



Contract 3564P

Supply and Delivery of Two (2) Tandem Axle Cab and Chassis - 12 Yard Positive Displacement C/W (1024-18" Blower) Combination Catch Basin Sewer Cleaner Hydro Excavator Trucks

1. Introduction

The City of Richmond is searching the marketplace for two (2) new 12 – yard positive displacement (c/w 1024-18” blower) combination catch basin sewer cleaner hydro excavator trucks (the “Sewer Trucks”).

The objective of this request for proposal is to provide the City with qualified proponents capable of carrying out the work herein defined. The subsequent proponent submissions will form the basis for evaluation, interview and selection.

2. Submission Details

Four (4) copies of proposals marked “**Supply and Delivery of Two (2) Tandem Axle Cab and Chassis - 12 Yard Positive Displacement C/W (1024-18" Blower) Combination Catch Basin Sewer Cleaner Hydro Excavator Trucks Contract 3564P**” addressed to the Purchasing Section, will be received at the Information Counter, Main Floor, Richmond City Hall, 6911 No. 3 Road, Richmond BC V6Y 2C1, until **12:00 Noon local time, Tuesday, June 23, 2009**. Submissions received after this time will be returned to the sender.

The City reserves the right to cancel this Request for Proposal for any reason without any liability to any proponent or to waive irregularities at their own discretion.

Proposals may be withdrawn by written notice only provided such notice is received at the office of the City’s Purchasing Section prior to the date/time set as the closing time for receiving proposals.

Proposals shall be open for acceptance for 90 days following the submission closing date.

All proposals will remain confidential, subject to the Freedom of Information and Privacy Act (BC).

Any interpretation of, additions to, deletions from, or any other corrections to the Proposal document, will be issued as written addenda by the City of Richmond. It is the

sole responsibility of the potential Bidders to check with the City of Richmond's Website, and / or BC Bid to ensure that all available information has been received prior to submitting a bid.

Except as expressly and specifically permitted in these instructions, no proponent shall have any claim for any compensation of any kind whatsoever, as a result of participating in the RFP, and by submitting a proposal each proponent shall be deemed to have agreed that it has no claim.

3. Enquiries

3.1 Clarification of terms and conditions of the proposal process shall be directed to:

Purchasing

Sumita Dosanjh
Buyer II - Contracting Specialist
Purchasing Department
City of Richmond

Telephone: 604-276-4097
E-mail: purchasing@richmond.ca

3.2 Technical clarification shall be directed to:

Technical

Mike Lederer
Trades Foreman II - Fleet Operations
Fleet Ops & Env Programs
City of Richmond

Telephone: 604-244-1255
E-mail: mlederer@richmond.ca

The City, its agents and employees shall not be responsible for any information given by way of verbal communication.

Any questions that are received by City of Richmond Staff that affect the Proposal Process will be issued as addenda by the City of Richmond.

4. Project Background

Currently the City of Richmond has 2 sewer cleaner trucks in their fleet. One of the new units will replace an existing unit and a third unit is required due to expansion. The expansion is due to the service level requirements within the City and infrastructure growth.

5. Project Scope

The City's minimum requirement criteria for the Sewer Trucks is outlined in this RFP. Bidders are invited to submit alternatives, options, and/ or upgrades.

6. City Provided Items

The City will provide their shop facility for evaluation and demonstration purposes and off-site areas within the City for performance evaluation of the Sewer Trucks.

7. Site Visit

The City will be conducting site visits of selected suppliers. The site visits may include mechanical and product support locations.

8. Performance Guarantee

The City requires performance guarantees and associated penalties related to late delivery of the Sewer Trucks.

9. Project Schedule

Proponents shall submit a delivery schedule with their proposal.

10. Criteria

CRITERIA REQUIREMENTS	STATE CRITERIA
<p><u>A. GENERAL CRITERIA</u> Conventional Tandem axle cab and chassis configured as outlined below.</p> <p>Both units must have 66,000 lb GVWR. Chassis will require a rating sufficient for Flusher/Cleaner work.</p> <p>The units must incorporate features that provides for ease of operation and maximum safety for the public and operator. Evaluations of these features will be made and will contribute to the decision of the tender award.</p> <p>The bidder shall respond to every item indicating the item is included as described in the specifications or any alternatives suggested.</p> <p>Details for the alternatives must be provided in the appropriate section. STATE -make and model -alternatives -options</p> <p>A. CHASSIS</p> <p>1. Cab & Chassis A conventional tandem axle type cab and chassis configured primarily for dump truck and Sewer Flusher/Cleaner having capability for driver and one (1) passenger. STATE -type -options</p> <p>2. Cab to Axle Approximately 181 inches of clear cab to axle. Cab to body clearance of 6 inches STATE -cab to axle distance -cab to body clearance -options</p> <p>3. Wheelbase Wheelbase for applications is to be fitted for two (2) combination Flusher/Cleaner approximately 12 yards, wheelbase 256.0. STATE -wheelbase -options</p>	

CRITERIA REQUIREMENTS	STATE CRITERIA
<p>4. Cab Dimensions Preference will be given to large interior proportioned conventional cab design. STATE -front bumper to rear of cab distance -front axle to rear of cab distance -options</p> <p>5. Vehicle Weight Proposed vehicles shall have approximate operating weight capability as follows: approx. – (66,000lbs) GVWR. Units shall be equipped with on board scale system located in the cab with clear visibility for the operator. STATE -GVWR -GCVWR -options</p> <p>6. Base Curb Weight - Cab & Chassis STATE -front -rear -combined</p> <p>7. Tow Hooks Two (2) front tow hooks. Each hook mounted directly to the frame rails at either side. STATE -what is offered -options</p> <p>8. Frame Rails A clean top of frame full CA distance, required for mounted equipment. STATE -frame rail 120,000 PSI yield strengths -a clean top of rail CA -options</p> <p>9. Frame Rail Height Application requires a standard height chassis frame configuration. STATE -unladen top of rail height to ground distance -laden top of rail height to ground distance -options</p>	

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<p>10. Bumper A full width front chrome bumper complete with licence plate holder. STATE -type of bumpers -type of bumper corrosion proof coating -colour and paint ID number -options</p> <p>11. Mud Flaps Frame mounted removable mud flaps, front and rear of rear wheels and rear of front heels. STATE -type and style -options</p> <p><u>B. SUSPENSION</u></p> <p>1. Front Suspension Standard tapered variable rate leaf springs suspension complete with matched shock absorbers. Weight bearing capability of 9,100 kg (20,000 lb) (GAWR) STATE -front axle suspension capacity -shock absorber make and model -make and model of front axle -options</p> <p>2. “Setback” Axle A set back front axle allowing for ease of manoeuvrability and decreased turning radius. Front steering axle wheel degree kick out of 42° or greater. Steering axle capacity of approximately 9100 kg (20,000 lb). STATE -if set back axle provided -steering axle wheel degree kick out -wall to wall turning radius -turning radius -weight capacity -options</p> <p>3. Wheel Rims Hub piloted, disc type wheels. STATE -type and style of wheels -dimension of wheel -options</p>	

