

# Town of Summerville

## 500 Gallon Trailer Mounted Vacuum/Jetter

### Specifications



Summerville Stormwater Department  
Final Bid Copy - A

Revised by Robert MacDonald

# CALL FOR BID

Sealed bid proposals will be received by the Town of Summerville until 2:00 p.m. on Friday, February 27, 2015. All questions must be received by 12:00pm Wednesday, February 18, 2015. An addendum (if necessary) will be posted by 5:00pm Thursday, February 19, 2015 on the Town website. Opening will be held in the 2<sup>nd</sup> floor training room at the Summerville Town Hall Annex, 200 S. Main Street, Summerville, SC 29483

Bids will be for the purpose of furnishing the Town of Summerville with one (1) 500 Gallon Debris tank and dual 250 gallon aluminum water tanks with a high-pressure water sewer jetter with vacuum system mounted on a 16,000 lb. tandem axle trailer and related equipment. A copy of the instructions to bidders and specifications can be down-loaded from the Town website at [www.summerville.sc.us](http://www.summerville.sc.us).

The Town of Summerville reserves the right to reject any and all bids, to waive all formalities and to award the contract, as it appears to be in the best interest of the Town of Summerville. The right is also reserved to hold any and all bids for a period not exceeding sixty days (60) days from the opening thereof.

Questions concerning the equipment specifications may be directed to:

Robert MacDonald, Stormwater Manager, Town of Summerville  
(843) 851- 4225

All bids must be sealed and submitted to:

Attn: Robert MacDonald  
The Town of Summerville  
200 S. Main Street  
Summerville, SC 29483

**With the package marked as “Vacuum/Jetter”**

## **Intent**

The intent of these specifications is to cover the requirements of **one (1) 500 Gallon Debris tank and dual 250 gallon aluminum water tanks with a high-pressure water sewer jetter with vacuum system mounted on a 16,000 lb. tandem axle trailer and related equipment**

The design of the unit shall incorporate the latest available technology and engineering capacities.

The unit shall be new and of current manufacture. No prototype, demo or used type Vacuum/Jetter will be accepted.

All parts not specifically mentioned which are necessary to provide a complete Vacuum/Jetter shall be included in the bid and shall conform in strength, quality of materials, and workmanship to what is normally provided to the trade in general.

The proposed unit bid must be a regularly manufactured unit with at least ten (10) references available (please provide references with bid).

The Vacuum/Jetter shall meet or exceed all OSHA, federal and state regulations and requirements.

Each bidder must check either "Yes" or "No" for each section. If "Yes" is checked, bidder will be expected to supply exactly what is described. If "No" is checked, please provide a **detailed explanation of the deviation**, no matter how minor it may be. If the bidder fails to respond either "Yes" or "No", the bid will be rejected for non-compliance.

The Town of Summerville reserves the right to reject any and all bids, to waive all formalities and to award the contract, as it appears to be in the best interest of the Town of Summerville. The right is also reserved to hold any and all bids for a period not exceeding ninety days (90) days from the opening thereof.

**Warranty**

**The “Vacuum/Jetter” warranty shall include the following:** (beyond all factory warranties)

Dealer’s mileage and travel time shall be included in the life of the warranty.

**(No Cost \$ to the Town)**

Vendor or authorized representative of the vendor shall have a parts distribution and repair facility to supply after sales.

No Cost (\$) will be charged to the Town of Summerville if machine is transported to Dealership. (During any warranty period)

No cost (\$) will be charged to the Town of Summerville for freight of parts or any other cost incurred by the Dealer under warranty.

State the manufacturer’s standard full machine warranty\_\_\_\_\_.

**Options** (show cost of warranty options)

- Full Machine warranty of five years or 7,500 hours Bumper to Bumper.  
\_\_\_\_\_
- Full Machine warranty of three years or 4,500 hours Bumper to Bumper.  
\_\_\_\_\_
- Power train warranty of five years or 7,500 hours.  
\_\_\_\_\_

A 30-day guarantee shall be submitted on the bidder’s letterhead stating, “If the machine fails to perform under its intended use and fails to operate because of extended downtime and repairs, the Town may reject the proposed equipment within 30 days after delivery, for a full refund including freight.” No exceptions to this requirement.

