



## INVITATION FOR SEALED BID

**BID 02-314**

**Description: High Pressure Sewer & Catch Basin Cleaner**

**Department: PUBLIC WORKS**

**NIGP Commodity Code(s): 070-51-00-000-0**

**Total pages including this page is 27**

**NOTE: FAXED BIDS 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 : [www.cityoftulsapurchasing.org](http://www.cityoftulsapurchasing.org)**

**you must notify the buyer LARRY HOOD of your intent to bid by e-mail [lhood@ci.tulsa.ok.us](mailto:lhood@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 an authorized agent required**

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

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



## 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 is exempt from Federal Excise Tax and Oklahoma Sales Tax. In such cases the bidder shall quote prices that 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.

# INTEREST AFFIDAVIT

STATE OF \_\_\_\_\_ }  
  } ss  
COUNTY OF \_\_\_\_\_ }

\_\_\_\_\_, of lawful age, being first duly sworn, states that s(he) is the agent authorized by the bidder to submit the attached bid. Affiant further states that no officer or employee of the City of Tulsa either directly or indirectly, owns a twenty-five percent (25%) interest in the bidder's business or such a percentage which constitutes a controlling interest. Affiant further states that the following officers and/or employees of the City of Tulsa have some direct or indirect interest in the bidder's business:

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

By \_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Title)

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

\_\_\_\_\_

NOTARY PUBLIC SIGNATURE

My Commission Expires:

\_\_\_\_\_

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

# 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.) \_\_\_\_\_

Person Authorized to Contract \_\_\_\_\_

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

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

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

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

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

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

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

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

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

## Price Sheet Summary

Vendor Name: \_\_\_\_\_ Signature: \_\_\_\_\_

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

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**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.**

**BID 02-314**  
**High Pressure Sewer & Catch Basin Cleaner**  
NIGP CODE 070-51-00-000-0

**FOR THE**  
**CITY OF TULSA**

**PRICING**

BIDDER AGREES TO FURNISH THE FOLLOWING IN ACCORDANCE WITH THE MINIMUM BID SPECIFICATIONS AT THE PRICES SHOWN:

ONE (1) OR MORE **High Pressure Sewer & Catch Basin Cleaner:**

\$ \_\_\_\_\_ EACH

MAKE AND  
MODEL: \_\_\_\_\_

\_\_\_\_\_

**NOTE: BIDDERS MUST SUBMIT ONE (1) ORIGINAL BID AND TWO (2) COPIES, EACH WITH ATTACHMENTS AS NECESSARY TO SHOW COMPLIANCE WITH BID SPECIFICATIONS.**

# **BID 02-314**

## **High Pressure Sewer & Catch Basin Cleaner**

### **INTENT:**

THE INTENT OF THESE SPECIFICATIONS IS TO SET MINIMUM REQUIREMENTS, NOT TO OTHERWISE LIMIT BIDDING, FOR THE SUPPLY OF **ONE (1)** OR MORE **High Pressure Sewer & Catch Basin Cleaner** FOR THE CITY OF TULSA PUBLIC WORKS DEPARTMENT.

INASMUCH AS SOME DESIGNS OF EQUIPMENT VARY AMONG DIFFERENT MANUFACTURERS, THE CITY MAY ACCEPT BIDS ON EQUIPMENT WITH MINOR DEVIATIONS TO THE WRITTEN SPECIFICATIONS. GENERALLY, A MINOR DEVIATION IS DEFINED AS A DEVIATION WHICH DOES NOT: (A) MATERIALLY AFFECT THE ABILITY OF THE PRODUCT TO ACHIEVE OR ACCOMPLISH A NECESSARY FUNCTION OR TASK IN THE MANNER REQUIRED BY THE SPECIFICATIONS; (B) COMPROMISE THE SAFETY OF THE USER THEREOF; AND, PRODUCE HIGHER LATENT OR PATENT COSTS TO THE CITY IN ANY OF A MULTIPLICITY OF WAYS. THE CITY OF TULSA SPECIFICALLY RESERVES THE RIGHT TO MAKE THE JUDGMENT CONCERNING WHAT IS OR IS NOT A MINOR DEVIATION AND TO AWARD THE BIDDER (S) WHOSE BID(S) BEST SUIT THE CITY'S NEED FOR THE PRODUCT BEING PURCHASED.