CRITERIA REQUIREMENTS	STATE CRITERIA
<p>4. Tires Michelin XYZ-Z 11 R 16 ply all position type tires for all rear wheels and having 425/65 R 22.5 20 ply tires on front. STATE -type and style of tires -make of tire -options</p> <p>5. Front Hub Oil wheel seals complete with see – through cover STATE -type and style of covers -options</p> <p>6. Tandem Rear Axle A single speed rear axle and differential having: (46,000 lb) capacity or greater. Driver controlled traction lock differential both axles. STATE -type and style -traction lock both differentials (dash operated) -capacity -options</p> <p>7. Rear Suspension Standard tapered variable rate leaf springs suspension having a load bearing capacity for 46,000. STATE -type and style of suspension -make of suspension -capacity -options</p> <p><u>C. CAB TYPE</u></p> <p>1. Cab A cab capable of seating the driver and one (1) passenger. Cab to have corrosion proofing applied and painted white. STATE -cab type and style -type of corrosion proofing -colour code of paint and identification -options</p>	

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<p>2. Interior Dark Grey interior colour and trim. Easy care, easy clean materials preferably vinyl with moulded plastic trim. Matching rubber floor mats, sun visors, arm rests, coat hooks, overhead liner and door panels. STATE -type and style -options</p> <p>3. Mounting Cab is required to have minimum four (4)-point mounting, complete with rubber or viscose mounts for sound isolation and vibration control. STATE-type and style of mounts -options</p> <p>4. Seating Front individual high back bucket type seats. Drivers and passenger seats shall be a heavy duty air suspension type seat complete with a minimum six (6) way adjustment-forward/rear, up/down and adjustable lumbar support. Seat shall be constructed of good quality material complete with a wide base. Seat cover material to be heavy duty cloth type fabric. Seats must include flip up armrests and fitted with both driver and passenger seat belts in compliance with the B.C. Motor Vehicle Act and WCB Regulations. STATE -type of fabric and colour -seat belts -make and model -incorporate all adjustments, including lumbar support -options</p> <p>5. Steering Tilt and height adjustable steering wheel. Unit will incorporate power steering matched to vehicle type and weight for ease of operation and operator comfort. STATE -steering wheel adjustments -power steering type -options</p>	

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<p>6. Heater/Defroster A heater/ventilation system complete with multi position blower fan. Variably adjustable heating vents for operator comfort and window “defrosting”. The defrosting system must be capable of dealing with local conditions – cool temperatures with high humidity. STATE -type of blower control -system air movement and capacity in CFM -heater/defroster fan type and speed control -options</p> <p>7. Cab Air Conditioning Units are to be equipped with factory air conditioning, complete with multi positional control and variable adjustable vents. STATE -type and style -capacity -options</p> <p>8. Windshield Wipers Variable speed wiper controls complete with intermittent feature. Wiper system shall include window washer system. STATE -wiper control -type of washer system -options</p> <p>9. Cab Egress Cab grab handles and stairs conveniently located on both sides of cab for operator and passenger safety and comfort. Steps must be slip resistant and have a boot brush on both sides. STATE -utilization of grab handles and location -stair height beginning at ground level -type, style and location of boot brush -slip resistant type and style -options</p>	

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<p>10. Mirrors Two (2) “West Coast” style mirrors rectangular heads having a minimum 6” x 14” (15cm x 35 cm) surface, complete with 6” (15 cm) diameter convex heads. Preference is for mirrors to be breakaway type and must be heated complete with LED lighting. STATE -type and style -dimensions of mirrors -break away -heated -options</p> <p>11. Windshield Safety windshield tinted type for temperature control, units will be required to have exterior windshield visor mounted to cab. STATE -windshield tint grade -type and style of visor -options</p> <p>12. Radio Units are to be equipped with AM/FM/CD radio with preferred mounting to be on the cab ceiling STATE -type and style of radio -model number -mounting location -options</p> <p>13. Operators Console A safe operators console defined as requiring minimal eye movement from the roadway. Gauge cluster must consist of odometer, voltmeter, trip display, engine hour meter, speedometer, tachometer, oil pressure, coolant temperature, transmission temperature, air pressure gauges, fuel level, brake application gauge, filter restrictor and fault code display(s) as necessary. Operator warning system, both visual and audible, to include low oil pressure, high coolant temperatures engine functions, low air warning (both primary and secondary) air cleaner restriction gauge mounted in instrument panel. STATE -describe console -describe gauges offered -type and style of warning system -options</p>	

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<p>14. Cab Front End Tilt forward type hood assembly with stationary “grill” to clear extended frame rails or auxiliary front mounted equipment. Butterfly style hood on both sides is desirable for engine access. STATE -type of tile apparatus -clearance of front mounted equipment -engine access -options</p> <p>15. Fuel Tank A minimum of 320 litres capacity fuel tank complete with non-spill venting. Fuel tank mount shall be on left side and fill spout position located for quick and easy fill. STATE -tank capacity -location -operator egress step -options</p> <p>16. Hand Throttle Units must be equipped with electronic hand throttle, with location to be designed for ease of access for operator. STATE -type and style of hand throttle -location -options</p> <p>17. Horns Units are to be fitted with dual electric and air horns. STATE -location of air horns -type and style -options</p> <p>18. Operator Visibility Consideration will be given for overall operator visibility and comfort. Units must include pedestrian window on lower right door. STATE -pedestrian window -describe visibility -options</p>	

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<p>19. Exhaust Units are to be equipped with single vertical exhaust pipe complete with curved top or rain cap and heat shield. STATE -location of exhaust -type and style -heat shield -options</p> <p>20.Fender Extensions The vehicles shall have front fender extensions installed on the units. STATE -what is offered -options/alternatives</p> <p>21. Grill The vehicle shall be equipped with a stationary grill. STATE -what is offered -options/alternatives</p> <p>22.Cab Sound Installation The vehicle shall include dash and engine cover installation. STATE -what is offered -options/alternatives</p> <p>23. Remote Power Module The vehicle shall include a remote power module mounted under cab complete with a minimum 6 outputs and 6 inputs max 20 amps. per channel, max 80 amps. total and 1 switch pack with latched switches. STATE -what is offered -options/alternatives</p> <p>24. Beacon Lights The units shall be equipped with 2 LED beacon lights. The City of Richmond will allow with the vendor determine type, style and location of the lights.</p>	

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<p><u>D. BRAKES</u></p> <p>1. Air Brakes Air brakes system incorporating “anti-lock brake” technology and having two (2) separate airline sets for brake application. Application requirements are for frequent “stop and go”. Air brake system must be fully in compliance with the B.C. Motor Vehicle Safety Act and B.C. Commercial Vehicle Act. STATE -if fully in compliance with above Acts and Regulations -if “ABS” provided, or if available -options</p> <p>2. Air Compressor Air compressor having sufficient capacity, including safety margin, to operate air brake system and manufacturer installed air operated equipment. A minimum compressor output of 16.5 CFM for standard applications. Compressor air intake and supply shall be through a clean air source (i.e. aft of the engine air cleaner system). STATE -type of drive -make and model -capacity -options</p> <p>3. Air Dryer An air dryer capable of removing accumulating brake system debris and water. A “Bendix AD-9” or equivalent dryer, complete with desiccating filter and alloy debris filter, providing minimum protection of 30” dewpoint depression from ambient operating temperatures. A dryer having heating feature is required. STATE -make and model -capacity -heated feature -options</p> <p>4. Low Air Warning Both audible and visual brake warning system, low air warning devices inside the cab for operator’s visual acuity and safety. Easily read air pressure gauges within the dash cluster. STATE -type of system -styles of system -gauge location -options</p>	

