SAN LUIS OBISPO COUNTY
DEPARTMENT OF PUBLIC WORKS
Paavo Ogren, Director

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May 27, 2011

FAX AND EMAIL &
ATTACH TO CONTRACT

ADDENDUM NO. 2 TO
SALINAS DAM BOOSTER PUMP STATION UPGRADE PROJECT
SANTA MARGARITA, CA
CONTRACT NO. 535R155711

The final day, time and location for submittal of bid proposal remain unchanged:
Date / Time: Thursday, June 2, 2011 at 3:00 p.m.

At: Office of the County Clerk
1055 Monterey Street, Room D-120
San Luis Obispo, California 93408

Certain revisions are hereby incorporated into the Contract Documents for the subject project. These revisions are as follows:

The section titled "Bid Proposal and Forms" is hereby amended as follows:

1) The "Bidders Information List" (page FC-11) shall be replaced in its entirety with the attached "Bidders Information List" form.

2) The "Designation of Subcontractors" form (page FC-12) shall be replaced in its entirety with the attached "Designation of Subcontractors" form.

The section titled "Special Provisions" is hereby amended as follows:

1) Section 10-1.01 "Order of Work", insert the following paragraph before the last paragraph of the section on page 10-2:

"For the purposes of bidding, bidders shall assume that one continuous, non-interrupted 56 calendar period will be provided to the Contractor to perform cutover work. Bidders shall assume that the District will not direct the Contractor to place the Salinas Dam Booster Pump Station and/or Water Distribution System in service prior to the end of the 56 calendar day period specified in the contract."

2) Section 10-2, "Technical Specifications", Subsection 15010, "Steel Pipe and Fittings", Paragraph 1.3.A.2 (page 15010-2); replace the first sentence of the paragraph with the following sentences:

"Pipe cylinders, lining, coating and fabrication of specials shall be supplied by one manufacturer that has no less than 5 years successful experience manufacturing pipe of the particular type and size indicated. Pipe manufacturer may opt to not self-perform lining and coating activities; however, pipe manufacturer shall be fully responsible for the quality of the final product."

3) Section 10-2, "Technical Specifications", Subsection 15010, "Steel Pipe and Fittings", Paragraph 2.1.E.3.b (page 15010-7); replace the paragraph with the following:

"Gaskets shall be non-asbestos. Gaskets shall be Garlock 3000, John Crane 2160, or approved equal."

4) Section 10-2, "Technical Specifications", Subsection 15015, "Cured in Place Pipe Liner", Part 1 (page 15015-3); add the following to the end of Part 1:

"1.7. Pressure and Flow Requirements

For the 24-inch suction pipe, the cured in place pipe liner shall be able to handle normal flows and pressures experienced by the 24-inch suction pipe. Pressures in the 24-inch suction pipe range from 0 to 15 psi. Flows through the suction pipe range from 0 to 6,500 gpm."

5) Section 10-2, "Technical Specifications", Subsection 15115, "Check Valves", Paragraph 2.1 (page 15115-2); add the following to the end of the paragraph:

"I. The shaft shall be single and continuous stainless steel, extending both sides of the body with a lever and weight, using an air cushion cylinder side mounted. The air cushion cylinder shall be constructed of corrosion-resistant material and the piston shall be totally enclosed within the cylinder and not open at one end. The cushion cylinder assembly shall be externally attached to the right side of the valve body looking downstream and be adjustable to cushion closure of the valve. Cushioning shall be by air trapped in the cushion cylinder which shall be fitted with a one way adjustable control check valve to cushion disc contact to the seat at the shut-off point. The bottom cylinder head shall be swivel mounted and not rigid to follow the change of angular force as the lever rises or lowers to open or close the check valve.

6) Section 10-2, "Technical Specifications", Subsection 17650, "Radio System" (pages 17650-1 through 17650-3); replace the entire subsection with the attached Subsection 17650, "Radio Communications Hardware".

All bidders shall acknowledge acceptance of this correction notice. **PLEASE FAX TO US, TODAY, A SIGNED COPY OF THIS SHEET INDICATING CONFIRMATION OF RECEIPT OF THIS ADDENDUM (FAX (805) 781-1229).** If you are unable to read the fax, please call Jeff Werst in the Public Works Department at (805) 781-5252.