### **GENERAL:**

**BIDDERS SHALL SUBMIT ONE(1) COMPLETE ORIGINAL AND TWO (2) COMPLETE COPIES OF THE BID AND ALL DATA.**

ALL EQUIPMENT AND/OR SUPPLIES LISTED IN THIS BID SHALL BE NEW, UNUSED, FIRST LINE QUALITY, MANUFACTURER'S LATEST MODEL AND READY FOR IMMEDIATE SERVICE.

THE MANUFACTURER SHALL CONFORM TO THE BEST PRACTICE KNOWN TO THE INDUSTRY IN DESIGN, QUALITY OF WORKMANSHIP AND MATERIAL, AND BE SUBJECT TO THE SPECIFICATIONS IN FULL. SHOULD THE MANUFACTURER'S CURRENT PUBLISHED DATA OR SPECIFICATIONS EXCEED THE CITY'S SPECIFICATIONS, THEY SHALL BE CONSIDERED MINIMUM AND FURNISHED.

### **PRICING TERMS:**

PRICE(S) BID SHALL BE FIRM FOR A MINIMUM PERIOD OF NINETY (90) DAYS FROM BID OPENING DATE ALTHOUGH A FIRM PRICE PERIOD OF ONE (1) YEAR IS DESIRABLE.

**THE CITY WILL NOT ACCEPT BIDS BASED ON PROGRESSIVE PAYMENTS.**

PAYMENT WILL BE MADE IN APPROXIMATELY THIRTY (30) DAYS AFTER RECEIPT AND ACCEPTANCE OF VEHICLE(S) WHEN POSSIBLE.

### **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.

**CONTRACT AND PERFORMANCE BOND:**

THE SUCCESSFUL BIDDER WILL BE REQUIRED TO ENTER INTO CONTRACT WITH THE CITY IN ACCORDANCE WITH ITEM 15 OF THE **GENERAL TERMS AND CONDITIONS** AS PRINTED ON PAGE 4.

**BID BOND:**

A CERTIFIED OR CASHIER'S CHECK OR BIDDER'S SURETY BOND, IN THE SUM OF **\$ 5,000.00** WILL BE REQUIRED FROM EACH BIDDER TO BE RETAINED AS LIQUIDATED DAMAGES IN THE EVENT THE SUCCESSFUL BIDDER FAILS, NEGLECTS OR REFUSES TO ENTER INTO SAID CONTRACT AND FURNISH THE NECESSARY BONDS, INSURANCE CERTIFICATES, ETC., AS SPECIFIED, WITHIN TEN (10) DAYS FROM AND AFTER THE DATE THE CONTRACT DOCUMENT IS RECEIVED FROM THE CITY OF TULSA LEGAL DEPARTMENT.

**BONDS AND/OR EVIDENCE OF INSURANCE:**

BONDS AND/OR EVIDENCE OF INSURANCE REQUIRED OF THE SUCCESSFUL BIDDER ON THIS BID SOLICITATION MUST DELIVER THESE DOCUMENT TO:

LEGAL DEPARTMENT - CITY OF TULSA  
200 CIVIC CENTER, ROOM 316  
TULSA, OK 74103

EACH BOND OR INSURANCE CERTIFICATE **MUST BE IDENTIFIED WITH BID REQUEST NUMBER OF THIS BID SOLICITATION.**

**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 BRAND NAMES 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 MANUFACTURER, 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 EMPLOYEES 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 NONDISCRIMINATION 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 IN EVERY SUBCONTRACT OR PURCHASE ORDER OVER \$10,000, SO THAT THE PROVISIONS WILL BE BINDING UPON EACH SUBCONTRACTOR OR VENDOR.

