

**TOWN OF TRUMBULL
REQUEST FOR QUOTATION
TRUCK MOUNTED COMBINATION JET/VACUUM SEWER CLEANER**

BID # 5958

DUE:

SEPTEMBER 11, 2012 @ 3:00 PM

GENERAL INSTRUCTIONS TO BIDDERS

The Town of Trumbull, (hereinafter referred to as Town or Owner), through the office of the Purchasing Agent, will accept sealed bids from qualified firms for a (Quantity: 1) Truck Mounted Combination Jet/Vacuum Sewer Cleaner as detailed in this request. All qualified and interested parties (hereinafter referred to as bidder or contractor) are invited to submit bids under the terms and conditions set forth herein.

1. BID SUBMISSION AND PREPARATION

- a) An original and two (2) exact copies of the bid response shall be submitted in a sealed envelope. The sealed envelope containing a Bid must be plainly marked as follows
Bid 5958 – Combination Jet/Vacuum Sewer Cleaner Due: September 11, 2012
Purchasing Agent
Town of Trumbull, 5866 Main Street, Trumbull CT 06611
- b) All Bids must be submitted on the enclosed Bid Proposal form. All blank spaces must be filled in, in ink and the Bid proposal form must be fully completed and executed when submitted.
- c) Please be advised that the person signing the formal proposal must be authorized by you organization to contractually bind your firm with regard to prices and related contractual obligations for the subject project.
- d) No oral, telephone or telegraphic responses will be considered.
- e) The Town reserves the right to communicate with any or all of the bidders to clarify the provisions of Proposals. The Town further reserves the right to request additional information from any bidder at any time after proposals are opened.

2. BID RESPONSE TIME

Responses to this request shall be received at the office of the Purchasing Agent, Town Hall prior to the advertised hour (noted above) of opening, at which time all proposals (total bid amount only) shall be publicly opened and read aloud. A bidder may withdraw a proposal at any time prior to the above scheduled date and time. Any bid received after the above scheduled date and time shall not be considered or opened. No bidder may withdraw a bid within ninety (90) days after the actual bid opening.

3. TOWN OPTIONS

The Town reserves the right to reject any or all proposals and to waive any requirements, irregularities, technical defects or service therein when it is deemed to be in the best interest of the Town. The selection of a contractor by the Town shall be made after careful consideration of all factors including but not limited to price.

4. PRICING

All prices quoted must be firm for a ninety (90) days following the proposal opening; nothing elsewhere in this request shall abrogate this firm period.

5. TAX EXEMPT

The Town of Trumbull is exempt from the payment of taxes imposed by the Federal Government and/or State of Connecticut. Such taxes must not be included in the bid price. The Town of Trumbull Tax Exempt number is 05-010 31-000.

6. TIME IS OF THE ESSENCE

The Town considers the required delivery date(s) to be of utmost importance. Consideration may be given to the bidder that offers the most favorable delivery date.

7. SPECIFICATIONS

If quotes do not meet or better the attached specifications on ALL points, the bidder must note ALL exceptions as separate attachments to their formal response; otherwise, it will be presumed that the bidder is bidding according to all specifications.

8. INQUIRIES & ADDENDUMS

- a) All technical inquiries regarding this request may be directed to Mr. Joe Mitri – Trumbull Highway Garage – 203-452-5071). No inquiries shall be responded to that are received after September 7, 2012.
- b) The Town reserves the right to communicate with any or all of the bidders to clarify the provisions of this request; the Town further reserves the right to request additional information from any bidder at any time after proposals are opened.
- c) It is the sole responsibility of a bidder to verify any addendums that may have been issued relating to this request prior to submission of a proposal. Any notice of addendum shall be published on the Town website. Failure to submit a response that does not address any changes or addendums may result in a disqualification of a proposal submission.

9. ASSIGNMENT OF RIGHTS, TITLES, AND INTERESTS

Any assignment or subcontracting by a bidder, vendor, or contractor for work to be performed, or goods and/or services to be provided, in whole or in part, and any other interest in conjunction with a Town procurement shall not be permitted without the express written consent of the Town of Trumbull.

