

SPECIFICATION
AND
CONTRACT DOCUMENTS
ABERDEEN, SOUTH DAKOTA

ONE(1) NEW HIGH PRESSURE SEWER CLEANER
And VACUUM EXTRACTOR

PUBLIC WORKS - UTILITY DIVISION
for
CITY OF ABERDEEN, SOUTH DAKOTA

2022

MAYOR
Travis Schaunaman

CITY MANAGER
Joe Gaa

FIRM: _____

ADDRESS: _____

Prepared by:
Jeromy Thorstenson
Assistant Public Works Dir.
March 22, 2022

ABERDEEN, SOUTH DAKOTA

**ONE (1) NEW HIGH PRESSURE SEWER CLEANER
And VACUUM EXTRACTOR
PUBLIC WORKS DEPARTMENT - UTILITY DIVISION**

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ADVERTISEMENT FOR BIDS
One (1) New High Pressure Sewer Cleaner and Vacuum Extractor
Public Works Department - Utility Division

Notice is hereby given that sealed bids will be received by the Council of the City of Aberdeen, South Dakota at the office of the City Finance Officer, Auditor Division, 123 S. Lincoln Street, Aberdeen, SD 57401-4215 until 2:00 o'clock p.m. local time on the **5th of April, 2022**, at which time bids will be publicly opened, read and referred to the Council of the City of Aberdeen for furnishing:

One (1) New High Pressure Sewer Cleaner and Vacuum Extractor for the Public Works Department - Utility Division

Copies of the Specifications, and other proposed contract documents are available on the City of Aberdeen web site at www.aberdeen.sd.us under the bids section and also on file at the City Finance Office Auditor Division, and the City Public Works Office, Aberdeen, South Dakota, and will be available at no cost from the latter.

Bids shall be submitted in accordance with the specifications. All bids shall be plainly marked on the outside of the envelope with the words "**Bid for One (1) New High Pressure Sewer Cleaner and Vacuum Extractor for the Public Works Department - Utility Division**"

Each bid in excess of \$25,000 shall be accompanied by a **ten per cent (10%) Bid Bond or a certified check or a cashier's check in an amount equal to at least five per cent (5%) of the total gross bid**, the same to be issued by a solvent bank authorized to operate in South Dakota, and made payable to the City of Aberdeen, South Dakota, or by an irrevocable Letter of Credit for one hundred percent (100%) of the amount of the bid from a financing agency of good repute and deemed acceptable to the City of Aberdeen. These securities are to be guarantees that if the Proposal is accepted, a contract will be entered into by the Bidder. Contracts in excess of \$25,000 may require a Payment Bond and a Performance Bond acceptable to the City Council of the City of Aberdeen, South Dakota, for one hundred per cent (100%) of the Contract, in conformance with the requirements of the Contract documents. No bid may be withdrawn within a period of thirty (30) days after the date fixed for opening bids.

The City Council of Aberdeen, South Dakota reserves the right to reject any and all bids, waive irregularities and accept the bid it deems most favorable and in the best interest of the City of Aberdeen after all bids have been examined.

By Order of the City Council of Aberdeen, South Dakota.

Dated this 22nd Day of March 2022

By: _____



Karl Alberts
Finance Officer

INSTRUCTIONS TO BIDDERS

B-1.BIDS. Each bid shall be legibly written or printed in ink on the form provided in this bound copy of proposed contract documents. No alterations in bids, or in the printed forms therefor, by erasures, interpolations, or otherwise will be acceptable unless each such alteration is signed or initialed by the bidder; if initialed, the Owner may require the bidder to identify any alteration so initialed. No alteration in any bid, or in the form on which it is submitted, shall be made after the bid has been submitted. All addenda to the contract documents, properly signed by the bidder, shall accompany the bid when submitted.

The bid form shall be completed for any individual section or combination of sections at the bidder's option. The Questionnaire shall be completed for all items applicable to the sections bid.

Each bid shall be enclosed in a sealed envelope or wrapping, addressed to the City Council of the City of Aberdeen, South Dakota, identified on the outside with the words and filed with the office of the Deputy Finance Officer, Auditor Division.

No bidder may submit more than one bid per item. Multiple bids under different names will not be accepted from one firm or association.