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<p>5. Automatic Drain Valves Automatic drain valves are to be located at the air supply reservoir, primary reservoir and secondary reservoirs. STATE -type and style of drains -locations -options</p> <p>6. Anti-Lock Brake System (ABS) The unit brake system shall incorporate anti-wheel lock technology known as “ABS”. The unit, made up of controller wheel speed sensors and modulators, shall be secured within “safe” areas within the frame and drive components and easily accessible for servicing as required. A visual and audible alarm to signal the operator of a malfunction shall be provided within the cab dash cluster area, trailer plug shall be included. STATE -type and style of system -make and model -components included -options</p> <p>7. Air Lines Airlines are to be “synflex” nylon type tubing material colour coded for ease of serviceability and routed to minimal exposure to damage. Line materials meeting SAE J-1402 at articulation points and stainless steel braided tube for air compressor discharge line. STATE -type and style -options</p> <p>8. Brakes Standard air brake system of drum and shoe S-cam type specified to axle rating and application loads. Standard applications are as follows: -6 x 4 20,000 lb front axle = q. area 378”, 16.5” x 6”. -6 x 4 46,000 lb rear axle = sq. area 440”, 16.5” x 7” -a minimal acceptable material thickness of .86” for all linings and Q plus. STATE -make and model of brake shoes and drums -type and style of brake shoes and drums -specification measurements of each -options</p>	

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<p>9. Slack Adjusters “Haldex” automatic slack adjusters required or City of Richmond approved equal. STATE -make and model of slack adjusters -type and style of Slack adjusters -options</p> <p>10. Dust Shields Wheels to be equipped with dust shields both front and rear axle(s) STATE -what is offered</p> <p>11. Air Brake Chambers Front brake chambers to have minimum surface area of 24 sq.in. (61cm) with rear spring chambers having minimum of 30 sq. in. effective surface area. Rear ‘parking’ spring chambers activated from dash mounted control valve and complete with anti-compounding control. STATE -make and model of brake chambers -size specifications of brake chambers -type and style of rear parking brake -options</p> <p><u>E. POWERTRAIN</u></p> <p>1. Engine / Ratings A CAT C-13, 12-litre internal combustion diesel engine with the following ratings. SAE HP – 380 HP @ 2100 RPM PEAK TORQUE – 1450 lb-ft @ 1200 / RPM Engine shall offer peak torque across a broad RPM range. (i.e. 1,100 to 1,300 RPM) STATE -SAE HP and RPM -peak torque values at RPM range -provide torque curve chart -options</p> <p>2. Engine Fuel System Electronically governed fuel delivery system. Fuel system in addition to supplied filtration shall include, a “RACOR” or City of Richmond approved equal, fuel/water separator having 10 micro media. STATE -type of injection -“RACOR” fuel/water separation -options</p>	

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<p>3. Electronics Control Engine functions and other related powertrain accessories (i.e. transmission) controlled and monitored through an electrical control module(s) to optimize fuel economy, minimize regulated exhaust emissions, load sensing and related vehicle tasks. Engine shall have a normal idle RPM less than 700 RPM. STATE -type of engine controls -compliance with EPA standards -location of ECU(s) -engine idle RPM -options</p> <p>4. Fuel Consumption/Emissions The City of Richmond is committed to reducing “greenhouse gas” and exhaust emissions reduction. An important aspect of this program is the contribution being made by fleet vehicle and equipment operations. Engine and transmission selection therefore will take into account the following: -fuel consumption rating -CO emissions -idle CO emissions in percentage of exhaust gas flow -non methane hydrocarbons plus NOX -NMH plus NOX -PM per gram brake horsepower/hour -CO² grams per brake horsepower/hour -estimated greenhouse gas production, City driving of 15,000 km per year stated in CO² equivalent kilograms</p> <p>5. Coolant System Coolant system, in addition to having sufficient capacity including frequent trailer towing, shall have silicone hoses (or equivalent), filter/conditioner and anti-freeze solution having minimum cold weather protection to –30° Celsius STATE -type of hoses -type of filtration -type of anti-freeze solution -frequency of solution replacement -options</p>	

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<p>6. Radiator A long life radiator having safe cooling capacity for the engine and transmission. Radiator should take into account the trailer towing and snow plow/ice control needs for this application. A radiator having a minimum surface area of 1000 sq. in. or greater is required. STATE -type and style of radiator -capacity of radiator -whether full coolant capability for towing operations (heat dissipation) as described in this document.</p> <p>7. Air Induction The air induction system composed at a primary and secondary element including an air restriction indicator for timely and effective maintenance. STATE -type of filtration -location of filtration -air restriction indicator -options</p> <p>8. Transmission An automatic (Allison 4500 RDSA P) 4th generation controls, wide ratio, 6 speed, with double overdrive, oil sensor with PTO provision, less retarder. C/W oil cooler and push button type transmission shift control. STATE -make and model of transmission -whether constant drive PTO is provided -capable to a minimum 1450 lb. torque 380 SAE horsepower. -cost of transmission retarder option</p> <p><u>F. Electrical</u></p> <p>1. Electrical System The charging system must have full capability to maintain battery-cranking capacity, chassis electrical equipment, mounted equipment and traffic warning lighting system. Typically, this requires a minimum 12 volt alternator output of 135 amperes “DELCO” or equivalent, optimized of high output at a relatively low RPM of approximately 1000 engine RPM. STATE -what is offered</p>	

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<p>2. Alternator A low RPM turn on 12 volt regulating alternator having a minimum of 135 amperes output capacity. Alternator must feature enhancements incorporating coated systems to mitigate failures due to corrosion and provide extended service life. STATE -make and model of alternator -output rating at 1000 RPM at 12 V -options</p> <p>3. Starter Motor Starter motor having being specified by the engine manufacture for the engine model and being capable of providing and maintaining the cranking power required in the Richmond area ambient temperature ranges for winters. Thermal over crank protection is required to prevent overheating due to excessive cranking durations and extended service lift. STATE -make and model of starter -options</p> <p>4. Battery(s) Battery(s), maintenance free type, of sufficient capacity to power the starter at the lowest ambient temperature range encountered within the lower mainland. Typically, a minimum reserve capacity of 160 and a CCA of 1950 amperes. The battery box to be located parallel with and tight to the frame thereby reducing vibrations. STATE -reserve capacity rating cold cranking amperes -make and model -location of battery(s) -options</p> <p>5. Disconnection Switch/Boost Stud Units electrical/battery system shall incorporate a means of disconnecting the electrical systems and also provide a means of easy “boost” should it be required. STATE -compliance -location of battery boost stud -options</p>	