PAAVO OGREN
Director of Public Works

File: Contract No. 535R155711

ACKNOWLEDGMENT

Company Name	Printed Name	Signature	Date

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BIDDERS INFORMATION LIST

All bidders/proposers are required to provide the following information for all DBE and non-DBE contractors, who provided a proposal, bid, quote, or were contacted by the proposed prime contractor. This information is required from the proposed prime contractor and shall be submitted with their bid proposal. The Department of Public Works will use this information to maintain and update a "Bidder's List" to assist in the overall annual Disadvantaged Business Enterprise (DBE) availability goal setting process required for Federal-aid projects. This information is also being made available to other local agencies for the same purpose. *To the extent permitted by law, all information submitted will be held in strict confidence and will not be shared without your consent except as noted above.*

Contractor: ☐ Prime Contractor ☐ Subcontractor ☐ Supplier ☐ Other: _____

Firm Name: _____ Phone: _____

Business Address: _____ Fax: _____

_____

License No.
and Classification _____ Years in Business: _____

Contact Person: _____

Is the firm currently certified as a DBE by Caltrans? ☐ No ☐ Yes Cert. Number: _____

Gross Annual Receipts for last year:
☐ less than $1 million ☐ less than $5 million ☐ less than $10 million
☐ less than $15 million ☐ more than $15 million

Type of work/ services/ materials provided for this job:
☐ Contractor ☐ Supplier ☐ Manufacturer ☐Trucking ☐ Broker
☐ Other (describe): _____

Contractor Specialty for this job:
☐ Roadway Construction (including signing, paving, and concrete) (237310)
☐ Roadway Painting/Striping (237310)
☐ Highway Lighting & Signal Installation (238210)
☐ Bridge Construction (237310)
☐ Tunnel Construction (237990)
☐ Water, Sewer, & Pipeline Construction (237110)
☐ Power & Communication Transmission Line (including conduit construction) (237130)
☐ Landscaping (561730)
☐ Irrigation (237110)
☐ Other Heavy Construction (including parks, reclamation, reservoir, water & sewer treatment facilities) (237990)
☐ Masonry (including retaining walls and foundations) (238140)
☐ Concrete Retaining Walls (238110)
☐ Building Construction (236210/236220)
☐ Other (describe): _____

- Copy sheet as needed
- None of the information requested on this form is material to the County's determination of which Bidder's Bid is the lowest responsive bid.

RETURN THIS FORM WITH YOUR BID PROPOSAL

DESIGNATION OF SUBCONTRACTORS

In compliance with the provisions of Sections 4100-4113 of the Public Contract Code of the State of California, and any amendments thereto, the undersigned bidder sets forth the following:

a. The name and location of the place of business of each subcontractor who will perform work or labor, or render service to the undersigned Prime Contractor in or about the construction of the work or improvement, or a subcontractor licensed by the State of California who, under subcontract to the Prime Contractor, specially fabricates and installs a portion of the work or improvement according to detailed drawings contained in the plans and specifications, in an amount in excess of one-half of one percent of the undersigned Prime Contractor's total bid or in the case of bids for the construction of streets and highways, including bridges, in excess of one-half of one percent or ten thousand dollars ($10,000), whichever is greater.*

b. The portion of the work which will be done by each such subcontractor. Only one subcontractor shall be listed for each such portion.

Bid Schedule Item No.	Description of Portion of Work (if applicable)	Subcontractor	License No.	Address	Approximate Dollar Value

By:_____
(Bidder's Signature/Printed Name and Title/Company Name)

*NOTE: When there is a failure to list a subcontractor, as required, the law provides that the Contractor agrees to do the work with his or her own forces. In such case, bidder must be authorized to perform said work. Any bid not complying with the provisions hereof may be rejected.

RETURN THIS FORM WITH YOUR BID PROPOSAL

SECTION 17650

RADIO COMMUNICATIONS HARDWARE

PART 1 - GENERAL

1.1 SCOPE

A. These specifications are for the radio system providing communications for control and status between Santa Margarita Dam and the Salinas Pump Station. The system shall include all hardware, software, cable and associated devices required to meet the functional requirements of the application. There will be serial data interfaces at Santa Margarita Dam and Salinas Pump Station with the SCADA System PLC's. The serial interface shall be MODBUS. There are two radio repeater sites: One located at Black Mountain the other at Tassajara Peak. The system shall be UHF 450 MHz licensed radios.

B. The District will provide FCC license with appropriate input and coordination with the contractor. The installation of the radios and antennas, test and acceptance testing of this system shall be provided by a Certified FCC Communications firm approved by the County of San Luis Obispo. The system shall be installed as shown on the project plans.

C. RELATED SECTIONS
   1. Section 16050 through 16962 - Electrical
   2. Section 17000, 1.3 Instrumentation and Controls

1.2 PROJECT SUBMITTALS

A. Provide submittals per Section 17000.1.4.

B. Catalog Data: Submit catalog literature and data sheets for the equipment specified. Include complete manufacturer's part and model numbers.

