

**Contract Documents and
Specifications for AWOS
Replacement Installation
Project**

**For
Mustang Beach Airport
Port Aransas, Texas**

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Mustang Beach Airport

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NOTICE TO BIDDERS
Automated Weather Observation System

Sealed bids for the siting, licensing and installation of an Automated Weather Observation System III P/T (AWOS III PT) to replace an existing AWOS III P/T need to be addressed and delivered to Debbie Hall, 710 W. Avenue A, Port Aransas, TX 78373. Bids will be accepted until November 18th 2011, at 3:00 P.M. then publicly opened and read. Any bid proposal received after closing time will be returned unopened.

In general, the Aviation Construction work consists of: replace an existing Automated Weather Observation Systems III P/T. The system shall be installed in accordance with and as approved in Federal Aviation Administration Advisory Circular 150/5220-16(c), latest version and FAA Order 6560-20B, or latest version

Bidding documents may be examined at: City Hall, 710 W. Avenue A, Port Aransas, TX 78373, or www.cityofportaransas.org.

Technical questions concerning the specifications should be directed to Randy Hansen at 361-749-4008.

Minimum wage rates have been predetermined as required by law and are set forth in the specifications.

Cashier's check, money order, or teller's check drawn by or on a state or national bank, a savings and loan association, or a state or federally chartered credit union (collectively referred to as "bank") in the amount of two percent (2%) of the total bid price stated in the bid proposal, made payable without recourse to the Owner or a bid bond in the same amount from a reliable corporate surety authorized to do business in the State of Texas and acceptable to the Owner, must accompany each bid proposal as a guarantee that the bidder, if successful, will enter into a contract, and make bond in accordance with the requirements of the specifications. The Owner reserves the right to retain any check, bank money order or bank draft as liquidated damages in the event the bidder withdraws its bid after the bid proposals are opened and before official rejection of the bid by the Owner, or, if successful in securing the award of the contract, the successful bidder fails to enter into the contract and fails to furnish satisfactory performance and payment bonds.

The successful bidder will be required to furnish a Performance Bond and Payment Bond, each in the full amount of the contract price, executed by a surety company or surety companies authorized to execute surety bonds under and in accordance with the laws of the State of Texas.

The proposed contract is subject to the Vernon Texas Civil Statues, Article 601.b concerning the participation of Historically Underutilized Business. HUB goal is set at 0%.

The Owner reserves the right to reject any irregular bid proposal and the right to waive technicalities if such waiver is in the best interest of the Owner and conforms to State and local laws and ordinances pertaining to the letting of construction contracts.

The Owner hereby notifies all bidders that it will affirmatively assure that minority enterprises are afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on grounds of race, color, or national origin in consideration for an award.

BIDDER QUALIFICATIONS

I. QUALIFICATIONS

- A. Each Bidder shall furnish the Owner satisfactory evidence of the Bidder's competency to perform the proposed work. Such evidence of competency shall consist of statements covering the Bidder's past experience on similar work, a list of equipment that would be available for the work, and a list of key personnel that would be available.
- B. In addition, each Bidder shall furnish the Owner satisfactory evidence of the Bidder's financial responsibility. Such evidence shall consist of a confidential statement or report of the Bidder's financial resources and liabilities as of the last calendar year or the Bidder's last fiscal year. Such as statements or reports shall be prepared by a public accountant. At the time of submitting such financial statements or reports, the Bidder shall further certify whether the Bidder's financial responsibility is approximately the same as stated or reported by the public accountant. If the Bidder's financial responsibility has changed, the Bidder shall qualify the public accountant's statement or report to reflect the Bidder's true financial condition at the time such qualified statement or report is submitted to the Owner.
- C. If a Bidder is prequalified with the Texas Department of Transportation (TxDOT) and is on the TxDOT Construction Division's current "bidders list", the bidders must acknowledge and sign the type of pre-qualification on the bid proposal form. Bidders understand their limitations of prequalification both financially and for approved work experience related to airport development projects.
- D. The Bidder shall provide a listing of both automobile and personal liability insurance coverage currently in force, along with a copy of a Certificate of Insurance as verification of that coverage.

