

RESPONSE TO QUESTIONS FROM BIDDERS AND AMENDMENT TO RFP

To All Contractors bidding on RFP # 04-15 Communications Tower & Shelter Erection & Ancillary Services:

1. ALL antenna, microwave antenna, waveguide, cable, fiber bundles, and associated equipment will be furnished and installed by other third party vendors. All questions that were related to that subject will not be responded to separately. Revised Construction Drawings (Rev. 4) have been uploaded as an Attachment to the RFP. See modifications to Sheet A-3.
2. Please reference the Drawing List of materials, on page 2 of the Sabre Communications Erection Drawings which have been uploaded as an Attachment to the RFP (a copy of page 2 is attached here to for your convenience. All material listed is to be installed by contractor, **EXCEPT** those items in the right hand column beginning with 116127-PMI (4 ½ O.D. Pipe Mount Kit at @ 220') ending with 116127-DT4 (Stiffarm mount kit for Pipe mount @ 110'). See modifications to Sheet A-3 of the Construction Drawings.
3. **Additionally, the contractor will furnish and install the Flash Technology lighting system as specified on the Quote Number 2042158 attached hereto (or approved equivalent LED lighting system complying with FAA Advisory Circular 870/7460-1 K Change 2, Obstruction Marking and Lighting, med-dual system – Chapters 4, 87 (M-Dual, &12) with built-in wireless monitoring capability).** Refer to Attachment 8.
4. Responses to other questions are provided herewith:
5. Shelter equipment. Who is installing it or is that something we need to do? (radios, batteries etc.) **THE EQUIPMENT BEING PLACED WITHIN THE SHELTER WILL BE INSTALLED BY A SEPARATE VENDOR.**
6. Any special closeout documents needed other than industry standards? **SEE ATTACHED CLOSEOUT REQUIREMENTS.**
7. Will Clay County's surveyor stake out the site (compound, utility easement, and tower center) prior to construction, or do we (the contractor) have to hire a surveying team? **THE SITE WILL BE STAKED PRIOR TO CONSTRUCTION BY THE COUNTY.**
8. Are we (the contractor) responsible for road repairs caused by heavy equipment and soft ground? **THE COUNTY WILL FIX ANY DETERIORATION DUE TO HEAVY EQUIPMENT DAMAGE.**
9. In paragraph 2.1.1 it states, "The contractor must provide Communications Tower and Equipment Shelter Erection and Ancillary services, which meets or exceeds the specifications contained in this document." Does this mean we (the contractor) will be providing the tower and shelter, or just the install? **JUST THE INSTALL.**
10. Drawing A-1 and E-1 shows a 15' wide utility easement, Drawing A-2 shows this same easement as 10'...which is correct? **THE 15" UTILITY EASEMENT IS THE CORRECT WIDTH.**
11. Does your contract with Clifford Power include them coming to the site to perform the generator Start Up & Testing? **NO, CONTRACTOR WILL START UP AND TEST AS PART OF THE INSTALLATION; HOWEVER, CLIFFORD POWER SYSTEMS REQUIRES A TECHNICIAN TO OBSERVE AND ASSIST IF NECESSARY. THIS WILL BE COORDINATED BY THE COUNTY.**
12. Drawing A-4 Detail 1 and Detail 3 note that the shelter stoop and shelter foundation are "to be furnished & installed by Clay County Highway Department"...is this correct, or are these items to be completed by the Contractor as part of our scope of work? **ALL SITE CIVIL WORK WILL BE**

COMPLETED BY THE CONTRACTOR, EXCEPT FOR THE GRADING AND ROCKING OF THE ACCESS ROAD UP TO THE COMPOUND FENCE LINE, WHICH WILL BE THE RESPONSIBILITY OF THE COUNTY. SEE MODIFICATIONS TO SHEET A-4 OF THE CONSTRUCTION DRAWINGS.