C. Submit shop drawings showing physical backpan layout of equipment in Radio and/or Control Panel.

D. Submit communications block diagram showing complete system.

E. Detailed Bill of Materials.

1.3 OPERATION AND MAINTENANCE DATA

A. Submit hardware Operations and Maintenance Manual per Section 17000.1.4.

B. Submit original Operations and Maintenance Manuals for Radio hardware, no copies.

1.4 CONTRACT CLOSEOUT SUBMITTALS

A. Provide manufacturer's warranty certificates for items supplied.

B. Submit original manufacturer's operations and maintenance manuals, no copies.

PART 2 - PRODUCTS

2.1 GENERAL

A. RADIO
1. The radio system shall be licensed 450 MHz radio for continuous communications via Ethernet or serial ports.
2. The radio shall operate on nominal 12 VDC voltage as shown in contract drawings. The radio shall operate in the 400-512 MHz Frequency Band. RF Data rate and bw: 4800 bps @6.25 kHz, 9600 bps @12.5 kHz: 1 x 10-6 @-112 dBm typical. Operational Temperature Range -40 C to +70C. Sleep mode current drain 9mA nominal. The radio shall be MDS SD4 or pre-approved equal. Approval must be requested in writing a minimum of 14 days prior to the bid.
3. The radio package at both repeater locations shall be a 19 inch rack mount configuration MDS 4790, full duplex cavity filters, and battery backup. The repeater systems at Black Mountain and Tassajara shall be installed in a location approved by the County of San Luis Obispo in the field.

B. ANTENNA
1. Each antenna system shall be furnished and installed complete and functional for the intended use. An antenna system shall include but not be limited to, antenna, antenna pole, mounting hardware, lightning arrestor, and coaxial cables with connectors for Santa Margarita Dam and Salinas Pump Station. The antennas at the two repeater locations shall be mounted on existing radio towers as approved by the County of San Luis Obispo.
2. Antenna system shall be meet the following specifications:
    a. Antenna shall be installed and supported as shown on the Contract Plans. Support members shall have sufficient strength to withstand

local wind conditions and shall be protected from weather damage. The nominal wind loading for this system will be 100 MPH minimum.

b. Support hardware such as clamps, orientation mounts, and offset brackets shall be steel protected with a hot dip galvanized finish or stainless steel. Clamps and mounts shall be heavy duty in order to transfer the full antenna load to the support tower or mast. Bolts and screws shall be stainless steel.

c. The radio antennas at all sites shall be Yagi, Sinclair model SY307-SF3SNM or approved equal, 450-470 MHz, 10 dB gain, with permanently attached pigtail and N male connector. Antennas shall use vertical polarization.

C. TRANSMISSION CABLE

1. Cable runs shall provide 50 Ohm, weatherproof coaxial cable from lightning arrestor to antenna. The coax cable shall have a corrugated outer conductor of copper, copper-clad aluminum inner conductor with foam dielectric. The coax cable shall be jacketed for corrosive environment and ultra-violet exposure. The coax cable shall be capable of a minimum bending radius of 5 inches. The cable shall be installed as one continuous length from the antenna to the lightning arrestor. Antenna cable shall be Andrew LDF5-50A 7/8" hardline coax cable or approved equal.
2. Cable end “N” connectors shall be furnished for field installation after the cable is run in the conduit. Hardline cable will require “N” female connector at antenna side of cable run. Provide straight or right angle connectors as required for the installation as shown on the plans.
3. Provide low loss connection cable for connecting the Radio coax to the lightning arrestor. Pigtail shall have compatible connectors for the radio and lighting arrestor. Furnish a lightning arrestor with “N” connector on the antenna coaxial transmission line. The lightning arrestor shall be grounded to the control panel ground buss by a #8 AWG or larger bonding wire. The lightning arrestor shall be a PolyPhaser DSXL or equal with flange mount.
4. The cable shall be carefully installed to prevent damage to the jacket and routed with a minimum bending radius of 8 inches where required at the conduit to free air transition.
5. Provide connector weather proofing kits for outdoor exposed connectors and grounding strap attachments. All mating connectors that are exposed to weather shall be wrapped with a sealing material designed to protect against water and dirt entry into the connectors.
6. Provide miscellaneous hardware such as grounding kits, hanger kits, and feed through assemblies. Grounding kits shall ground the coaxial shield within one foot of the cable connector at the antenna. Provide Andrew Sure - Ground or equal.

END OF SECTION 17650