B-2. BID SECURITY. Each bid ***in excess of \$25,000*** shall be accompanied by any one of the following:

- (1) A certified check, cashier's check, or draft certified or issued by a state or national bank for five per cent (5%) of the amount of the total gross bid, or
- (2) A bid bond issued by a surety authorized to do business in South Dakota for ten percent (10%) of the amount of the total gross bid; or
- (3) An irrevocable letter of credit for one hundred per cent (100%) of the amount of the total gross bid from a financing agency of good repute and deemed acceptable to the City of Aberdeen,

all in accordance with SDCL 5-18A and SDCL Ch. 57A-5.

The bid security shall be made payable without condition to the City of Aberdeen, South Dakota, hereinafter referred to as Owner. The bid security may be retained by and shall be forfeited to the Owner as liquidated damages if the bid is accepted and a contract based thereon is awarded and the bidder shall fail to enter into a contract in the form prescribed, with legally responsible sureties, within ten (10) days after such award is made by the Owner.

B-3. RETURN OF BID SECURITY. The bid security of each unsuccessful bidder will be returned when his bid is rejected. The bid security of each bidder to whom a contract is awarded will be returned when he executes the contract. The bid security of each second lowest responsible bidder may be retained for not to exceed thirty (30) days pending the execution of the contract and bond by the successful bidder.

B-4. WITHDRAWAL OF BID. No bidder may withdraw his bid for thirty (30) days after the date and hour set for the opening. A bidder may withdraw his bid any time prior to expiration of the period during which bids may be submitted by a written request signed in the same manner and by the same person who signed the Bid Form.

B-5. ACCEPTANCE AND REJECTION OF BIDS. The Owner reserves the right to accept the bid which, in its judgment, is the lowest and best bid, to reject any or all bids, and to waive irregularities or informalities in any bid. Bids received after the specified time of closing will be returned unopened.

B-6. SIGNATURE OF BIDDERS. Each bidder shall sign the Bid Form using his usual signature and giving his full business address. Bids by partnerships shall be signed with the partnership name followed by the signature and designation of one of the partners or other authorized representative. Bids by corporations shall bear the corporate seal and shall be signed with the name of the corporation followed by the signature and designation of the president, secretary, or other person authorized to bind the corporation. Bids by joint ventures shall be signed by each participant in the joint venture or by an authorized agent of each participant and each shall indicate whether the participant is doing business as an individual, partnership or corporation. The names of all persons signing shall also be typed or printed below the signature. A bid by a person who affixes to his signature the word "president", "secretary", "agent", or other designation without disclosing his principal may be held to be the bid of the individual signing. When requested by the Owner, evidence of the authority of the person signing shall be furnished.

B-7. INTERPRETATION OF CONTRACT DOCUMENTS. If any person who contemplates submitting a bid is in doubts to the true meaning of any part of the drawings, specifications, or other proposed contract documents he may submit to the Engineer a written request for an interpretation thereof. The person submitting the request shall be responsible for its prompt delivery. Interpretation of the proposed contract documents will be made only by addendum. A copy of each addendum will be available for download on the City of Aberdeen website, www.aberdeen.sd.us under the bids link. The Owner will not be responsible for any other explanations or interpretations of the proposed contract documents.

B-8. TIME OF COMPLETION OR DELIVERY. The time of completion of the work is a basic consideration of the contract, and the construction period named in the Bid Form will be taken into consideration in making the award of the contract. The bidder, however, is cautioned against promising an early completion or delivery date only to secure favorable consideration of his bid. It will be necessary that the bidder satisfy the Owner of his ability to complete the work within the stipulated time. **Delivery shall be 12 months from the date on the Notice of Award.**

B-9. QUALIFICATION OF BIDDERS. Bidders will be required to submit evidence that they have a practical knowledge of the particular work bid upon and that they have the financial resources to complete the proposed work.

In determining the bidder's qualifications, the following factors will be considered: Work previously completed by the bidder and whether the bidder (a) maintains a permanent place of business, (b) has adequate plant and equipment to do the work properly and expeditiously, (c) has the financial resources to meet all obligations incident to the work, and (d) has appropriate technical experience.

Each bidder may be required to show that he has handled former work so that no just claims are pending against such work. No bid will be accepted from a bidder who is engaged on any work which would impair his ability to perform or finance this work.

B-10. TAXES AND PERMITS. Attention is directed to the requirements of the General Conditions regarding payment of taxes and obtaining permits. The City of Aberdeen is not exempt from taxes levied by the State of South Dakota.

B-11. SECURITY FOR PERFORMANCE. Each bidder to whom a contract is awarded in excess of \$25,000 will be required to furnish a Performance Bond or an Irrevocable Letter of Credit to the Owner in an amount equal to one hundred per cent (100%) of the contract price.

