BID SOLICITATION



City of Chattanooga 101 East 11th Street, Suite G13 Chattanooga, TN 37402

SEALED BIDS

Mail or submit two (2) signed copies of bid form to this office in the enclosed envelope. Retain one copy for your file.

V	
E N	RFQ
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D	E.
D O	
R	

BID OPENING DATE AND TIME:

13-OCT-16 at 2:00 PM

BID NUMBER: 304451

BUYER:

PHONE #: (423) 643-7230 DELIVERY REQUIRED:

M	City of Chattanooga
A	101 East 11th Street, Suite G13
1	Chattanooga, TN 37402
L	
T	
0	

Item Class-Item Quantity Unit Unit Price Total

Requisition No. 143050 Ordering Dept,: Public Works Buyer: William Tucker Telephone: 423-643-7238 Fax: 423-643-7244

Email: wtucker@chattanooga.gov

Items Being Purchased: Combination Vacuum/Sewer Truck

ATTACHMENTS: Specifications (23 pages)

Instructions to Bidders (2 pages)

*** BIDS MUST BE RECEIVED NO LATER THAN ***

*** 02:00 PM EST on OCTOBER 13, 2016 ***

SEALED BIDS: All Bids must be delivered to the Purchasing Office in a sealed envelope on or before

the time and date specified above.

DO NOT email or fax your bid; such bids cannot be considered.

PRE-BID CONFERENCE: A non-mandatory pre-bid conference will be held at 10:00 AM on Friday, October 7, 2016, in the Training Room, Paul Clark Building, 900 East 11th Street,

Chattanooga, TN.

For delivery to:

Fleet Management, Division I 12th Street Garage 900 East 12th Street Chattanooga, TN 37403

Delivery Contact: Sharon Smith, Tel 423-643-6846

****** ALL ITEMS MUST BE QUOTED F,O.B, DESTINATION **

City of Chattanooga Terms and Conditions are incorporated herein by Reference, and are posted on the City's Website at http://www.chattanooga.gov/general-services/purchasing/standard-terms-and-conditions.

If you cannot download, call buyer for a copy.

NOTE: ALL BIDS MUST BE SIGNED

All bids received are subject to the terms and conditions contained herein and as listed in the above referenced website. The undersigned Bidder acknowledges having received, reviewed, and agrees to be bound to these terms and conditions, unless specific written exceptions are otherwise stated.

Any manufacturer's names, trade names, brand names, or catalog numbers used in the specifications are for the purpose of describing and establishing general quality levels. Such references are not intended to be restrictive. Bids will be considered for any brand which meets or exceeds the quality of the specifications listed for any item.

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A	101 East 11th Street, Suite G13
1	Chattanooga, TN 37402
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0	

Item	Class-Item		Quantity	Unit	Unit Price	Total
waive any informali	ooga reserves the right to reject any and/or all bids, ties in the bids received, and to accept any bid whiche for the best interest of the city.					
The City of Chattar goods and services	ooga will be non-discriminatory in the purchase of a	all				
Vendor Contact Info	ormation:					
Vendor Name						
Contact Person						
Tel						
Fax						
Email						
Street Address or F	PO Box					
City, State, Zip	************					

NOTE: ALL BIDS RECEIVED ARE SUBJECT TO THE TERMS AND CONDITIONS

ALL BIDS MUST BE SIGNED – The undersigned offers the above quoted prices under the conditions contained herein.

Bids will be received at the above mentioned address.	
TERMS OF PAYMENT:	

TELEPHONE NUMBER: __

COMPANY:	_
SIGNATURE:	
NAME AND TITLE:	

BID SOLICITATION



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0		
R		

BID OPENING DATE AND TIME:

13-OCT-16 at 2:00 PM

BID NUMBER: 304451

BUYER:

PHONE #: (423) 643-7230 DELIVERY REQUIRED:

MAILTO

City of Chattanooga 101 East 11th Street, Suite G13 Chattanooga, TN 37402

Itom	Class-Item	Quantity	Unit	Unit Price	Total
Item				Omi Frice	iotai
1	Combination Vacuum/Sewer Truck	1	Each		
-					

NOTE: ALL BIDS RECEIVED ARE SUBJECT TO THE TERMS AND CONDITIONS

ALL BIDS MUST BE SIGNED – The undersigned offers the above quoted p	orice
under the conditions contained herein.	

