



## WILLIAMSON COUNTY

Leslie Mitchell, CPPO, CPPB  
1320 West Main Street, Suite 130  
Franklin, Tennessee 37064  
(615) 790-5868  
lesliem@williamson-tn.org

January 24, 2017

To Whom It May Concern,

Williamson County is accepting bids for fire hose for Williamson County Fire Services. Minimum bid specifications are enclosed. Please note any exceptions to the bid.

All Bid Prices shall include shipping to Williamson Fire/Rescue, Station 24, 2646 Goose Creek Bypass, Franklin, TN 37064.

It is not the intent of Williamson County to favor one vendor; however, we do, from time to time, have to rely on vendors' help in writing specifications. We accept all bids with exceptions noted, and all bids will be given equal consideration.

Bids will be opened on Thursday, February 16, 2017, 2:00 p.m. Bids should be submitted in a sealed envelope to the County Mayor's Office, 1320 West Main Street, Suite 125, Franklin, TN 37064. Each envelope should be plainly marked: **Bid – Fire Hose, Office of Public Safety, February 16, 2017, 2:00 p.m. Envelope must also include bidder's company name. PLEASE NOTE: IF THE SEALED PACKAGE IS NOT LABELED EXACTLY AS SPECIFIED ABOVE, THE BID WILL NOT BE OPENED.**

The Williamson County cities of Franklin, Fairview, Spring Hill and Brentwood will be given the option to purchase items from the bid at the same price as Williamson County Government.

Williamson County reserves the right to reject any and/or proposals, to waive technicalities or informalities, and to accept any proposal deemed to be in the best interest of Williamson County. **No bid shall be valid unless signed.** No bid shall be accepted by FAX machine or email. Williamson County reserves the right to award the bid to one vendor, or by item to multiple bidders.

Enclosed is an *Ethical Standards Affidavit* and *Business Tax and Licenses Affidavit*. Please complete these documents and return them with your bid.

If you have any questions, please e-mail [lesliem@williamson-tn.org](mailto:lesliem@williamson-tn.org). All responses must be in writing by 4:30 p.m. CST on February 9, 2017. No addenda will be issued within 48 hours of the bid opening date and time.

Sincerely,

Leslie Mitchell, CPPO, CPPB  
Purchasing Agent

## Minimum Specifications Fire Hose

### SCOPE

**QUALITY:** The fire hose assembly supplied under this specification shall be made with superior quality materials. NFPA 1961 standards shall be observed in production of the assembly, in order to ensure its quality and durability.

**SERVICE LIFE:** Hose furnished under these specifications will have a potential service life and warranty of not less than 10 years, barring mistreatment that would render it unfit for service. Upon delivery, the hose shall be free from defects in workmanship and materials. Any defective hose will be replaced at no charge.

**INTENT:** This spec refers to Attack Hose (1 3/4" and 2 1/2") to meet KEY HOSE, Combat Ready line specifications due to wear and warranty.

### JACKET CONSTRUCTION

The double jacketed 1" and 3" hose shall be woven evenly and be free of defects including knots, lumps, or unsightly disfigurements that could jeopardize the integrity of the hose assembly. The wrap yarn shall consist of staple polyester yarn. The use of filament or entangled yarn is expressly forbidden. The filler yarns shall be constructed of high strength, low elongation, filament polyester to reduce weight and increase flexibility.

The double jacketed 1 3/4" and 2 1/2" hose shall be designed specifically for aggressive fire attack operations. The outer jacket shall be woven from ring spun staple polyester yarns over an inner line consisting of a one-piece extruded through the weave nitrile/PVC tube with double dip color or clear coat abrasion resistant key lock process. This hose shall carry a 10 year warranty with a 1 year wear/tear warranty.

The 4" supply hose shall be made from 100 percent high tenacity synthetic yarn circularly woven and completely protected and locked-in by tough highly resistant synthetic nitrile rubber, forming a single homogeneous construction without the use of glues or adhesives of any type.

### LINING

The rubber for 1", 1 3/4", 2 1/2" attack hose lining shall be a single-ply extruded tube of synthetic EPDM compounded to resist ozone. The finished form shall be free of pits or other imperfections and have a smooth finish. No reclaimed rubber shall be used.

Tensile Strength, Ultimate Elongation & Adhesion: Shall meet the standards of Underwriters Laboratories, Inc., as well as all other properties of UL-19 for rubber lined hoses. Ultimate tensile strength shall not be less than 1200PSI. Ultimate Elongation shall not be less than 400%. Adhesion shall be a minimum of 20 pounds.

The 4" supply hose Tensile strength of the lining and cover shall not be less than 1750 PSI

## COUPLINGS

Couplings for 1", 1 3/4", 2 1/2", and 3" hose shall be aluminum expansion ring threaded with NH/NST Threads.

Couplings for 4" supply hose shall be 4" forged Storz heads with aluminum shanks and 3 part re-attachable bindings with locking lugs.

## ABRASION IMPREGNATION

Hose assemblies shall be available with polymer impregnation to provide additional abrasion resistance. Impregnated hose shall meet the requirements of Mii-H-24606B for abrasion resistance.

The 4" supply hose shall withstand 30000 cycles on the Taber Abrasion Machine (H-22 Wheel: 1 kg).

