



## INVITATION FOR SEALED BID

**BID 00-729**

**Description: No-Dig Liner Trailer System**

**Department: PUBLIC WORKS**

**NIGP Commodity Code(s): 800-00-00-000-0**

**Total pages including this page is 24**

**Note: FAXING OF BID WILL NOT BE ACCEPTED**

**Important Instruction – Read Carefully:**

**If you have obtained these bid specifications from either of:**

**City of Tulsa's Fax-on-Demand (918-596-1171) or**

**City of Tulsa's Website : <http://frontpage.webzone.net/purchasing>**

**you must notify the buyer Patricia Cummings of your intent to bid by e-mail at [pcummings@ci.tulsa.ok.us](mailto:pcummings@ci.tulsa.ok.us) in order to receive addenda. The buyer will always acknowledge your e-mail for your records. All addenda will be posted on fax-on-demand and the website.**

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**Pay special attention to those pages with a reference to the following notes:**

**Note #1: Signature of authorized agent required**

**Note #2: Signature of an authorized agent and notarized required**

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**Your bid response should follow the same format listed above plus any additional format requested in the body of the bid invitation.**

**INVITATION FOR SEALED BIDS  
TO  
City of Tulsa**

200 CIVIC CENTER, ROOM 109, TULSA, OKLAHOMA 74103

Bid number and date of bid opening must appear on the lower  
left outside corner of bid envelopes and all related containers.

**DATE OF OPENING: February 15, 2001**

**BID NUMBER: BID 00-729**

**BID MUST BE IN THE CITY CLERK'S OFFICE AT THE ABOVE ADDRESS BY 5:00 P.M. THE DAY  
PRECEDING THE "DATE OF OPENING" SHOWN ABOVE.**

**BIDS WILL BE OPENED AT 8:30 A.M. IN THE CITY COUNCIL ROOM ON THE DAY SPECIFIED UNDER "DATE OF OPENING."**

PUBLISHED IN THE TULSA DAILY COMMERCE AND LEGAL NEWS: February 5, 6, 7, 8, 9, 2001

Bid must be accompanied by bidder's bond, cashier's check or certified check in the amount of: None

PLEASE READ TERMS AND CONDITIONS ON THE NEXT PAGE BEFORE COMPLETING BID DOCUMENTS

\*\*\*\*\*

**THE FOLLOWING SECTION MUST BE COMPLETED BY BIDDER**

\*\*\*\*\*

Delivery will be made in not more than \_\_\_\_\_ days after receipt of order.

Payment terms \_\_\_\_\_ % \_\_\_\_\_ days.

City of Tulsa may increase quantity of order at the unit price bid for \_\_\_\_\_ days. (Bidder to Specify Days)  
I have examined the terms and specifications and the instructions to bidders herein and agree, provided I am awarded a con -  
tract, to provide the above described items for the sum shown in accordance with the terms and specifications stated herein. All  
deviations are in writing and attached hereto.

Enclosed is a  BID BOND ;  CASHIER'S CHECK;  Certified Check in the amount of \$ None, which I  
agree the City of Tulsa may retain as liquidated damages in the event of my failure to comply with the terms of this bid.

**MUST BE SIGNED BY AUTHORIZED AGENT TO BE VALID**

FIRM NAME \_\_\_\_\_ by \_\_\_\_\_

SIGNATURE OF AUTHORIZED AGENT

STREET \_\_\_\_\_ TITLE \_\_\_\_\_

CITY STATE \_\_\_\_\_ ZIP CODE \_\_\_\_\_ PHONE NUMBER \_\_\_\_\_ DATE \_\_\_\_\_

## GENERAL TERMS AND CONDITIONS OF SEALED BIDS

THESE ITEMS APPLY TO AND BECOME A PART OF THE BID.