## **NOTE ON THE FOLLOWING SPECIFICATIONS:**

### **BIDDERS MUST COMPLETE EVERY SPACE IN SECTION 2, BIDDER'S PROPOSAL COLUMN.**

THE BIDDER MUST GIVE A DESCRIPTION OF THE ITEM BID INCLUDING DETAILS (SUCH AS SIZES, CAPACITIES, DIMENSIONS, MODEL NUMBERS, ETC.) AS REQUIRED TO SHOW COMPLIANCE WITH BID SPECIFICATIONS.

SIMPLY WRITING THE WORD "COMPLY" OR PUTTING A CHECK MARK ON EACH LINE IS NOT SUFFICIENT. THANK YOU.



**BIDDERS MUST COMPLETE EVERY SPACE IN SECTION 2, BIDDER'S PROPOSAL COLUMN.**

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<u>ITEM</u>	<u>SPECIFICATIONS (MINIMUM)</u>	<u>BIDDER'S PROPOSAL</u>
	K. Additional items to be included shall be:	_____
	1. Cigar lighter	_____
	2. Tilting hood	_____
	3. AM/FM radio (factory installed)	_____
	4. Tinted glass throughout	_____
	5. Grab handles both sides of cab	_____
	6. Mud & snow spare tire and Wheel	_____
	L. Floor mat: full floor coverage as per manufacturers standard.	_____
ENGINE:	A. Fuel type: diesel.	_____
	B. Not less than 8.7 liter.	_____
	C. The horse power shall be 300 H.P. @ 950 ft lb Torque.	_____
	D. The displacement shall be 530 cubic inch.	_____
	E. The water separator shall be in-line, Racor 30 micron or equal with heater and warning light.	_____
	F. 110 Volt, 1250 watt block heater to be included.	_____
	G. The engine hour meter shall be mounted inside the cab.	_____
	H. The exhaust system shall be vertical with a 90° elbow at the top of exhaust pipe.	_____
TRANSMISSION:	A. The transmission type shall be automatic.	_____
	B. It shall be electronic five- (5) speed, with overdrive.	_____
	C. The manufacturer shall be Allison.	_____
	D. The model number shall be MD3066.	_____
	E. Fluid cooler shall be required.	_____
	F. Electronic programming shall be set up to accommodate the truck body requirements.	_____
COOLING SYSTEM:	A. Radiator shall be the largest capacity available from the manufacturer.	_____
	B. A coolant recovery system shall be included.	_____
	C. Air fan shall be included.	_____

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<u>ITEM</u>	<u>SPECIFICATIONS (MINIMUM)</u>	<u>BIDDER'S PROPOSAL</u>
ELECTRICAL SYSTEM:	A. Electrical system: 12 volt system. B. The number of batteries required for application with the C.C.A. being at least 900 each. C. Alternator amp hr. shall be 100. D. Include all lights and reflectors to comply with all federal and Oklahoma state laws for 24-hour operation on all highways. E. Must provide Mfgr's Separate Electronic Junction Box for Additional Wiring of Body Attachments.	_____ _____ _____ _____ _____ _____ _____ _____
BRAKE SYSTEM:	A. Service brakes shall be full air system all axles, _____ heavy - duty Air brakes, Front cam 16.5" X 6" Air brakes- Rear cam 16.5" X 7". B. The parking brake shall be spring type with release valve both rear axles. C. Air pressure gauge and alarm to be included. D. Air compressor shall be 13.2-CFM compressor with air dryer and a pull chain. E. Must include brake dust shields	_____ _____ _____ _____ _____ _____ _____ _____
STEERING:	Dual power steering.	_____
SUSPENSION:	A. Front axle shall 20,000-lb. B. Front springs shall have 20,000-lb. Multi-leaf C. Rear springs shall be 40,000-lb. at pad. D. Rear axle capacity shall be manufacturer's standard for the GVWR. E. Rear axle ratio shall be governed to 65-mph. F. Rear axle manufacturer and stock number shall be Hendrickson RT2-400 (54" Axle Spacing) G. Shocks shall be heavy-duty, front. H. The wheel seals shall be wet type on front and _____ C.R. Scotseal for rear. L. Driver controlled main locking differential in forward and rear drive axles.	_____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____