10. HOLD HARMLESS CLAUSE

The Contractor agrees to indemnify, hold harmless and defend the Town from and against any and all liability for loss, damage or expense which the Town may suffer or for which the Town may be held liable by reason of injury, including death, to any person or damage to any property arising out of or in any manner connected with the operations to be performed under this request, whether or not due in whole or in part of any act, omission or negligence of the Owner or any of his representatives or employees.

11. WORK REGULATIONS AND STANDARDS

- a) All work activities performed in association with this request must be performed and completed for the Town in accordance with current Federal State and Local regulations. All services performed shall also conform to the latest OSHA standards and/or regulations.
- b) The contractor shall comply with all applicable laws and regulations relating to State and Federal employment practices, nondiscrimination, safety and health regulations.

12. CONFLICT OF INTEREST

No purchase shall be made from nor shall services (other than services as an officer, agent, or employee of the Town) be secured from any officer or employee of the Town, or from any partnership or corporation in which such officer or employee is a partner or officer, or holds a substantial interest, unless such relationship and the fact that such purchase is contemplated shall be made known in writing to the agency making such purchase, and notice thereof posted, for at least five (5) days before such purchase be made, in the office of the agency making such purchase and in a public place in the Trumbull Town Hall.

TOWN OF TRUMBULL
REQUEST FOR QUOTATION
TRUCK MOUNTED COMBINATION JET/VACUUM SEWER CLEANER

BID # 5958

DUE:

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REQUIREMENTS, SPECIFICATIONS AND COMPLIANCE

THIS SECTION TO BE SUBMITTED WITH BID RESPONSE

Intent - The intent of this specification is to define the minimum requirements of the Town of Trumbull Connecticut for one (1) vacuum air conveying sewer cleaner.

The Town intends to mount this equipment on a 2013 International Truck – Model 7500 SFA 6X4 (SF537)

General: This unit is designed for and capable of simultaneous high pressure jetting and vacuuming for the removal of sand, grit, grease, sludge, stones and other materials from sanitary sewers, storm sewers, catch basins, pumping stations, and other facilities. The unit will have a self-contained water supply for use with a high pressure cleaner for breaking of blockages and removal of material contained therein.

The unit will include an air conveying system capable of simultaneous removal of debris flushed to the manhole by the sewer cleaner system, or debris removal from catch basins, sumps, digesters, wet wells, etc. using the single chassis engine as the power source. The vacuum system will include a sealed body for storage and removal of the collected debris.

The unit will be designed for ease of maintenance and be fully operational by one man and all controls will be located at an operator's station in front of the truck for convenience and safety.

This machine will comply with all federal, state and local laws binding upon this type of equipment. Must meet Certified ISO 9001 standards.

Note: Bidders must note their compliance to the specifications in the space provided using the words "YES" or "NO". Deviations or changes must be noted and explained in detail on a separate sheet at the end of each section. The use of words such as "exceeds, equal to or not required" will not be acceptable in lieu of a detailed explanation.

DEBRIS BODY

COMPLIANCE/REMARKS

Construction: A dual radius designed vessel using high strength ASTM A572 grade 50 steel, 1/4" upper and lower radius section, 1/4" sidewalls, front bulkhead and 3/8" rear bulkhead.

Rear door constructed of 1/2" high strength steel
ASTM A572 grade 50 steel.

Capacity: 7 cubic yards useable capacity
(Manufacturers Certification of capacity must be supplied)

The vessel shall be hot dip galvanized in accordance with ASTM A123 standards, including a three (3) step preparatory wash or be constructed of 304 stainless steel. A lifetime limited warranty shall be included. A prorated warranty is unacceptable. A lifetime warranty in lieu of stated materials is unacceptable.

Door: Hydraulically lock/unlock, raise and lower using one (1) Dual Acting Hydraulic cylinder to perform all functions. Cylinder shall be equipped with check valves for multi position door holding, and safety.

