**\*\*If bidding other than specified, please provide manufacturer’s specs for “or equal” items. \*\***

**Scope of Work:**

The Contractor shall furnish all labor, materials, tools, equipment and supplies necessary to perform the following at “Rayburn Correctional Center” in Angie, Louisiana in accordance with the following and attached specifications for the Louisiana Department of Corrections (DOC).

**Site Visit Contact:**

Doug Freeman

(985) 661-6417

**Location:**

Rayburn Correctional Center

27268 Hwy 21 North

Angie, Louisiana 70426

**Specifications:**

* The Contractor shall furnish and install two Smoke Barrier Systems in each of Snow, Rain, and Wind units for a total of six smoke barrier systems.

**Smoke Barrier System: McKeon Auto-Set Model CFS-FT-G** or equal

**Specify Brand/Model Bidding:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* The Contractor shall schedule and convene a pre-installation meeting with Rayburn Correctional staff.
* The Contractor shall not begin work until shop drawings have been submitted and found to be in compliance with all applicable Fire Marshall Codes and standards as listed in the attached documents.

Smoke Barrier System Specifications:

* + Automatic smoke detector activated overhead coiling screen
  + Unit shall have edge sensing to detect obstructions to the deployment screen.
  + Guide rods shall be securely mounted to the side walls and provide a seal as side walls and bottom rail by the Contractor.
  + Barrier shall have a 1 hour fire resistance rated screen for the room to room separation.
  + Unit shall activate upon signal from local smoke detection located in the area to be protected.
  + System shall be powered by 120 volt AC for deployment and retraction.
  + Unit shall be equipped with a 24 volt DC battery back-up that is recharged from a normal 120V AC power connected to unit’s emergency power.
  + Unit shall be self-closing without auxiliary power upon loss of emergency power to the hold open device.

* + The Agency shall provide a 230A circuit from emergency panel to smoke barrier.
* The Contractor shall install all system components- mounting brackets, hardware and fasteners needed to attach units to building structure in accordance with manufacturer’s installation instructions.
* The Contractor shall coordinate interface and connect with fire alarm system.
* The Contractor shall prepare and set up control circuit power including conduit boxes conductors, wiring devices and emergency power.
* The Contractor shall demonstrate required testing and maintenance procedures to Agency personnel. Submittals development, project coordination, engineering and documentation as specified.
* Smoke curtain shall be 8’ wide x 7’ 4” high
* Curtain shall be vertically secured on both sides & bottom bar to seal the curtain at the bottom by the Contractor.
* Curtain shall be 1/2 hour fire rated.
* Unit shall provide compliant smoke & draft control assembly to protect openings in smoke rated construction.
* Unit shall be equipped with a 24 Volt DC battery back-up that is recharged from normal 120 volt power.
* Unit to be configured to in a manner to allow emergency power to be connected.

Installation shall include the following:

* Operation is a NEMA 1 tubular motor operator and flush mount key push button control station with a specified curtain of galvanized steel slats.
* Guides of steel angle and channels.
* Bottom bar of steel angle with wireless safety edge.
* Hood of galvanized steel, fail safe magnetic release device for connection to building fire alarm system and perimeter smoke seals as required.
* UL 10B listed assembly, smoke and draft UL 1784 listed assembly with auxiliary limit switch for remote monitoring.

**General Terms and Conditions:**

* The Contractor shall be responsible for delivery and pickup of materials, supplies needed to complete the job.
* Warranty as specified 2 years on material, 1 year on all workmanship.
* Control system shall comply with UL standard #864.
* Openings in smoke/fire barriers shall be protected in accordance 101:22.3.7 & 101:22.4.4.11.
* The roll-down door automatic releasing mechanism or medium shall be activated by the operation of approved smoke detectors in accordance with 101:7.2.1.8 and NFPA 72, and upon loss of power to the hold-open device.

NOTE: THE FOLLOWING COMMENTS IDENTIFY ISSUES FOR INFORMATIONAL AND CAUTIONARY PURPOSES OR ISSUES THAT COULD NOT BE VERIFIED IN THE SUBMITTED DOCUMENTS.

Modifications to the existing fire alarm system shall be in accordance with NFPA 101, NFPA 72 and ADA-AG.

LRS 40:1574 and LAC 55: V: 303 The Contractor shall submit fire alarm system shop drawings with plan review application and fee prior to installation of any work of this section. Such work shall not commence until shop drawings have been found to be in compliance with applicable codes by this office. The submittal shall include a copy of this letter and shall be in accordance with the submittal requirements outlined in the memorandum dated June 24, 1993 which was distributed from this office to all state licensed fire alarm contractors, architects and engineers. Specify the "Type of Signaling System" to be utilized, identify the monitoring station, describe the evacuation system ("zoned" or "general"), and include information concerning the means of protecting fire command centers, circuitry, and other essential equipment, such as may be required for high-rise buildings, as applicable.

Codes & standards--

UL 1784 "Air leakage test of door assemblies"

UL 864 "Control Units for Fire Protective Signaling Systems"

Icc-- Evaluation Service Reports ESR-1136

2000 International Building Code Section 714.2.3

2003 International Building Code 715.3.3

2006 International Building Code Section 715.4.3

NFPA 105 " Installation of Smoke Control Door Assemblies"