II. SUBMISSION OF QUALIFICATIONS

- A. Each bidder shall submit the Bidder's "evidence of competency", "evidence of financial responsibility", and "evidence of insurance coverage" for "worker's compensation, commercial general liability and Texas business automobile" to the Owner at the date, time and location specified for opening bids. These items shall be submitted in the envelope with your bid proposal marked with project number, location of airport, and name and business address of the bidder.
- B. Bids that do not include the qualification requirements listed above will be considered non-responsive and therefore disqualified.
- C. BID PROPOSALS SUBMITTED WITHOUT ACKNOWLEDGEMENT OR SUBMISSION OF ALL QUALIFICATIONS WILL NOT BE READ.

INSTRUCTIONS TO BIDDERS

IB-1. **The Bidder shall reference the Aviation Division General Construction Contract Provisions, volume dated June, 2005, for all general contract provisions.** General Construction Contract Provisions may be obtained at TxDOT, Aviation Division, 150 E. Riverside Drive, South Tower, Fifth Floor, Austin, Texas 78704; Use latest version of referenced Advisory Circulars.

IB-2. The Bidder shall refer to Section 20, PROPOSAL REQUIREMENTS AND CONDITIONS of the GENERAL PROVISIONS.

IB-3. The Bidder shall refer to: BIDDER QUALIFICATIONS of the PRE-BID INFORMATION section; Section 20-02, PREQUALIFICATION OF BIDDERS of the GENERAL PROVISIONS.

IB-4. The Bidder shall submit the completed bid proposal either on the form furnished by the Owner or by submitting an electronically printed version. All blank spaces in the bid proposal form must be correctly filled in where indicated for each and every item for which a quantity is given. The Bidder shall state the price (written in ink) **BOTH** in words and numerals for each pay item furnished in the bid proposal. In case of conflict between words and numerals, the words, unless obviously incorrect, shall govern.

The Bidder may also submit an electronically **printed** proposal. The proposal must have pay items in the same order and with the exact information as found on the bid proposal form. The Bidder is responsible for incorrect information and will be considered non-responsive if pay items are changed in wording or order on the electronically printed form. Electronically printed bid proposal may not be submitted electronically.

The Bidder shall sign the bid proposal in ink. If the bid proposal is made by an individual, the individual's name and address must be shown. If made by a partnership, the name and address of each member of the partnership must be shown. If made by a corporation, the person signing the bid proposal shall give the name of the state under the laws of which the corporation was chartered and the name, titles, and business address of the president, secretary, and the treasurer.

IB-5. The Bidder shall submit completed copies of all items identified under "Bidder Qualifications". **Bids received without Bidder Qualifications will not be read.**

IB-6. Receipt of all addenda issued shall be acknowledged by the Bidder in the space provided on the bid proposal form.

IB-7. Proposals may be rejected if they show any alteration of words or figures, additions not called for, conditional or uncalled for alternate bids, incomplete bids, any alteration of words or figures or erasures not initialed by the person or persons signing the proposal, or irregularities of any kind.

IB-8. The proposal shall be accompanied by a Bid Guarantee of the character and in the amount as indicated in the proposal.

IB-9. Any questions arising during the advertising period as to meaning or intent of the specifications will be answered by an addendum prepared by the Owner. Contractor will be responsible for obtaining addenda for each interested project at the following website: www.cityofportaransas.org. All addenda issued shall become a part of the contract documents.

Bidders are responsible for checking this website regularly for any changes to the bid documents, such as Addendums.

IB-10. In order to meet the HUB goals, the Texas Department of Transportation (TxDOT) shall accept as Disadvantaged Business Enterprises (DBEs) only those firms **currently** certified as such by TxDOT as Historically Underutilized Business (HUBs) and any HUB firms that have been certified by the Texas Building and Procurement Commission. (IF APPLICABLE).

IB-11. Each proposal submitted shall be placed in a sealed envelope plainly marked with the project number, location of airport, and name and business address of the Bidder on the outside. When sent by mail, preferably registered, the sealed proposal, marked as indicated above, should be enclosed in an additional envelope. Proposals, which are transmitted by telephone, by telegraph or by electronic means, will not be accepted.