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<p>6. Fuse Box Automotive style waterproof resetable circuit breakers required. Power distribution system(s) shall utilize where possible resetable manual circuit breakers. The electrical system must incorporate SAE blade type fuses as standard equipment where resetable circuits are not. Complete and full electrical wiring schematics to be provided to the City of Richmond at the time of delivery. STATE -type and style of circuit breakers -availability of electrical schematics at time of delivery -options</p> <p>7. Wiring All wiring shall be colour coded, continuously numbered, encased in plastic “loom” to maximize protection from corrosion complete with sealed connectors. Vehicles having a “multiplexing” type electronic electrical systems shall provide capability for independent mounted equipment electrical circuits and functions. Heavy duty wiring to the rear of the frame for installation of body builder electrical requirements. LED type stop/tail, amber, turn, marker(s), clearance, backup, mirror and accessory power. STATE -conventional system with LED lamps -“multiplexing” system offered as standard -options/alternatives</p> <p>8. Cab Marker Lights Night time marker lamps. Five (5) flush mounted cab clearance identification lamps and on exterior visor, LED type. STATE -what is offered -LED lamps -options</p> <p>9. Back-up Alarm Having 100-dBA electric warning alarm device. STATE -type and dBA rating -options/alternatives</p> <p>10. Work lights are to be installed through out the units, the City will determine locations. STATE: - what is offered</p>	

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<p><u>G MISCELLANEOUS</u></p> <p>1. Compliance Vehicle must be in full compliance of current B.C. Motor Vehicle Safety Act, Commercial Motor Vehicle Regulations and U.S. Federal Environmental Protection Agency current exhaust emission standards. STATE -compliance</p> <p>Warranty Provide details concerning the standard applicable vehicle warranty and terms with components and parts not covered within the standard vehicle manufacturer warranty. STATE -standard applicable warranty and terms on vehicle -standard applicable warranty for associated components and parts not covered, or separate from the vehicle coverage noted above -if extended warranty is offered</p> <p>2. Manuals The vehicle shall have the following manuals included at the time of delivery. -2 sets of parts manuals per unit, CD-ROM acceptable alternate -2 sets of service manuals, CD ROM acceptable alternative -or secured access to manufacturers website where the above information is available at all times. -2 sets operators manuals per unit -1 set body parts and repair manual per unit -options/alternatives</p> <p>Wherein the engine, transmission or other related components may not be included in the vehicle manuals, (Parts and Service) those additional manuals specific to the components, shall be included at the time of delivery. STATE -if in compliance with all of the above requirements including components</p> <p>3. Scheduled Maintenance The following shall be provided by the Supplier at time of delivery. -a complete check-off style preventative maintenance schedule checklist as recommended by the manufacturer to ensure full and satisfactory service life. -a list of general maintenance parts recommended, by part number, for on-hand parts stocking. STATE -what is offered</p>	

CRITERIA REQUIREMENTS	STATE CRITERIA
<p>4. Demonstration A demo unit will be required during the evaluation process carried out by the City of Richmond staff. STATE -demo unit availability</p> <p>5. Training Provide training to the City of Richmond Equipment Service Shop technicians in the factory prescribed maintenance, diagnostics and repairs procedures. Operator training for drivers, training to be carried out by factory representative or, factory trained personnel. STATE -your training capability as described above -training locations -available training aids -availability of training sessions -training on essential major operating components not made by the vehicle manufacturer but utilized.</p> <p>6. Keys Four (4) full sets of keys provided at vehicle delivery. STATE -what is offered -options/alternatives</p> <p>7. Delivery State the number of days from the date of receipt of order from the City of Richmond, to the date of vehicle delivery F.O.B. City of Richmond’s Public Works Operations Yard or site designated. STATE -number of days for delivery -delivery date</p> <p>8. Alternatives List any alternatives recommended by the supplier in addition to those specified or in place of. STATE -alternatives and description -additional pricing for alternative and/or reduction in price -alternatives “in place” of item shown in spec. and describe in detail.</p> <p>9. Parts The City of Richmond requires parts delivery by air, within 24 hours within Canada and 48 hours outside Canada. All costs associated to “air” delivery are the responsibility of the supplier during warranty period. STATE -parts delivery by air -associated options/alternatives</p>	

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<p><u>H. OPTIONS</u></p> <p>1. Air Suspension List air suspension option. -what is offered -complete costs associated</p> <p>2. Alternative Suspension to Leaf Type Springs List alternative recommended suspension system for front and rear axles. STATE -what is offered -complete costs associated</p> <p>3. Extended Front Frame Given occasional need for extended front frame rails please state if available and if other modifications or additional equipment is required. STATE -what is offered -complete costs associated -options</p> <p>4. Air Trailer Tow Package Provide costs associated to out filling units with pintol hitch, plumb glad-hands electrical connection, including “ABS” and safety hardware that meets all compliance. STATE -what is offered -cost -options</p> <p>5. AC Adapter/Power Outlet Provide costs for AC adapter power outlet to charge up cell phone. STATE -what is offered -complete costs -options/alternatives</p>	

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<p>6. Given current longstanding operating procedures and practices, these units will incur approximately 1600 SMU annually. Application within the City of Richmond must be characterized as very moderate relative to many other municipal and government locations. These units are essential however, to maintenance of works productivity and “uptime”, the unit’s reliability is foremost. Therefore, with these points in mind, your proposals to the following optional features to the contract are required.</p> <p>a. List any “availability” guarantees. For example, if machine is down due to mechanical failure, do you provide</p> <p>STATE</p> <ul style="list-style-type: none"> -what <u>availability guarantees</u> you propose -what costs are associated with a “performance” guarantee -options/alternatives <p>7. Can you provide <u>parts and service guarantees</u> complete with minimum standards quantifying the delivery of parts and service?</p> <p>STATE</p> <ul style="list-style-type: none"> -describe your performance guarantees -complete costs associated -options/alternatives <p>8. Are you prepared to guarantee the units operating cost <u>excluding normal maintenance labour and material and fuel</u> for fixed periods?</p> <p>STATE</p> <ul style="list-style-type: none"> -terms or periods of duration -complete costs associated to each duration -options/alternative <p>9. Do you offer guaranteed a “buy back” of your unit and if so please list the value and terms corresponding to value?</p> <p>STATE</p> <ul style="list-style-type: none"> -what is offered -options/alternatives <p>10. Units are to be equipped with back up camera system with monitor placement in the cab to be easily viewable for the operator.</p> <p>STATE:</p> <ul style="list-style-type: none"> - what is offered - location of monitor 	

11. Technical Criteria

The machines shall be designed to be used for removing sand, stones, bottles, cans, grease, sludge and other debris from sanitary sewer and/or storm drain lines by the flushing action of high pressure water. The high-pressure water pump shall be hydraulically driven with the chassis engine as the power source.

DEBRIS BODY	YES	NO
The debris storage body shall be constructed of a minimum 3/16" corrosion and abrasion resistant steel with a minimum yield point of 50,000 psi and a minimum tensile strength of 70,000 psi.	—	—
The body shall have a 3/4 size rear door that is hinged and is equipped with a replaceable neoprene type seal to prevent leakage.	—	—
A system utilizing the debris body manual load level indicator to activate A an electric micro-switch when the body reaches full capacity. At full capacity the micro-switch activates an alarm. A manual on/off switch is located at the control station to by-pass the alarm for transport.	— —	— —
Debris body shall be dumped by raising the debris body to 50° by means of a forward mounted, double acting hydraulic cylinder.	—	—
The debris body shall be fixtured on an independent frame that is separate from the chassis frame. It shall be mounted via a 3-point mounting system to allow flexing to occur without causing damage.	—	—
To achieve the best possible material separation and minimize material being discharged into the atmosphere; the air conveyance system shall draw air from two separate 10" ports in the debris body.	—	—
Dump controls and accessory controls shall be provided at a central curbside location, directly behind cab of the truck.		