Tailgate locking wedges shall have a reverse bevel to maintain a mechanical lock if hydraulic pressure should be lost for any reason.

A replaceable, reversible neoprene seal shall be supplied.

DEBRIS BODY - continued

COMPLIANCE/REMARKS

Dumping and door controls will be located forward of the debris body on driver's side for safety, so operator does not have to cross in front or behind of vehicle at dump sight and so driver will not be subject to debris from dumping.

External ground level greaseable float type debris level indicator w/stainless steel ball shall be provided

Debris inlet tube shall enter at top front of tank and continue into tank extending 3/4 of the specified tank length. Airflow shall then exit at the front of tank for best possible material separation.

Debris shall hit bolted on deflector plate at top tank rather than rear bulkhead to prevent premature wear.

Float type automatic vacuum shutdown system with a single stainless steel ball, housed in stainless steel cage. Systems requiring switches or dual float balls to accomplish this are unacceptable.

Body door hinges and pins: Bolted to enable shim adjustment with grease fittings. Lock receivers shall also be shimmed for adjustment as seal wears.

Tailgate will hydraulically open to full width and height.

Decant: 6" knife valve mounted at lowest point of rear door, 10' x 6" lay flat hose with rack.

Debris tank shall also be equipped with 4" hydraulic pump off system capable of pumping 710 GPM @ 10' head while vacuuming if needed or independently. 4" ball valve and male cam lock on outlet

4' manual knife valve installed on inlet of pump.

8" air operated knife valve on inlet of debris tank to isolate boom from tank

Internal carbon steel screen on decant inlet, hinged to swing away for easy cleaning shall be provided.

Safety body prop shall be supplied to secure body during repairs.

Two decant screens; one for pump; one for drain valve.

External rear door safety prop shall be provided as a secondary device to hold the door open for cleaning of debris body or inspection.

The debris body will be equipped with a full flow internal tank flusher system Consisting of a minimum of (7) stainless steel nozzles mounted in the front bottom plate inside of the debris body, sized to utilize the water pump at 80 gpm @ 2000 psi to clean the debris body.

DEBRIS BODY - continued

COMPLIANCE/REMARKS

State pressure and flow of flush out system supplied.

Flow: _____
PSI: _____

A high pressure ball valve will be installed on a high pressure manifold to control water to the tank flusher for safety and circuit maintenance.

A bolt-on carbon steel splash shield around sides and bottom of tailgate shall be provided

The debris body and water tanks shall be affixed on a single but independent frame, separate from the chassis and power frame.

Debris tank shall be mounted via a 3 point mounting system to allow flexing.

The debris body hoist cylinder shall be a single post design with NTEA compliant performance range. The double-acting cylinder must use pins that are removable with retaining bolts. Cylinder shall provide a minimum lifting capacity of 56,000 lbs. and a minimum dump angle of 50 degrees. The hoist cylinder shall have hydraulic check valves to hold the debris body in any angle while dumping.

DUAL WATER TANKS **COMPLIANCE/REMARKS**

Capacity: 2000 U. S. Gallons
(Manufacturers Certification of capacity must be supplied)

There will be two 750 gallon aluminum tanks and one 500 gallon poly tank.

Constructed of ¼" shell and baffles, ½" end plates aluminum or stainless steel only, Warranty: A lifetime limited warranty will be supplied.

Each tank will be equipped with 2" ball valve low point drains, internal baffles and a six (6) inch crossover tube between tanks for quick and level filling.

Water- tanks will not rise with the debris body while dumping.

Water-tanks will not share common wall with debris tank and will be easily removed in the event of replacement or repair.

Tanks will be located above chassis frame rails to provide a flooded inlet to the water pump and protection from road damage and off-road uses and for ease of service to drive line components.

Anti-siphon device, and fill hose storage rack shall be provided.

Water tank digital level indicator located in front control panel shall be provided.