The bond shall be executed on the form included in the contract documents by a surety company authorized to do business in the State of South Dakota and acceptable as Surety to the Owner.

Accompanying the bond shall be an Acknowledgment of Principal and Acknowledgment of Surety on the form bound herewith and a "Power of Attorney" authorizing the attorney-in-fact to bind the surety company and certified to include the date of the bond.

B-12. BOUND COPY OF CONTRACT DOCUMENTS. Not Applicable.

The Contractor to whom a contract is awarded will be furnished, without cost to him, three (3) copies of the specification pertaining to this bid.

B-13. BIDDER RESPONSIBILITY FOR WORK. Equipment bids are F.O.B. 1002 3rd Avenue SW, Aberdeen SD. In the event that multiple vendors are involved to provide a complete operational unit, delivery responsibilities will be delegated in the specifications section.

B-14. SUBCONTRACTORS. The apparent low bidder on each section, and any other bidder so requested, shall within three (3) days after the day of the bid opening submit to the Owner a list of subcontractors proposed to perform any part of the work totaling more than 20% of the contract price.

The list shall be accompanied by an experience statement with pertinent information as to similar projects and other evidence of qualification for each subcontractor named. If the Owner has reasonable objections to any proposed subcontractor, he may before giving a notice of award request the apparent low bidder to submit an acceptable substitute without change in the bid price. If the bidder declines to make a substitution, he will not thereby sacrifice his bid security. Any subcontractor listed and to whom the Owner does not make written objection prior to giving notice of award will be deemed acceptable to the Owner and Engineer. No Contractor shall be required to employ any subcontractor against whom he has reasonable objection.

B-15. ORIGIN AND DAMAGE DISCLOSURE STATEMENT. Suppliers will be required to furnish a title or manufacturer's statement of origin and damage disclosure statement at the time of delivery. Final payment will not be made on motor vehicles until these documents are furnished.

B-16. SOUTH DAKOTA RESIDENT CONTRACTOR PREFERENCE. A South Dakota resident bidder will be allowed a preference on this contract against the bid of any bidder from any other state which enforces or has a preference for resident bidders. The amount of preference given to the South Dakota low resident bidder will be equal to the preference given in the other state.

**ONE (1) HIGH PRESSURE SEWER CLEANER
and VACUUM EXTRACTOR
FOR PUBLIC WORKS DEPARTMENT - UTILITY DIVISION
BID PROPOSAL FORM**

Date: March 22, 2022

**TO: City Manager and City Council Members
Aberdeen, South Dakota**

PROPOSAL

The undersigned, being familiar with the local conditions affecting the cost of the work and with the specifications on file in the office of the City Engineer of Aberdeen, South Dakota, hereby propose to furnish all labor, equipment, and materials required to perform the work all in accordance with the specifications.

DESCRIPTION

OPTION #1 – WITH TRADE ALLOWANCE

Furnish one new high pressure sewer cleaner and vacuum extractor and truck, mounted and delivered F.O.B. Aberdeen, South Dakota for the lump sum of:

\$ _____

LESS TRADE ALLOWANCE

2014 Aqua-Tech– Freightliner Truck Chassis

(\$ _____)

NET BID

\$ _____

EQUIPMENT DATA

Brand Name _____

Model _____

Body Capacity – Cu. Yd. _____

Truck _____

GVW _____

Approx. Delivery Date _____

The bidder agrees to furnish the required Bonds and to enter into a contract within ten (10) days after acceptance of this bid.

In submitting this bid it is understood that the right is reserved by the Owner to reject any and all bids, and it is understood that this bid may not be withdrawn during a period of thirty (30) days after the scheduled time for the receipt of bids.

The bidder hereby certifies (a) that this bid is genuine and is not made in the interest of, or in the behalf of, any undisclosed person, firm, or corporation, and is not submitted in conformity with any agreement or rules of any group, association, with any agreement or rules of any group, association, organization, or corporation; (b) that he has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid (c) that he has not solicited or induced any person, firm or corporation to refrain from bidding and (d) that he has not sought buy collusion to obtain for himself any advantage over any other bidder or over the Owner.

Yes _____

No _____

The bidder acknowledges receipt of the following addenda:

No. _____ Dated

No. _____ Dated

No. _____ Dated

Enclosed herewith is a (certified check), (bid bond) in the amount of _____% of the bid which the undersigned agrees is to be forfeited to and become the property of the City of Aberdeen, should this proposal be accepted and the contract awarded to us and we shall fail to enter in the contract and furnish the specified bond. The check shall be returned to the undersigned upon the signing and acceptance of the executed contract and executed bond by the City.