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<u>ITEM</u>	<u>SPECIFICATIONS (MINIMUM)</u>	<u>BIDDER'S PROPOSAL</u>
FRAME:	A. Section modulus shall be 27.0. B. Yield strength shall be 120,000 psi. C. The rbm shall be 3,240,000-lb.	_____ _____ _____
WHEELBASE:	Shall be compatible with equipment being bid.	_____
WHEELS:	A. Front size shall be 22.5 X 12.25. B. The front type shall be 10-hole budd. C. The rear size shall be 22.5. D. The rear type shall be 10 hole budd.	_____ _____ _____ _____
TIRES:	A. Front size shall be 425/65R 22.5 18 ply. B. The front tread shall be highway tread C. The rear size shall be 11R22.5 14 ply. D. The rear tread design shall be mud and snow. E. Mud flaps	_____ _____ _____ _____ _____
FUEL TANKS:	A. The capacity shall be 80 gallons total, minimum. B. The type and construction shall be steel C.. Bidder must specify if any fuel tank exhaust, air dryers, etc. are mounted in such a way as to protrude behind the cab or rearward of cab on the frame.	_____ _____ _____ _____ _____
UNDERCOATING:	Undercoating: per city of Tulsa standard specification number 000001.	_____ _____
PAINT:	Paint shall be manufacturer's standard white.	_____
BUMPERS:	A. Front bumper shall be 3/16" formed steel B. Frame mounted tow loop shall be attached to the front frame. C. Frame mounted tow loop in rear.	_____ _____ _____
VEHICLE HEIGHT:	State the overall height of the vehicle	_____ _____
ADDITIONAL:	A. Dual air horns if available. B. Three (3) parts manuals. F. Three (3) service manuals.	_____ _____ _____









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<u>ITEM</u>	<u>SPECIFICATIONS (MINIMUM)</u>	<u>BIDDER'S PROPOSAL</u>
HOSE REEL:	<p>A heavy-duty hose reel having a minimum capacity _____ of 800' of 1" I.D. high pressure hose shall be _____ mounted to the truck frame in the front of the truck _____ cab. The hose reel assembly will tilt to provide _____ clearance for tilting of the truck hood/fender _____ assembly. Hose reel must positively lock into any _____ position within its range of movement. Hose reel _____ shall have the ability to extend and rotate 270 _____ degrees front of the truck. A level wind guide shall _____ be provided to guide hose onto hose reel and shall _____ be equipped with rollers to prevent scuffing of the hose. _____ Footage counter(s) shall be installed on the reel, _____ readable from both sides of the reel. The unit shall _____ be furnished with 800' of 1" I. D. high-pressure hose _____ (2,500 psi working pressure). The manufacturer must _____ be Aeroquip, Inc. _____</p> <p>Hose reel will be driven hydraulically _____ with forward, reverse and adjustable speed controls _____ located on the reel so that the hose reel may be _____ operated from either side of the truck. _____</p> <p>The following joysticks/knobs/gauges/are located on _____ the operator's station at the hose reel: _____</p> <ul style="list-style-type: none"> <li>Boom Extend/Retract _____</li> <li>Water Pump (Rodder) On/Off _____</li> <li>Auxiliary Engine Start/Stop &amp; Throttle _____</li> <li>Hose Reel-Out/Reel-In lever control _____</li> <li>Hose Reel-Telescope-in/Telescope out _____</li> <li>Auxiliary Engine RPM _____</li> <li>Boom Direction (Left, Right, Up, Down) _____</li> <li>Multiflow variable GPM _____</li> <li>Hose Reel Rotation Lock/Unlock _____</li> <li>Vacuum Relief _____</li> <li>Hose Footage Counter _____</li> </ul>	
VACUUM SYSTEM:	<p>A. The vacuum system provided must be a _____ dual fan centrifugal _____ compressor. The fan construction is to be of ¼" _____ aluminum with hard chrome plated cast aluminum _____ radial blades riveted in place. 38" diameter. _____</p> <p>B. Tests must be performed at the manufacturer's _____ maximum recommended speeds for continuous _____ operation with no evidence of fan cavitation by sound _____ or through overheating of the fan housing. _____</p>	