13. Any special closeout documents needed other than industry standards? **SEE ATTACHED CLOSEOUT REQUIREMENTS. REFER TO ATTACHMENT 9.**
14. Is there a requirement to install a propane tank low fuel monitor to the building shelter? **NO.**
15. Per drawing sheet C-1 - please provide details of what is included with the description "All civil work to be completed by Clay County Highway Department": **ALL SITE CIVIL WORK WILL BE COMPLETED BY THE CONTRACTOR, EXCEPT FOR THE GRADING AND ROCKING OF THE ACCESS ROAD UP TO THE COMPOUND FENCE LINE, WHICH WILL BE THE RESPONSIBILITY OF THE COUNTY. SEE MODIFICATIONS TO SHEET C-1 OF THE CONSTRUCTION DRAWINGS.**
16. What are the technical specifications of the tower including the profile drawings? **SEE SABRE ERECTION DRAWINGS. REFER TO ATTACHMENT 5A.**
17. What equipment will be delivered to the tower site? **THE TOWER AND ALL MATERIALS ASSOCIATED THEREWITH.**
18. What materials are required to be picked up by the contractor and the location of the items for pickup? **NONE, OTHER THAN MATERIALS BEING FURNISHED BY CONTRACTOR.**
19. Will the embedded items for the tower be shipped separately or will they ship with the tower? **ALL WILL SHIP WITH TOWER EXCEPT ANCHOR BOLTS; THESE CAN SHIP EARLY IF CONTRACTOR DESIRES.**
20. Will any of the embedded items for the tower or tower have to be stored off site before or during the project? (e.g. contractor storage yard) **NO.**
21. Does the tower have built-in support (like a cable ladder) for cable runs or does the contractor have to provide standoff or other method of support? **YES, SEE LIST OF EQUIPMENT THAT COMES WITH THE TOWER, ATTACHED.**
22. Is there a home run ground wire required for the antennas? **NO.**
23. Does fence fabric and barbed wire top have to be grounded per R56 specifications? **ONLY GROUND TO THE FENCE FRAMEWORK PER THE CONSTRUCTION DRAWINGS.**
24. Is progress billing allowed for the duration of the contract with progress being approved by both the contractor and county prior to submission of "partial" invoices? **NO, DUE TO THE SHORT TERM LENGTH OF THE PROJECT PARTIAL BILLING WILL NOT BE ALLOWED.**
REFER TO RFP SECTION 4.35

Sabre CommunicationsTM Corporation

DESCRIPTIVE OUTLINE

Prepared for: CLAY COUNTY MISSOURI
PURCHASING DEPARTMENT
1 Courthouse Square
Liberty, MO 64068
Attn: Ms. Julie Lombard

Proposal No.: 15-4059-MEG-GOV

Date: 09/18/14 Page 3 of 4
Reference: 240' S3TL/Kearney, MO
Freight: Destination

TOWER FREIGHT TO CLAY COUNTY, MISSOURI

ANCHOR BOLT FREIGHT TO CLAY COUNTY, MISSOURI

NOTES: Terms are Net 30 days after invoice.

Classification of Structure:

- Class Three

Structures used primarily for essential communications such as: civil or national defense, emergency, rescue or other disaster operations, military and navigation facilities.

Exposure Categories:

- Exposure C

Open terrain with scattered obstructions having heights generally less than 30 feet. This category includes flat, open country, grasslands and shorelines in hurricane prone regions. *Exposure C is the standard default for exposure categories.*

Topographic Categories:

- Category 1

No abrupt changes in general topography, e.g. flat or rolling, no wind speed-up consideration shall be required. *Category one is the standard default for the topographic categories.*

The permit package includes a profile drawing of the structure with member sizes; anchor bolt details; descriptive notes; structural calculations; a table of supported antennas, mounts and feedlines; and a foundation sketch and calculations (if applicable).

This quotation is based on ANSI/TIA-222-G and Customer provided specifications.

Foundation and anchor bolt designs are based strictly on ANSI/TIA-222-G.

Dimensional information is preliminary only; it may change based on final engineering without altering the basic tower configuration.

