



Carter County Sheriff's Office

900 East Elk Avenue
Elizabethton, Tennessee 37643
Phone: 423.542.1846 Fax: 423.542.3156

Dexter Lunceford
Sheriff

James Parrish
Chief Deputy

Carter County Sheriff's Office Communications Request for Proposal CCSDCOMMS1219 December 2019

The Carter County Sheriff's Office would like to announce a Request for Proposals (RFP) for radio communications equipment for use within the Carter County Sheriff's Office. This RFP is equipment specific to align with the interoperability of our city law enforcement agency. We are requesting bids on fourteen (14) mobile radios, vehicular repeaters, installation and antennas. The bids submitted must meet the requirements within this document and must be able to be software upgraded to operate with over the air management and programming.

Time Line

December 20, 2019.....Issue Proposal to all Known Qualified Vendors

January 3, 2020.....All Questions shall be submitted by close of business

Contact Person: Captain Thomas Smith
Contact Phone: 1-423-542-1848
Contact Email: smitht@sheriff.cc

January 24, 2020 @ 1:00 pm.....Proposal Opening Date

February 7, 2020.....Estimated Award Date



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The vendor shall submit one (1) paper original, one (1) paper copy and one (1) CD/DVD copy of the completed proposal to the following address by the due date and time noted in the RFP's Timeline. Proposals received after the stated deadline will not be considered and returned to the vendor unopened.

Name: **Carter County Finance Office**
Attn: CCSDCOMMS2019
Address: **801 E. Elk Avenue, Elizabethton, Tennessee 37643**
Telephone Number: **423-547-4005**

Description of services requested

The County wishes to purchase fourteen (14) mobile radios and fourteen (14) vehicular repeaters to be installed into various vehicles. Two (2) of the vehicles will require complete installation of equipment and twelve (12) will require that a list of installation parts be sent to the upfitter of the County's choice for installation. Twelve of the vehicles will require remote kits ordered and the vendor shall coordinate with the upfitter to send the necessary cabling/parts to install with other equipment to alleviate duplicate work and charges. Upon delivery of the aforementioned 12 vehicles, the vendor shall complete the installation of all required equipment and test the system to the manufacturer's specifications. Vendor will coordinate with the upfitter as required to achieve results that meet the expectations and desires of the County.

Vehicular repeaters will be installed so that activation will occur when the vehicle transmission is put in the park position, and will be powered from a switched B+ output from the installed mobile radio.

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Mobile Two Way Radio Specification Requirements

- ❖ All specifications, features and operational and regulatory requirements within this document should be assumed as a minimum requirement

Regulatory Requirements and Industry Standards Regulatory Requirements

Regulatory Requirements

- ❖ Radios must meet and exceed the following regulatory requirements (where applicable)
 - CFR 47
 - AS4295-2004
 - EN 300 086-1
 - EN 300 113-1
 - EN 300 219-1
 - EN 301 489-1
 - EN 60950-1
 - RSS-119

Radios also must meet and exceed **industry standards** that include:

- ❖ Relevant sections of TIA-603-D (Land Mobile FM or PM Communications Equipment Measurement and Performance Standards)
- ❖ MIL-STD 810 G (Environment Engineering Considerations and Laboratory Tests)
- ❖ TIA standards are adopted by TIA in accordance with the American National Standards Institute (ANSI) patent policy

Quality Assurance

- ❖ Manufacturer must be an ISO9001 : 2015 and ISO14001 : 2015 certified supplier

Vocoder

- ❖ Radios must use AMBE+2TM voice coding technology



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Performance Figures

- ❖ Specifications should be derived by measuring **typical performance** and then averaging that measurement across multiple points in each RF band.
- ❖ In contrast, all figures quoted as regulatory requirements must be **guaranteed minimum performance** figures for equipment operated at standard room temperature, +71.6° F to +82.4° F (+22° C to +28° C) and standard test voltage (7.5VDC).
- ❖ Performance figures quoted as 'typical' are generally better than performance figures quoted as 'guaranteed minimum'