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<u>ITEM</u>	<u>SPECIFICATIONS (MINIMUM)</u>	<u>BIDDER'S PROPOSAL</u>
MISCELLANEOUS: (CONT'D)		
	and at rear of vehicle)	_____
	C. Adequate hydraulic reserves are to be provided to operate all hydraulic functions at operating pressures and temperatures, and there must be a provision in the design of the unit to assist maintenance or operations personnel in the field to overcome hydraulic failure via a relief mechanism. All hydraulic hose and couplings are to be of industrial grade and meet all pressure and temperature requirements to provide complete safety to operating and maintenance personnel. Unit shall include hydraulic shut-off valves on suction returns and filter lines,	_____ _____ _____ _____ _____ _____ _____
	Paint is to be white matching color of chassis.	_____
	D. Tow hooks are to be mounted at the front and rear of the chassis.	_____ _____
	E. A lube manifold kit is to provide lubrication lines to rear door locks, debris box door hinges, debris body hinge, load level indicator, boom hinge pin and cylinder debris body hoist cylinder, and boom sleeve.	_____ _____ _____ _____
	F. Install 1-18"x36"x 82" sealed and locking storage box behind cab with adjustable shelf. Boxes to be paddle type lock, keyed alike with 2 keys	_____ _____ _____
	G. Install 36"x18"x18" (or equivalent area) sealed and locking tool and accessory box. One on each side of unit with dry decking. Storage boxes to be paddle type lock, keyed alike with 2 keys.	_____ _____ _____
OPERATOR TRAINING:	Training is to be conducted by a factory trained representative for a minimum of 1 day (8 hours) at delivery site.	_____ _____ _____
PUMP OFF SYSTEM:	Pump off system by which excess water can be pumped back to the manhole. The system shall consist of a hydraulically driven trash pump mounted in the debris body and plumbing to an exterior gate valve. The pump must be able to pass 3" solids and rated at a minimum of 450gpm. The pump is to be located at the front curbside of the debris body and contained in an expanded steel mesh housing. 25' of discharge hose is to be supplied.	_____ _____ _____ _____ _____ _____ _____ _____

**BIDDERS MUST COMPLETE EVERY SPACE IN SECTION 2, BIDDER'S PROPOSAL COLUMN.**

THE BIDDER MUST GIVE A DESCRIPTION OF THE ITEM BID INCLUDING DETAILS (SUCH AS SIZES, CAPACITIES, DIMENSIONS, MODEL NUMBERS, ETC.) AS REQUIRED TO SHOW COMPLIANCE WITH BID SPECIFICATIONS.

<u>ITEM</u>	<u>SPECIFICATIONS (MINIMUM)</u>	<u>BIDDER'S PROPOSAL</u>
NOZZLES AND GUIDES:	Rodder Nozzle assemblies and hose guides as follows: _____	
	1. 30 degree, 6 rearward jets. _____	
	2. 15 degree, 6 rearward and 2 forward jets. _____	
	3. 15 degree, 6 rearward and 1 forward jet. _____	
	4. 1" Rotating nozzle - 4 jets (3 rearward thrust and _____ one 45° forward. _____	
	5. 6" diameter, weighted nozzle guide assembly with _____ greasable swivel connection and leader hose. _____	
	6. 10' x 1" leader hose - double steel braid _____	
	7. 60 lb., 8 rearward bottom jets with swivel and fins _____ _____	
	to keep assembly in bottom of pipe for cleaning _____ 24" to 60" pipes. _____	
	8. Two flexible hose guides with clamps and _____ restraining ropes for protection of the rodder hose. _____	
	9. One 80 GPM dual angle sand and sludge nozzles _____ combined with replaceable carbide inserts with _____ ten rear facing jets with dual angles for maximum _____ performance and power. _____	
	10. One 80 GPM nozzles with 6 rearward and 2 _____ forward facing jets. _____	
	11. One 80 GPM 12" narrow nozzle support/guards _____ and two 12" wide nozzle support/guards all _____ 1" in diameter. _____	
	12. One 80 GPM penetrating nozzles for 1" hose size, _____ 14 degree , 5 rear jets, 4-7/8" in length. _____	
	13. One 80 GPM nozzles that are for 1" hose size, _____ 30 degree angle, 6 rear jets, 4-1/2" long. _____	
	14. One 80 GPM storm nozzles that are for 1" _____ hose size, 15 degrees/front, 35 degrees/rear, _____ 8 front jets, 8 rear jets 20-1/2" in length. _____	
	15. One 80 GPM nozzles for 1" hose size, _____ 20 degrees, 12 replaceable rear jets, _____ 19-1/4" in length. _____	
	16. One 80 GPM wash down nozzles for 1" hose, _____ 8" in length. _____	
	17. One 80 GPM fin style nozzle extensions for _____ 1" hose, 1" fins 14" in length. _____	