The City is Exempt from all Federal and State Tax.	under the contained contained nerons.
Bids will be received at the above mentioned address.	COMPANY:
TERMS OF PAYMENT:	SIGNATURE:
TELEPHONE NUMBER:	NAME AND TITLE:

City of Chattanooga Public Works Department City Wide Services Division

Specifications for One (1) New and Unused Current Production Combination Vacuum/Sewer Truck

INTRODUCTION

These specifications describe the vehicle and accessories to be purchased by the City of Chattanooga City wide Services Division, Public Works Department. These specifications consist of three parts: (1) Required Features – these requirements must be met without exceptions for a bid to be considered acceptable, (2) Preferred Features – attributes/performance that the City wants; however, exceptions to Preferred Features are allowed with explanation (The more Preferred Features that are met by a bid, the better the bid.), and (3) Options – additional features/conditions that are optional (i.e., may or may not be offered by Suppliers and may or may not be purchased by the City); Options are to be priced as separate line items.

These specifications are intended to be flexible enough for all Suppliers to bid competitively. Any specific brand names or part numbers used herein are for the purpose of describing and establishing general quality levels. Such references are not intended to be restrictive. Bids will be considered for any brand which meets or exceeds the quality of the specifications; documentation of 'equal to or better' is required.

BASIS FOR AWARD

This purchase is primarily a low price competition among acceptable bids (i.e., those bids from responsible bidders meeting all Required Features). However, the City will accept the Best Bid meaning, in this context, the lowest bid that provides the most Preferred Features and Best Value. Options (if offered by Suppliers) will be priced separately and accepted or not at the City's sole discretion.

REQUIRED FEATURES

GENERAL

- 1. The entire vehicle/apparatus is to conform to D.O.T., FMVSS, NFPA, and OSHA and to the requirements of all other applicable regulatory agencies.
- 2. Parts not specifically mentioned that are necessary to furnish a complete chassis or body/apparatus must have been produced using the automotive industry's best manufacturing practices. This pertains to design, quality of materials and workmanship.
- 3. Loose and miscellaneous equipment is to be provided only as required by D.O.T and specifications.
- 4. Each bid is to be accompanied by a set of manufacturer's and, as applicable, vendor's specifications. These are to consist of a detailed description of the proposed vehicle/apparatus and equipment. The specifications are to indicate size, type, model and make of all component parts and equipment. A CAD drawing of the proposed vehicle indicating wheelbase, Cab to axle and Cab to end of frame measurements is desired. All weights and horsepower/torque, transmission ratios, and axle ratios shall be approved by engineering per vehicle manufacturer to include all detachable components and operations.
- 5. All warranties will be listed with specific details as to time, including any and all exclusions. No warranties can be Terminated or canceled for any reason during the warranty coverage as stated in bid where specified. No travel or drive time for warranty work will be paid while under any manufacturer's warranty.
- 6. All power train components, assemblies, subassemblies, and component parts will be designed and constructed with due consideration to the nature and distribution of the load to be sustained and to the general character of the service for which the vehicle is designed and will be subjected to when placed in service. All parts of the vehicle will be strong enough to withstand the general service under full load. The vehicle will be so designed that the various parts are readily accessible for lubrication, inspection, adjustment and repair.

- 7. All vehicles will be supplied with a line sheet to include as-built and current part numbers of any and all components installed on vehicle.
- 8. The specified vehicle will be capable of reaching and maintaining a minimum speed of 20 MPH on any grade up to and including 25% or 15 degree grade. The vehicle will be capable of attaining a true speed of 35 MPH in 25 seconds on level ground and programmed not to exceed 68 MPH.
- 9. Factory service manuals, electrical schematics, Hydraulic schematics and component locators are to be supplied for body and chassis.

10. Radio Requirements in Cab:

A. 20 amp circuit power and ground shall be provided with an additional 4 amp ignition feed.

B. RG58 Antenna cable with 800 MHz NMO mount and mini UHF connector.

The Motorola cable part numbers are below:

HAF4013B coax cable includes NMO connector and "Dixie Cup" style antenna

HLN6863B Accessory and fuse holder assembly

HKN4192B Power cable

WARRANTY REQUIREMENTS

- 1. Warranty period shall be for two (2) years on the Engine and Axles, one (1) Year on Cab and Chassis, three (3) Years Transmission. The body shall have a one (1) year, Water pump Five (5) year, Debris tank and Water Tanks shall have a Lifetime warranty. All pumps, cylinders, electrical components, Valves and PTO shall have a Minimum of one (1) Year with No exceptions, excluding wear items.
- 2. Bidder shall include copy of warranty terms and conditions with the bid.

- 3. All warranty registrations will be completed by Vendor and copies provided upon delivery. All warranties will begin on any and all components on the in-service date or delivery date if no special training is needed to begin operating vehicle.
- 4. Vendor must have a service facility within a 50 mile radius of Chattanooga.