Definition of NB and WB

- ❖ The terms 'narrow bandwidth' and 'wide bandwidth' are used as follows:

Term	Abbreviation	Channel Spacing	Modulation 100% Deviation
Narrow Bandwidth	NB	12.5kHz/15kHz	+/- 2.5kHz
Wide Bandwidth	WB	25kHz/30kHz	+/- 5.0kHz

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General Required Specifications

Safety

- ❖ Lone worker as standard option
- ❖ Integrated GPS receiver
- ❖ Bluetooth technology
- ❖ Programmable orange emergency key on front of radio next to mic plug for ease of location in dark or restrictive environment
- ❖ Emergency calls have priority access to trunked networks and can be integrated with GPS location solution.

Efficiency

- ❖ GPS location
- ❖ Text messaging
- ❖ Pre-defined status messaging
- ❖ OTAP (Over the air programming) over DMR Tier 3 network

Safety

- ❖ Water shedding frill to maintain voice clarity and high audio volume in wet environments
- ❖ IP54 water and dust protection

Interface

- ❖ Available handheld control head
- ❖ 4 programmable function keys including emergency key
- ❖ Keypad and display options with common menu structure

Operational

- ❖ Quad mode operation including Trunked DMR, Conventional DMR, MPT 1327 and analog conventional FM in one device
- ❖ Roaming between Conventional FM and DMR Tier 2 Conventional networks
- ❖ Dynamic voting of DMR and analog sites
- ❖ Scan capability includes Priority and Dual Priority, Editable, Zone and Background Scan
- ❖ Optional DES, ARC4 and AES encryption



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Receiver Specifications

Parameters	Measured performance
Adjacent channel selectivity	
NB channel	65dB
WB channel	74dB
Adjacent channel selectivity (TIA/EIA603 one-tone method)	
NB channel	65dB
WB channel	74dB
Audio distortion at rated audio (TIA-603-D)	.6%
Audio response (TIA-603-D)	+0.5dB, -2.5dB
Blocking	> 110dB
Frequency stability (TIA-603-D)	±0.5ppm
Intermodulation rejection	
NB channel	72dB
WB channel	72dB
Intermodulation rejection (TIA-603-D)	
NB channel	81dB
WB channel	81dB
Rated audio (TIA-603-D)	3W into ext 16Ω load
Internal speaker rating	4W
Hum and noise (TIA-603-D)	
NB channel	45dB
WB channel	45dB
Sensitivity	
NB channel	-116dB
WB channel	-118dB



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Sensitivity (TIA-603-D)	
NB channel	-120dBm
WB channel	-120dBm
Spurious response rejection (TIA-603-D)	
NB channel	82dB
WB channel	84dB

Receiver Specifications

Digital

Parameters	Measured performance
Sensitivity (EN 300 113) 1% BER	-119dBm
Selectivity (EN 300 113)	62dB
Intermodulation rejection (EN 300 113)	72dB
Spurious response rejection (EN 300 113)	72dB
Co-channel rejection (EN 300 113)	-9dB
BER floor (EN 300 113)	0
Blocking (EN 300 113)	> 105dB



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Transmitter Specifications

Analog

Parameters	Measured performance
Audio distortion at 1 kHz with 60% modulation	0.6%
Audio response	+0.5dB, -2.5dB
Conducted emissions	
< 1GHz	-38dBm
> 1GHz	-40dBm
Conducted emissions (TIA-603-D)	75dBc
FM hum and noise (TIA-603-D)	
NB channel	47dB
WB channel	48dB
Adjacent channel power (TIA-603-D)	
NB channel	66dBc
WB channel	76dBc
Adjacent channel power (EN 300 086)	
NB channel	66dBc
WB channel	76dBc
Wideband noise [all values dBc/Hz]	
100 kHz offset	- 130dBc/Hz
1MHz offset	- 145dBc/Hz
1.5MHz offset	- 149dBc/Hz
10MHz offset	- 154dBc/Hz
Modulation limiting	
NB Channel	±2.2kHz
WB Channel	±4.4kHz
RF power output	