Water tank shall have a lifetime limited warranty against corrosion, cracking, material and workmanship

HIGH PRESSURE WATER SYSTEM

COMPLIANCE/REMARKS

Water pump will produce 85 GPM @ 2000 PSI.

Will be a triplex, plunger style, smooth, flow design.
Pumps that require accumulators are unacceptable.

Starting from high pressure side of water pump 1" I.D. plumbing will
be used up to hose reel, including water manifold, control valve and swivels.

Swivel must be designed so it can be tightened as it wears and be rebuilt.

The water pump shall be powered by the chassis engine via transmission,
heavy duty transfer case, and Hydrostatic Drive.

Water pump speed shall be fully adjustable without changing the engine
RPM and shall provide a variable flow system with the change of the
nozzle. Controls for starting and stopping the water pump and varying
the flow and pressure shall be at the control panel.

The water pump hydrostatic system shall have a maximum system pressure
of 6,000 PSI and flow capacity of 85 GPM. An integral oil to water heat
exchanger with a 143,000 BTU per hour rating shall be provided.

Water pump will run independently from vacuum pump.

Will be equipped with full flow adjustable pressure regulator.

Pump shall be equipped with drain valves on compression chamber
and at the low-pressure side at the bottom center of the pump.

Water system shall have a cold weather recirculation pump driven
by a 12 volt DC electric pump and isolated from main water system by
manual ball valves. System must be capable of circulating a min of
20 GPM of pressurized water through entire water system and hose reel
without the use of chassis engine.

Water pump and vacuum system shall be able to simultaneously
operate in continuous duty at maximum water pressure and flow
while achieving maximum vacuum.

Pressure and flow controls shall be located at the operator's control station.

Pump shall be located in a position to ensures a positive feed from water
supply, and allow mechanic access to pump for maintenance without
removal from unit.

A self-winding handgun reel with 50' of 1/2" hose with a quick connect
equipped adjustable hand gun shall be provided.

HIGH PRESSURE WATER SYSTEM - continued

COMPLIANCE/REMARKS

There will be a hydraulically powered 3000 psi low volume pump and reel with a high pressure washdown gun for hydroexcavating. Shall include a self-winding reel with 50' of hose and a high pressure wash down hydroexcavating gun.

VACUUM SYSTEM

COMPLIANCE/REMARKS

The Positive Displacement pump shall be a Roots/Dresser **8X24**

The vacuum pump provided shall be capable of 4734 CFM inlet volume and minimum 16" Hg.

Loaded Rating **8X24 4100CFM@16"Hg (217" H20) 185HP@2470RPM**

Dual vacuum relief valves with one set at **15.5" Hg. and one at 16" Hg.**

The vacuum system shall have an air operated 4" vacuum relief valve which vents ambient air to blower intake to relieve vacuum in the body and suction tubes/hoses.

The blower shall be driven from chassis engine via transmission and heavy duty transfer case. Direct via universal drive shaft.

The cyclone separator shall be built out high strength ASTM A572 grade 50 steel, capable of separating material from air stream, Separator shall remove down to 50 micron particles or coarser. The cyclone shall be 24" wide x 75" high and taper down to a dropout box 18" x 18" x 18" including a clean out hatch.

Non-skid steps with handgrips allowing safe passage from ground level to a work platform at top of unit.

The blower shall contain a high efficiency exhaust silencer with an aluminum rain cap. It will have a built-in tube rack that will hold four (4) 8" diameter suction tubes for a total of 24' of tubes.

BOOM

COMPLIANCE/REMARKS

Boom shall be designed for front-end operation with hose mounted and stored at front bumper.

Hydraulically powered up/down, left/right, and in/out shall be accomplished with a single joy stick.

Pick-up Hose: 8" ID, front end operation and stored at front of the unit.

Will be equipped with a true tube in a tube boom telescoping section with a travel of eight (8) feet six (6) inches.

Boom shall have a total extended length of 24 feet 11 inches from centerline of the unit. Boom coverage area 552 sq. ft., submit diagram.