DEBRIS BODY	YES	NO
<p>A final filter shall be supplied to limit ingestion of solid or liquid abrasive material into the positive displacement blower. It shall be positioned between the outlet of the debris body and the inlet of the vacuum blower and contain a removable and cleanable stainless steel micro screen. The screen shall be no larger than 20 mesh, a minimum of 14" in diameter and 20" long to allow maximum protection and airflow.</p>	<p>___</p>	<p>___</p>
<p>A stainless steel micro-strainer shall be supplied. Shall be used on positive displacement machines only. Strainer shall be located prior to the blower inlet. The stainless steel micro-strainer shall be contained within its own housing. The strainer shall filter air as it is drawn into the blower. Housing shall have a removable top for screen removal during cleanup and shall come with drain port in bottom. (30 microns).</p>	<p>___</p>	<p>___</p>
<p>A tapered cone (cyclone) centrifugal separator shall be mounted in line between the debris body and the vacuum system. It shall be used to aid in the process of dust separation and to prevent ingestion of 50 micron or larger particulate into vacuum pump/compressor. A dust box with an access door for clean out of the separator shall be provided.</p>	<p>___</p>	<p>___</p>
<p>A flush out nozzle with eight (8) tungsten curbside tipped nozzles shall be mounted at the front interior of debris body, shall be sized to utilize the units water pump system at full capacity to scour the debris body. The control valve shall be located at the rear curbside of the machine.</p>	<p>___</p>	<p>___</p>
<p>A deflector plate mounted to the under side of the debris body to help with material flow and dumping process shall be supplied.</p>	<p>___</p>	<p>___</p>
<p>A pipe storage rack shall be located on the curbside of the debris body above the rear water tank. The pipe rack shall be constructed of structural steel tubing and shall be spring assisted in the down and up positions for easy operation. The rack shall be capable of storing three (3) 8" diameter pipe up to 7' long. May change with specific unit options.</p>	<p>___</p>	<p>___</p>
<p>A pipe storage rack shall be located on the rear door of the debris body. The pipe rack shall be constructed of structural steel tubing and shall be spring assisted in the down and up positions for easy operation. The rack shall be capable of storing three (3) 8" diameter pipe up to 7' long. May change with specific unit options. Flat rear door shall store only two pieces of pipe.</p>	<p>___</p>	<p>___</p>

DEBRIS BODY	YES	NO
A lube manifold shall be located at curbside of unit. The manifold shall allow ground level greasing of boom lift and swing cylinders, float level indicator, top rear door hinges and debris body hoist cylinder pins. Manifold location may vary due to chassis, unit configurations and optional content.	___	___
A shield shall be mounted around the outer circumference of the rear door to direct liquid or debris away from the chassis. The shield shall be constructed of ExTen steel. It shall be bolted to the outside diameter on the rear flange of the debris body and located from the 3 to 9 o'clock position.	___	___
An electrically activated, air operated, 4" butterfly valve shall be located prior to the blower inlet. This relief valve shall be manually activated at the front workstation with indicator light or the pendant control. This allows the venting of the debris tank to atmosphere and relieves vacuum at the debris intake hose.	___	___
A trash pump shall be supplied that utilizes 2 1/2" PVC plumbing from submersible pump outlet on the front side of the debris body. The system shall be plumbed to the front curbside of the chassis to allow draining into the same manhole the operator is working in. Shall include shutoff valve with 10' x 2 1/2" drain hose and storage at the front workstation.	___	___
A 3" hydraulic driven submersible trash pumps capable of 450 gpm liquid pump off; that works simultaneous with the vacuum system shall be supplied. The pump shall be located on the outside of the debris body on the forward wall/curbside. Liquid discharge shall be at the front curbside of debris body. Shall be supplied with a shutoff valve and 2 1/2 x 25' drain hose with storage. All controls shall be manual type, located curbside.	___	___
A trash pump screen, internally mounted, shall be supplied. Shall be a full top of body to floor expanded steel screen that shall completely isolate components from the rest of the body. Lower section of screen shall swing up for easier cleanup.	___	___
A flat style rear door with four (4) individual rod and receiver block type sequential door locking system, cam operated by a hydraulic cylinder shall be supplied. Rear door open/close cylinders shall be mounted on top of body. The system shall be capable of hydraulic opening up to 50° from a fully closed position. Shall include a rear door prop and curbside controls.	___	___

DEBRIS BODY	YES	NO
<p>A 6" I.D. knife valve (full opening blade type) shall be located on rear door and shall be used for decanting water with Camloc couplers. Valve shall be located on right side of rear door at approximately 2 to 3 o'clock position or in the lowest position possible on rear door. A single filtration screen shall be provided to prevent large debris entering the drainpipe and valve. Shall include a 10' lay flat drain hose with storage supplied.</p>	<p>___</p>	<p>___</p>
<p>The aluminum water cells shall not require internal coatings and shall be easily repaired or patched if required.</p> <p>The cells shall be hung via rubber line "j" straps, which allow the cells to be easily removed from the unit if required.</p> <p>The water cells shall be located directly behind the cab of the truck and ending at the very rear of the unit, thus providing the best possible weight distribution.</p> <p>The water tanks shall be adequately vented and connected to provide complete filling. A minimum 6" and 4" connection between tanks is provided.</p> <p>The water tanks shall be totally separate from the debris tanks and provide no structural support</p> <p>Controls for dumping are to be located on both sides of the units.</p>	<p>___</p> <p>___</p> <p>___</p> <p>___</p> <p>___</p> <p>___</p>	<p>___</p> <p>___</p> <p>___</p> <p>___</p> <p>___</p> <p>___</p>
<p>All water cells shall be positioned at or below the frame of the unit, thus providing the best possible and lowest available center of gravity.</p> <p>The water tanks shall share no common walls with debris tanks in order to prevent corrosion.</p>	<p>___</p> <p>___</p>	<p>___</p> <p>___</p>
<p>An air gap in water fill system shall be supplied. Shall include y-strainer, 2.5" x 25' fill hose and hose storage.</p>	<p>___</p>	<p>___</p>
<p>Multiple aluminum, cylindrical water tanks shall be located at the chassis frame level and over the rear tandem axles. (Total capacity shall be 1300 gallons)</p>	<p>___</p>	<p>___</p>
<p>A manual 3" bronze gate type valve shall be located at the water pump inlet, shall be used when a means to isolate the water pump from the water tank outlet is required.</p>	<p>___</p>	<p>___</p>

DEBRIS BODY	YES	NO
A 3" Y-pattern strainer at the water tank fill shall be supplied in lieu of the standard 2 1/2" Y-pattern strainer. The Y-filter shall have a 3", 80-mesh stainless steel water strainer included.	___	___
An air purge system shall be supplied. The system shall aid in the purging of water lines and water pump for cold weather storage. This system shall utilize the chassis air compressor to fill independent air reservoirs. The air purge shall come complete with plumbing, valves and air pressure gauge. Pressure protection valves isolate the holding tank and the chassis compressor. The air purge system shall purge the residual water from the water system.	___	___
A low water electrical activated float device shall be located in the water tank. When low water level condition exists, the float shall signal a warning light and an audible alarm located at operator station. A manual by-pass switch, located at the operator station, shall be supplied to de-activate the system.	___	___