**NO EXCEPTIONS TO THESE TERMS & CONDITIONS WILL BE CONSIDERED.**

1. **BIDS MUST BE SUBMITTED ON THIS FORM ONLY INCLUDING A SIGNATURE OF AN AUTHORIZED AGENT.** Each bid shall be placed in a separate envelope. Be sure envelope is completely and properly identified and sealed, showing the bid number and date in the lower left hand corner. Bids must be time stamped in the office of the City Clerk by 5:00 P.M. on the day before date of opening.
2. No bidder may withdraw his proposal for a period of thirty (30) days after the date and hour set for the opening of bids.
3. All prices shall be quoted F.O.B. Tulsa, Oklahoma, and delivery to City of Tulsa location shall be without additional charge.
4. The bidder shall attach the manufacturer's name of the equipment or material to be furnished, type, model numbers, manufacturer's descriptive bulletins and specifications. All guarantees and warranties should be clearly stated. This data shall be in sufficient detail to describe accurately the equipment or material to be furnished. Manufacturer's specifications, in respect to the successful bidder, shall be considered as part of his contract with the City of Tulsa.
5. The bidder shall show in the proposal both the unit prices and total amount, where required, of each item listed. In the event of error or discrepancy in the mathematics, the unit prices shall prevail.
6. Any exceptions or deviations from written specifications shall be shown in writing and attached to the bid form.
7. Each bidder agrees to comply with the terms of Title 5, Chapter 1, of Tulsa, Oklahoma Charter and revised ordinances relating to equal employment opportunity.
8. **THE ENCLOSED FORMS REGARDING NON-COLLUSION AND FINANCIAL INTEREST MUST BE SIGNED, NOTARIZED, AND RETURNED WITH THE BID.**
9. The City of Tulsa reserves the right to reject any and all bids, to waive any technicalities in the bidding, and to award each item to different bidders or all items to a single bidder.
10. All bids must be accompanied by bidders bond, cash, certified or cashier's check in the amount shown on the face of the bid form. This amount shall be retained by the City of Tulsa as liquidated damages in the event the successful bidder (or bidders) fails to execute a contract, if required. The bidder agrees that said amount is presumed to be the damages sustained by the City due to the impracticability and extreme difficulty in fixing the actual damages. The office of the City Clerk will return the bid deposits to the unsuccessful bidders, after a contract has been awarded or all bids have been rejected.
11. In the event cash discounts are offered by the bidder, the discount date shall begin with the date of invoice, the date of receipt of all material covered by the purchase order, or the date of receipt by the City of Tulsa of the original copy of the purchase order with properly executed Affidavit of Claimant, whichever is the later date.
12. Direct purchase of certain items of equipment or material by the City of Tulsa are exempt from Federal Excise Tax and Oklahoma Sales Tax. In such cases the bidder shall quote prices which do not include Federal Excise Tax and Oklahoma Sales Tax. The City of Tulsa will furnish executed exemption certificates upon presentation by the bidder at the time of purchase.
13. Bid must show number of days required for delivery under normal conditions. Failure to state delivery time obligates bidder to complete delivery in fourteen (14) calendar days. Unrealistically short or long delivery promises may cause bid to be disregarded. Contractor must keep Purchasing Department advised at all times of status of order. Default in promised delivery or failure to meet specifications authorizes the Purchasing Agent to purchase supplies elsewhere and charge full increase of cost and handling to defaulting contractor. Consistent failure to meet delivery promises without valid reason may cause removal from bid list.
14. Bidder agrees to defend and save City of Tulsa from and against all demands, claims, suits, costs, expenses, damages and judgments based upon infringement of any patent relating to goods specified in this order or the ordinary use or operation of such goods by City or use or operation of such goods in accordance with bidders direction.
15. If the bid requires a written contract, the successful bidder shall execute a written contract with the City of Tulsa and return the required bonds and insurance certificates within ten (10) days after submission of contracts to said bidder by the City.



# BIDDER AFFIDAVIT - TITLE 74 O.S. (1974 SUPP.) 85.22-85.25

STATE OF \_\_\_\_\_ COUNTY OF \_\_\_\_\_

\_\_\_\_\_, of lawful age, being first duly sworn on oath says

**Authorized Agent**

1. (s)he is the duly authorized agent of \_\_\_\_\_, the bidder submitting the competitive bid which is attached to this statement, for the purpose of certifying the facts pertaining to the existence of collusion among bidders and between bidders and municipal officials or employees, as well as facts pertaining to the giving or offering of things of value to government personnel in return for special consideration in the letting of any contract pursuant to the bid to which this statement is attached.
2. (s)he is fully aware of the facts and circumstances surrounding the making of the bid to which this statement is attached and has been personally and directly involved in the proceedings leading to the submission of such bid; and
3. neither the bidder nor anyone subject to the bidder's direction or control has been a party;
  - a. to any collusion among bidders in restraint of freedom of competition by agreement to bid at a fixed price or to refrain from bidding,
  - b. to any collusion with any municipal official or employee as to quantity, quality or price in the prospective contract, or as to any other terms of such prospective contract, nor
  - c. in any discussions between bidders and any municipal official concerning exchange of money or other thing of value for special consideration in the letting of a contract.

\_\_\_\_\_  
SIGNATURE OF AUTHORIZED AGENT

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_.

\_\_\_\_\_  
Signature of Notary Public

\_\_\_\_\_  
MY COMMISSION EXPIRES

**The Bidder Affidavit must be completed, signed by an authorized agent, and notarized.**

# CONTRACTOR/BIDDER INFORMATION SHEET

To be completed by all Bidders  
For Contracts with the City of Tulsa  
(Please print or type)

Project No. or Description \_\_\_\_\_  
\_\_\_\_\_

Full Name of Bidder \_\_\_\_\_

Legal Identity  
(Corporation, Partnership,  
Individual, etc.) \_\_\_\_\_

Address \_\_\_\_\_  
\_\_\_\_\_

Telephone No. \_\_\_\_\_

FAX No. \_\_\_\_\_

Taxpayer Identification Number \_\_\_\_\_

Contact Person \_\_\_\_\_

Phone No. \_\_\_\_\_

Fax No. \_\_\_\_\_

E-mail address \_\_\_\_\_

Webpage Address \_\_\_\_\_

## Price Sheet Summary

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Vendor Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