Bid For: One (1) High Pressure Sewer Cleaner and Vacuum Extractor

Date: March 22, 2022

SIGNATURE OF BIDDER(s):

If an Individual: _____

doing business as: _____

If a Partnership: _____

By _____, partner

If a Corporation:

By _____, (Seal)

Title _____

If a Joint Venture (Both must sign)

By _____,

Title _____

By, _____

Title _____

Business address to which Notice of Award is to be sent:

SPECIFICATIONS

SECTION A: High Velocity Combination Sewer Cleaner

General: 10 Cubic Yard Debris and 1500 Gallons Water

The system described herein consists of one new mobile sewer and catch basin cleaning machine. The system shall be capable of simultaneous high-pressure sewer line cleaning/flushing and air/vac pick up of all liquids and solids from sewers and catch basins. This simultaneous operation will provide for maximum water pressure and vacuum at an engine speed not to exceed recommended RPM allowing for an adequate reserve horsepower from the engine. Controls for all functions shall be operable at the rear operator's station.

DEBRIS STORAGE TANK

The debris tank volume shall be 10 cubic yards and 9.5 cubic yards minimum usable capacity.

(Yes) _____ (No) _____

The cylindrical (round) debris tank shall be constructed from A/36 50,000 PSI 1/4" steel to withstand a vacuum of not less than 360 column inches of water. The use of square, oblong or oval tanks which require heavy steel plates and additional welding will not be acceptable.

(Yes) _____ (No) _____

The entire debris tank shall be hinged at the rear and designed for hydraulic dumping at 45 degrees.

(Yes) _____ (No) _____

The debris will need to free flow out of the tank.

(Yes) _____ (No) _____

A steel splash shield shall be permanently attached under the rear door to direct the debris away from the rear of the tank when dumping.

(Yes) _____ (No) _____

A full diameter, height/width, top hinged rear door shall hydraulically open and close to a 90-degree angle to eliminate dragging the door through the discharged debris. This shall be accomplished by means of a power open, power close hydraulic cylinder. For ease of maintenance, cleaning and dumping half door, flat steel doors will be considered unacceptable.

(Yes) _____ (No) _____

The door shall seal by a heavy duty rubber seal attached to the debris tank shell.

(Yes) _____ (No) _____

The door shall seal by means of four individual hydraulic cylinder locks, which shall eliminate the need for any system requiring unlatching at the rear of the unit. This shall provide for maximum safety to operating personnel. The use of high maintenance, mechanical linkages will be unacceptable.

(Yes) _____ (No) _____

Two 5 in. tempered glass liquid level sight eyes shall be installed on the rear door to indicate liquid level. High maintenance, mechanical body load indicators with float devices are unacceptable.

(Yes) _____ (No) _____

An automatic stainless steel ball check valve will be installed inside the debris tank to prevent over-filling. When debris tank is full, the ball check valve shall automatically stop the flow of air to the exhauster, therefore, protecting it from water intake.

(Yes) _____ (No) _____

A manual tank prop shall be supplied.

(Yes) _____ (No) _____

The air drawn from the debris body must pass through a filter screen with adequate size to protect the vacuum system. The screen shall be easily removable from ground level.

(Yes) _____ (No) _____

A 6 in. diameter bronze, quick opening gate valve and 10' X 6" lay flat hose with storage rack will be located on the bottom of the rear door, no higher than 5 feet above ground level to allow for the removal of excess liquids. A screen covering a minimum of $\frac{3}{4}$ of the rear door area shall allow for 80% of debris tank liquids to be drained off without raising debris tank. The screen shall pivot during the dump cycle to allow for easy cleaning.

(Yes) _____ (No) _____

The Debris body shall be equipped with automatic debris flush out system in which both top tank and bottom floor flusher are included. The top tank flush out should consist of two spray boxes mounted to the top of the tank with jets covering 360 degrees around itself. The floor flushers should be mounted towards the bottom at an angle to undercut the material. Both flushers should be plumbed 1" producing 80 gpm for maximum efficiency in the field.

(Yes) _____ (No) _____

The Debris body shall be equipped with a hydraulically driven tank vibrator operated with a toggle switch. The toggle switch shall be mounted on curb side, so the operator can stand clear of the debris while he completes the clean out process.

(Yes) _____ (No) _____

Water Tank

A minimum usable capacity of 1500 gallons supplied for the operation of the sewer flushing system. All tanks shall be mounted above the chassis frame to eliminate potential road damage.