HIGH PRESSURE WATER PUMP	YES	NO
<p>The hydraulic flow to drive the water pump shall be from a hydraulic oil pump driven by the truck engine via a heavy duty air or electric-over-hydraulic shift power-take-off. The water pump shall operate with oil to water ratio of 1 to 1.</p>	___	___
<p>The power-take-off shall engage the hydraulic pump but not the water pump to eliminate unnecessary high-pressure ball valve by-pass and water pump wear.</p>	___	___
<p>State RPM of water pump _____</p>	___	___
<p>A 3" Y- pattern strainer is installed prior to the water pump suction inlet to serve as an additional filtering device. The Y-filter includes a 3" stainless steel, 80-mesh filter screen.</p>	___	___
<p>Two (2) ASME coded and safety stamped 2-½ gallon capacity hydro-pneumatic, nitrogen charged bladder type accumulator shall be supplied. It shall have a pre-set operating range of 500 to 2500 psi to give continuous smooth pressure at the nozzle. The accumulator system shall have a 1" ball valve shut off to allow water pump to operate either with "jackhammer" action or smooth water flow.</p>	___	___
<p>A hydro excavation package shall be added to a sewer cleaner for hydro excavation work. The system shall include a retractable reel, mounted at drivers-side at the front bumper of the machine. It shall have a 50' x 3/8" hose assembly with heavy-duty quick connectors. A handgun and multiple orifices are supplied with package. . Controls shall be located at the front of the vehicle.</p>	___	___
<p>The jet-rodder water pump shall be equipped with a hydraulic driven system that utilizes a variable displacement piston type hydraulic pump to supply power to the water pump. This system shall allow the operator to vary the flow and pressure of the water pump independently by using a dial control at the front station and changing nozzles. This is not a by-pass system. The variable piston hydraulic pump shall permit the operator to select the appropriate oil flow required to change the water pump output.</p>	___	___
<p>A water pump hour meter shall be supplied.</p>	___	___
<p>A cold weather circulation system complete with boiler shall be included.</p>	___	___
<p>A 1" water relief valve shall be supplied as an additional relief system for the high-pressure water system. This system shall be in addition to the standard hydraulic relief valve.</p>	___	___

VACUUM SYSTEM DRIVE	YES	NO
Blower shall be driven from the chassis engine via the transmission drive shaft and heavy duty split shaft transfer case direct to the blower with no sheaves or v-belts to maintain or adjust.	—	—

FRONT MOUNTED HOSE REEL	YES	NO
A hose reel shall be mounted on an independent frame that can be removed from brackets attached permanently to main truck frame members.	—	—
Hose reel shall be manufactured out of ¼" spun steel for added structural strength. This spun steel shall require no internal or external reinforcements that could damage rodder hose.	—	—
Hose reel shall be driven via hydraulic motor with a dual sprocket and chain system.	—	—
Hose reel shall have a 1" rotating swivel joint that is adjustable and has replaceable seals on the inlet line to provide free rotation of hose reel.	—	—
All operating controls shall be located on the hose reel.	—	—
A mechanical footage counter shall be mounted at the hose reel flange to measure the pay out and rewinding of hose. It shall measure in 1-foot increments to allow the operator a visual means to determine how much sewer hose is in the sewer line. This shall be supplied in addition to standard.	—	—
Gate valves shall be installed to permit the servicing of the hydraulic system. A valve shall be located at the hydraulic pump suction line, return line, and oil filter.	—	—
A hydraulic tool package designed to run category-three hydraulic tools with the capacity of 8 to 12 gallons per minute at 2000 psi shall be supplied. The system shall include a 100 mesh oil suction strainer, 18,000 Btu/hr oil cooler, 10 micron oil return filter and pressure and return line quick disconnect couplers (HTMA flat-face type). It shall be plumbed to a location behind the cab. The system shall have adjustable flow and shall have a separate pressure relief valve.	—	—

FRONT MOUNTED HOSE REEL	YES	NO
<p>A lateral cleaning kits shall perform cleaning of small diameter lateral and crossover lines with flows up to 20 gpm at 2000 psi. The reel shall be mounted on the front bumper and comes with a manual hand crank. The reel shall hold up to 150' of 1/2" hose. This lateral cleaning system shall utilize the Vactor water pump to supply water. An on/off valve shall be used to route the water flow from the jet rodder hose reel to the lateral cleaning kit.</p>	<p>___</p>	<p>___</p>
<p>1/2" high-pressure ball valves shall be installed in lieu of the standard SAE #8 drain plugs. This shall eliminate the use of removing water pump drain plugs when draining or winterizing the water system. These valves shall be located on the bottom of the rodder pump for draining the water pump. Doing this while cycling the water pump at slow speed flushes out any sediment at the bottom of the pump.</p>	<p>___</p>	<p>___</p>
<p>An auto wind guide shall provide the operator with hands free operation to unwind and rewind the sewer hose onto the hose reel. It shall be located on the hose reel and shall be chain driven from the reel shaft, using a lead and follower mechanism it shall follow the hose as it unwinds and rewinds. It shall have an air operated preloaded roller assembly to maintain hose placement on the reel. The winding mechanism shall have a free wheeling provision for quick adjustments to compensate for hose length changes or repair.</p>	<p>___</p>	<p>___</p>
<p>800' x 1" sewer hose, 2500 psi working/6250 psi burst pressure</p>	<p>___</p>	<p>___</p>
<p>800' telescoping rotating hose reel. The hose reel assembly is mounted on an independent telescoping frame that can be removed from brackets attached permanently to the main truck frame members. The reel is to afford excellent visibility on the latest truck models. The overall installed height of the assembly cannot exceed 67" with a minimum ground clearance of 14". The reel is manufactured out of 1/4" spun steel for added structural strength. It does not require any internal or external reinforcements. The reel has a capacity of 800' of 1" I.D. rodder hose. Dimensionally, the reel assembly is a maximum width and depth of no more than 37" and a maximum height of no more than 42". The reel is to telescope 15" directly forward on a straight line along the centerline axis of the truck with the reel in its fixed position parallel to the truck grill. Arced lines of travel do not meet this requirement. The reel rotates about the centerline on a large diameter ball bearing through 270° to afford an unobstructed line along which the rodder hose can reach.</p>	<p>___</p>	<p>___</p>

VACUUM SYSTEM	YES	NO
<p>The blower shall incorporate a filtration system consisting of a stainless steel ball float system and a stainless steel final filter screen. The blower shall be provided with an exhaust above the rain cap to protect the silencer from rainwater.</p>	<p>—</p>	<p>—</p>
<p>The blower shall be provided with an exhaust above the rain cap to protect the silencer from rainwater.</p>	<p>—</p>	<p>—</p>
<p>Unit shall have the ability to vacuum and jet rod to depths of 75’.</p>	<p>—</p>	<p>—</p>
<p>A 1024 18” positive displacement rotary type blower rated at 6000 cfm at 0” hg. 1900 rpm shall be provided. It shall be capable of 4950 cfm @ 18” hg. @ 1900 rpm. The system shall have a removable and cleanable stainless steel filter screen, located prior to the blower inlet to restrict ingestion of particulate into the blower. Three vacuum relief valves shall be supplied. The blower shall have a vertically mounted, heavy-duty muffler to restrict noise. The chassis engine shall drive the positive displacement blower via a heavy-duty split shaft transfer case and shall be connected directly to the blower by a drive shaft. Controls for the transfer case shall be manual cable type with levers and shall be located in the cab of the chassis.</p>	<p>—</p>	<p>—</p>
<p>A hot shift blower drive system (in lieu of standard) shall be supplied. Shall include transfer case, air shift control, vacuum relief, and front control for blower engagement.</p>	<p>—</p>	<p>—</p>