All Sabre mounts are quoted with support pipes of appropriate length for most applications if not otherwise specified.

All T-Boom sector mounts are quoted at default azimuths of 120° apart if not otherwise specified.

Cable type safety climbing device provided does not include harness.

Lighting is to be provided by others.

Freight charges quoted are for provided materials only. Additional freight charges may be incurred with the order of additional items.

All antennas, transmission lines, jumpers, ground kits, hangers, and hardware are to be provided and installed by others.

All tower materials will be hot dip galvanized as outlined in ASTM A-123.

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SABRE MODEL S3T-L SELF-SUPPORTING TOWER

Quantity of one (1) 240' Sabre Model S3TL self-supporting tower.

The tower will be triangular in design with a base width of 23' - 0" tapering to 5' - 0" at the top. The tower will utilize tubular steel for tower legs and angular steel for bracing.

The tower will be designed for a basic wind speed of 90 mph with 0" of radial ice, and 40 mph with 1" of radial ice, in accordance with ANSI/TIA-222-G.

Revision G Parameters:

- Structure Class III
- Exposure Category C
- Topographic Category 1

***Refer to Notes section for definitions of Revision G parameters.*

The tower will be designed to support the following equipment:

	ANTENNA MODEL NUMBER (QTY)	RADOME		ELEVATION C.O.R.	TX. LINE SIZE & TYPE	FREQUENCY	AZIMUTH TO NORTH	ANTENNA MOUNT (DESIGN)	MOUNT PROVIDED	
		YES	NO						YES	NO
1	(3) BPS10-O-B1 RFS Antenna's		X	238' At Base	(1) AVA5-50, (1) AVA 6-50, (2) AVA 7-50	N/A	Unknown	(3) 3ft Special Heavy-Duty Sidearms	X	
2	(12) 8' x 1' x 3in Panel Antenna's		X	232'	(12) 1 5/8"	N/A	Unknown	Three (3) 12' Ultra T-Boom Sector Mounts with 3' Standoff		X
3	(3) DC6-48-60-18-8F Raycap Antenna's		X	232'	(4) 7/8"	N/A	Unknown	Same as above		X
4	(9) RRH's		X	232'	(4) 3/4"	N/A	Unknown	Same as above		X
5	(12) TMA's (behind antenna)		X	232'	(1) 3/8"	N/A	Unknown	Same as above		X
6	(1) 2' Solid Dish	X		220'	(1) Cat 5	5 GHz	25.41°	One (1) 4-1/2" O.D. Leg-type Dish Mount	X	
7	(3) AM-V5G-Ti Airmax Antenna's		X	210'	(3) Cat 5	N/A	Unknown	Three (3) Flush Mounts 2-3/8" O.D. Pipe	X	
8	(1) 2' Solid Dish	X		195'	(1) Cat 5	5 GHz	68.97°	One (1) 4-1/2" O.D. Leg-type Dish Mount	X	
9	(12) 8' x 1' x 3in Panel Antenna's		X	186'	(12) 1 5/8"	N/A	Unknown	Three (3) 12' Ultra T-Boom Sector Mounts with 3' Standoff		X
10	(3) DC6-48-60-18-8F Raycap Antenna's		X	186'	(4) 7/8"	N/A	Unknown	Same as above		X
11	(9) RRH's		X	186'	(4) 3/4"	N/A	Unknown	Same as above		X
12	(12) TMA's (behind antenna)		X	186'	(1) 3/8"	N/A	Unknown	Same as above		X
13	(12) 8' x 1' x 3in Panel Antenna's		X	176'	(12) 1 5/8"	N/A	Unknown	Three (3) 12' Ultra T-Boom Sector Mounts with 3' Standoff		X
14	(3) DC6-48-60-18-8F Raycap Antenna's		X	176'	(4) 7/8"	N/A	Unknown	Same as above		X
15	(9) RRH's		X	176'	(4) 3/4"	N/A	Unknown	Same as above		X
16	(12) TMA's (behind antenna)		X	176'	(1) 3/8"	N/A	Unknown	Same as above		X