**You will be able to obtain a copy of the Bid Summary on the City of Tulsa's  
Purchase-Net Fax-on-Demand and Website shortly after bid opening.**

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### **BID 00-729 No-Dig Liner Trailer System Public Works Department**

Specify Make/Model Bid: \_\_\_\_\_

**TOTAL BID:**                      \$ \_\_\_\_\_

**Please attach any descriptive literature available**

**BID 00-729**  
**No-Dig Liner Trailer System**  
**PUBLIC WORKS DEPARTMENT**

**INTENT:**

THE INTENT OF THESE SPECIFICATIONS IS TO SECURE, ON A COMPETITIVE BASIS, A SOURCE TO SUPPLY FOR **NO-DIG LINER TRAILER SYSTEM** FOR THE CITY OF TULSA'S PUBLIC WORKS DEPARTMENT.

**PRICING:**

PRICES BID SHALL BE FIRM AND INCLUDE ANY APPLICABLE FREIGHT CHARGES.

**BIDDER'S AFFIDAVIT:**

EACH BIDDER SHALL ACCOMPANY THEIR BID WITH A FULLY EXECUTED AND NOTARIZED COPY OF THE ATTACHED **NON-COLLUSION AFFIDAVIT** AND THE **INTEREST AFFIDAVIT**. FAILURE TO DO SO MAY BE CAUSE FOR REJECTION OF THE BID.

**METHODS OF SAMPLING, INSPECTIONS & TESTS:**

1. AFTER BID RESULTS ARE TABULATED, THE CITY OF TULSA PURCHASING DIVISION RESERVES THE RIGHT TO REQUIRE SAMPLES OF SELECTED EQUIPMENT AND/OR PRODUCTS FOR INSPECTION AND EVALUATION.
2. UNLESS OTHERWISE SPECIFIED IN THE CONTRACT OR PURCHASE ORDER, THE SUPPLIER SHALL BE RESPONSIBLE FOR THE PERFORMANCE OF ALL INSPECTION AND TEST REQUIREMENTS NECESSARY TO INSURE COMPLIANCE WITH REQUIREMENTS FOR THIS SPECIFICATION. THIS DOES NOT PRECLUDE SUBSEQUENT INSPECTION AND TESTIMONY BY THE CITY OF TULSA TO FURTHER DETERMINE CONFORMANCE WITH SPECIFICATION REQUIREMENTS OF QUALITY STANDARDS OF WORKMANSHIP, MATERIAL AND CONSTRUCTION TECHNIQUES.

**ADDENDA AND INTERPRETATIONS:**

IF IT BECOMES NECESSARY TO REVISE ANY PART OF THIS BID, A WRITTEN ADDENDUM WILL BE PROVIDED TO ALL THE BIDDERS. THE CITY OF TULSA IS NOT BOUND BY ANY ORAL REPRESENTATION, CLARIFICATIONS OR CHANGES MADE IN THE WRITTEN SPECIFICATIONS BY CITY OF TULSA EMPLOYEES UNLESS SUCH CLARIFICATION OR CHANGE IS PROVIDED TO BIDDERS IN WRITTEN ADDENDUM FORM FROM THE PURCHASING DIVISION.

## **ALTERING BIDS:**

BIDS CANNOT BE ALTERED OR AMENDED AFTER SUBMISSION DEADLINE. ANY INTERLINEATION, ALTERATION, OR ERASURE MADE BEFORE OPENING TIME AND DATE MUST BE INITIALED BY THE SIGNER OF THE BID, GUARANTEEING AUTHENTICITY. BIDS MUST BE SUBMITTED IN INK OR TYPEWRITTEN, PENCILING WILL NOT BE ACCEPTED.

## **TESTS:**

THE CITY RESERVES THE RIGHT TO SUBJECT ALL PRODUCTS OFFERED, PRIOR TO AWARD OF BID, TO WHATEVER PHYSICAL AND OR CHEMICAL TESTS ARE DEEMED NECESSARY TO SATISFY THE PURPOSE FOR WHICH THEY ARE REQUIRED.

IF ADDITIONAL SAMPLES ARE REQUIRED TO COMPLETE SUCH TESTS, THEY SHALL BE SUPPLIED BY THE BIDDER AT NO ADDITIONAL COST.