BOOM	YES	NO
<p>Shall be designed for front-end operation with hose mounted and stored at front workstation. Front mounted location is desired for ease of positioning vacuum hose as well as minimizing the need for the operator to swing hose into traffic.</p> <p>All connections between debris body and vacuum system shall be of the self-adjusting, pressure fitting type.</p> <p>The lift and swing movements shall be accomplished by cylinder actuated means. Gear and chain type rotations are not preferred due to maintenance considerations.</p> <p>The boom shall be 6-way hydraulically driven up/down/left/right/extend/retract. A remote push button control station shall control the boom by cable to the hydraulic power swing/lift/extend cylinders.</p> <p>All controls and functions are to be through a wireless remote technology.</p>	<p>—</p> <p>—</p> <p>—</p> <p>—</p>	<p>—</p> <p>—</p> <p>—</p> <p>—</p>
<p>The boom pendant control shall come equipped with control switches for all directions as well as a safety emergency shutdown button that automatically eliminates power to the boom.</p> <p>A cab protection device, independent of cab that shall protect the cab from the boom shall be provided.</p>	<p>—</p> <p>—</p>	<p>—</p> <p>—</p>
<p>All hose and tubes shall be 8" I.D. and shall remain stationary and not raise with the debris body in order to minimize the possibility of running vacuum hose into power lines and low hanging branches. The upper debris tube shall consist of an anchored steel tube for additional life.</p>	<p>—</p>	<p>—</p>
<p>Pipe extensions shall be included to allow operator to clean to depths of 20'. This shall include a 6'6" catch basin nozzle with a steel reinforced tip. Pipe should include sufficient adjustable, over center, quick clamps to join the aluminum flanged suction pipe.</p>	<p>—</p>	<p>—</p>
<p>A boom transport cradle shall be supplied.</p>	<p>—</p>	<p>—</p>
<p>An 8' telescoping boom shall be supplied. The 8' extension shall provide a minimum of 474 square feet of additional coverage. The boom shall rotate a minimum of 180 degrees and provide 277" minimum reach off the centerline of the unit. The boom shall extend and retract a minimum of 8' and shall be located at the front workstation in its retracted position. The boom shall include a true telescoping suction tube that shall extend and retract without affecting the steel elbow or lower debris hose vertical position.</p>	<p>—</p>	<p>—</p>

BOOM	YES	NO
A cordless boom remote control shall be supplied. This system shall activate all boom functions and vacuum relief (if so equipped).	_____	_____
A grate lifting tool shall be attached to the end of the boom to allow the operator to remove sewer grates with the aid of the boom.	_____	_____
The joystick shall be mounted in the electrical box on the hose reel. It shall be operated by a simple up/down/left/right control. Joystick shall control left/right/up/down boom functions.	_____	_____
A post type front bumper storage for boom shall be supplied. This shall be used in the replacement of the standard boom rest on the front bumper with quick clamp.	_____	_____
HANDGUN SYSTEM	YES	NO
A quick disconnect coupling shall be furnished with hose and pistol grip nozzle. The hose shall be capable of delivering water to the area served by the catch basin intake nozzle and to the inside of the debris body.	_____	_____
Handgun system shall include a connection that allows the operator to deliver water to the area served by pick-up hose and to the inside of the debris body for clean out. The handgun should allow for changing of the flow pattern from a fine mist to a steady stream.	_____	_____
A spring retractable hand hose reel with 50' hose shall be supplied. It shall be a supplement to the standard handgun system.	_____	_____
Quick disconnect couplers shall be supplied at the front and rear of the machine in lieu of the standard mid-ship handgun connector.	_____	_____

ELECTRICAL	YES	NO
The entire electrical system shall be vapor sealed to eliminate moisture damage to NEMA 4 (National Electrical Mfg. Assoc.) standards.	—	—
All electrical connections shall require no exposed wires or terminals.	—	—
All light bulbs shall be shock mounted to eliminate bulb failure.	—	—
All wiring shall be color-coded and run in sealed terminal boxes.	—	—

HYDRAULIC SYSTEM	YES	NO
The hydraulic reservoir shall have a 67-gallon capacity.	—	—
The tank shall be totally modular component and easily removed from its storage area.	—	—

FRONT OPERATING STATIONS AND CONTROLS	YES	NO
Controls and gauges include:		
Operation station shall be located at the front of the truck.	—	—
Truck engine throttle	—	—
Oil dampened water pressure gauge	—	—
Boom pendant control plug in	—	—

MOUNTING	YES	NO
Unit shall be mounted on approved truck chassis at the factory of the body manufacturer.	—	—

PAINT	YES	NO
All metal surfaces shall be shot or sand blasted prior to painting.	___	___
All metal surfaces shall be primed prior to painting.	___	___
All hose and fittings, as well as electrical wires and connections, shall not be painted.	___	___
Paint shall be with Dupont paint with most industry standard colors available. Shall be a wet-on-wet application. This paint shall be designed for application over wet non-sanding primer base. The process shall allow the unit to be primed and after tacking up, the final coats of finish paint may be applied. The process still maintains all it's paint properties. It shall be Low Voc-High Solids OSHA compliant paint with excellent gloss retention. It shall be durable, tough finish and easy to maintain. The process prior to painting shall be that all metal is grit blasted to near white finish, phosphorus washed, dried, cleaned of all dust, primer coated, and then finish paint is applied to a minimum 3 mil thickness. All finish painting shall be done prior to the assembly of the machine.	___	___

LIGHT ACCESSORIES	YES	NO
Circuit breakers shall be supplied. This addition to the machine shall replace all Vactor supplied fuses with appropriate amperage circuit breaker	___	___
A spring-loaded retractable reel with a hand held spotlight; one piece molded black neoprene pistol grip type shall be provided. Shall be 110,000-candle power, 100 watt/13 volt sealed beam bulb, 4.5" diameter and 8.5' long. This reel shall be mounted in a convenient location.	___	___
A limb or brush guard for revolving or strobe lights shall be supplied. Shall protect the lights from damage while working around low hanging branches.	___	___
Amber revolving light(s) shall be mounted on cab guard. Ideal for trucks and on/off road vehicles. Light(s) shall be 6" high, 6 1/2" diameter base, and 12 VDC-55 watt halogen bulbs with 4.5 amp draw. The bulb tolerance intensity shall be 1450-foot candles, with a flash rate of 60+ or -10 fpm.	___	___

LIGHT ACCESSORIES	YES	NO
Amber revolving light(s) shall be mounted at the rear of the unit. Ideal for trucks and on/off road vehicles. Light(s) shall be 6" high, 6 1/2" diameter base, and 12 VDC-55 watt halogen bulbs with 4.5 amp draw. The bulb tolerance intensity shall be 1450-foot candles, with a flash rate of 60+ or -10 fpm.	___	___
A Signal-Master Direction arrow shall be supplied. Shall be one piece with 8 L.E.D. lights and located on rear only.	___	___
A single 12 VDC, adjustable shock mounted work light shall be installed at the front, side or rear workstation as needed. On/off switch shall be located at the operator's station.	___	___
A single 12 VDC, adjustable shock mounted work light shall be installed at the rear of the machine as required by the customer. On/off switch shall be located at the operator station.	___	___
The two 12 VDC, adjustable shock mounted work lights shall be located on the 70° elbow and shall be wired with a retractable extension cord reel to allow extension of the boom. They shall be turned on/off with a toggle switch mounted on the operator control panel.	___	___

CHASSIS ACCESSORIES	YES	NO
Parts, Operators and Service Manuals shall be supplied.	___	___
An electronic back-up alarm shall be supplied.	___	___
A 24 X 18 X 18 aluminum toolbox shall be provided.	___	___

12. Schedule of Quantities and Prices

The City shall pay in Lawful money of Canada the amount shown for the following items subject to the conditions of the Contract Documents.