MY BID MEETS ALL REQUIRED FEATURES: YES	4O	
Signed by Bidder:		
	:9	
Preferred Specifications:		
<u>CHASSIS</u> : Chassis shall be International 7400 series or equal Chassis shall have left and right tow hooks mounted front and rear. GVWR 62,000, Chassis color shall be Viper Red.		NO
ENGINE: Minimum 350 Net SAE horsepower Cumming w/Jacobs Engine brake, water-cooled, diesel engine with 1000 lb/ft of torque. Donaldson dry-type air filters with restriction indicator. 1. Shall include automatic engine shutdown with alarm and activated)	
by low or high engine oil pressure and high coolant temperature	****	- District
2. Engine shall meet or exceed the CARB certified, current emissions standards		
3. Anti-freeze -40 degrees protection extended life coolant		Desired.
4. Fan Clutch	WDDWS:	20000
5. Single stage air filter	X8324	30-30-00-00-00-00-00-00-00-00-00-00-00-0
6. Shall have silicone radiator hoses and heater hoses	U1112	

TRANSMISSION:

1. Transmission shall be automatic Allison 3000 RDS 5-speed		петег	
2. Transmission shall meet engine hp & torque rating			auau
3. Push button controls dash mounted		****	200
4. Shall have synthetic automatic transmission fluid			-775.5
5. Transmission TCM mounted inside cab (NO EXCEPTIONS)			
6. PTO location right side of transmission		******	*****
7. Oil cooler for transmission (Modine) water to oil type			*****
FUEL TANK:			
1. Shall have a single 100 gallon fuel tank mounted LH side alum		TRAFE	
2. Shall have fuel/water separator frame or engine mounted		<u> Booker</u>	
3. Fuel cooler mounted in front of cooling module		(MARKED)	
<u>Cab:</u>			
1. The Cab shall be a conventional cab design	*****	*****	
2. Interior color shall be grey			
3. Exterior color shall be white			
4. Shall include factory installed air conditioning and heater			
5. Shall have an electronic PTO activations switch, IP mounted			
6. The driver's seat shall be factory installed air ride, high back bucket			
7. Passenger seating factory installed air ride, high back bucket			
8. Shall have all vinyl seat cover and trim			
9. Shall have intermittent windshield wipers			
10. Shall include cup holders			
11. Shall have rubber floor mats black in color throughout cab	*****	Lake -	
12. Shall have heated outside driver and passenger side mirrors, with spo	t		

mirrors. West coast type 7" x 16" with LED light and powered	*******	****	
13. Parking brake alarm system, electric horn sounds in repetitive			
manner when vehicle park brake is not set and driver door opened			
14. Shall have tinted windows	(NAME	(*******)	
15. Shall have tilt steering wheel		*****	
16. Shall have electric windows and locks		1001000	
17. Shall have a AM-FM/CD/Blue tooth stereo radio-electronically tuned			
display, clock, seek-scan, and 2 speakers	VICTORIA V		
18. Shall have power steering			
BRAKE SYSTEM:			
		YES	NO
1. Air dual system for straight truck applications		HANDE?	******
2. Air brake ABS full vehicle wheel control system (4-Channel)		*****	i snonzi
3. Automatic slack adjusters front and rear			
4. Front brakes Air disc 22.5 with 18" brake chambers w/extended			
Service air disc type brake pads, size 22.5		HAMES.	епепе
5. Rear brakes Air disk 22.5 with 20' brake chambers w/ extended			
Service air disc type brake pads, 22.5		2000-0-	*****
6. Meritor Wabco air dryer with heater		HEREN.	
7. Automatic drain valve with heater for air tank			
8. Air compressor 18.7 CFM capacity			*****
9. Dust brake shields front and rear brakes		**************************************	
10. Parking brake control yellow knob, located on IP		20000	

EXHAUST SYSTEM:

1. Single, horizontal, after treatment device frame mounted right side		
Under cab includes single vertical tail pipe back of cab with special		
Temperature control for stationary applications		
2. Switch for exhaust ON'/OFF type, inhibits diesel particulate filter regeneration	n	
As long as switch is in on position		
2. Engine Compression brake (Jacobs) with on off switch		22002
3. Stop-Light wiring modified stop-lights turned on when engine compression		
Brake is activated	(******	Samuel
ELECTRICAL:		
1. Alternator shall be 160 amp or greater		
2. Shall include 3- 925 CCA batteries 12 Volt	(****	****
3. Shall be standard 12-volt system	S alans a	nones.
4. Back up alarm electric 102 DBA	(<u></u>)	
5. Starter switch key operated	-	****
6. Windshield wiper switch 2-speed with wash and intermittent feature		
And forces wipers to slowest intermittent speed when park brake set	(<u>111141</u>)	
7. Single electric horn	NAME OF THE OWNER OWNER OF THE OWNER OWNER OF THE OWNER OWNE	
8. Windshield wipers single motor electric		
9. Jump start stud located on positive terminal of outermost battery	****	
10. Stop, turn, tail & back up lights dual, rear LED		×====
11. Turn signal switch self-cancelling		
12. Clearance marker lights (5) LED amber	(anoma	*****
13 Starting motor 12 volt		0110000