IB-12. No proposal will be considered unless received at the place specified in the advertisement before the time specified for opening all bids. Proposals received after the bid opening time shall be returned to the Bidder unopened.

IB-13. Proposals will be opened and read publicly at the time and place indicated in the Notice to Bidders.

BID PROPOSAL

Project Description: Replace the Automated Weather Observation System at the Mustang Beach Airport.

Proposal by: Name of Bidder _____
 Address _____
 Telephone _____ Fax _____
 E-mail Address _____

Pursuant to the foregoing Instruction to Bidders, the undersigned bidder having examined the plans and specifications with related documents and the site of the proposed work, and being familiar with all the conditions surrounding the construction of the project hereby proposes to furnish all necessary superintendence, labor, machinery, equipment, tools materials and supplies to complete all the work upon which is bid in accordance with the contract documents, within the time set forth and at the prices stated below:

Base Bid:					
Item	Qty	Unit	Description Written & Numeric <u>Unit Price</u>	Unit Price	Total Price
1	1	LS	Replace and install in existing location, AWOS III, installed complete in place and acquisition of FCC licensing, according to specification _____ dollars _____ cents	\$ _____	\$ _____

Additive Alternate Bid 1					
Item below should be bid with the option to award depending on the availability of funds					
Item	Qty	Unit	Description Written & Numeric <u>Unit Price</u>	Unit Price	Total Price
A1	1	EA	Remove existing AWOS III from current location and install AWOS III, installed complete in place including new site selection, site approval by TxDOT and FAA, and acquisition of FCC licensing, according to specification. _____ dollars _____ cents	\$ _____	\$ _____

Total Bid \$ _____

It is understood the quantities of work to be done at unit prices are approximate and are intended for bidding purposes only. Amounts are to be shown in both words and numbers. In case of discrepancy the unit price amount shown in words shall govern. Bidders must bid on the Base Bid and Additive Alternate 1.

The Owner reserves the right to award to the responsive lowest bidder for any combination of the base bid and alternate. Funding availability will be considered in selecting the bid award.

Bidder hereby agrees to commence work under this contract on or before a date to be specified in a written "Notice to Proceed" for installation of the equipment. Following issuance of the written "Notice to Proceed" for installation, installation shall be completed within 90 calendar days thereafter. Bidder further agrees to pay as liquidated damages the sum of \$200.00 for each consecutive calendar day to complete the work beyond the allotted time or as extended by an approved change Order.

Bidder understands the Owner reserves the right to reject any irregular proposal and the right to waive technicalities if such waiver is in the best interest of the Owner and conforms to State and local laws and ordinances pertaining to the letting of construction contracts. The bidder agrees this bid shall be good and may not be withdrawn for a period of 60 calendar days after the scheduled closing time for receiving bids.

Upon receipt of the written "Notice of Award", the bidder will execute the formal contract agreement within 14 days and deliver a surety bond or bonds as required under the contract

documents. The bid security attached in the sum of 2% of the total bid price _____ is to become the property of the Owner in the event the contract is not executed as set forth in the contract documents as liquidated damages for the delay and additional expense caused thereby.

Signature Title

Printed Name Phone

Mailing Address City, State, Zip Code

Addendum:

The undersigned Bidder certifies that he has acknowledged the addendum(s) to the contract as indicated below.

Addendum No. _____ dated _____

Addendum No. _____ dated _____

Addendum No. _____ dated _____

Qualification Acknowledgment:

The undersigned Bidder certifies they are a prequalified bidder with the Texas Department of Transportation (TxDOT) and is on the current TxDOT “Bidder’s List” as indicated below:

_____ Full Prequalification with a bidding capacity of \$_____

_____ Bidder’s Questionnaire with a bidding capacity of \$_____

OR

The undersigned Bidder is not a pre-qualified TxDOT bidder and has enclosed the bidder’s qualifications per General Provision 20-02, Prequalification of Bidders.

