



October 21, 2019

Subject: Invitation to Bid# 2019-TH-01: Low Voltage, Access Control, and CCTV Contractor for the Town's new Municipal Building – Addendum 3

Ladies and Gentlemen,

The purpose of this addendum is to address some of the questions that were brought up during the mandatory pre-bid conference Friday morning.

A. Many questions were asked about design/layout, etc.

One purpose of whichever firm is selected for this project will be to work with our design team to provide insight on specific needs such as additional IT hardware space*, conduit, etc. That being the case, PLEASE prepare a BASE BID using the information provided in the meeting, on the plans, in the RFP, and within the Addendums. Once on-board, you will be connected to the architect and CM so that you can provide your input. If these changes necessitate a change order to your BASE BID, we will consider them at the appropriate time.

After some research, we have determined that the following standards shall be required for this project:

1. Cabling - Data station cables shall be CAT-6, 4-pair, UTP, plenum rated.
 - a. Data station 4-pair UTP cables shall be terminated on 48-port, high density, 568B patch panels.
 1. All label strips, mounting hardware, and associated components shall be required for a complete and acceptable data system
 - b. Connectors for coax shall be male compression type F- connector. Insert male F-connector into F-type female- female threaded connector in faceplate.
 - c. Fiber cable shall be armored 12-strand, 50um, multi-mode, round cordage, plenum rated. Fiber optic cables shall be terminated with LC type connectors in rack-mount termination cabinets. Adapter panels shall be provided for all terminated fiber.

Incorporated 1911



- d. All cabling shall be tested against the EIA / TIA category standards and test reports shall be provided to the Using Agency and/or, Service Provider.
 - e. Do not locate cables near equipment such as light ballasts and power transformers which may emit electromagnetic interferences.
 - f. Provide a cable support system in accordance with EIA / TIA / 569A. Do not allow the cable to be laid on ceilings or strung through bar joist or rafters.
 - g. 1-gang faceplates shall be 6-port type and be able to accept 8-pin modular connectors, F-connectors, and LC, SC, and ST fiber connectors. Blanks shall be installed in unused spaces.
 - h. The design distance shall not be greater than 250' and all data and coax (CATV) shall be homerun. Splitting, splicing, or daisy chaining of cabling is not permitted.
2. Network Electronics
- a. All data network equipment should be located in the specified IT room(s). Do not allow active equipment to be placed in hidden areas or ceiling spaces.
3. Other Standards
- a. Provide and install cable support system secured to building ceiling structure every 5' and set support hooks high, tight and neatly bundled at the building structure and all routes run at 90 degrees. (Installer will provide all cable support hardware J-hooks, mounting hardware, conduit sleeves, firestop, etc). Use Velcro wrapping for all cabling bundles.
 - b. Each cable will be labeled at each end, documented, and tested for Category 6 performance and test results provided in PDF format at completion of project.
 - c. Please include your hourly labor rate for adds/changes/ or support not in the scope of work.
 - d. Contractor shall provide Town of Tyrone with the Manufacturer's Warranty on all cabling. Please also provide a copy of your Certified Installer Certificate from the manufacturer, if any.

Incorporated 1911



4. Quality Assurance

- a. Workmanship - All equipment and materials shall be installed in a neat and professional manner. **Any materials and equipment not so installed shall be removed and replaced at the Contractor's expense.** The work shall be covered by the guarantee/warranty stated below.
- b. Materials - All materials shall be new and unused. The Contractor shall furnish all necessary outlets, supports, fittings and accessories to fulfill applicable codes, regulations, building standards and the best practices of the trade for installation of communications cabling systems.
- c. Provide for approval a detailed sketch of the proposed cable support system.

5. Warranty – The Town of Tyrone expects that any and all work performed be covered under a workmanship defect warranty for no less than 365 days from the completion of service. All patch panels shall carry at least a 5-year warranty from the manufacturer.

*I have had a discussion with the architect about the potential need for a second climate-controlled IT room. She got with their electrical engineer and they advised me that the electrical room on the Admin side of the building (room 122) is already designed with its own AC unit and has enough space for a rack or cabinet. They are going to move the door so that the room opens up into the adjacent Work Room instead of the public Women's Restroom. **IF it becomes necessary to utilize this room as a secondary IT room, it must be connected to the other IT room (room 147) by OM4 fiber.**

B. **How many WIFI access points are required?**

The Town cannot provide a substantive answer to this question because we do not have internal expertise in this area. However, we can advise that the building should have a secure network for employees and provide free WIFI to guests. Approximately 25 employees could be in the building at any given time during regular business hours along with 5 to 10 patrons from the public. The Courtroom/Council Chambers is designed to hold approximately 97 to 100 people, but this room is only used (for intended purposes/large crowds) on Tuesday mornings and Thursday evenings. Capacity crowds for Council meetings will be extremely rare.

Incorporated 1911



We ask that you take the above information, look at the building design, and use your expertise to develop a proposal that will suit our needs.

C. Someone in the meeting asked for a schematic of the Council Chambers/Court Room.

This is provided on page A5.02 of the plans.

D. Someone asked for specific information about doors.

A door schedule is provided on page A6.01 of the plans.

E. It was brought up to me after the meeting that it would be optimal to have from the Town an idea of specific brands for cameras and other hardware we wish to use on this project.

We have provided a list of cameras that are not to be used. Outside of that, we do not have the expertise to advise a specific brand on any hardware items at this time. That said, we strongly encourage you to provide a base bid that contains hardware that is of the best quality to meet our needs, provide a reasonable service life, and enable you to submit a competitive bid. Additionally, all products and materials should be commercial grade.

F. A question was asked about cable trays.

Having the cables supported by “J Hooks” and bundled with plenum Velcro is acceptable.

G. An important item was left off the original scope of work.

A small omni-directional antenna that facilitates the transfer of in-car and body camera video from the police cars to the storage server is mounted on the roof of the current Police Department. This unit will need to be relocated to the new facility and mounted near the PD parking area.

H. I was asked if the Town was bound to go with the lowest bid.

The Town will select the vendor with the *lowest responsible bid*. This means the vendor who:

1. Submits a proposal that best addresses the scope of the work;

Incorporated 1911



2. Includes hardware that the Town believes, based on research and follow up, is of acceptable quality;
3. Provides the best warranty and on-going support; and
4. Provides the best “bang for our buck” overall.

I. **I was asked if the Town would consider hiring multiple contractors instead of an all-in-one provider.**

This is certainly a consideration, but preference will be given to bids from vendors who can cover the full scope of work.

Received by: _____ Company: _____

Note: Please sign and return this addendum with your sealed bid. Any responder failing to return a signed addendum will still be responsible for complying with these requirements.

Respectfully,

Brandon Perkins
Town Manager

Incorporated 1911