14. Headlights 2 light system halogen	****	MANAGE
15. Air horn	(energy)	511013
16. Block heater 120 volt/1000 watts		enses
17. Block heater socket located below driver's door	- 	
18. Battery cut off with lock out system (cole-herse)	- HANNE	20202
19. Test exterior lights for pre-trip inspection cycle all lights except backup	10000000	252020
20. Headlights on with wipers will turn if windshield wipers are turned on	*****	
21. Parking brake alarm electric horn to sound when vehicle park brake in		
Not set with ignition "OFF" and any door opened	22222	
22. Battery warning green battery on indicator, mounted left side of IP, to be		
Used with factory installed battery disconnect switch	Spanne	
23. Low coolant level with audible alarm		
24. Circuit breakers manual-reset with trip indicators	****	*****
25. Two (2) Remote power module modules mounted inside cab behind seat		
(NO EXCEPTIONS) with 12 latched switch's mounted in dash from factory		41212 5
FRONT END:		
1. Front axle shall be 16,000 lbs capacity I-beam type	((*******)	
2. Front taper-leaf springs 16,000 lb capacity with shocks	v alento s	con the fact that the control of the
3. Chrome grill	2 22000 3	
4. Full length front bumper chrome	(HENEK	्यतस्य स्थान
5. Chrome headlight bezel	*****	
6. Synthetic lubricant front bearings		HARAIA)
REAR END:		
1. Shall be single reduction with 46,000 lbs capacity driver controlled locking		
Differential in rear-rear axle		2000

2. Axle ratio shall be 5.63- MPH not over 65 by computer setting		
3. Rear suspension Chalmers 854-46H-HS walking beam type with high stability		
Restrictor cans and (8) torque rods less shocks	*****	
4. Differential lock protection: rear axle "MUST" be equipped with a safety	'	
Feature, which shall automatically disengage the locking differential at		
A speed of approximately 20 MPH		
WHEEL BASE:		
1. The wheel base shall be contingent on body	· manne	*******
FRAME RAILS:		
1. Channel straight 31.72 SM, 120,000 PSI		-
2. RBM minimum 3,526,000		*****
3. Frame rails to be painted viper red		
4. 10.125" x 3.580" x 0.312" frame rails		
5. Shall have frame mounted tow hooks		-
6. Shall have full "C" channel frame reinforcement		
WHEELS AND TIRES:		
	YES	NO
1. Front wheels 22.5 x 12.25 non-polished aluminum 10 stud	- 	
2. Rear wheels 22.5 x 8.25 steel 10-hole hub piloted white 2 hand hole	-	(<u>-450</u>
3. Front tire 385/65R22.5 XZY-3 Michelin LRJ (NO EXCEPTIONS)		****
4. Rear tire 11R22.5 XZE2 Michelin LRH (NO EXCEPTIONS)	(33777)	

ACCESSORIES:		
1. Must have (3) sets of keys		2040
2. All lighting to meet all OSHA, ANSI, and state requirements and must be in		
Accordance with Motor Vehicle Safety Standard 108. ALL brake, turn, tailligh	ts	
Marker lights and strobe lights MUST BE LED		HANNE
3. (4) alternating flashing LED lights amber in color mounted on front grill		755555
4. Truck chassis to be multiplexed wiring		HEADER (
5. NMO Cable MUST be routed through mirror arm and inside cab with		
It mounted on mirror arm	Programme de la companya de la comp	
6. 20 amp continuous circuit power and ground (10 gauge wires for both)		
Shall be provided with an additional 4 amp ignition fee		
7. Safety equipment with (2) fire extinguishers Mounted		THE SERVICE
MOBILE CATCH BASIN AND HIGH VELOCITY COMBINATION	I SEW	/ER CLEANER
General: B-10/1450		
The system described herein consists of one new mobile se cleaning machine. The system shall be capable of simultaneous line cleaning/flushing and air/vac pick up of all liquids and solids fibasins. This simultaneous operation will provide for maximum vacuum at an engine speed not to exceed recommended RPM alloreserve horsepower from the engine. Controls for all functions shrear operator's station.	s high rom so n wate owing	pressure sewer ewers and catch or pressure and for an adequate
1.0 DEBRIS STORAGE TANK		
1.1 - The debris tank volume shall be 10 cubic yards (2020 gayards minimum usable capacity.	allons	s) and 9 cubic
Comply (Yes) (No) Will supply		