**Delivery to 1105 Yancey St., Summerville, SC shall be included in the cost of the unit.**

## BID SPECIFICATIONS

### 500 GALLON TRAILER MOUNTED VACUUM/JETTER

BIDDER SHALL COMPLETE BY CHECKING THE FOLLOWING.  
IF NOT COMPLIANT, STATE SPECIFICALLY ITEM BEING OFFERED.

ITEM	REQUIREMENTS	YES	NO	OFFERED
<b>DEBRIS TANK:</b>	<p>Debris tank to be minimum capacity 500-gallon cylinder style steel tank. Construction of tank to be 3/16+std F &amp; D A-36 carbon steel.</p> <p>Double acting single stage cylinder lift (dumping) system.</p> <p>25q. 3+Drain hose located at the rear for decanting water from main debris tank.</p> <p>Storage for drain hose must be supplied.</p> <p>The debris tank shall be equipped with a body washout system. The system shall include an on/off valve and wash out head. The wash out head shall be located forward in the debris tank. The wash out system shall operate @ 3000 PSI</p> <p>3+Drain with knife valve off rear door.</p> <p>The full opening rear door shall be hydraulically opening and locking with one control lever located curb side of unit.</p> <p>Three independent over center hydraulic locks shall be installed on rear door. The locks shall work in sequence and be external adjusting screw type.</p> <p>One stainless steel high float level shut off shall be located in debris tank. Top access port for float ball inspection.</p> <p>For safety and maintenance an Inlet clean out box with removable port to be located on debris tank inlet.</p> <p>The debris tank must be plumbed that will allow fresh water for jetting system to be stored in the debris tank. The debris tank and water tanks shall have isolation valve installed to separate the fresh water and debris tank.</p> <p>All typical wear points must have bolt on plates for easy replacement.</p>			

## BID SPECIFICATIONS

### 500 GALLON TRAILER MOUNTED VACUUM/JETTER

BIDDER SHALL COMPLETE BY CHECKING THE FOLLOWING.  
IF NOT COMPLIANT, STATE SPECIFICALLY ITEM BEING OFFERED.

ITEM	REQUIREMENTS	YES	NO	OFFERED
<b>VACUUM SYSTEM:</b>	<p>Positive displacement dual lobe vacuum blower rated for 2300 CFM minimum airflow. With Single final filter. Filter to be removable and reusable. Cyclone separator minimum 500 square inches shall be included at blower.</p> <p>The Vacuum blower shall be powered hydraulically off the auxiliary engine.</p> <p>An adjustable air flow relief valve shall be provided to limit blower stress.</p> <p>Electronic vacuum breaker system to be provided to induce air into system as needed.</p>			
<b>WATER TANKS:</b>	<p>Dual 250 gallon round cylinder style aluminum constructed water tanks for 500 gallon total storage. Steel &amp; polyethylene constructed tanks are unacceptable.</p> <p>Sight gauges shall be located on rear of each tank.</p> <p>The dual water tanks must be mounted on each side of the trailer over the axles for proper weight distribution.</p> <p>The dual water tanks shall be vented and drained via 2+min gate valve.</p> <p>A 2 ½+overhead- tank filling assembly shall be located on the curbside side. A positive air gap anti- siphon system shall be incorporated to protect the potable water supply. Hydrant fill strainer and (1) 25qX 2 ½+filler hoses with fittings and carrying rack will be included.</p>			

## BID SPECIFICATIONS

500 GALLON TRAILER MOUNTED VACUUM/JETTER

BIDDER SHALL COMPLETE BY CHECKING THE FOLLOWING.  
IF NOT COMPLIANT, STATE SPECIFICALLY ITEM BEING OFFERED.

