

# CITY OF CONWAY, ARKANSAS

Office of the Mayor  
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## **ADDENDUM #3**

### **RFP Project 25 Phase 2 Trunked Radio System**

**Notice Date: July 21<sup>th</sup>, 2015 @ 4:00pm**

#### **City of Conway IT Department**

##### **A. Purpose**

The purpose of this Addendum No. 3 is to clarify Section 5.1, 5.2, 5.3, 5.4 Clearwell Road Communications Tower Specifics

##### **5. Communication Tower**

This communications tower project encompasses the site analysis, design, and construction of a public safety radio communication towers and ancillary FAA-approved tower lighting. This project is intended to be a turnkey project. The tower to be designed and constructed include: a 200' self-supporting Lattice style tower capable of meeting current and future communication needs, both reliably and functionally.

The contractor shall be required to furnish all parts, labor equipment and materials necessary to install functional tower structures. Installation of antennas and transmission line components.

The city encourages Bidders to offer solutions that are best and most advantageous relative to City needs and expectation.

##### **5.1 Project Scope**

The contractor shall furnish all labor equipment, parts and materials necessary to design and install turnkey functional tower structures and the following services, equipment and materials:

- 200', self-support lattice radio communications tower structure and foundation, in accordance with EIA/TIA-222G
- OSHA approved tower climbing facility for each tower;
- Motorola R56 compliant electrical grounding system;
- Tower, foundation, electrical and related design drawings signed and sealed by a Licensed Professional Engineer;
- All City required construction permits and related submittals;
- Antenna systems and their related transmission line components.

## 5.2 Tower Load Study

The vendor will provide a certified tower load study based on the antenna, cable, and mounting information. The proposed study will be completed using all current and anticipated antenna loading with a 50% increase to accommodate future commercial growth.

## 5.3 Site Information

6. Tower – Clearwell Road Site
7. Location: (*Approximately Longitude -92.499784 Latitude 35.110684*)
8. Height: 200'
9. Structure Type: Self-Supported lattice style tower

The City shall provide electric power and high speed fiber Optic cable, a cleared 100'x100' area. Included within the 100'x100' area is the 70'x70' Tower/Shelter compound to be provided by the vendor, and an access roadway to the tower site.

Any additional site improvements and/or modifications to the specified tower location site, as necessary to accommodate the contractor's required material and work, shall be the responsibility of the contractor and must be factored into each Proposal's cost estimate.

## 5.4 Design Information

**This communications tower project shall be designed in accordance with TIA-222-G for mission-critical public safety communication systems.**

5.4.1 Contractor shall furnish detailed engineering drawings for City's review prior to the commencement of any on site related construction work.

5.4.2 Drawings shall, as a minimum, illustrate:

- A. Location of to-be-installed equipment relative to existing adjacent structures and/or property lines;
- B. Mechanical/structural details of tower foundation;
- C. Electrical ground system resistance measurements;

5.4.3 Contractor shall furnish wind-load stress and foundation calculations used in the design of the proposed tower structures. Contractor shall conduct soil studies and shall use the information contained in the tower site soil study for the basis of the foundation design.

5.4.4 Contractor shall furnish documentation signed and sealed by a registered professional engineer, licensed in the State of Arkansas, certifying that the proposed tower and foundation meets the requirements of TIA-222-G or latest version and is in accordance with these Specifications.

5.4.5 Prior to proposal submission, Bidders shall, at their own expense, make such additional investigations on site conditions, as necessary, for the successful and accurate completion of their Proposal. The City shall permit site inspection access during normal business hours with an escort from the City or their designee.

5.4.6 Contractor shall provide to the City, a minimum of four sets of completed as-built drawings which conform to the City's As-Built Drawing Standards, prior to final acceptance of this project. This shall include engineering and design documents from the tower manufacturer as well as foundation concrete test results.

5.4.7 Contractor shall provide a detailed report of electrical ground resistance measurements of the completed, as-installed, electrical grounding system with plan drawings that depict the measurement.

If you have any additional questions regarding this addendum, please contact Lloyd Hartzell, at [Lloyd.Hartzell@cityofconway-ar.gov](mailto:Lloyd.Hartzell@cityofconway-ar.gov) or 501.513.3521.