## **DESCRIPTIVE LITERATURE:**

EACH BIDDER IS REQUIRED TO FURNISH WITH THEIR BID, CATALOG CUTS AND/OR DESCRIPTIVE LITERATURE, PROPERLY LABELED WITH THE BID NUMBER AND BIDDER'S NAME, WITH FULL ILLUSTRATIONS AND DETAILED SPECIFICATIONS FOR EACH ITEM OFFERED AS EQUAL TO THE BRAND NAME SPECIFIED. IN ADDITION, **ALL DIFFERENCES IN SPECIFICATIONS FROM THE SPECIFICATIONS STATED HEREIN MUST BE SO MARKED.** DESCRIPTIVE LITERATURE IS REQUIRED TO ESTABLISH, FOR THE PURPOSE OF BID EVALUATION AND AWARD, DETAILS OF THE PRODUCT(S) THE BIDDER PROPOSES TO FURNISH AS TO DESIGN, MATERIALS, METHOD OF MANUFACTURE, CONSTRUCTION, ASSEMBLY OR OPERATION, AS APPROPRIATE. **FAILURE TO SUBMIT THE DESCRIPTIVE LITERATURE MAY BE CAUSE FOR REJECTION OF YOUR BID.**

## **AMERICANS WITH DISABILITIES ACT:**

THE CONTRACTOR SHALL TAKE THE NECESSARY ACTIONS TO ENSURE ITS FACILITIES AND EQUIPMENT ARE IN COMPLIANCE WITH THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT. IT IS UNDERSTOOD THAT THE PROGRAM OF THE CONTRACTOR IS NOT A PROGRAM OR ACTIVITY OF THE CITY OF TULSA. THE CONTRACTOR AGREES THAT ITS PROGRAM OR ACTIVITY WILL COMPLY WITH THE REQUIREMENTS OF THE ADA. ANY COSTS OF SUCH COMPLIANCE WILL BE THE RESPONSIBILITY OF CONTRACTOR. UNDER NO CIRCUMSTANCES WILL CONTRACTOR CONDUCT ANY ACTIVITY WHICH IT DEEMS TO NOT BE IN COMPLIANCE WITH THE ADA.

## **EMPLOYMENT DISCRIMINATION BY CONTRACTOR PROHIBITED:**

A. DURING THE PERFORMANCE OF THIS CONTRACT, THE CONTRACTOR AGREES AS FOLLOWS:

- (1) THE CONTRACTOR WILL NOT DISCRIMINATE AGAINST ANY EMPLOYEE OR APPLICANT FOR EMPLOYMENT BECAUSE OF RACE, RELIGION, COLOR, SEX OR NATIONAL ORIGIN, EXCEPT WHERE RELIGION, SEX OR NATIONAL ORIGIN IS A BONA FIDE OCCUPATIONAL QUALIFICATION REASONABLY NECESSARY TO THE NORMAL OPERATION OF THE CONTRACTOR. THE CONTRACTOR AGREES TO POST IN CONSPICUOUS PLACES, AVAILABLE TO EMPLOYEES AND APPLICANTS FOR EMPLOYMENT, NOTICES SETTING FORTH THE PROVISION OF THIS NON-DISCRIMINATION CLAUSE.
- (2) THE CONTRACTOR, IN ALL SOLICITATIONS OR ADVERTISEMENTS FOR EMPLOYMENT PLACED BY OR ON BEHALF OF THE CONTRACTOR, WILL STATE THAT SUCH CONTRACTOR IS AN EQUAL OPPORTUNITY EMPLOYER.
- (3) NOTICES, ADVERTISEMENTS AND SOLICITATIONS PLACED IN ACCORDANCE WITH FEDERAL LAW, RULE OR REGULATION SHALL BE DEEMED SUFFICIENT FOR THE PURPOSE OF MEETING THE REQUIREMENTS OF THIS SECTION.

B. THE CONTRACTOR WILL INCLUDE THE PROVISION OF THE FOREGOING PARAGRAPHS OF THIS SECTION IN EVERY SUBCONTRACT OR PURCHASE ORDER OF OVER \$10,000, SO THAT THE PROVISIONS WILL BE BINDING UPON EACH SUBCONTRACTOR OR VENDOR.

## **AWARD OF BID:**

THE BID SHALL BE AWARDED TO THE FIRM WHOSE PROPOSAL IS RESPONSIVE TO THE BID AND IS MOST ADVANTAGEOUS TO THE CITY, CONSIDERING THE FACTORS IDENTIFIED IN THE BID AND SECTION 406E OF TITLE 6, THE PURCHASING ORDINANCE SET FORTH BELOW:

E. AWARD OF CONTRACT.

1. AUTHORITY OF MAYOR. THE MAYOR SHALL HAVE THE AUTHORITY TO AWARD CONTRACTS WITHIN THE PURVIEW OF THIS CHAPTER.

2. LOWEST SECURE BIDDER. CONTRACTS SHALL BE AWARDED TO THE LOWEST SECURE BIDDER MEETING SPECIFICATIONS. IN DETERMINING "LOWEST SECURE BIDDER", IN ADDITION TO PRICE, THE FOLLOWING FACTORS SHALL BE CONSIDERED:

A. THE ABILITY, CAPACITY AND SKILL OF THE BIDDER TO PERFORM THE CONTRACT OR PROVIDE THE SERVICE REQUIRED;

B. WHETHER THE BIDDER CAN PERFORM THE CONTRACT OR PROVIDE THE SERVICE PROMPTLY OR WITHIN THE TIME SPECIFIED, WITHOUT DELAY OR INTERFERENCE;

C. THE CHARACTER, INTEGRITY, REPUTATION, JUDGMENT, EXPERIENCE AND EFFICIENCY OF THE BIDDER;

D. THE QUALITY OF PERFORMANCE OF PREVIOUS CONTRACTS OR SERVICES;

E. THE PREVIOUS AND EXISTING COMPLIANCE BY THE BIDDER WITH LAWS AND ORDINANCES RELATING TO THE CONTRACT OR SERVICE;

F. THE SUFFICIENCY OF THE FINANCIAL RESOURCES AND ABILITY OF THE BIDDER TO PERFORM THE CONTRACT OR PROVIDE THE SERVICE;

G. THE QUALITY, AVAILABILITY AND ADAPTABILITY OF THE SUPPLIES OR CONTRACTUAL SERVICES TO THE PARTICULAR USE REQUIRED;

H. THE ABILITY OF THE BIDDER TO PROVIDE FUTURE MAINTENANCE AND SERVICE FOR THE USE OF THE SUBJECT OF THE CONTRACT, AND;

I. WHERE AN EARLIER DELIVERY DATE WOULD BE OF GREAT BENEFIT TO THE REQUISITIONING AGENCY, THE DATE AND TERMS OF DELIVERY MAY BE CONSIDERED IN THE BID AWARD, AND;

J. THE NUMBER AND SCOPE OF CONDITIONS ATTACHED TO THE BID.

K. IF A POINT SYSTEM HAS BEEN UTILIZED IN THE BID SPECIFICATIONS, THE NUMBER OF POINTS EARNED BY THE BIDDER.

**BID DOCUMENTS:**

BIDDER SHALL RETURN ALL BID DOCUMENTS INTACT EXACTLY AS FURNISHED IN ITS ORIGINAL FORM. ALL BID DOCUMENTS REQUIRING SIGNATURE MUST BE SIGNED BY AN AUTHORIZED AGENT OF THE COMPANY BIDDING. PRINTING YOUR NAME IN LIEU OF SIGNATURE WILL NOT BE ALLOWED. **FAILURE TO COMPLY WILL RESULT IN REJECTION OF YOUR BID.**

**TECHNICAL SPECIFICATIONS:** See Pages 13-24.

**CURED IN-PLACE LINER REPAIR SYSTEM  
MOUNTED IN TANDEM AXLE TRAILER**

BIDDER SHALL COMPLETE EVERY SPACE IN SECTION 2 BIDDER'S PROPOSAL COLUMN. THE BIDDER SHALL GIVE A DESCRIPTION OF THE ITEM BEING BID SUCH AS SIZES, CAPACITIES, ETC.

SECTION 1

SECTION 2

ITEM

SPECIFICATION (MINIMUM)

BIDDER'S PROPOSAL

EQUIPMENT

Current year model: Cured In-Place Liner Repair System for sectional (point) repairs in main line sewers including components to be mounted by the supplier in a 30 foot cargo space (minimum) Tandem Axle Trailer.

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\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

PROCESS SPECIFICATION

Repair kit will be selected for the appropriate pipe diameter and repair length. A repair kit will consist of:

- (1) A liner/bladder assembly
- (2) Pre-measured amount of resin for the specific kit.
- (3) Pre-measured amount of catalyst for the specific kit.

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\_\_\_\_\_  
\_\_\_\_\_

- The liner will consist of a fabric material of the proper thickness for the specific pipe diameter. The liner shall be supplied in a perfectly round or tube configuration with a stitched seam. Liners that use a fabric wrapped around a packer or mandrel that results in an overlap condition and an irregular shaped cured pipe will not be acceptable. The bladder shall be constructed from a translucent material. The liner shall be housed inside the bladder to completely contain the resin introduced into the assembly.

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\_\_\_\_\_  
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- A vacuum pump of sufficient size will be supplied to assist in the resin penetration of the liner fabric.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- A pre-measured amount of the thermosetting resin is mixed with the catalyst and introduced into the open end of the liner/bladder assembly and a vacuum is drawn from the opposite end.

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\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**CURED IN-PLACE LINER REPAIR SYSTEM  
MOUNTED IN TANDEM AXLE TRAILER**

BIDDER SHALL COMPLETE EVERY SPACE IN SECTION 2 BIDDER'S PROPOSAL COLUMN. THE BIDDER SHALL GIVE A DESCRIPTION OF THE ITEM BEING BID SUCH AS SIZES, CAPACITIES, ETC.

SECTION 1

SECTION 2

ITEM

SPECIFICATION (MINIMUM)

BIDDER'S PROPOSAL

PROCESS  
SPECIFICATIONS  
(Cont.)