ITEM	REQUIREMENTS	YES	NO	OFFERED
<b>WATER SYSTEM:</b>	<p>The pump shall be Triplex positive displacement, heavy duty, single acting, and triple plunger type. It shall be rated to operate at 40 GPM @ 3000 PSI.</p> <p>The water pump shall be belt drive L Bracket design off the auxiliary engine. The engine shall include an industrial twin disc clutch that will allow disengagement of water pump while the engine is in operation.</p> <p>The water pump to carry a (2) year manufacturer's warranty.</p> <p>The plungers shall be ceramic material.</p> <p>The valves shall be stacked. Pressed in valves will not be accepted.</p> <p>A manual wash down system shall be included and shall consist of 25' of 1/2" hose and an 800 psi spray gun. Spray gun shall include a lead man+trigger. The hose shall be installed on 25ft capacity retractable reel.</p> <p>Petcocks shall be provided to allow for removing the water from the pump piping system.</p> <p>Water system shall be equipped with an air purge system for removing water from the water pump during storage.</p> <p>Multi Flow system that will allow the pump to operate 500 to 3000 PSI at full RPM control lever located on single control panel.</p>			
<b>HYDRAULIC SYSTEM:</b>	<p>Minimum 25 gallon hydraulic oil tank with sight gauge. With shut-off valve at tank outlet.</p> <p>10 micron filter system shall be mounted at hydraulic tank.</p>			

## BID SPECIFICATIONS

### 500 GALLON TRAILER MOUNTED VACUUM/JETTER

BIDDER SHALL COMPLETE BY CHECKING THE FOLLOWING.  
IF NOT COMPLIANT, STATE SPECIFICALLY ITEM BEING OFFERED.

ITEM	REQUIREMENTS	YES	NO	OFFERED
<b>REAR MOUNTED HOSE REEL:</b>	<p>Rear door mounted hydraulic hose reel to be equipped with 600 ft capacity ¾+Hose.</p> <p>Hose reel to be constructed of minimum 3/8+ steel. Hose reels constructed of ¼+steel using flanges for support are not acceptable.</p> <p>Hose reel to hydraulically articulate 180 degrees on a heavy duty industrial worm gear.</p> <p>Hose reel to be driven hydraulically dual chain drive in both directions.</p> <p>Hose reel to be equipped with hose guide level wind.</p> <p>A manual footage counter shall be installed on the levelwind.</p> <p>500ft 3000 PSI ¾+Sewer jet hose.</p> <p>10ft Steel Braided ¾+jet leader hose.</p> <p>The rear mounted hose reel to include control panel. The control panel shall be mounted on the street side of hose reel. The control panel shall articulate with the hose reel. <b>NO EXCEPTIONS.</b></p> <p style="padding-left: 40px;"><i><u>THE HOSE REEL PANEL SHALL INCLUDE THE FOLLOWING</u></i></p> <p style="padding-left: 40px;">Multi-flow valve for control of water system output volume.</p> <p style="padding-left: 40px;">Electronic throttle with digital gauge package.</p> <p style="padding-left: 40px;">Low water warning light.</p> <p style="padding-left: 40px;">Control panel light.</p> <p style="padding-left: 40px;">Emergency kill switch with safety lanyard.</p> <p style="padding-left: 40px;">Water pressure gauge.</p> <p style="padding-left: 40px;">Keyed ignition.</p>			

## BID SPECIFICATIONS

### 500 GALLON TRAILER MOUNTED VACUUM/JETTER

BIDDER SHALL COMPLETE BY CHECKING THE FOLLOWING.  
IF NOT COMPLIANT, STATE SPECIFICALLY ITEM BEING OFFERED.