	Comply	(Yes)	(No)	Will supply
3 -	steel to The tank	withstand a va k bulk heads s ks, which requ	acuum of not hall be 3/8" l	s shall be constructed from A/36 1/4" It less than 360 column inches of water. Bubble type. The use of square, oblong Iteel plates and additional welding, will no
	Comply	(Yes)	(No)	Will supply
4 -		tire debris ta ic dumping at		hinged at the rear and designed f
	Comply	(Yes)	(No)	Will supply
5 <i>-</i>		e of hydraulid ank will not be	-	oses and/or internal baffles inside ti
	Comply	(Yes)	(No)	Will supply
6 -		•		rmanently attached beneath rear door ar of the tank when dumping.
	Comply	(Yes)	(No)	Will supply
7 -	and clos discharg power c	se to a 90-deg ged debris. Th lose hydrauli	ree angle to nis shall be a c cylinder.	hinged rear door shall hydraulically ope eliminate dragging the door through th accomplished by means of a power ope For ease of maintenance, cleaning an loors will be considered unacceptable.
	Comply	(Yes)	(No)	Will supply
			ol by a hea	avy-duty rubber seal attached to ti
8 -	debris		als attached	to the door will not be accepted due

	The use one hydra	of high maintei	nance mecha that require ma	ximum safety to oper anical linkage systems anual adjustment or sy unacceptable.	s, operated from
	Comply	(Yes)	(No)	Will supply	
rear d	loor to inc		el. High main	sight eyes shall be ins tenance, mechanical ole	
	Comply	(Yes)	(No)	Will supply	
1.11 -	be instal is full, ti	lled inside the d	debris tank to valve shall aut	rubber socket check v prevent over-filling. V tomatically stop the fi m water intake.	Vhen debris tank
	Comply	(Yes)	(No)	Will supply	
1.12 -		al tank prop sha			
	Comply	(Yes)	(No)	Will supply	
adequ	ıate size t			nust pass through a filt n. The screen shall	
	Comply	(Yes)	(No)	Will supply	
1.14 -	with can bottom of for the re rear doo without i	n-lock type coni of the rear door, emoval of exces r area shall allo	nection and st , no higher tha ss liquids. A s w for 80% of c ank. The scree	g gate valve and 10' X forage rack will be loca in 5 feet above ground screen covering a mini debris tank liquids to b en shall pivot during th	ated on the I level to allow mum of ¾ of the se drained off
	Cor	nply (Yes)	(No)	Will supply	
1.15 -		e warranty shal shall be sa		for the debris tank. A the bid.	copy of the
	Comply	(Yes)	(No)	Will supply	

2.0 WATER TANK

2.1 -	- A minimum usable capacity of 1450 gallons supplied for the operation of the sewer flushing system.							
	A 300 gallon tank shall be metallic style, coated steel. The tank shall be an intricate part of the debris tank and manufactured of the same material.							
	4 - 287.5 gallon saddle tanks shall be molded out of 3/8" thick; ultra-violet stabilized stress-reinforced polyethylene. Due to maintenance considerations aluminum tanks, which may dent, or crack, will not be acceptable. All tanks shall be mounted above the chassis frame to eliminate potential road damage							
	Comply	(Yes)	(No)	Will supply				
	A lifetime	•	l be supplied.	A copy of the warranty shall be				
	Comply	(Yes)	(No)	Will supply				
2.3 -		hall provide an al cost for the li		tion of the water tanks at no				
	Comply	(Yes)	(No)	Will supply				
locate swive	2.4 - A water fill system with direct full flow from the water hydrant shall be located at the curbside. The 2.5 in National Standard Fire thread female swivel connection shall be provided for the complete filling of the water tank system.							
	Comply	(Yes)	(No)	Will supply				
potab syster	2.5 - The fill system shall include an air gap anti-siphon design to protect the potable water supply. An anti-splash valve shall be located inside the fill system to prevent spillage from the water tank while in transit. Two water level sight tubes shall be provided at locations visible to the operator.							

	Comply	(Yes)	(No)	Will supply				
opera comp during water	tion of th lete clear g dump n	e water pump wonder of sediment of sediment of sediment of the control of the con	while in the full ot, water tanks quick opening	low dumping of the debris tank and dumped position. To insure a shall also raise with debris body drain in the lowest point of the ng for periodic flushing out of water				
	Comply	(Yes)	(No)	Will supply				
3.1-	3.0 WATER PUMP SYSTEM The system shall include a heavy-duty tri-plex water pump. The pump shall be capable of operating flow from 0-80 GPM and from pressures from 0-2500 PSI without changing nozzles. This pneumatic valve shall allow for water and air pressure to be reciprocally proportional. The airflow shall be switched ON or OFF by means of a 3/2-way solenoid valve whereas air pressure and in turn the water pressure shall be adjustable by means of an air regulator. This shall be accomplished by using a pneumatic valve regulator, which is controlled at the rear and side operator stations. Pump shall have a five-year warranty. A copy of the pump manufacturer's							
		•		Will supply				
2.2								
3. ∠ -	without t		•	ich shall allow for easy cleaning nay be cleaned while water tanks are				
	Comply	(Yes)	(No)	Will supply				
3.3 -	•	•		e chassis frame and forward of the gh roads and off road travel.				
	Comply	(Yes)	(No)	Will supply				