COLOR: Yellow

## FINISHED HOSE

**MARKINGS:** Beginning at a point not less than 4ft. from the end, each 50ft. section shall be stenciled in indelible ink with letters at least 1" (inch) high stating the name of the manufacturer, month, and year of manufacture, and service test to minimum 400 PSI for attack hose and 250 PSI for supply hose. The ink used will be of a contrasting color.

Standard lengths required for 1", 1 3/4", and 3" hose shall be 50 and 100' (feet).

Standard lengths required for 4" hose shall be 25, 50, and 100' (feet).

**DEPARTMENT TRACKING:** The hose shall be stamped with fade resistant ink of a contrasting color with the following system:

WFR 2017-XX(hose size)-XX(numerical order beginning with 01)

**METHODS TESTING:** All measurements and tests necessary to determine compliance of the fire hose specified requirements shall be made with ASTM, UL and NFPA 1961 designation. The manufacturer has the right to modify any specification without prior notice to meet or exceed applicable standards.

**FRICITION LOSS:** Friction loss limitations for each hose diameter

1" attack hose flowing 30gpm friction loss shall be less than or equal 13 PSI per 100 linear feet

1 3/4" attack hose flowing 150gpm friction loss shall be less than or equal 15 PSI per 50 linear feet

2 1/2" attack hose flowing 300gpm friction loss shall be less than or equal 9 PSI per 50 linear feet

3" attack hose flowing 300gpm friction loss shall be less than or equal 3 PSI per 50 linear feet

4" supply hose flowing 750gpm friction loss shall be less than or equal 11 PSI per 100 linear feet

**Hose Coefficients:** If the hose construction allows for a different standard coefficient variable used in figuring Friction Loss that information is to be disclosed here:

1" \_\_\_\_\_ 1 3/4" \_\_\_\_\_ 2 1/2" \_\_\_\_\_ 3" \_\_\_\_\_ 4" \_\_\_\_\_

**Delivery Costs:** Must be included in bid price. All hose shall be delivered to:

Williamson Fire/Rescue Station 24  
Attention: Jay Bonson  
2646 Goose Creek Bypass  
Franklin, Tennessee 37064  
Contact Phone: 615-417-9241

**Bid Sheet  
Fire Hose**

**Pricing must include delivery.**

**4" Hose- (Yellow)**

4" x 100'	\$ _____
4" x 50'	\$ _____
4" x 25'	\$ _____

**3" Hose- (Green)**

3" x 50'	\$ _____
3" x 100'	\$ _____

**2 1/2" Hose- (Orange) KEY, Combat Ready**

2 1/2" x 50'	\$ _____
2 1/2" x 100'	\$ _____

**1 3/4" Hose- KEY, Combat Ready**

1 3/4" x 100'	\$ _____
1 3/4" x 50'	\$ _____ (White with Red, White, and Blue Striping)
1 3/4" x 50'	\$ _____ (Red)
1 3/4" x 50'	\$ _____ (Yellow)

**1" Hose-**

1" x 50'	\$ _____
1" x 100'	\$ _____

Williamson County reserves the right to award the bid to one vendor, or by item to multiple bidders.

**Will you hold price until December 31, 2017? Yes or No**

The bidder has received the following addenda:

Addendum # _____	Dated _____

Company Name \_\_\_\_\_

Physical Address \_\_\_\_\_

\_\_\_\_\_

Remittance Address \_\_\_\_\_

Authorized Signature \_\_\_\_\_

Printed Name \_\_\_\_\_

Phone \_\_\_\_\_

Fax \_\_\_\_\_

Email Address \_\_\_\_\_

Date \_\_\_\_\_

**Ethical Standards Affidavit**

**State of Tennessee**

**County of Williamson County**

**Ethical Standards Affidavit.** After first being duly sworn according to law, the undersigned ("Affiant") states that he/she has the legal authority to swear to this on behalf of \_\_\_\_\_, ("Contractor") that no part of any other governmental monies provided for the services or products contemplated in this Agreement which was received from the State of Tennessee or Williamson County shall be paid directly to an employee or official of the State of Tennessee or Williamson County as wages, compensation, or gifts in exchange for acting as a Contractor, officer, agent, employee, subcontractor, or consultant to the County or the Contractor in connection with any Services or Work contemplated or performed relative to this Agreement. Affiant and Contractor further swears that no federally, state, or county appropriated funds have been paid or will be paid, by or on behalf of the Contractor, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, any employee of the State of Tennessee, or employee of Williamson County in connection with the awarding of any federal, state, or county contract, the making or awarding of any government grant, the making of any government loan, and entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any federal, state or county contract, grant, loan, or cooperative agreement.

**Affiant**

By: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Witness: \_\_\_\_\_

Date \_\_\_\_\_

## ***Business Tax and License Affidavit***

***Business Tax and License Affidavit.*** The undersigned, ("Affiant"), states that he/she has the legal authority to swear to this on behalf of \_\_\_\_\_, ("Contractor"); that Contractor is not in any manner in violation of *Tennessee Code Annotated, Section, 5-14-108(l)* which provides that "(n)o purchase shall be made or purchase order or contract of purchase issued for tangible personal property or services by county officials or employees, acting in their official capacity, from any firm or individual whose business tax or license is delinquent." Affiant affirms and warrants that Contractor's licenses are currently valid and all business taxes have been paid and are current as of the date of this affidavit. Contractor is licensed and pays business taxes in \_\_\_\_\_ (County), Tennessee.

### **Affiant**

By: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Witness: \_\_\_\_\_

Date: \_\_\_\_\_