An electric drill mixer will be furnished. The translucent bladder will provide a visual verification that the liner is completely impregnated. This method of liner impregnation shall protect installers (personnel) from coming in direct contact with the resin during this process. Lining methods that require brushing or spraying resin into the fabric in an open atmosphere will not be acceptable.

- After impregnation, the liner/bladder assembly is loaded into a launching or carrier device.

- The launching device is then lowered into the sewer and towed to the point of repair in conjunction with a CCTV Survey Unit. A dolly mounted assembly containing dual hand cranked rope reels will be furnished. 600 feet of coded polyester rope (5/16 inch) will be furnished on each reel. One rope is used for towing and one rope is used to open the launcher. Lining methods that are towed to the repair point without a carrier to prevent resin loss or contamination from residue in the sewer will not be acceptable.

- Once the launcher is positioned at the repair point, air pressure is applied to the launcher urging the liner/bladder assembly forward through an inversion process. Air pressure for the inversion and curing will not exceed 10 PSI. Systems that use packers or mandrels to place a liner at pressures exceeding 10 PSI that can cause damage or additional damage to the host pipe will not be considered. Air will be supplied from a portable air compressor supplied by the City.

**CURED IN-PLACE LINER REPAIR SYSTEM  
MOUNTED IN TANDEM AXLE TRAILER**

BIDDER SHALL COMPLETE EVERY SPACE IN SECTION 2 BIDDER'S PROPOSAL COLUMN. THE BIDDER SHALL GIVE A DESCRIPTION OF THE ITEM BEING BID SUCH AS SIZES, CAPACITIES, ETC.

|                   |                         |                                |
|-------------------|-------------------------|--------------------------------|
| SECTION 1<br>ITEM | SPECIFICATION (MINIMUM) | SECTION 2<br>BIDDER'S PROPOSAL |
|-------------------|-------------------------|--------------------------------|

PROCESS  
SPECIFICATIONS  
(Cont.)

- A Dolly Mounted Hose Reel shall be furnished containing 250 feet of dual welded hose (3/4") for air supply to the launcher-liner/bladder assembly and 1/2" for a return pressure measurement to the control box. All the necessary fittings for the above procedures shall be furnished by the successful bidder.

The launching device can be repositioned in the pipe at any time if necessary by simply reducing the air pressure, repositioning and re-applying the air pressure.

- The liner is inverted forward covering the section to be repaired and under continuous monitoring by the CCTV Camera. The inversion of the liner over the repair area shall be documented on videotape. Wrap around/pull in systems that do not allow City personnel to watch the liner covering the repair area, will not be acceptable. The translucent bladder that was on the exterior is now on the inside of the liner becoming the inflation medium.

- The liner shall be held in place at 5-8 PSI for two hours or less, curing at ambient temperatures. A metal control box shall be furnished to include the necessary gauges, regulators and fittings to monitor the applied air pressure to the launcher-liner/bladder assembly and the return of holding pressure in the bladder during inversion and curing.

- Once the liner is cured, the air pressure is reduced and the inflation bladder is reverted away from the cured pipe by pulling back on the reversion rope that passes through the launching device and is controlled by the operator.

**CURED IN-PLACE LINER REPAIR SYSTEM  
MOUNTED IN TANDEM AXLE TRAILER**

BIDDER SHALL COMPLETE EVERY SPACE IN SECTION 2 BIDDER'S PROPOSAL COLUMN. THE BIDDER SHALL GIVE A DESCRIPTION OF THE ITEM BEING BID SUCH AS SIZES, CAPACITIES, ETC.

SECTION 1

SECTION 2

ITEM

SPECIFICATION (MINIMUM)

BIDDER'S PROPOSAL

PROCESS  
SPECIFICATIONS  
(Cont.)

A Hand Cranked Reversion Rope Reel shall be furnished with 600 feet of 5/16" polyester rope.

- The launching device is then removed from the sewer leaving the new cured in-place pipe over the repaired section with smooth tapered ends.

- Sectional liners shall be installed in diameters ranging from 6" through 48" in one continuous length up to 30 feet in the smaller diameters and up to 6 feet in the larger diameters. Lining processes that must overlap a 2<sup>nd</sup> or 3<sup>rd</sup> liner to achieve these distances that result in pipe irregularities and reduced diameters will not be acceptable.

TRAILER PACKAGE

Tandem Axle Trailer, 30-foot cargo space

Outside Trailer Dimensions

Length with Tongue 33'9"

Width Including Fenders 8'6"

Height Less A/C Units 9'4"

Height Including A/C Units 10'9"

Inside Trailer Dimensions

Length, Cargo Space 30'5"

Width 7'6"

Width Between Wheel Wells 6'7"

Height (Extra Height) 7'3"

Platform Height/Ball Height 24"

Lockable Rear Door - Combination Fixed/48"Ramp

Side Entry Door, 36"with Steel Step Well, Header & Frame with keyed lock. Six (6) extra keys are required.