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<u>ITEM</u>	<u>SPECIFICATIONS (MINIMUM)</u>	<u>BIDDER'S PROPOSAL</u>
HOSE REPAIR TOOL:	A manually operated hose swedging tool for installation of hose ends, equipped with a quick-mount on front bumper. Twenty (20) swedge type hose end fittings and ten (10) swivel connectors, compatible with rodder hose shall be supplied.	_____ _____ _____ _____
HYDRAULIC ROOT SAWS:	A root cutter kit designed to clean sewers from 6" to 20" in diameter. The skid assembly positions the root cutter in the middle of the sewer line creating quick and efficient sewer cleaning. 8" to 15" cutter blades to be included.	_____ _____ _____ _____
ACCESSORIES:	1. Jet Digger attachment. A steel crown adapter with high pressure six nozzle jets located in a water ring assembly, located at 90 degrees to the vacuum hose and angled to the ground with the vacuum running and the water system on. The operator be able to dig and vacuum material at the same time. this attachment should be allowed to be clamped to the vacuum hose and quick connected to the hand gun circuit. 2. Underwater Debris Nozzle ( Snorkel Kit ). This nozzle shall aid in removing debris that is completely submerged under water. It shall be an adapter for the conveyance vacuum system. The kit shall include 1', 3', 5' suction nozzles, a 1' pipe extension, and an 8" I.D. airflow adapter with clamps.	_____ _____ _____ _____ _____ _____ _____ _____ _____
WARRANTY:	Manufacturers standard Warranty. To include all warranty certificates explaining in detail the length and scope of all warranties.	_____ _____ _____
MSO:	Bidder shall provide a Manufacturer's Statement Of Origin and Oklahoma Application for Title with the unit.	_____ _____

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MANUALS: Two sets of Parts, Service, and Operators manuals \_\_\_\_\_  
Shall be supplied with the unit. \_\_\_\_\_

**THE BIDDER SHALL DELIVER EQUIPMENT FULLY ASSEMBLED AND OPERATIONAL WITH ALL FLUIDS SUCH AS OIL, FUEL, BATTERIES, FENDERS, WHEELS, ETC. INSTALLED UPON DELIVERY. NO CRATED OR NON-OPERATIONAL EQUIPMENT REQUIRING ASSEMBLY OR ADJUSTMENTS OF ANY KIND SHALL BE ACCEPTED. BIDDER WILL BE REQUIRED TO OPERATE THE EQUIPMENT AND DEMONSTRATE ALL FEATURES AND OPERATIONAL MODES TO THE CITY OF TULSA PERSONNEL. BIDDERS SHALL SUPPLY ADDRESSES AND TELEPHONE NUMBERS OF THE LOCAL QUALIFIED DEALER THAT WILL PERFORM WARRANTY AND SERVICE. THOSE DEALERS SHALL BE CONTACTED FOR VERIFICATION PRIOR TO AWARDING THE BID. FAILURE TO COMPLY WILL AFFECT THE AWARD OF THE BID.**