(Yes) _____ (No) _____

Water tank(s) will have a 10 year warranty. A copy of the warranty shall be submitted with the bid.

(Yes) _____ (No) _____

Bidder shall provide an annual inspection of the water tanks at no additional cost for the life of the warranty.

(Yes) _____ (No) _____

A water fill system with direct full flow from the water hydrant shall be located at the curb-side and top of the unit. The 2.5 in National Standard Fire thread female swivel connection shall be provided for the complete filling of the water tank system.

(Yes) _____ (No) _____

The fill system shall include an air gap anti-siphon design to protect the portable 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.

(Yes) _____ (No) _____

The water supply to the pump shall allow dumping of the debris tank and operation of the water pump while in the full dumped position. To insure a complete cleanout of sediment, the water tanks shall also raise with debris body during dump mode. A 2.5 in. quick opening drain in the lowest point of the water tank system shall be included allowing for periodic flushing out of water tank sediments.

(Yes) _____ (No) _____

WATER PUMP SYSTEM

The system shall include a heavy-duty water pump. The pump shall be capable of operating flow from 0-80 GPM and from pressures from 0-2000 PSI without changing nozzles. Pump shall have a five-year warranty. A copy of the pump manufacturer's statement of warranty shall be submitted with the bid.

(Yes) _____ (No) _____

An inlet strainer shall be provided, it shall allow for easy cleaning without the use of tools, and may be cleaned with the tanks full.

(Yes) _____ (No) _____

The pump shall be mounted above the chassis frame.

(Yes) _____ (No) _____

The truck chassis engine shall drive the water pump via a heavy-duty split shaft power take off, and a variable speed "Kevlar" reinforced Poly Chain. Engagement/disengagement can be accomplished either from inside the cab or at the operator's station via dual clutch PTO. The use of low cost transfer cases, high maintenance hydraulic drives or auxiliary engines, or standard cogged drive belts will not be acceptable.

(Yes) _____ (No) _____

Pump engagement/disengagement shall be by means of a toggle switch on rear of truck at operator's station.

(Yes) _____ (No) _____

An air valve for purging the water from the pump system for storage shall be provided, pull valves shall be supplied on the pump to drain trapped water within the pump.

(Yes) _____ (No) _____

A single three-way water flow control valve shall be provided and operated by a manual lever at the operator's station.

(Yes) _____ (No) _____

The entire pressure piping system shall be designed in 1 in I.D. minimum with a pressure relief valve set at maximum operating pressure of 2500 PSI and sealed at the factory.

(Yes) _____ (No) _____

(Yes) _____ (No) _____

A system for recirculating the water through the entire system shall be supplied.

(Yes) _____ (No) _____

An air operated unloader valve shall be installed on the unit for ease of controlling the amount of water being used out the end of the sewer hose. Flow control shall be placed for the operator to control the flow coming out of the pump to the end of the hose ranging from 0-80 gpm.

(Yes) _____ (No) _____

AIR VAC SYSTEM

The system shall include a positive displacement rotary lobe type exhauster. This system shall be capable of a minimum 217 inches of negative water pressure at 3600 CFM. Air conveyance systems are not acceptable.

Comply (Yes) _____ (No) _____

Lubrication for the positive displacement exhauster shall be by means of self-contained splash system with sight eyes provided to check oil level

(Yes) _____ (No) _____

The rating of the vacuum system at sea level will be a minimum of 217 column inches of water at maximum RPM.

(Yes) _____ (No) _____

The truck chassis engine shall drive the positive displacement exhauster via a heavy duty split shaft power take off, and a variable speed “Kevlar” reinforced Poly Chain. Engagement/Disengagement can be accomplished either from inside the cab or at the operator’s station. The use of low cost transfer cases, high maintenance hydraulic drives or auxiliary engines will not be acceptable.

(Yes) _____ (No) _____

Blower engagement and disengagement shall be by means of a toggle switch on rear of truck at operator’s station.

(Yes) _____ (No) _____

A vertically mounted, single stage, stainless steel micro-strainer in a centrifugal separator will be incorporated between the exhauster and the debris tank. It shall be vertical mounted to shall allow the settling of contamination out of the main airflow.

(Yes) _____ (No) _____

Vacuum unloader valves will be built into the vacuum system to maintain high negative pressure.

(Yes) _____ (No) _____

A vacuum/pressure gauge shall be supplied at the operator’s station.

(Yes) _____ (No) _____

A self-aligning connection between the debris tank and the air-vac system shall be supplied.