ITEM	REQUIREMENTS	YES	NO	OFFERED
<b>Excavation Package:</b>	<p>(1) Hydro excavation system shall be installed on trailer. The system must be capable of operating from 5 GPM up to 15 GPM @ 3000PSI</p> <p>Selectable 3000 PSI Un-loader valve system for Hydro excavation system. The standard relief valve 800 PSI for ½+Washdown handgun system will not be accepted.</p> <p>(1) Hydro excavation gun trigger style 4ft barrel with (1) spinner rotator head and (1) 0 degree spray heads with female quick connects.</p> <p>Retractable high-pressure reel to be mounted curb side with 25sqf 3/8+3000 PSI hose with male quick connect.</p>			
<b>ENGINE:</b>	<p>The water system and the vacuum system shall be powered by minimum 140 H.P. Tier III wet sleeved water cooled diesel engine.</p> <p>Two (2) Year warranty.</p> <p>Oil dipstick on outward side of motor.</p> <p>Digital gauge package to include voltage, temperature, and oil pressure and engine hours. The system shall incorporate low oil pressure high temp auto shut down. The digital gauge system shall be located on control panel.</p> <p>Electronic throttle at control panel.</p> <p>Keyed Ignition.</p> <p>15-Gallon fuel tank with sight gauge.</p> <p>Residential exhaust shall be installed.</p> <p>The engine shall have aluminum diamond tread plate enclosure and be open on both sides for ease of maintenance. Expanded metal doors are not acceptable.</p>			

## BID SPECIFICATIONS

### 500 GALLON TRAILER MOUNTED VACUUM/JETTER

BIDDER SHALL COMPLETE BY CHECKING THE FOLLOWING.  
IF NOT COMPLIANT, STATE SPECIFICALLY ITEM BEING OFFERED.

ITEM	REQUIREMENTS	YES	NO	OFFERED
<b>WIRELESS CONTROLS:</b>	<p>Wireless pendant control for the following operations.</p> <p>Boom rotation-up/down control.</p> <p>Emergency kill.</p> <p>Throttle control vacuum blower.</p> <p>Vacuum breaker.</p> <p>Water tight enclosure.</p>			
<b>EXTENDABLE BOOM:</b>	<p>The boom shall be steel construction with dual polyethylene rollers and attached to the top of the debris tank.</p> <p>The boom shall hydraulically articulate on industrial worm gear minimum 270 degrees.</p> <p>The boom shall extend minimum 8 ft to 11 ft from the center of the boom inlet.</p> <p>The boom shall lift 3q from the fully down position. The Boom shall lift via single hydraulic cylinder.</p> <p>The boom hose shall be 6+in diameter and incorporate 6+aluminum hat flange fittings.</p> <p>The boom controls shall be located at the operator's station and on remote pendant.</p>			
<b>VACUUM ACCESSORIES:</b>	<p>6+flexible vacuum hose with connectors.</p> <p>All accessory piping shall be constructed of aluminum. Hat flange with clamps for all piping.</p> <p>Two (2) 3q x 6+sections of tubes one to have crown nozzle.</p> <p>One (1) 4q x 6+section.</p> <p>One (1) 5q x 6+section.</p> <p>All accessory piping shall be mounted on a 4 pipe storage rack. Storage rack to be mounted curb side above water tank.</p>			

## BID SPECIFICATIONS

### 500 GALLON TRAILER MOUNTED VACUUM/JETTER

BIDDER SHALL COMPLETE BY CHECKING THE FOLLOWING.  
IF NOT COMPLIANT, STATE SPECIFICALLY ITEM BEING OFFERED.

ITEM	REQUIREMENTS	YES	NO	OFFERED
<b>Tool Box:</b>	<p>A storage 52+x 26+x 15.5#toolbox shall be located on the drawbar of the trailer.</p> <p>The box shall be constructed of diamond tread plate aluminum.</p> <p>The toolbox shall be locking and water tight.</p>			
<b>LIGHTING:</b>	<p>All lighting to be LED</p> <p>D.O.T. lighting with 7 way (round industrial) trailer plug.</p> <p>Taillight &amp; direction lights.</p> <p>One (1) LED Strobe light mounted with limb guard. Control switch to be mounted on rear control panel.</p> <p>LED Directional arrow stick mounted rear of unit controls to be located in drawbar tool box.</p> <p>Two (2) Work lights, one (1) mounted on each side of directional arrowstick.</p>			
<b>ACCESSORIES:</b>	<p><u>Enter line item pricing For adjusting quantities and models for all accs (include these prices in total).</u></p> <p>Tiger tail hose protector.</p> <p>Two (2) 3/4+6+Skid nozzle extension.</p> <p>Two (2) 10 degree Penetrator nozzle.</p> <p>One (1) 30 degree cleanout nozzle w/replaceable jets.</p> <p>A nozzle rack for nozzle storage shall be mounted inside the toolbox.</p> <p>100% Stainless Steel plumbing on the Pressure side of water system.</p> <p>Fender mounted tool trays.</p>			