**CURED IN-PLACE LINER REPAIR SYSTEM  
MOUNTED IN TANDEM AXLE TRAILER**

BIDDER SHALL COMPLETE EVERY SPACE IN SECTION 2 BIDDER'S PROPOSAL COLUMN. THE BIDDER SHALL GIVE A DESCRIPTION OF THE ITEM BEING BID SUCH AS SIZES, CAPACITIES, ETC.

|           |                         |                   |
|-----------|-------------------------|-------------------|
| SECTION 1 |                         | SECTION 2         |
| ITEM      | SPECIFICATION (MINIMUM) | BIDDER'S PROPOSAL |

TRAILER PACKAGE  
(Cont.)

|  |  |  |
|--|--|--|
|  | Three- 12-volt DC overhead lights  |  |
|  | Two 500-Watt Floodlights mounted rear of trailer   |  |
|  | Two 500-Watt Floodlights mounted on each side of the trailer   |  |
|  | Low Profile Directional Light Bar (8 each 50 watt incandescent bulbs) with an Amber Cover Mounted Rear Top of Trailer (Arrow Stick Model AS 876H or equal) |  |

COMPONENT PACKAGE

|  |   |  |
|--|---|--|
|  | Stone Guard, front bottom trailer   |  |
|  | Bogey Wheels at rear bottom of trailer for off road use                                       |  |
|  | 50 amp electrical panel   |  |
|  | Dual Air Conditioning (13,500 BTU) and Heating (Heat Strip) Units, Roof mounted               |  |
|  | Three (3) roof vents, 110 volt powered blowers  |  |
|  | Insulated Aluminum Cabinet with an external access door for generator mounting and servicing  |  |
|  | Cabinet with an external access door (OSHA approved) for diesel fuel tank storage             |  |
|  | Portable Diesel Fuel Tank, 13-gallon with line for generator                                  |  |
|  | Insulated Aluminum Cabinet with an external access door for Vacuum Pump mounting and service. |  |

**CURED IN-PLACE LINER REPAIR SYSTEM  
MOUNTED IN TANDEM AXLE TRAILER**

BIDDER SHALL COMPLETE EVERY SPACE IN SECTION 2 BIDDER'S PROPOSAL COLUMN. THE BIDDER SHALL GIVE A DESCRIPTION OF THE ITEM BEING BID SUCH AS SIZES, CAPACITIES, ETC.

SECTION 1

SECTION 2

ITEM

SPECIFICATION (MINIMUM)

BIDDER'S PROPOSAL

COMPONENTS

PACKAGE(Cont.)

110 volt Resin Chiller (Freezer), 20 cubic foot capacity-  
Length- 61¼ inch  
Depth- 30 inch  
Height- 34¼ inch

23 foot (minimum) Wet Out (Impregnation)/Work Bench with Stainless Steel Top and (4) Formica storage cabinets with Hinged locking doors mounted underneath

5 gallon OSHA Approved Container for Acetone cleanup

First Aid Kit, 2½ lb Fire Extinguisher

Tow vehicle compatible 6-way Light/Brake connector, Cole Hershee or equal

A graphic shall be applied to the exterior of the trailer, both sides. The graphic shall cover approximately 60% of the exterior of the trailer. The graphic shall be replaceable, multicolor mylar or equivalent material. The graphic shall represent the liner system, in use, in a sewer system, and identify the City of Tulsa, Public Works Department Sewer Rehabilitation Operations. The artwork shall be submitted for approval prior to purchase order issuance. Logo shall become property of the City of Tulsa.

Standard Trailer Features:

Dust Proof Side Wall Design

Dexter (ITS) Independent Torsion Suspension Axles

E-Z Lube Hubs

Modular Styled Wheels with E-Coat Prime and Powder Coat Finish

**CURED IN-PLACE LINER REPAIR SYSTEM  
MOUNTED IN TANDEM AXLE TRAILER**

BIDDER SHALL COMPLETE EVERY SPACE IN SECTION 2 BIDDER'S PROPOSAL COLUMN. THE BIDDER SHALL GIVE A DESCRIPTION OF THE ITEM BEING BID SUCH AS SIZES, CAPACITIES, ETC.

| SECTION 1              |   | SECTION 2         |
|------------------------|---|-------------------|
| ITEM                   | SPECIFICATION (MINIMUM)   | BIDDER'S PROPOSAL |
| <u>COMPONENTS</u>      |   |                   |
| <u>PACKAGE (Cont.)</u> | All Wheel Electric Brakes with 12 volt Break-a-way Switches, Battery included.                              | _____             |
|                        | Trailer safety hook and chain per City of Tulsa standard #85  | _____             |
|                        | Fiberglass Front Cap  | _____             |
|                        | Long Life Coating on fasteners  | _____             |
|                        | ODOT required exterior lights   | _____             |
|                        | Automotive Style Weather-stripping Formed Steel Rear Header with recessed clearance lights and inside cover | _____             |
|                        | .080 Hard Aluminum Top Wrap with Drip Edge  | _____             |
|                        | Riveted roof seams for strength and sealing   | _____             |
|                        | Self -Leveling roof sealant   | _____             |
|                        | Generator, 8.0 KW Diesel, 120-Volt @ 1800 RPM, mounted on a slide-out rail assembly                         | _____             |
|                        | - Generator Components:   |                   |
|                        | Remote Start/Stop Switch  | _____             |
|                        | Gauge Panel with hour meter, oil pressure and gauge temp  | _____             |
|                        | 12-Volt Battery Charging System   | _____             |
|                        | Four Cycle, water cooled  | _____             |
|                        | Radiator, Direct Mounted  | _____             |
|                        | Canister type Air Filter  | _____             |
|                        | High Coolant, High Temp and Low Oil Pressure Shut- Down Sensors   | _____             |