shaft Engag at the high	power tal gement/di operator maintena	ke off, and a var isengagement o 's station via d	riable speed "l ean be accon lual clutch PTC drives, auxilia	he water pump via a heavy duty split Kevlar" reinforced Poly Chain. Iplished either from inside the cab or D. The use of low cost transfer cases, ry engines or standard cogged
	Comply	(Yes)	(No)	Will supply
3.5 -	-	ngagement/dise n rear of truck a		all be by means of a toggle tation.
	Comply	(Yes)	(No)	Will supply
3.6 -	be provid		s located on w	n the pump system for storage shall vater pump shall also be supplied to
	Comply	(Yes)	(No)	Will supply
3.7 -	_	three-way wate I by a manual le		valve shall be provided and rator's station.
	Comply	(Yes)	(No)	Will supply
press		valve set at ma		all be designed in 1 in I.D. with a ing pressure of 2500 PSI and
	Comply	(Yes)	(No)	Will supply
3.9 -	include a PSI.	a quick connect	hose fitting w	ne primary water pump system and vith a pressure relief valve set at 800
	Comply	(Yes)	(No)	Will supply
3.10 –	provided			un rated at 800 PSI will be ssure hose mounted on a
	Comply	(Yes)	(No)	Will supply

4.0 AIR VAC SYSTEM

4.1 -	exhaust	er. This syster water pressur	n shall be cap	aisplacement rotary lobe type hable of a minimum 217 inches o II. Air conveyance systems are	
	Comply	(Yes)	(No)	Will supply	
4.2 - oil le	means o	tion for the pos of self-containe	sitive displace ed splash syst	ment exhauster shall be by em with sight eyes provided to	check
	Comply	(Yes)	(No)	Will supply	
		ng of the vacuus of water at ma		sea level will be a minimum of	217
	Comply	(Yes)	(No)	Will supply	
trans	fer cases e accepta	, high maintena ble.	ance hydr	or's station. The use of low aulic drives or auxiliary engines Will supply	
		engagement an of truck at ope		ment shall be by means of a n.	toggle
	Comply	(Yes)	(No)	Will supply	
4.6 -	will be in	ncorporated be	tween the ext	oe drum filter and cyclone separ nauster and the debris tank. It s tamination out of the main airflo	hall be
	Comply	(Yes)	(No)	Will supply	
4.7 -		unloader valve high negative		t into the vacuum system to	
	Comply	(Yes)	(No)	Will supply	

4.8 -	A vacuu	m/pressure gad	uge shall be s	upplied at the operator's station.
	Comply	(Yes)	(No)	Will supply
4.9 -		igning connect shall be supplie		he debris tank and the air-vac
	Comply	(Yes)	(No)	Will supply
5.0 S	UCTION II	NTAKE BOOM		
hose	heavy-d periodic	uty wire reinfor rotation to pre	ced rubber ho vent prematur	nrough a one (1) piece 8" extra use assembly that allows for re wear of the entire assembly. Boom rs that cannot be rotated are
	Comply	(Yes)	(No)	Will supply
5.2 -	The boo	m shall rotate a	a minimum of	360 degrees by a gear drive.
	Comply	(Yes)	(No)	Will supply
5.3 -	A boom	coverage diagı	ram shall be s	upplied with the bid.
	Comply	(Yes)	(No)	Will supply
5.4 -				alve shall be controlled by a cation around the machine
	Comply	(Yes)	(No)	Will supply
5.5 -				aulic cylinders to a minimum of 23 ft. n height of 19 ft.
	Comply	(Yes)	(No)	Will supply
5.6 -	are by design system stank and gravity b	esign transferre shall allow for r I filling to the re	ed toward the maximum stor ear discharge assis front and	hat when filling, debris tank liquids rear discharge door. This tank intake age of debris starting at front of debris door -creating best possible center of I rear axles for maximum control and
	Comply	(Yes)	(No)	Will supply