(Yes) _____ (No) _____

SUCTION INTAKE BOOM

Debris loading into the tank will be through a one (1) piece 8” extra heavy-duty wire reinforced rubber hose assembly that allows for periodic rotation to prevent premature wear of the entire assembly. Boom hose assemblies with costly metallic elbows that cannot be rotated are unacceptable.

(Yes) _____ (No) _____

The boom shall rotate a minimum of 360 degrees by a gear drive.

(Yes) _____ (No) _____

Rotation, extension, lift and air vac valve shall be controlled by a portable pendant control from any location around the machine. The control panel shall be equipped with a joystick to operate all functions of the boom at the workstation.

(Yes) _____ (No) _____

The boom shall extend 4 ft.6 inches to a minimum of 25 ft. and rise to a height of 25 ft.

(Yes) _____ (No) _____

Boom shall be front loading to ensure that when filling debris tank, liquids are by design, transferred towards a rear discharge door allowing for maximum storage of debris starting at front of debris tank filling to the rear towards the discharge door creating, a maximum center of gravity load between the chassis front and rear axles for maximum driver control and stability.

(Yes) _____ (No) _____

The boom shall be capable of lifting 1000 LB's minimum.

(Yes) _____ (No) _____

INTERNAL BOOM VALVE

If a positive displacement exhauster is supplied, an internal boom valve shall be supplied. The valve shall pneumatically be operated for greater speed and located outside the debris tank.

Comply (Yes) _____ (No) _____

By closing the internal boom valve, the operator will completely stop all airflow through the vacuum tube allowing the user to build an instantaneous 217 in. of water volume vacuum within the debris tank.

(Yes) _____ (No) _____

By quickly opening the valve, an updraft will loosen compacted solids that would normally require removal by mechanical means.

(Yes) _____ (No) _____

HOSE REEL ASSEMBLY

The hose reel shall be mounted on the rear door of the unit, the reel shall rise with the rear door during the dump cycle so as to prevent debris from being dumped on the reel. The mounting system shall be heavy duty and require no foot style support. Such systems utilizing foot stabilizers shall be deemed unacceptable due to maintenance considerations.

(Yes) _____ (No) _____

The hose reel shall be mounted to assure adequate ground clearance, and to allow for access to manholes behind hi-way guard rails.

(Yes) _____ (No) _____

The reel capacity shall be a minimum of 800 feet of 1" I.D. sewer hose.

(Yes) _____ (No) _____

The reel and control panel shall hydraulically articulate into a position over the manhole on a 180 degree arc. The hinge for articulation shall be on the curbside of the rear door. The articulation shall allow the reel to be positioned directly over a manhole located five feet off the curb.

(Yes) _____ (No) _____

Sewer hose payout and retrieve shall be accomplished by two

means: (1) toggle switch at operator's panel, and (2) pneumatic foot pedals as to allow operator hands free operation and to eliminate electrical shorts.

(Yes) _____ (No) _____

Reels that swivel or rotate over a center axis, or require a stability foot will not be considered as equal.

(Yes) _____ (No) _____

The reel shall travel a working radius of 9 ft. from left to right to facilitate manhole entry. The hose reel shall automatically lock into place.

(Yes) _____ (No) _____

A heavy-duty dual roller hose level wind guide will assist the operator in placing the hose evenly on the hose reel. A footage counter shall be installed on the level wind counting hose as it passes through. The level wind should open up by pulling a pin to remove hose from level wind. Counting systems counting reel rotation are not considered accurate and will be deemed unacceptable.

(Yes) _____ (No) _____

CLEANING HOSE

The unit shall be delivered with a minimum of 600 ft. of 1 in. I.D. sewer hose with 2500 PSI working pressure.

(Yes) _____ (No) _____

The unit shall come complete with a 10 ft. of flexible leader hose.

(Yes) _____ (No) _____

OPERATING CONTROLS, GAUGES, AND INSTRUMENTS

A portable pendant control with a quick disconnect shall be attached to the unit and operate all power functions of the boom. It will include power rotation with an automatic position lock, hydraulic boom movement up and down, plus telescoping in/out, and the air-vac internal boom valve. The boom will also be controlled via a 6-function joystick mounted at the rear operator's station.

(Yes) _____ (No) _____

Hydraulic controls to open and close the debris tank door as well as raise and lower the debris and water tanks, lock and unlock the rear door will be at the curb side of the unit, well forward to the dumping area to provide maximum operator safety.

(Yes) _____ (No) _____

In addition, the following gauges and controls shall be mounted at eye level for ease of viewing on the hose reel assembly.