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BIDDER SHALL COMPLETE EVERY SPACE IN SECTION 2 BIDDER'S PROPOSAL COLUMN. THE BIDDER SHALL GIVE A DESCRIPTION OF THE ITEM BEING BID SUCH AS SIZES, CAPACITIES, ETC.

| SECTION 1              |   | SECTION 2         |
|------------------------|---|-------------------|
| ITEM                   | SPECIFICATION (MINIMUM)   | BIDDER'S PROPOSAL |
| <u>COMPONENTS</u>      |   |                   |
| <u>PACKAGE (Cont.)</u> |   |                   |
|                        | Spin-on Fuel and Oil Filter   | _____             |
|                        | Hour Meter - set mounted  | _____             |
|                        | Single side service   | _____             |
|                        | Spark arresting muffler   | _____             |
|                        | Direct coupling between alternator and engine                             | _____<br>_____    |
|                        | UL Listed Circuit Breakers, set mounted                                   | _____<br>_____    |
|                        | - Sectional Process   |                   |
|                        | One (1) Electrical Powered Vacuum Pump, mounted                           | _____<br>_____    |
|                        | Hose connection to the wet out area                                       | _____             |
|                        | 1.5 HP Electric Motor, 13 Full Load Amps @ 115 V                          | _____<br>_____    |
|                        | Remote Start/Stop Switch  | _____             |
|                        | Vacuum, 28" Mercury/Free Flow Vacuum, 10 CFM                              | _____<br>_____    |
|                        | One (1)- ¾" Banding tool and 100 feet of SS Banding with 20 screw buckles | _____<br>_____    |
|                        | One (1)- ½" Electric Drill and Mixer                                      | _____             |
|                        | One (1) Digital Thermometer   | _____             |
|                        | One (1) Air Control Box w/gauges.   | _____             |
|                        | Regulators and Fittings   | _____             |

**CURED IN-PLACE LINER REPAIR SYSTEM  
MOUNTED IN TANDEM AXLE TRAILER**

BIDDER SHALL COMPLETE EVERY SPACE IN SECTION 2 BIDDER'S PROPOSAL COLUMN. THE BIDDER SHALL GIVE A DESCRIPTION OF THE ITEM BEING BID SUCH AS SIZES, CAPACITIES, ETC.

|           |                         |                   |
|-----------|-------------------------|-------------------|
| SECTION 1 |                         | SECTION 2         |
| ITEM      | SPECIFICATION (MINIMUM) | BIDDER'S PROPOSAL |

COMPONENTS PACKAGE  
(Cont.)

|  |   |                                  |
|--|---|----------------------------------|
|  | One (1) Hose reel, dolly mounted, hand cranked, with 250 feet of welded hose, ½ inch and ¼ inch with fittings.                        | _____<br>_____<br>_____          |
|  | One (1) Dual rope, dolly mounted, hand cranked. Each reel contains 600 feet of 5/16-inch polyester rope.                              | _____<br>_____<br>_____          |
|  | One (1) Single rope reel hand cranked with 600 feet of 5/16 inch rope   | _____<br>_____<br>_____          |
|  | One (1) Launching device for 8 & 10-inch diameter lines for lengths up to six feet  | _____<br>_____<br>_____          |
|  | One (1) Launching device for 12 & 15-inch diameter lines for lengths up to six feet   | _____<br>_____<br>_____          |
|  | One (1) Set Liner Kits for training purposes<br>2- 8" x 6' Launcher Style<br>1- 10" x 6' Launcher Style<br>1- 12" x 6' Launcher Style | _____<br>_____<br>_____<br>_____ |
|  | One (1) Design guide on computer disc   | _____<br>_____                   |

|                 |  |                                  |
|-----------------|--|----------------------------------|
| <u>TRAINING</u> | Five (5) days classroom and field training, for up to 15 people, will be provided on the sectional lining process and equipment operation by a qualified technician at the purchaser's location. (All meals, lodging, and transportation shall be included.) | _____<br>_____<br>_____<br>_____ |
|-----------------|--|----------------------------------|



at the purchaser's locations. (All meals, lodging and transportation shall be bid on a per day basis.)

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