Pump sense interface, qty. 1.
  - k. Form Number: 330374-001, three output pressurized leak, qty. 1.
  - l. Form Number: 330149-002, Fax interface module, qty. 1.

- m. Form Number: 330586-001, RS-485/232 dual port, qty. 1.
  - n. Form Number: 330148-001, RS-232 interface/Aux. port, qty. 1.
  - o. Form Number: 329362-001, RS-232 interface, qty. 1.
  - p. Form Number: 330883-001, WPLLD communications, qty. 1.
  - q. Form Number: 330020-425, Ethernet-TCP/IP module, qty. 1.
- 3. Vendor shall provide a list of recommended accessories and spare parts indicating the description, quantity, manufacturer, part number, and price of each.
  - 4. Any special tools required for assembly, installation, maintenance, repair, servicing, inspecting, and operation shall be furnished by the manufacturer.

### PART 3 - EXECUTION

#### 3.1 INSTALLATION

- A. Install monitoring system per manufacturer's instructions.
- B. Re-establish the existing telephone modem connection to the existing Pima County TRAK Engineering, Inc. remote fuel inventory and monitoring system.

#### 3.2 SUPPORT

- A. An authorized factory representative shall be available on-site for start up assistance. The on-site shall not be limited to a single trip to the site. The factory representative shall provide the level of assistance required to assure a complete and functional installation.

#### 3.3 TRAINING

- A. The factory representative shall provide training for Pima County personnel. Allow for a reasonable training time, two to four hours, or longer if deemed necessary by the factory representative.

END OF SECTION 02555

## SECTION 02764 - PAVEMENT JOINT SEALANTS

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

#### 1.2 SUMMARY

- A. Section Includes:

- 1. Cold-applied joint sealants.
- 2. Hot-applied joint sealants.

- B. Related Sections:

- 1. Section 02751 "Cement Concrete Pavement" for constructing joints in concrete pavement.

#### 1.3 PRECONSTRUCTION TESTING

- A. Preconstruction Compatibility and Adhesion Testing: Submit to joint-sealant manufacturers, for testing indicated below, Samples of materials that will contact or affect joint sealants.

- 1. Use manufacturer's standard test method to determine whether priming and other specific joint-preparation techniques are required to obtain rapid, optimum adhesion of joint sealants to joint substrates.
- 2. Submit no fewer than eight pieces of each type of material, including joint substrates, shims, joint-sealant backings, secondary seals, and miscellaneous materials.
- 3. Schedule sufficient time for testing and analyzing results to prevent delaying the Work.
- 4. For materials failing tests, obtain joint-sealant manufacturer's written instructions for corrective measures including use of specially formulated primers.
- 5. Testing will not be required if joint-sealant manufacturers submit joint-preparation data that are based on previous testing, not older than 24 months, of sealant products for compatibility with and adhesion to joint substrates and other materials matching those submitted.

#### 1.4 ACTION SUBMITTALS

- A. Product Data: For each joint-sealant product indicated.
- B. Pavement-Joint-Sealant Schedule: Include the following information:

1. Joint-sealant application, joint location, and designation.
2. Joint-sealant manufacturer and product name.
3. Joint-sealant formulation.
4. Joint-sealant color.

#### 1.5 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For qualified Installer.
- B. Product Certificates: For each type of joint sealant and accessory, from manufacturer.
- C. Product Test Reports: Based on evaluation of comprehensive tests performed by a qualified testing agency, for joint sealants.
- D. Preconstruction Compatibility and Adhesion Test Reports: From joint-sealant manufacturer, indicating the following:
  1. Materials forming joint substrates and joint-sealant backings have been tested for compatibility with and adhesion to joint sealants.
  2. Interpretation of test results and written recommendations for primers and substrate preparation needed for adhesion.

#### 1.6 QUALITY ASSURANCE

- A. Installer Qualifications: Manufacturer's authorized representative who is trained and approved for installation of units required for this Project.
- B. Source Limitations: Obtain each type of joint sealant from single source from single manufacturer.
- C. Product Testing: Test joint sealants using a qualified testing agency.
  1. Testing Agency Qualifications: An independent testing agency qualified according to ASTM C 1021 to conduct the testing indicated.

#### 1.7 PROJECT CONDITIONS

- A. Do not proceed with installation of joint sealants under the following conditions:
  1. When ambient and substrate temperature conditions are outside limits permitted by joint-sealant manufacturer.
  2. When joint substrates are wet.
  3. Where joint widths are less than those allowed by joint-sealant manufacturer for applications indicated.
  4. Where contaminants capable of interfering with adhesion have not yet been removed from joint substrates.

## PART 2 - PRODUCTS

### 2.1 MATERIALS

- A. Compatibility: Provide joint sealants, backing materials, and other related materials that are compatible with one another and with joint substrates under conditions of service and application, as demonstrated by joint-sealant manufacturer based on testing and field experience.