	Comply	(Yes)	_ (No)	Will supply
		6.	0 INTERNAL	BOOM VALVE
shall	be suppli		shall pneum	er is supplied, an internal boom valve atically be operated for greater speed
	Comply	(Yes)	(No)	Will supply
airflo	w through	ng the interna h the vacuum lume vacuum	tube allowing	, the operator will completely stop all If the user to build an instantaneous 21 bris tank.
	Comply	(Yes)	(No)	Will supply
				odraft will loosen compacted solid nechanical means.
	Comply	(Yes)	(No)	Will supply
		7.0 DEE	BRIS TANK FI	LUSH OUT SYSTEM
7.1 -	will con	npletely flush	out the debri	lled in the debris tank. These nozzles s, and scour the top, sides, bottom, and ear door.
	Comply	(Yes)	(No)	Will supply
7. 2 -				4) high-pressure nozzle heads. Each er of orifices to clean the entire tank.
	Comply	(Yes)	(No)	Will supply
7.3 -	flexible,	heavy duty, w	ire reinforce	d from the top of the debris tank by d rubber hose to prevent damage within a debris tank to assist in the

	at the fr		wall at the bo	2) additional nozzles shall be mounted ttom to scour the floor of debris tank screen.
	Comply	(Yes)	(No)	Will supply
		8.0) HOSE REEL	ASSEMBLY
8.1 -	rise with being di and requ	n the rear door oumped on the rouire no foot sty	during the dur eel itself. The l le support. Su	ne rear door of the unit. The reel shall one cycle so as to prevent debris from mounting system shall be heavy duty och systems utilizing foot stabilizers o maintenance considerations.
	Comply	(Yes)	(No)	Will supply
8.2 -				to assure adequate ground clearance, behind highway guard rails.
	Comply	(Yes)	(No)	Will supply
8.3 -	The rear	reel capacity s	shall be a mini	mum of 800 feet of 1" I.D. sewer hose.
	Comply	(Yes)	(No)	Will supply
8. 5 -	over the on the c	manhole via a urbside of the i	180 degree ar rear door. The	hydraulically articulate into a position c. The hinge for articulation shall be articulation shall allow the reel to be cated five feet off the curb.
	Comply	(Yes)	(No)	Will supply
8.6 -	push bu	tton at operato	r's panel, (2) p	be accomplished by three means: (1) neumatic foot pedals as to allow wireless remote control.
	Comply	(Yes)	(No)	Will supply
8.7 -		at swivel or rot onsidered as e		ter axis, or require a stability foot will
	Comply	(Yes)	(No)	Will supply

	Comply	(Yes)	(No)	Will supply	
8.9 -		•	_	de with mechanical counter will as n the rear hose reel.	ssist
	Comply	(Yes)	(No)	Will supply	
			9.0 CLEA	NING HOSE	
		shall be deli PSI working		minimum of 600 ft. of 1 in. l.D.	sewer
	Comply	(Yes)	(No)	Will supply	
9.2 -	The unit	shall be sup	plied with a 1	10 ft. flexible leader hose.	
	Comply	(Yes)	(No)	Will supply	
				AUGES AND INSTRUMENTS	
10.1 -	A portai the unit rotation down, p	ble pendant o and operate o with an auto lus telescopi	control with a all power fun matic positio ng in/out, and	AUGES AND INSTRUMENTS quick disconnect shall be attach ctions of the boom. It will include n lock, hydraulic boom movemen d the air-vac internal boom valve. by use of the wireless remote.	e power et up and
10.1 -	A portal the unit rotation down, pa function	ble pendant o and operate a with an auto lus telescopi s shall also b	control with a all power fun matic positio ng in/out, and be controlled	quick disconnect shall be attach ctions of the boom. It will include n lock, hydraulic boom movemen d the air-vac internal boom valve.	e power et up and
10.2 - and lo	A portain the unit rotation down, purishment function Comply Hydraulicower the compless of the	ble pendant of and operate of with an autority telescoping shall also be a controls to debris and we have the controls to be a unit, well for a control of the control of t	control with a all power fun matic positio ng in/out, and be controlled (No) open and cla ater tanks, lo	quick disconnect shall be attach ctions of the boom. It will include n lock, hydraulic boom movemen d the air-vac internal boom valve. by use of the wireless remote.	e power It up and These Is raise The at the

	Comply	(Yes)	(No)	Will supply
10.4 -	Chassis	tachometer		
	Comply	(Yes)	(No)	Will supply
10.5 -	Vacuum	gauge		
	Comply	(Yes)	(No)	Will supply
10.6 -	Hose ree	el speed control		
	Comply	(Yes)	(No)	Will supply
10.7 -	Water pr	essure gauge		
	Comply	(Yes)	(No)	Will supply
		ic actuated eng ation of debris t	•	one at each control panel mounted dump valve.
	Comply	(Yes)	(No)	Will supply
11.1 –	be const with a m steel "T" x 15" x 3	locking, alumi ructed of 100 A irror finish. The latches. Toolb 6", one (1) – 48	num toolboxe ircraft grade d ey shall be sea oox measurem " x 20" x 10" a	SSORIES, STORAGE s shall be provided. The boxes shall liamond plate tread bright aluminum aled and weatherized with stainless ents shall be as follows: one (1) – 72° and one (1) – 24" x 20" x 10".
	Comply	(Yes)	(No)	Will supply
11.2 -	passeng	er side of unit t	o accommoda	provided on both driver side and te one (1) 8" x 6' intake tube, (3) 8" x on tubes and (1) 8" x 3' extension
	Comply	(Yes)	(No)	Will supply
11.3 -				protect the unit from road Il have mud flaps connected to the