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17	(1) 6' H.P. Dish	X	165'	(1) LDF4-50A (1) Cat-5	11 GHz	322°	One (1) 4-1/2" O.D. Leg-type Dish Mount	X
18	(12) 8' x 1' x 3in Panel Antenna's	X	150'	(12) 1 5/8"	N/A	Unknown	Three (3) 12' Ultra T-Boom Sector Mounts with 3' Standoff	X
19	(3) DC6-48-60-18-8F Raycap Antenna's	X	150'	(4) 7/8"	N/A	Unknown	Same as above	X
20	(9) RRH's	X	150'	(4) 3/4"	N/A	Unknown	Same as above	X
21	(12) TMA's (behind antenna)	X	150'	(1) 3/8"	N/A	Unknown	Same as above	X
22	(1) 6' H.P. Dish	X	140'	(2) EW52	6 GHz	120°	One (1) 4-1/2" O.D. Leg-type Dish Mount	X
23	(1) 6' H.P. Dish	X	130'	(2) EW52	6 GHz	120°	One (1) 4-1/2" O.D. Leg-type Dish Mount	X
24	(1) 6' H.P. Dish	X	120'	(2) EW52	6 GHz	120°	One (1) 4-1/2" O.D. Leg-type Dish Mount	X
25	(1) 3' H.P. Dish	X	100'	(1) LDF4-50A (1) Cat-5	18 GHz	212.26°	One (1) 4-1/2" O.D. Leg-type Dish Mount	X

ITEM I TOWER MATERIALS

Materials to be provided include:

Complete tower steel and hardware
Anchor bolts and templates
Construction step bolts (see notes)
Outside climbing ladder
One (1) waveguide support ladder * (to support fifteen (15) initial lines)
**Stackable hangers will be provided by others*
Three (3) 3' special heavy-duty sidearms each with one (1) tieback kit at the 238' elevation
One (1) 4-1/2" O.D. leg dish mount at the 220' elevation
One (1) flush mount with 2-3/8" O.D. pipe at the 210' elevation
One (1) flush mount with 2-3/8" O.D. pipe at the 210' elevation
One (1) flush mount with 2-3/8" O.D. pipe at the 210' elevation
One (1) 4-1/2" O.D. leg dish mount at the 195' elevation
One (1) 4-1/2" O.D. leg dish mount with one (1) stiffarm mounting assembly at the 165' elevation
One (1) 4-1/2" O.D. leg dish mount with one (1) stiffarm mounting assembly at the 140' elevation
One (1) 4-1/2" O.D. leg dish mount with one (1) stiffarm mounting assembly at the 130' elevation
One (1) 4-1/2" O.D. leg dish mount with one (1) stiffarm mounting assembly at the 120' elevation
One (1) 4-1/2" O.D. leg dish mount with one (1) stiffarm mounting assembly at the 100' elevation
Required lighting mounts
Safety cable kit without harness (250')
Three (3) safety cable kits and leg brackets without harness (100')
One (1) waveguide bridge 2-leg 2' x 10' (18' direct burial) with three (3) 4 level trapeze kits
One (1) 15' x 3/4" lightning rod copper and stiffener
P.E. certified tower profile and foundation drawings
Final erection drawings



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Construction step bolts have been quoted to the 100' elevation on all three legs for safety and ease of construction. Step bolts should not be used for climbing without the use of a safety climbing device or fall protection equipment.

This proposal does not include any sales, use, excise, contractors or any other taxes not specifically detailed in this proposal.

If a Customer requests to pick up a tower, a \$300.00 per truck charge may apply for damage and loading.

Storage charges of \$350.00 per month may apply starting sixty (60) days after original scheduled ship date.

Title, ownership, risk of loss, risk of material obsolescence and risk of material market value decline shall pass to the Customer upon invoicing or shipment to Customer, whichever occurs earlier in time.

Delivery will be approximately 4 to 6 weeks after receipt of approved order.