### 2.2 COLD-APPLIED JOINT SEALANTS

- A. Single-Component, Nonsag, Silicone Joint Sealant for Concrete: ASTM D 5893, Type NS.
  - 1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
    - a. Crafco Inc., an ERGON company; RoadSaver Silicone.
    - b. Dow Corning Corporation; 888.
    - c. Pecora Corporation; 301 NS.

### 2.3 HOT-APPLIED JOINT SEALANTS

- A. Hot-Applied, Single-Component Joint Sealant for Concrete and Asphalt: ASTM D 6690, Types I, II, and III.
  - 1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
    - a. Meadows, W. R., Inc.; Sealtight 3405.
    - b. Right Pointe; D-3405 Hot Applied Sealant.

### 2.4 JOINT-SEALANT BACKER MATERIALS

- A. General: Provide joint-sealant backer materials that are nonstaining; are compatible with joint substrates, sealants, primers, and other joint fillers; and are approved for applications indicated by joint-sealant manufacturer based on field experience and laboratory testing.
- B. Round Backer Rods for Cold- and Hot-Applied Joint Sealants: ASTM D 5249, Type 1, of diameter and density required to control sealant depth and prevent bottom-side adhesion of sealant.
- C. Round Backer Rods for Cold-Applied Joint Sealants: ASTM D 5249, Type 3, of diameter and density required to control joint-sealant depth and prevent bottom-side adhesion of sealant.
- D. Backer Strips for Cold- and Hot-Applied Joint Sealants: ASTM D 5249; Type 2; of thickness and width required to control joint-sealant depth, prevent bottom-side adhesion of sealant, and fill remainder of joint opening under sealant.

### PART 3 - EXECUTION

#### 3.1 EXAMINATION

- A. Examine joints indicated to receive joint sealants, with Installer present, for compliance with requirements for joint configuration, installation tolerances, and other conditions affecting joint-sealant performance.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

#### 3.2 PREPARATION

- A. Surface Cleaning of Joints: Clean out joints immediately before installing joint sealants to comply with joint-sealant manufacturer's written instructions.

#### 3.3 INSTALLATION OF JOINT SEALANTS

- A. General: Comply with joint-sealant manufacturer's written installation instructions for products and applications indicated unless more stringent requirements apply.
- B. Joint-Sealant Installation Standard: Comply with recommendations in ASTM C 1193 for use of joint sealants as applicable to materials, applications, and conditions indicated.
- C. Install joint-sealant backings of kind indicated to support joint sealants during application and at position required to produce cross-sectional shapes and depths of installed sealants relative to joint widths that allow optimum sealant movement capability.
  - 1. Do not leave gaps between ends of joint-sealant backings.
  - 2. Do not stretch, twist, puncture, or tear joint-sealant backings.
  - 3. Remove absorbent joint-sealant backings that have become wet before sealant application and replace them with dry materials.
- D. Install joint sealants using proven techniques that comply with the following and at the same time backings are installed:
  - 1. Place joint sealants so they directly contact and fully wet joint substrates.
  - 2. Completely fill recesses in each joint configuration.
  - 3. Produce uniform, cross-sectional shapes and depths relative to joint widths that allow optimum sealant movement capability.
- E. Tooling of Nonsag Joint Sealants: Immediately after joint-sealant application and before skinning or curing begins, tool sealants according to the following requirements to form smooth, uniform beads of configuration indicated; to eliminate air pockets; and to ensure contact and adhesion of sealant with sides of joint:
  - 1. Remove excess joint sealant from surfaces adjacent to joints.

2. Use tooling agents that are approved in writing by joint-sealant manufacturer and that do not discolor sealants or adjacent surfaces.

- F. Provide joint configuration to comply with joint-sealant manufacturer's written instructions unless otherwise indicated.

### 3.4 CLEANING

- A. Clean off excess joint sealant or sealant smears adjacent to joints as the Work progresses, by methods and with cleaning materials approved in writing by manufacturers of joint sealants and of products in which joints occur.

### 3.5 PROTECTION

- A. Protect joint sealants, during and after curing period, from contact with contaminating substances and from damage resulting from construction operations or other causes so sealants are without deterioration or damage at time of Substantial Completion. If, despite such protection, damage or deterioration occurs, cut out and remove damaged or deteriorated joint sealants immediately and replace with joint sealant so installations in repaired areas are indistinguishable from the original work.

### 3.6 PAVEMENT-JOINT-SEALANT SCHEDULE

- A. Joint-Sealant Application: Joints within cement concrete pavement.

1. Joint Location:

- a. Expansion and isolation joints in cast-in-place concrete pavement.
- b. Contraction joints in cast-in-place concrete slabs.
- c. Other joints as indicated.

2. Silicone Joint Sealant for Concrete: Single component, nonsag.

3. Hot-Applied Joint Sealant for Concrete: Single component.

- B. Joint-Sealant Application: Joints between cement concrete and asphalt pavement.

1. Joint Location:

- a. Joints between concrete and asphalt pavement.
- b. Other joints as indicated.

2. Hot-Applied Joint Sealant for Concrete and Asphalt: Single component.

END OF SECTION 02764