(Yes) _____ (No) _____

Chassis Tachometer

(Yes) _____ (No) _____

Vacuum Gauge

(Yes) _____ (No) _____

Hose reel speed control

(Yes) _____ (No) _____

Water pressure gauge

(Yes) _____ (No) _____

Electronic actuated engine throttles, one at each control panel mounted, and one at location of debris tank hydraulic dump valve.

(Yes) _____ (No) _____

MISC., TOOLS, ACCESSORIES, STORAGE

2 locking, aluminum toolboxes shall be provided. The box shall be constructed of 100 Aircraft grade, diamond plate tread bright aluminum with a mirror finish. It shall be sealed and weatherized with stainless steel "T" latches 1 street side, 1 curb side.

(Yes) _____ (No) _____

Tube storage brackets shall be provided to accommodate (4) 6"x 6-ft. extension, a 6" x 2' fluidizer tube, and one 6" x 6-ft intake tube.

(Yes) _____ (No) _____

Truck shall be equipped with a 8" x 6" reducer to accommodate 6" diameter tubes.

Comply (Yes) _____ (No) _____ Will supply _____

Aluminum fenders shall be installed to protect the unit from road material during transport. The unit will have mud flaps connected to the fenders.

Comply (Yes) _____ (No) _____ Will supply _____

STANDARD ITEMS TO BE INCLUDED

Quantity	Item
1	15 Degree Nozzle
1	35 Degree Nozzle
2	Lower Hose Guide (plastic)
2	Service Manuals
1	Tube Connector Tool
1	2 Pints Touch-up Paint (1 chassis black 1 Body color match)

Comply (Yes) _____ (No) _____ Will supply _____

PAINT

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 coats of Acrylic Enamel or equal paint to match chassis cab. Color to be White.

LIGHTS

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.

Comply (Yes) _____ (No) _____ Will supply _____

The truck shall be equipped with (6) flashers installed in requested locations.

Comply (Yes) _____ (No) _____ Will supply _____

The truck shall be equipped with (3) strobe lights, (2) mounted on the body, and the other mounted on the cab.

Comply (Yes) _____ (No) _____ Will supply _____

There shall be a LED arrow stick installed on the rear of the body to direct traffic. The controls will be mounted in the cab so the operator can safely direct traffic before exiting the vehicle.

Comply (Yes) _____ (No) _____ Will supply _____

WARRANTY

Bidder must indicate warranty offered, which shall be no less than twelve months parts and labor. Any special extended warranty coverage on specific items must be indicated

Comply (Yes) _____ (No) _____ Will supply _____

SPECIFICATIONS

SECTION B: TRUCK CHASSIS

1. 2022 or newer Truck, Engine to be 370 minimum HP Cummins L9 turbo diesel with an electronic governor. Each bidder shall supply literature and specifications on truck chassis and engine manuals.
2. Alternator to be 300 AMP minimum Brushless.
3. Engine warning and shutdown on low oil pressure and high temperature.
4. Integral power steering.
5. One (1) seventy (70) gallon aluminum fuel tank minimum.
7. Front and rear tires to be tubeless radial to meet the required GVW rating of the combined unit.
8. Hub Pilot Aluminum Wheels.
9. Front axle and suspension to be 18,000 lbs. minimum or more if required. Tires to match suspension rating.
10. Rear axle and suspension to be 46,000 lbs. minimum tandem axle.
11. Transmission to be an Allison 3000 RDS Automatic with PTO provision.
12. Cab interior to include standard features plus dual sun visors, air ride seat, passenger seat and two senior west coast mirrors. Included shall be an AM/FM radio.
13. Chassis motor cooling system to be winterized to -35 degrees Fahrenheit.
15. Chassis cab, color to be white.
16. Chassis of truck shall have front and rear tow hooks.
17. Maintenance free batteries will be 12 volt (800 cranking AMP minimum each) 100 amp/hr operating minimum.
18. Instrumentation provided shall include ammeter, oil pressure, engine temperature, fuel level, transmission oil temperature, and tachometer and all exterior lights and signals to meet federal highway requirements.
19. There shall be two grab handles for entering the chassis cab. One on each side.