BOOM - continued

COMPLIANCE/REMARKS

1,000 lb. boom lifting capacity with dual hydraulic lift cylinders.
Max. lift capacity shall apply even when boom is fully extended.

Boom shall swing 90 degrees to each side of the truck via a hydraulic driven worm and ring gear.
Hydraulic cylinders to rotate boom are unacceptable.

Boom shall remain stationary and not raise with debris body.

All connections between debris body and vacuum system will be self-aligning.

Boom with steel elbow must be able to extend and retract without affecting the length of the pickup hose. Rubber hose in place of steel elbow is unacceptable.

Describe elbow to be supplied

ELECTRICAL SYSTEM

IP66 sealed exterior electrical controls and wiring harness w/ protective cover that exceeds NEMA 4 standards.

IP 66 sealed exterior wiring harnesses w/ protective cover, with color coded wiring.

The operator panel shall be of modular design, and protect switches and controls from weather or damage using a hinged, latching steel cover.

A main power on/off rotary style switch shall be provided at drivers side frame to disconnect power to entire module for maintenance and safety purposes

REEL AND OPERATOR STATION **COMPLIANCE/REMARKS**

The front mounted reel shall have the ability to articulate 230 degrees across the front of the unit, with a capacity of 1000 feet of 1" hose.
The operator will easily be able to rotate and lock the reel at any angle desired within the rotation.

The hose reel will be hydraulically powered in both directions by a hydraulic motor coupled directly to a planetary gearbox, chain and sprockets are unacceptable due to excessive wear and maintenance.

Hose reel control valve shall have a speed control device to regulate the rotational speed of the reel in both directions.

Hose reel will rotate on a turntable slewing bearing with a friction brake that can be applied in any rotated position, gears mounted on hose reel bearing not acceptable due to missed positions that teeth and pawl don't line up.

Hose reel brake band must be adjustable with turn buckle and be applied by an air cylinder.

REEL AND OPERATOR STATION - continued

COMPLIANCE/REMARKS

Hose reel must be mounted in the center of the chassis frame rails and not rotate out of centerline of frame rails into traffic for safety.

The hose reel shall tilt forward for access to the truck engine via hydraulic cylinder powered by an electric/power pack.

Electric power pack shall run independently from main system. Power pack shall operate whether truck engine is running or not.

Level wind on hose reel shall be supplied.

A resettable footage counter on reel flange shall be supplied.

CONTROLS and GAUGES COMPLIANCE/REMARKS

Color LCD display with 32 output microprocessor control (expandable) W/J1939 CAN communication

Transfer case shift controls in cab

Throttle control at hose reel control panel

Water pressure gauge on LCD display module

Tachometer/ Hourmeter on color LCD display module

Vacuum Gauge on color LCD display module

Hydraulic Pressure Gauge.

Truck Engine Throttle-electrically controlled at hose reel.

Water pump on/off switch

Throttle protection emergency (returns to idle)

Reel tilt.

On/Off Water Flow Valve.

Single Reel control joystick for direction and speed control

Single Boom Control Joystick to control all boom functions.

Remote Wireless Pendant Push Button Control.

Water pump hourmeter on color LCD display module

Blower hourmeter on color LCD display module

Hose Reel Articulation Brake valve

Cab Air Shifts for Power Systems.

Electric back alarm

Vacuum relief

Additional throttle protection emergency (returns to idle)

Boom work lights.

Low water warning light and alarm

Hydraulic tool circuit side mounted

HYDRAULIC SYSTEM

COMPLIANCE/REMARKS

Will produce 18 GPM at 2000 PSI, 1800 RPM

Pump shall be transfer case -mounted piston pump with test ports for troubleshooting

The hydraulic reservoir shall be a modular component with a minimum of 40 gallons with a level sight eye and temperature gauge.

Filters shall be installed at both the suction and return lines.

Filters shall be no less than ten (10) microns with shutoff valves installed on suction lines.

REMOTE GREASE STATIONS

COMPLIANCE/REMARKS

Hose reel grease manifold with all lube points plumbed to it.