## BID SPECIFICATIONS

### 500 GALLON TRAILER MOUNTED VACUUM/JETTER

BIDDER SHALL COMPLETE BY CHECKING THE FOLLOWING.  
IF NOT COMPLIANT, STATE SPECIFICALLY ITEM BEING OFFERED.

ITEM	REQUIREMENTS	YES	NO	OFFERED
<b>TRAILER:</b>	<p>Frame to be constructed of 6+X 3/16+industrial C channel. The trailer to include I beam center supports.</p> <p>10000 LB Bull Dog drop leg stand.</p> <p>The top decking shall be all diamond tread plate steel.</p> <p>Four (4) 7.50x16 LT 8-Ply tires.</p> <p>Electric brakes.</p> <p>Dual 8000# torsion Axles.</p> <p>Military style pintle ring hitch with height adjustment for 4 positions.</p>			
<b>PAINTING:</b>	<p>Before painting, all metal shall be cleaned and etched with phosphoric material to insure permanent bond of Liner and paint.</p> <p>The entire frame and hose reel shall be sprayed with speed liner coat. The liner coat shall be black in color. The liner shall be rough texture to prevent chipping and rust. Minimum 5-8 MIL.</p> <p>Each component shall be Lined-painted separately prior to assembly.</p> <p>All hydraulic, water pressure fittings and hoses shall be free of over spray.</p>			
<b>FENDERS:</b>	<p>Bolt on assembly- welded on fenders are not acceptable.</p> <p>The fenders shall be constructed of diamond tread plate aluminum for safety and corrosion prevention.</p>			

## **BID EVALUATION**

**Bids will be evaluated using the following criteria:**

- \* **Cost of bid.**
- \* **Compliance with our specifications.**
- \* **Delivery Date.**
- \* **Operation and maintenance cost of equipment.**
- \* **Life cycle cost of equal equipment.**
- \* **Performance of equipment in actual operating conditions**  
*(Demonstrations will be required).*
- \* **Availability of parts and service.**
- \* **Prior experience with vendor/s and their product.**

## **INFORMATION**

**Any questions concerning the above specifications contact:**

**Robert MacDonald**

**Stormwater Manager**

**Phone 843-851-4225**

**E-mail: [rmacdonald@summerville.sc.gov](mailto:rmacdonald@summerville.sc.gov)**

**Tax** will be included as a separate line item.

Training DVD shall be provided showing maintenance and operating procedures.

Complete Parts, Operating, Maintenance and Service manuals for both the unit and the engine shall be supplied on 1 set(s) of CD-Rom(s) and 1 set(s) of books at delivery. **No Exceptions**

The unit shall be delivered completely assembled, serviced, and ready to operate.

Dealer to state delivery date: \_\_\_\_\_

\*\*\*No bid will be considered if left blank.\*\*\*

**Unit Submitted Price: \$** \_\_\_\_\_

**Tax @ 7%: \$** \_\_\_\_\_

**Submitted Total Price: \$** \_\_\_\_\_

Bid submitted by:

\_\_\_\_\_  
Name of company

\_\_\_\_\_  
Street address

\_\_\_\_\_  
City, state, zip

\_\_\_\_\_  
Telephone number

\_\_\_\_\_  
Authorized signature of bidder

\_\_\_\_\_  
Printed name of above individual

\_\_\_\_\_  
Date

\*\*\* No bid will be considered if not signed and dated\*\*\*