_____ I have enclosed qualification statements.

Qualification Acknowledgment Signature:

Signature Title

Mailing Address City, State, Zip Code

AWOS Technical Specifications

1. Project Description:

- 1.1. Replacement Installation of an Automated Weather Observing Systems III P/T with complete VDP/UHF/NADIN interface and indoor/outdoor 500W UPS backup power supply at the Mustang Beach Airport. The system shall be installed turn key and include all labor, equipment, materials, peripherals, training, services, one year warranty, and incidentals as necessary to place the system in operation to the satisfaction of the Owner/State and be ready for commissioning by the Federal Aviation Administration (FAA). The system shall be installed in accordance with and as approved in Federal Aviation Administration Advisory Circular 150/5220-16(c), latest version and FAA Order 6560-20B, or latest version. Vendor shall have FAA certification for the AWOS III P/T at time of bid submittal and provide copies of such approval with their bid submittal.
- 1.2. The vendor shall utilize an established and proven equipment configuration.
- 1.3. The vendor shall ascertain that all AWOS and VHF system components installed in the system are compatible in all respects with each other and the remainder of any new or existing system. Any non-compatible components shall be replaced with compatible components at no additional cost to the owner.
- 1.4. TxDOT Aviation Division has a long term contract for required AWOS maintenance with Vaisala, Inc. that will include required maintenance following commissioning on all systems installed with this contract (not to include any repairs of the system under the one year warranty). All vendor equipment must be compatible with the National Airspace Data Interchange Network (NADIN) interface and it is the responsibility of the vendor to insure compatibility. Vendor will work jointly and in full cooperation with Vaisala, Inc. during installation of the AWOS system and NADIN equipment so that commissioning can occur in a timely manner and certifies that equipment will be able to enter TxDOT maintenance program, currently administered by Vaisala. Entire system shall be installed and in total operating condition before commissioning visit is scheduled.
- 1.5. The following documents shall be considered a part of these provisions:
 - AC 150/5220-16(c), or latest version, “Automated Weather Observing Systems for Non-Federal Applications”
 - FAA Order 6560.20B, or latest version, “Siting for Automated Weather Observing Systems”
 - AC 150/5345-1V, or latest version, “Approved Airport Equipment”
 - AC 70/7460-1K, or latest version, “Obstruction Marking and Lighting”

- TxDOT Aviation Division General Construction Contract Provisions, Volume dated June 2005.

2. Site Preparation

- 2.1 The vendor shall provide all necessary site preparation work for installation of the AWOS, which includes, but is not limited to grading, leveling, grubbing, and making the site acceptable for installation of necessary foundations and equipment.
- 2.2 Vendor shall provide and install control and data cables in conduit from the AWOS CPU to remote sensors.
- 2.3 Vendor shall construct foundations for tower base and other equipment if existing foundations are not adequate.
- 2.4 Vendor shall accomplish all required utility connections to equipment. Vendor shall provide appropriate cable for telephone connections from terminal building to site, if required. RF transmitter and receiver shall be provided to the site by the vendor, if required.
- 2.5 If necessary, provide and erect a tilt-over tower with steel rest as required for installation of sensors/equipment.
- 2.6 Following installation, site shall be cleaned, debris removed and surface leveled to that of surrounding areas to allow for mowing and maintenance of the area disturbed.

3. Installation:

- 3.1 Vendor shall not proceed with installation until approved schedule is developed and only following a notice to proceed by the Owner.
- 3.2 The vendor shall provide all labor, equipment, and material required to install and make operational the AWOS equipment, VHF equipment, data acquisition, and data displays.
- 3.3 The work shall be performed by the AWOS manufacturer or approved vendor regularly engaged in work of this type, and shall include furnishing and installing the equipment, calibration, start-up, and commissioning of equipment.
- 3.4 Sensors shall be installed at the locations and elevations as approved by Owner/TxDOT and the Federal Aviation Administration. All connections of the cables to the sensors, data collection, processing unit and data terminal will be in accordance with the manufacturer's specifications. VHF antenna shall be mounted at the AWOS site, unless other location is approved by Owner/TxDOT.
- 3.5 The following output media shall be provided:

- (a) Voice output transmitted via the proposed VHF equipment
- (b) Telephone dial-up access to voice output
- (c) One data terminal, complete with video display, keyboard, printer, microphone, data acquisition and processing hardware and software, to be located as designated by the sponsor in an existing airport building
- (d) Computer modem hook-up
- (e) AWOS weather observation output shall be Mode 2
- (f) Audio monitor amp/speaker with volume control and on/off switch located in the area of the data terminal

3.6 Vendor shall anticipate multiple installation visits per airport, as necessary.

4. Equipment:

- 4.1 AWOS III P/T Instrumentation: The systems to be installed shall be FAA certified as AWOS III P/T as finally configured at time of contract award. All equipment provided shall be new and meet the specifications in AC 150/5220-16, latest version.
- 4.2 Tower: If existing tower is not adequate, vendor shall install a tilt-over tower as specified by manufacturer for the system with steel supporting rest in concrete foundations. The tower shall not exceed the height specified for the equipment to be installed on the tower. Steel supporting rest is required to hold tower in its tilt-down position without touching ground.

The tower shall be painted with a six-band marking with alternating bands of aviation surface orange (the top band) and white. The bandwidths shall be 1/6 of the height of the tower and perpendicular to the vertical axis of the tower with the bands on at each end colored orange. Paint and aviation colors shall conform to Federal Standards FED-STD-595. Colors are as follows: Orange Number 12197; White Number 17875. The tower shall be primed in accordance with the tower manufacturer's specifications prior to painting.

A Dual L-810 obstruction light shall be placed within 5 feet of the top of the tower in accordance with FAA requirements. The two lamps on the L810 shall be wired in parallel on a dedicated circuit.

5. Additional Services

- 5.1 The vendor will perform the following:
 - a. Conduct all required systems performance tests. System must be in total working condition before commissioning. If multiple commissioning visits are necessary,

vendor shall reimburse other contractors, the FAA, and the owner for associated additional travel costs if requested.

- b. Participate in FAA ground check, flight check, and site commissioning of the AWOS.

This includes providing and compensating a qualified technician to be on site for the FAA ground and flight check of the AWOS and placing the VHF transmitter on the air in accordance with FCC rules and regulations.

- c. Prepare the AWOS for the FAA ground check. Place and keep the AWOS in an operational test mode until it is certified by the FAA. If the FAA disapproves either the ground check or flight check, the vendor shall further prepare the AWOS so that it will pass the check.
- d. Post any certificates and notices required in AC 150/5220-16, latest version.
- e. Vendor to schedule a session after commissioning at each individual airport to provide complete system operation and maintenance, and repair training. Vendor will ensure that all sponsor representatives and airport operators as designated at the pre-construction meeting held at each airport site are notified of the training session, and will personally conduct the training on site.
- f. Provide one complete set of manuals per airport for each designated airport operator and one for TxDOT Aviation Division project manager.

6. Basis of Payment

6.1 Installation:

- a. Vendor shall be paid for the installed AWOS III P/T system less 5% retainage. The system shall be installed in accordance with the Plans and General and Special Provisions. The unit price shall be full compensation for furnishing all materials, equipment, tools and labor to construct this item of work. The unit price shall also include full compensation for the installation of the VHF transmitter to transmit AWOS broadcasts, furnishing all required testing and calibration equipment, furnishing training services, and providing spare parts. This item shall also include all associated conduits, cables, wiring, underground duct used for installation of control/data cable or a UHF data link and miscellaneous items required.
- b. Five (5) percent retainage shall be held until final inspection and acceptance by Owner/TxDOT. Release of retainage does not release vendor of obligation to have equipment certified and commissioned by FAA. Vendor shall correct, repair and/or replace any equipment necessary to have equipment commissioned by

FAA. Vendor is not released from this contract until final commissioning of each system.

- 6.2 Vendor shall make all necessary repairs, corrections, changes, and modifications to the AWOS system before acceptance by Owner/TxDOT. The airport owner should not be relied upon at any time to assist or make the necessary repairs, corrections, changes, or modifications.

WAGE RATES FOR EACH COUNTY AVAILABLE AT
<http://www.gpo.gov/davisbacon/TX.html>