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High	50W
Medium	25W
Low	15W
Very low	10W
Duty cycle (at rated power)	20

Radio Specifications

User Interface (Control head)

- ❖ Connectors
 - One 8-way RJ45 (microphone/programming)
 - Antenna connector will be a stainless steel SMA connector
- ❖ Display – 160 x 64 pixel backlit LCD screen, menu driven
- ❖ Function Keys – Four programmable keys: three silicone rubber keys on the front panel and a colored key programmable as an ‘emergency key’ on the left.
- ❖ Keypad – Two scroll keys, an enter/menu key, and a clear/back key
- ❖ Knobs:
 - Power Silicone rubber key
 - Channel knob Silicone rubber key
 - Volume knob Rotary textured rubber knob
- ❖ LED status indicator – Opaque lens that can be lit green, amber or red
 - Status LED – Three color
 - Function key LED – two color
- ❖ Press To Talk (PTT) button – Via connected microphone
- ❖ Hook switch and hanger plate – Included with microphone



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Radio Body

- ❖ RF 50Ω BNC or mini-UHF
- ❖ Power Between 10.8 and 16V DC, neg gnd
 - supply voltage ripple: <10mVpp (8kHz to 200kHz)
 - noise: <500mVpp (800Hz to 8kHz) or 100mVpp if connected directly to a battery
- ❖ Auxiliary Internal options 15-way D-range includes:
 - 1 serial
 - 3 input
 - 4 I/O
 - 1 audio tap in
 - 1 audio tap out
- ❖ Internal options 18-pin Micro-MaTch connector
 - 1 serial
 - 7 I/O
 - 1 audio tap in
 - 1 audio tap out
- ❖ Speaker Optional external (using power connector), maximum power 10W into 4Ω, balanced load configuration
- ❖ Microphone Optional auxiliary (e.g. handsfree)
- ❖ On-off Optional external (e.g. ignition sense)

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Radio Size, Weight, and Finish

- ❖ Size (WxH^axD) 6.3in x 1.9in x 6.7in
(160mm x 48.5mm x 170mm)
- ❖ Weight 37.1oz (1050g)
- ❖ Finish Plastic: black, with coarse texture
Keys and keypads: silicone rubber
Aluminum: diecast

Environmental

- ❖ Operating temperature -22°F to +140°F (-30°C to +60°C)
- ❖ Ingress protection (IP) rating The radio body and control head, when installed correctly with seals and socket bungs, is IP54 rated. This includes the standard and keypad microphones, and hand-held control head.
- ❖ Electrostatic discharge (ESD) standard International Electrotechnical Commission (IEC) 61000-4-2

- ❖ Military standard (MIL-STD)

MIL-STD-810G

Method	Procedure
Low pressure	500.5 2
High temperature	501.5 1 and 2
Low temperature	502.5 1 and 2
Temperature shock	503.5 1
Solar radiation	505.5 1
Rain	506.5 1 and 3
Humidity	507.5 2
Salt fog	509.5 1
Dust	510.5 1 and 2
Vibration	514.6 1
Shock	516.6 1, 5 and 6



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Frequencies and Channels

❖ Frequency increments	2.5 kHz, 3.125 kHz, 5 kHz, 6.25 kHz
❖ Channel Spacing	NB channel 12.5 kHz/15kHz WB channel 25 kHz/30kHz
❖ IF Bandwidth	NB channel 7.5 kHz WB channel 15 kHz
❖ RF Power Output	High 50W Medium 25W Low 15W Very Low 10W

Number of Networks, Zones, Channels and Groups

Conventional Mode	Min.	Max.
Conventional Networks	1	26
Zones	1	26
Channels (simplex or semi-duplex)	1	1500
Scan/Vote groups	0	300
Channels per group	2	50

Trunked Mode

Trunked networks	4 (shared between MPT and DMR)
Zones and workgroups	1000 zones, 1000 work functions per zone, organized in a matrix structure
Talk Groups	1500
Subscribed groups	32 (concurrently subscribed at any one time)

