



February 26, 2019

Gregg County
Youth Center Building Renovations
Job No. 2563-010

ADDENDUM #5

The bid date and time **HAVE NOT** changed and are still as originally posted.

The following items are clarifications, revisions, or additions to the work proposed for Gregg County's Youth Center Building Renovations Request for Proposals. Proposers shall acknowledge receipt of this addendum.

1. In lieu of Fire Alarm System described in section 283100, provide fire alarm system in accordance with the following specification, included with this addendum, for a non-proprietary system: Fire Spec Addendum.

End of Addendum #5

The purpose and scope of the bid is to provide a retrofit of the existing fire alarm system currently installed at **The Gregg County Juvenile Facility**. The new system will be analog addressable; the new equipment will be non-proprietary and may not be dealer based. The new system will meet the requirements set forth in this document with no exceptions. **This building is existing non-conforming**. The contractor shall, to the best of their ability, utilize any and all existing equipment that will function according to the requirements set forth in this document. The proposal will provide the following:

- A. The manufacturer, model number and quantity of all devices.
- B. The cost of equipment and labor shall be separated.
- C. Where necessary, waterproof enclosures will be provided for equipment in wet locations.
- D. Communication cable shall be installed from the fire alarm panel to the telephone D Mark.
- E. A separate quote will be provided for the installation of a GSM communicator; depending on designer.
- F. Provide service rates including hourly service rate, after hour and holiday rates, and trip charges.
- G. Provide a list of similar projects, with contact numbers, completed in the past 12 months.
- H. Systems may not, for any reason be locked out through programming; all programming codes shall remain factory default.

PART 1 QUALIFICATION

- A. Gregg County shall be satisfied that a proposed Contractor meets all the requirements express herein before including the Contractor's proposal in the project.
- B. Gregg County may investigate, as they deem necessary to determine the ability of the proposed Contractor to perform the work. The proposed Contractor shall furnish to Gregg County any information or data requested for this purpose.
- C. Gregg County reserves the right to reject any contract proposal if the evidence submitted, or their investigation, fails to indicate that the Contractor is qualified to fulfill any part of the contract or to complete the work contemplated therein.
- D. Gregg County reserves the right to reject the proposal of any Contractor who has previously failed to perform properly, or complete on time, contracts of a similar nature.

PART 2 PRODUCTS

- A. Type: Complete 24 VDC, closed circuit, electrically supervised, analog addressable, intelligent reporting, microprocessor controlled fire detection system.
- B. The system shall meet all requirements for a protected premises and supervising station fire alarm system per NFPA 72.
- C. The system and all components shall be tested and found suitable for the specified purpose as part of a protected premises protective signaling (fire alarm) system by a nationally recognized approvals agency acceptable to the AHJ.
- D. All date keeping hardware, firmware, and software provided shall be fully compliant with dates including the year 2000 and beyond. Any time or date related functions must operate normally, leap year and daylight savings time must be supported.
- E. The control units, power supplies, batteries, subassemblies, software, firmware, all cable types, detection, notification, control devices, and all accessories required to provide a complete

operating system shall be listed and labeled by Underwriters Laboratories, Inc. for fire alarm system use under the latest appropriate testing standard including but not limited to the following:

- F. UL38 Manually Actuated Signaling Boxes for Use with Fire Protective Signaling Systems.
 - UL 50 Enclosures for Electrical Equipment.
 - UL 193 Alarm Valves for Fire-Protection Service
 - UL 217 Single and Multiple Station Smoke Detectors.
 - UL 228 Door Closers-Holders, With or Without Integral Smoke Detectors.
 - UL 268 Smoke Detectors for Fire Protective Signaling Systems.
 - UL268ASmoke Detectors for Duct Application.
 - UL 346 Waterflow Indicators for Fire Protective Signaling Systems.
 - UL 444 Communication Cables.
 - UL 464 Audible Signal Appliances.
 - UL497B Protectors for Data Communications and Fire Alarm Circuits.
 - UL 539 Heat Detectors for Fire Protective Signaling Systems.
 - UL 793 Automatically Operated Roof Vents for Smoke and Heat.
 - UL 864 Control Units for Fire Protective Signaling Systems, Ninth Edition.
 - UL 910 Test for Cable Flame-Propagation and Smoke-Density Values for electrical and Optical-Fiber Cables Used in Spaces Transporting Environmental Air.
 - UL 1424 Cables for Power-Limited Fire Alarm Circuits.
 - UL 1479 Fire Tests of Through-Penetration Fire stops.
 - UL 1481 Power Supplies for Fire Protective Signaling Systems.
 - UL 1581 Electrical Wires, Cables, and Flexible Cords.
 - UL 1635 Digital Alarm Communicator System Units.
 - UL 1638 Visual Signaling Appliances – Private Mode Emergency and General Utility Signaling.
 - UL 1711 Amplifiers for Fire Protective Signaling Systems.
 - UL 1971 Signaling Devices for the Hearing Impaired.
- G. All equipment and components shall be installed in strict compliance with manufacturers' recommendations and the requirements of the components UL listing. Consult the manufacturer's installation manuals for all wiring diagrams, schematics, electrical requirements, cable types, and physical equipment sizes, et cetera, before beginning system installation. Refer to the manufacturers' riser / connection diagrams for all specific system installation/termination/wiring data.
- H. The contractor shall be responsible for sizing, verifying and supplying proper power supply(s) necessary to operate the system and audible visual signals.
- I. All equipment and components shall be new and the manufacturer's current model unless otherwise specified. All like devices shall be of the same manufacturer and model number unless otherwise specified.
- J. All equipment shall be attached to walls and ceiling/floor assemblies and shall be held firmly in place. Fasteners and supports shall be adequate to support the required load.

DESIGN CONSIDERATIONS

- A. Provide and install a fully automatic fire alarm system in accordance with the building code requirements.2012 IFC
- B. The Designer will need to review the current systems and make adjustments as needed.

- C. Size of all panels for a minimum 30 percent growth to provide for future expansion.

ACCEPTABLE MANUFACTURER

- A. Descriptions and details, acceptable manufacturers' names listed and specific manufacturer and model number items indicated in this specification shall establish a standard of quality, function, and design. Manufacturer's listed as acceptable are set forth for the purpose of creating a standard for systems installed for Gregg County. No exceptions or substitutions will be accepted. Failure to meet this requirement will result in bid forfeiture.
- B. It is the responsibility of the Contractor to provide all features and functions as outlined in these specifications. The functions and features specified are vital to the operation of these facilities; therefore, inclusion in the list of acceptable manufacturers does not release the contractor from strict compliance with the requirements of this specification.
- C. The manufacturer shall not be **proprietary or dealer based systems**, no exceptions. No dealer based equipment will be accepted, no equivalent shall be considered.

TESTING, WARRANTY, SERVICE

- A. A factory-trained representative of the manufacturer shall supervise the final connection and testing of the system and it shall be subject to the final acceptance of the AHJ. Testing shall include but not be limited to the following:
 - 1. Before energizing the system check all cables for correct connections and test for short circuits, ground faults, continuity, and insulation.
 - 2. Open each imitating device circuit and verify that the trouble signal actuates.
 - 3. Open and short each signaling line circuit and verify that trouble signals actuates.
 - 4. Open and short each notification appliance circuit and verify that trouble signals actuate.
 - 5. Check for presence of strobe signal and audibility of tone at all alarm notification devices.
 - 6. Check installation, supervision, and operation of all area detectors using the walk test.
- B. The Fire Alarm Contractor shall be ultimately responsible for safe and complete operation of the system. Any issues affecting proper operation of the system relating to the Electrical, Mechanical, Fire Protection, Fire Suppression or other contractors shall be resolved by the Fire Alarm Contractor, at no additional cost to and without requesting intervention by the Owner.
- C. The Fire Alarm Contractor shall provide a complete, dated, installation certificate meeting state requirements for each installation. A Fire Alarm Installation Record sticker listing the: installation firm's name, address, and telephone number; signature of licensee and license number; Fire Alarm Planning Superintendents name and license number; and the installation date, meeting the state requirements shall be attached to the main fire alarm control panel.
- D. The contractor shall provide a warranty of the installed system against defects in material or workmanship for a minimum of a period of (1) one year or more from the date of substantial completion. Any equipment or cabling shown to be defective shall be replaced, repaired or adjusted free of charge. All labor and materials will carry a one year-year warranty or manufacturers warranty whichever is greater.
- E. Immediately prior to the end of the warranty period, the system will be inspected and certified for the following year at no additional cost to the Owner.