Boom grease manifold with all lube points plumbed so it can be greased from ground level.

Ground level lube provision for float level indicator.

ACCESSORIES

COMPLIANCE/REMARKS

Two (2) aluminum toolboxes with a minimum of 18"x18"x36" shall be installed on both passenger and divers side frame rails to allow easy access without excessive reach or need for steps or stairs.

Frame Mounted traffic cone holder shall be supplied

24 feet of 8'aluminum tubing. With crown nozzle.

800 feet of 1" x 2500-PSI sewer hose will be installed on the reel.

18 and 30-degree sewer nozzles.

Manhole bottom hose guide Tigertail

A 30' x 2-1/2" fill hose.

A self-winding handgun reel with 50' of 1/2" hose

One (1) set of Operation & Maintenance manuals.

Rear mounted traffic advisor bar type LED Whelen TACF85
Arrow board split type

Strobe beacon on cab, choices Whelen L21LAP, L22LAP or L31HFA

Strobe beacon on body, choices Whelen L21LAP, L22LAP or L31HFA,

LED DOT lights on module

ACCESSORIES - continued

COMPLIANCE/REMARKS

6" x 5' vacuum tube

6" x 3' vacuum tube with crown

4" x 8' vacuum tube with crown

4" x 5' vacuum tube

6" x 4" reducer

8" x 6" reducer

Soil Surgeon hydroexcavating tool

A 2-1/2" Y-strainer with jumper hose to allow refill of water tanks from debris tank utilizing a rear door mount sludge pump as the way to move water from debris tanks to water tanks.

MOUNTING

COMPLIANCE/REMARKS

The unit will be Factory mounted on the specified chassis and will not exceed a height of eleven (11) feet ten (10) inches.

No part of the unit will extend beyond specified height while traveling .

TRAINING

COMPLIANCE/REMARKS

We will provide a factory authorized training person for one (1) day. The purpose shall be to train operating and maintenance personnel on the proper O & M procedures.

PAINT

COMPLIANCE/REMARKS

The unit will be powder coated a singular color using phosphorous wash, Static charged, oven cured process to match the required color specification of International Fleet White

WARRANTY

COMPLIANCE/REMARKS

The unit will have a minimum of one-year warranty against defects in material and workmanship. The warranty will cover both parts and labor.

All other warranties that exceed one year shall apply.

Aluminum Water Tanks have a limited lifetime warranty.

Galvanized Debris Body has a limited lifetime warranty.

Manufacturer must be Certified ISO 9001 Certified

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REQUEST FOR QUOTATION
TRUCK MOUNTED COMBINATION JET/VACUUM SEWER CLEANER

BID # 5958

DUE:

SEPTEMBER 11, 2012 @ 3:00 PM

BID PROPOSAL

THE UNDERSIGNED AFFIRMS AND DECLARES that this proposal is executed with full knowledge and acceptance of the specifications, requirements, terms and conditions contained herein and with complete understanding and full compliance of system requirements and hereby submits this proposal for the request noted above and certifies that this proposal meets all the specifications and conditions requested herein. Any substitutions to the specifications requested are clearly and completely noted. Any alternate proposals are presented in a similar format to those requested and are attached herein. It is understood that the Town reserves the right to reject any or all proposals or waive any formalities in this request. The proposed rates and discounts as follows: **TRUCK MOUNTED COMBINATION JET/VACUUM SEWER CLEANER**

PROPOSE PRICE FOR ONE (1) TRUCK MOUNTED COMBINATION JET/VACUUM SEWER CLEANER:

_____ DOLLARS

Written Amount

\$ _____

Above Price Shall Remain Firm for _____ Days

Delivery(FOB Trumbull): _____ Days ARO (After Receipt of Order)

Warranty: _____

Note any and all exceptions or clarifications :(use additional pages as necessary)

Company Name

By (Signature)

Address

Print Name

Address

Title

Date

Telephone/Fax

email

24 Hour Telephone