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Operational Features

	Analog Operation	DMR Digital Operation
❖ Channels		
▪ Simplex or semi-duplex	✓	DMR Tier 2
▪ Repeater talkaround option	✓	
❖ Trunking1	MPT 1327	DMR Tier 3
❖ Voting/Scanning	✓	✓
❖ Predefined status messaging	✓	✓
❖ GPS	Direct connect (send and receive position reports), GPS display	Direct connect (send and receive position reports), GPS display
❖ 2-tone signaling format	Decode only	
❖ 5-tone Selcall	✓	
❖ CTCSS signaling format	✓	
❖ DCS signaling format	✓	
❖ DTMF signaling format	Encode only	
❖ MDC1200 signaling format	✓	
❖ Security/Encryption	Voice inversion scrambler (Standard)	DES (optional Tier 2) ARC4 (optional Tier 2)
❖ Emergency: Lone Worker inactivity detection	✓	✓
❖ Bluetooth	✓	✓
❖ Radio must be capable of upgrade to DMR Tier 3 trunking. Upgrade must utilize only a license key programmed into the radio. No additional hardware or software can be required.		
❖ Radio must be capable of upgrade to ARC4, DES and AES encryption. Upgrade must utilize only a license key programmed into the radio. No additional hardware or software can be required.		



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Current Consumption

Current consumption was tested using radios in conventional mode with current radio hardware. All measurements were made in the middle frequencies of each band. Battery voltage was 13.8V, and radios transmitted into a 50 Ω load.

Radio Body When Off or Receiving

Radio off (no links fitted)	3mA
Radio off (links LK1, LK2, LK3 fitted) (using ignition control to switch radio on and off)	4mA
Radio on stand-by (links LK1, LK2, LK3 fitted) (using ON/OFF key on control head to switch radio on and off)	60mA
Receiver idle (not scanning)	120mA
Receiver active, mute on	120mA
Receiver active, 3W audio into 16 Ω	680mA
Receiver active, 10W audio into 4 Ω	2A

Radio Body When Transmitting

Power Output High	8.0A
Medium	5.5A
Low	4.5A
Very low	3.6A

Control Head Only

Local configuration	Backlighting off, standby, LCD heater off	25mA
	Backlighting on high, standby, LCD heater off	50mA
	Backlighting on high, standby, LCD heater on	295mA
Remote configuration	Backlighting on high, standby, LCD heater off	75mA
	Backlighting on high, standby, LCD heater on	320mA
	Backlighting on high, full speaker audio, LCD heater off	540mA
	Backlighting on high, full speaker audio, LCD heater on	785mA



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Vehicular Repeater Specifications

Basic requirements

- ❖ Capable of multi-vehicle operation with automatic priority repeater establishment and maintenance. Units shall provide means of responding during full duplex mobile reception and repeater hang time.
- ❖ Repeater must be synthesized and programmable for frequencies, tones and operating parameters. Unit shall be capable of at least 20 channels.
- ❖ DMR ESP priority structure that establishes a priority vehicle to handle on-scene communications, without user intervention to ensure uninterrupted communications when users exit their vehicles.
- ❖ DMR emergency signaling from portable to dispatch through the repeater allowing the relay of an emergency with hot mic from the portable radio user.
- ❖ Fully compatible with existing vehicular repeaters currently deployed by the County. County currently utilizes Conventional mode and will soon be moving to DMR technologies. Repeaters quoted will be required to be adaptable and programmable in both technologies.
- ❖ Activation of mobile repeat mode must be tone squelch protected.
- ❖ Each unit should be capable of under dash or overhead mounting without obstructing the drivers view or creating a safety hazard. Unit should provide adequate indicators to verify proper operation and for trouble-shooting capabilities.
- ❖ Unit shall be capable of interfacing to a variety existing mobiles and communications formats (conventional, trunking, narrowband) and be upwardly compatible with new radios and technologies.
- ❖ Vendor shall supply RF filtering devices to eliminate or reduce interference from the mobile transmitter that would cause vehicular repeater receiver de-sense. The filters should provide at least 75dB of isolation at 10MHz frequency spacing.