20. Chassis shall have rear mud flaps mounted on spring type hangers – unit to be provided with fenders.
21. Hour meter on chassis engine shall be included. Chassis to be programmed to log engine run hours while stationary and working but not logging miles on the odometer.
22. Maximum height of the completed unit not to exceed 132 inches.
23. Full air brakes complete with piggy back parking brake and low air pressure alarm. Automatic slack adjusters all around. ABS brakes
24. Air compressor - 13 CFM minimum with air dryer.
25. Heater, defroster and air conditioning to be included.
26. Donaldson two-stage air cleaner with air cleaner restriction gauge.
27. Exhaust system to rise vertically behind the cab and terminate in a 45° elbow.
28. Vendor to provide truck chassis of appropriate length to support the unit mounted to the chassis. The unit shall be apportioned so that the finished operating unit is legal weight at full water capacity and/or full debris capacity.
29. The machine described in Section A shall be mounted on the described truck chassis at the factory of the body manufacturer. All transportation charges shall be included. Sewer cleaner shall remain the property of the manufacturer until delivered to the owner and accepted by authorized personnel.
30. Successful bidder will furnish one (1) complete set of manufacturers specifications; and one (1) complete set of parts, owners, service, and engine manuals or two (2) set of CDs, or online link.
31. Warranty information shall be provided.
32. The trade-in is a 2014 Aqua-Tech unit number 515A mounted on a 2015 Freightliner truck chassis, diesel engine, with 25,452 miles as of 3/22/2022, VIN 1FVHCYCY8FHGJ9540. The trade-in can be inspected at the City Utility Shop at 1002 SW Third Avenue, Aberdeen, SD. The trade-in model will not be released until the new model has been delivered and is ready for use.
33. Truck supplier will be required to furnish manufacturers statement of origin and damage disclosure statement at the time of delivery. Final payment will not be made until these documents are furnished and payment is approved by the City Council.

MATERIAL and/or SERVICE CONTRACT
MUNICIPAL PROJECT

THIS AGREEMENT, made and entered into this _____ day of _____, 2022, between the City of Aberdeen, a municipal corporation of the State of South Dakota, hereinafter referred to as City, and _____, City of _____, County of _____, State of _____, hereinafter referred to as _____.

For the consideration set forth herein, the parties agree as follows:

1. _____ being the lowest and best bidder, shall provide to the City the following: _____

materials and services described above shall be provided in accordance with the bid made by _____, pursuant to the Notice to Bidders and specifications on file in the Finance Office of the City and by reference made a part hereof as if set forth herein in full.
2. City shall pay _____ the price and amount set forth in _____'s bid upon delivery to and acceptance by the City of _____ herein described and on filing by _____
3. This agreement shall be inoperative during such period of time as delivery or acceptance may be rendered impossible by reason of fire, strike, act of God, government regulation or other cause beyond the control of either party.
4. This agreement shall be binding on the assigns and successors of the parties.

In witness whereof, the parties have executed this agreement at Aberdeen, South Dakota, the day and year first above written.

ATTEST:

CITY OF ABERDEEN, a municipal corporation

Finance Officer

By _____

Joe Gaa/City Manager

* * * * *

Company Name

(CORPORATE SEAL)

By _____

Title _____

(This document must be signed with the full name of the Contractor. If the Contractor is a partnership, it must be signed in the partnership name by one partner. If this document is signed by a Contractor that is a Corporation, it must be signed in the Corporate name by a duly authorized Officer and the Corporate Seal affixed and attested by the Secretary of the Corporation.)

* * * * *

The contract and bond are in due form according to law and are hereby approved.

Attorney for City

ACKNOWLEDGMENT OF CORPORATION

STATE OF _____)s
_____)
COUNTY OF _____)s

On this ____ day of _____, 2022, before me, _____,
the undersigned officer, personally appeared _____,
who acknowledged himself to be the _____ of
_____, a corporation, and that he, as such,
_____ being authorized to so do, executed the foregoing
instrument for the purposes therein contained, by signing the name of the corporation
by himself as _____.

In witness whereof I hereunto set my hand and official seal.

_____, Notary Public
_____ County, State of _____
My Commission Expires: _____

ACKNOWLEDGMENT OF PUBLIC OFFICERS

STATE OF SOUTH DAKOTA
COUNTY OF BROWN

On this ____ day of _____, 2022, before me, the undersigned
officer, personally appeared Joe Gaa/City Manager of the City of Aberdeen, a municipal
corporation of the State of South Dakota, and Karl Alberts, Finance Officer of the City of
Aberdeen, known to me or satisfactorily proven to be the persons described in the
foregoing instrument, and acknowledged that they executed the same in the capacity
therein stated and for the purposes therein contained.

In witness whereof I have hereunto set my hand and Official Seal.

Notary Public,
Brown County, State of South Dakota
My Commission Expires: _____

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