Comply	(Yes)	(No)	Will supply	
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11.4 STANDARD ITEMS TO BE INCLUDED

Quantity	Item			
1	15 Degree Nozzle			
1	35 Degree Nozzle			
1	Lower Hose Guide (plastic) with storage tubes located below rear splash shield			
2	Complete operator/service manuals			
1	Tube Connector Tool			
2	8" x 6' intake tube with clamp & gasket, band-lock type			
3	8" x 6' extension tube with clamp & gasket, band-lock type			
2	8" x 5' extension tube with clamp & gasket, band-lock type			
1	8" x 3' extension tube with clamp & gasket, band-lock type			
1	Dual side mounted boom extension cylinders			
1	Cold weather recirculation			
1	Body power back-up system, 12V			
1	Boom up warning light & alarm			
1	IntelACount – digital footage counter for rear hose reel			
1	Back-up alarm, 12V			
2	12V electric outlet (one @ each control station)			
1	Low water warning light & alarm			
1	Perforated (mesh) tool basket under side toolbox			
1	Remote lubrication manifold			
1	Provision dual camera system – back-up and manhole spotter			
1	25' fill hose with fill station storage basket			
1	Petcock valve on water pump y-strainer cap			
1	All DOT lighting LED1 Left & right rear tow hooks			
1	2 Pints Touch-up Paint (1 chassis black 1 Body color match)			
Com	ply (Yes) (No) Will supply			

12.0 PAINT

12.1 - All exposed metal surfaces shall be professionally prepared for painting with the minimum acceptable being (1) one coat of high build epoxy primer and (2) Two coasts of Acrylic Enamel or equal paint to match chassis cab.

13.0 LIGHTS

13.1 - The body shall include two stop and turn tail lights, two backup lights, and a license plate light, and all required clearance lights and reflectors. All DOT lighting to be LED type.						
	Comply	(Yes)	(No)	Will supply		
13.2 -	13.2 - Two (2) LED amber strobes shall be supplied to illuminate rear work area.					
	Comply	(Yes)	(No)	Will supply		
13.3 –		actable LED bo		vork lights. Will supply		
13.4 –	LED arro	w board mount	ted at top rear			
13.5 –				mounted at rear of unit.		
	Comply	(Yes)	(No)	Will supply		
13.6 – Boom clearance lights, LED.						
	Comply	(Yes)	(No)	Will supply		
14.1 -				ANTY , which shall be no less than pecial extended warranty		
coverage on specific items must be indicated						
	Comply	(Yes)	(No)	Will supply		

Instructions to Bidders

- (1) Bid documents can be downloaded from the City's website, at www.chattanooga.gov. At the left side of that page is a link labeled "Bid Solicitations." Click that link, and a page will open with a list of the current Bid Solicitations, with links that will display a PDF version of the bid documents suitable for printing.
- (2) Any Addenda will be published in the list of Bid Solicitations mentioned above. Bidders should check this list before submitting their bids, to see whether any Addendum has been issued.
- (3) Bid documents should be submitted to the Purchasing Office at the following address:

Purchasing Office, Suite G13 City Hall 101 East 11th Street Chattanooga, TN 37401

- (4) Sealed Bids should be submitted in a sealed envelope. No particular envelope is required, but the Bid Solicitation number should be noted on the outside of the envelope. This is a six-digit number starting with a "3".
- (5) Any questions regarding the specifications or bidding process should be directed to the Buyer, **preferably by email** to the following address:

wtucker@chattanooga.gov.

The Buyer will, if possible, find answers to the submitted questions and will issue an Addendum, so that all potential bidders will have access to the answers.

(6) Tennessee Law (Tenn. Code Ann. Section 12-12-106) prohibits municipalities from contracting with business entities which engage in investment activities with Iran. This law refers to a list of such business entities which is maintained by the State of South Carolina. This list can be reviewed on the internet at:

https://www.tn.gov/assets/entities/generalservices/cpo/attachments/List of persons pursuant to Tenn. Co de Ann. 12-12-106, Iran Divestment Act-July.pdf

A form entitled "Vendor Disclosure and Acknowledgement" is attached, which asks the Bidder to affirm that it is not on this list of prohibited entities. This form should be completed and submitted with your Bid.

Chapter No. 817 (HB0261/SB0377). "Iran Divestment Act" enacted. Vendor Disclosure and Acknowledgement

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 § 12-12-106.

(SIGNED)	A
(PRINTED NAME)	
(BUSINESS NAME)	
(DATE)	