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Transmitter requirements

Frequency Range	136-174 MHz
RF power out	1 - 2W
Spurious emissions	-73dBc
Frequency stability	-30°~+60°C ±1.0PPM
Modulation	16K0F3E, 11K0F3E, 8K30F1E, 8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D, 8K10F1W, 8K10F1E, 8K10F1D
Hum and noise	Analog @ 12.5kHz 45dB 40dB 40dB Analog @ 25khz 50dB 45dB 45dB
Audio response (300-3kHz)	Flat or -6dB/octave
Audio distortion	<3% @ 1kHz 60% deviation
Local mic sensitivity	300mV - 5VPP
FCC Type Acceptance	LRUSVR-300V

Receiver requirements

Frequency Range	136-174 MHz
Digital sensitivity (5% BER)	0.25uV
Spelch sensitivity	.2µV to 2µV adjustable
Selectivity	Analog 25/30kHz channel 71dB Analog 12.5kHz channel 81dB
Spurious/image rejection	87dB
IMD response	80dB
Frequency stability	±1.0PPM
Audio response (300-3kHz)	Flat or +6dB/octave
Audio output	0-5VPP AC coupled, 600/2.2K
Local Rx audio	400 mW 8 Ohms@ <5% distortion

Power requirements

DC Supply	13.6VDC negative ground ± 25%
Standby	350mA
Receive	400mA @ 400mW Rx Audio
Transmit	<2.5A @ rated output
Physical Dimensions	5.75"W x 10"L x 2.25"H
Weight	50 ounces
Case	One piece extruded aluminum

Mil-Std-810D/E Ratings

501.2 Procedure II High Temp +60°C	514.3 Procedure I Category 8 Vibration, Ground Vehicle
510.2 Procedure II Blowing Dust	516.3 Procedure I Shock



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502.3 Procedure II Low Temp -30°C
507.2 Procedure II Humidity

In-band RF filtering devices

4 Cavity VHF Pre-selector

Freq Range: 150-174 MHz
Max Power: 20 W
Insertion Loss: 2.5dB
-3dB Bandwidth: 1.5 MHz
Isolation: 60 dB @ ±5 MHz
Connectors: TNC

Dual Cavity VHF Notch Filter

Freq Range: 150-174 MHz
Max Power: 100 W
Minimum Spacing: 2 MHz
Insertion Loss: <0.75 dB
-3dB Bandwidth: 0.8 MHz
Notch Depth: 25 dB
Connectors: TNC

TNC Cable Kits

Quantity: 2
Length: 3ft
Cable type: RG-142
Connectors: TNC 9(with adapters)
Interface cable: Pre-wired for mobile radio

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Grading Criteria

❖ Equipment price	❖ 35%
❖ Vendor Service	❖ 35%
❖ Quality of listed Equipment	❖ 20%
❖ Ease of Programming Equipment	❖ 10%

This RFP does not commit the Carter County Sheriff's Office to award a contract, to pay costs incurred in the preparation of a proposal in response to this request, or to procure or contract for services or supplies.

The Carter County Sheriff's Office reserves the right to reject any and all proposals, to waive formalities, informalities, or irregularities contained in a said proposal and to award a contract for items herein if it is deemed to be in the best interest of the Carter County Sheriff's Office to do so. Additionally, the Carter County Sheriff's Office reserves the right to negotiate optional items and/or services with the successful firm.

Each vendor submitting a proposal must complete and submit with their proposal the following attached forms. These forms are attached to the RFP for your convenience:

1. Vendor Information and Anti-Collusion Statement
2. Drug Free Workplace Affidavit
3. Bidder Certification of Compliance with Iran Divestment Act
4. Federal W9

Failure to submit these items will be grounds to disqualify your proposal.

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Pricing Information

	Quantity	Unit Price	Total Price
Remote mount radio quoted	12	_____	_____
Dash mount radio quoted	1	_____	_____
Vehicular repeater quoted Includes filters, RF and interface cables	14	_____	_____
Vehicle installation of mobile of mobile radio and vehicular repeater	2	_____	_____
Vehicular repeater programming and alignment with mobile radio	14	_____	_____
Remote radio mount kits	12	_____	_____
Shipping and Insurance		_____	_____
Miscellaneous Charges		_____	_____
TOTAL		_____	_____

ALL PROPOSED VENDORS MUST FILL OUT THIS SHEET TO SHOW ALL APPLICABLE CHARGES. WE ARE A TAX-EXEMPT ENTITY SO NO SALES TAX SHOULD BE INCLUDED IN THE PRICING. IF A RADIO SUBMITTED IS OTHER THAN A TAIT/HARRIS RADIO PLEASE INCLUDE THE COST OF PROGRAMMING SOFTWARE AND CABLES ALONG WITH THE NECESSARY OPERATING SYSTEMS TO SUCCESSFULLY PROGRAM THE RADIOS.



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VENDOR INFORMATION and ANTI-COLLUSION STATEMENT

Please print or type clearly. Complete each section entirely and verify for accuracy.

By signing this form the bidder agrees that he has not divulged to, discussed, or compared his bid with other bidders and has not colluded with any other bidder or parties to a bid whatsoever. Note: no premiums, rebates or gratuities to any employee or agent are permitted with, prior to, or after any delivery of materials. Any such violation will result in the cancellation and/or return of material (as applicable) and the removal from the bid list and could constitute a felony and result in a fine, imprisonment, as well as civil damages.

In compliance with this Invitation for Bid, and subject to all the conditions thereof, the undersigned offers, if this bid is accepted, to furnish any or all of the items and/or services upon which prices are quoted, at the price set opposite each item, to be delivered at the time and place specified herein. The undersigned certifies that he/she has read, understands, and agrees to all terms, conditions, and requirements of this bid, and is authorized to contract on behalf of the firm named below. This form must be signed personally by the bidder or the bidder's authorized agent. All signatures must be original and not photocopies.

COMPANY NAME:	
CONTACT PERSON:	
CONTACT PERSON TITLE:	
SIGNATURE OF AUTHORIZED REPRESENTATIVE:	
FEDERAL TAX ID # (or Social Security #, if applicable)	
STREET ADDRESS:	
STREET ADDRESS:	
CITY, STATE, ZIP:	
TELEPHONE NUMBER:	
FAX NUMBER:	
EMAIL:	
DATE:	

**By signing this form, the bidder signifies understanding and agreement with Hamblen County Government Terms and Conditions



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BIDDER'S CERTIFICATION OF COMPLIANCE
WITH
IRAN DIVESTMENT ACT
Tenn. Code Ann. § 12-12-101 et seq.

Comes _____, for and on behalf of
(Printed name of Principal Officer of Company)

_____, (the "Company") and, after being duly authorized

by the Company so to do, makes oath that:

By submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid each party thereto certifies as to its own organization, under penalty of perjury, that to the best of its knowledge and belief that each bidder is not on the list created pursuant to the Iran Divestment Act, Tenn. Code Ann. § 12-12-106.

Signature

Title

Date



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Model Affidavit

(Must be attached to bid form upon submission)

STATE OF TENNESSEE
COUNTY OF CARTER

DRUG-FREE WORKPLACE AFFIDAVIT
OF PRIME BIDDER

NOW COMES AFFIANT, who being duly sworn, deposes and says:

1. He/She is the principal officer for {insert name and address of bidding entity};
2. That the bidding entity has submitted a bid to {insert name of city department and project number} for the construction of {insert name of project};
3. That the bidding entity employs no less than five (5) employees;
4. That Affiant certifies that the bidding entity has in effect, at the time of submission of its bid to perform the construction referred to above, a drug-free workplace program that complies with TCA 50-9-113, (*Tennessee Code Annotated*).
5. That this affidavit is made on personal knowledge.

Further Affiant saith not.

AFFIANT

SUBSCRIBED AND SWORN TO before me this _____ day of _____, 20____

NOTARY PUBLIC

My commission expires: _____