ITEM	DESCRIPTION	QUANTITY	UNIT PRICE	EXTENSION
1.	Sewer Truck (Minimum Requirements)	2		
2.	Options (Please break out Optional items)			
3.	Extended Warranties			
4.	Other Levies & Taxes (Please identify)			
5.	Other Costs			

Subtotal \$ _____

Provincial Sales Tax \$ _____

Goods and Services Tax \$ _____

TOTAL QUOTED AMOUNT \$ _____
(carried forward to Quotation Form)

Initials of Signing Officer

13. Proposal Submissions

All proponents are required to provide the following information with their submissions, and in the order that follows:

- Completed:
 - Section 10 – Criteria
 - Section 11 – Technical Criteria
 - Section 12 – Schedule of Quantities and Prices
- A Corporate profile of their firm outlining its history, philosophy and target market.
- A detailed listing of current experience.
- A detailed proposal of what will be delivered, including the expected outcome and benefits to the City of Richmond.
- A complete definition of the process that will be employed to meet the objectives of this project.
- A detailed schedule of all activities required for this project.
- Provision of a fixed priced methodology, this shall form the basis for payments to the successful proponent.
- An information package regarding parts availability and spare parts pricing.
- An information package regarding warranty.
- A minimum of three (3) client references from recent deliveries.

14. Working Agreement

The successful proponent will enter into a contract for the purchase of the Sewer Trucks with the City based upon the information contained in this request for proposal and the successful proponents submission and any modifications thereto.

15. Negotiations

- a) The award of the contract is subject to negotiations with the lead proponent including, but not limited to, the following:
 - i) Changes or work refinements in the service requirements or scope of work proposed by the proponent.

- ii) Price – if directly related to a change or refinement in the proposed scope of work proposed by the proponent.
 - iii) Specific Contract details as deemed reasonable for negotiation by the City of Richmond.
- b) If a written contract cannot be negotiated within 60 days of notification to the lead proponent, the City may, at its discretion at any time thereafter, terminate negotiations with the lead proponent and either enter into negotiations with the next qualified proponent or cancel the RFP process and not enter into a contract with anyone.
- c) If it appears to the City, in the City’s sole opinion, that the agreement may not be executed by the successful proponent, the City may, at its sole discretion and without liability, immediately terminate

16. Evaluation Criteria

Proposals shall be evaluated to determine the best value offered to the City against conformance to the following criteria:

- Understanding of project objectives/outcomes and vision
- Experience of Supplier
- Project Deliverables
- Value for Money
- References
- Interview (if required)
- Criteria
- Demonstration
- Performance of Product
- Parts/ Product Support
- Supplier Site Visit
- Manufacturer Evaluation

Environmental Terms and Conditions of Contract

1.0 Environmental Policy Requirements

1.1 The City of Richmond's Environmental Purchasing Policy

The City of Richmond's Environmental Purchasing Policy states:

In order to increase the development and awareness of environmentally sound products and services, City of Richmond staff will review their contracts and tender specifications for goods and services, to ensure that wherever possible and economically feasible, specifications are amended to provide for consideration of environmental characteristics. Consideration may be given to those environmental products that are certified by an independent accredited organization.

The City of Richmond as a whole will endeavour to increase its use of products and services that are more responsible to the environment in the way they are made, used, transported, stored and packaged and disposed of. It is recognized that analysis is required in order to ensure that the products are made available at competitive prices, and that the environmental benefits provided by a product or service should not significantly affect the intended use of that product or service.

- 1.1.1 The City of Richmond reserves the right to request information from bidders that will demonstrate compliance to this environmental purchasing policy.
- 1.1.2 Bidders are asked to supply information on environmentally preferable products and services that meet all specifications and performance requirements.
- 1.1.3 Placing the City of Richmond in breach of its environmental policy or environmental laws will result in the termination or suspension of an agreement, at the sole discretion of the City.

1.2 Environmental attributes of company

- 1.2.1 It is desirable that suppliers to the City of Richmond have an environmental policy statement approved at the executive level and implemented across the company.
- 1.2.2 Suppliers who have pursued environmental certification such as ISO 14001 should include this information with their bid. The ISO 14000 Series is a set of international standards for voluntary environmental management for both private and public organizations. It is designed to promote environmental compliance, ensure a commitment to pollution

prevention, and foster continual improvement of environmental performance through efficient environmental management.

- 1.2.3 The City of Richmond strictly subscribes to an environmental policy that requires all suppliers to be in compliance with all environmental laws and regulations regarding the manufacture, processing, handling, provision, disposal and waste management of goods and services.

General Conditions of the Contract

1. Definitions

The two parties to the contract/Purchase Order. are the Contractor and the City, defined as follows:

The Contractor: The successful bidder for the work upon receipt of a purchase order and/or written acceptance of his Quotation from the City.

The City: City of Richmond.

Acceptance of the City of Richmond Purchase Order deems acceptance of all conditions of the Supply and Delivery Contract.

2. Responsibility For Supplies

The Contractor shall be responsible for the supplies covered by this contract until they are delivered at the designated delivery point, regardless of the point of inspection; and the contractor shall bear all risks of loss or damage to rejected supplies after notice of rejection.

3. Inspection

All supplies shall be subject to inspection and test by and shall meet the approval of the Manager of Purchasing and Risk and his decision shall be final and binding upon all parties.

In case any supplies or lots of supplies are defective in material or workmanship otherwise not in conformity with the specifications of the contract, the Manager of Purchasing and Risk shall have the right either to reject them or to require their correction.

Acceptance or rejection of the supplies shall be made as promptly as practicable after delivery, but failure to inspect and accept or reject supplies shall not relieve the contractor from responsibility for such supplies as are not in accordance with the specifications.

4. Warranty

Unless otherwise specified, the contractor warrants that in the manufacture of the supplies only the best workmanship and materials have been employed and if, within a period of one (1) year from the date of acceptance of the supplies by the City, such

General Conditions of the Contract (Cont'd)

supplies or any portion thereof are found by the City to be defective or faulty due to imperfect or bad workmanship or material, the contractor agrees, to replace such defective supplies forthwith without expense to the City.

5. Payments

The contractor shall be paid within 30 Days after the submission by the contractor of properly prepared invoices to the Accounts Payable Section for supplies delivered and accepted or services rendered and accepted. However, the City may withhold an amount equal to two times the value of goods or services not provided by the Contractor from any amounts owing to the Contractor.

6. Indemnification and Insurance

The Contractor will indemnify, hold and save harmless the City from and against all claims, losses, damages, costs, actions and other proceedings, made, sustained, brought or prosecuted in manner, based upon, occasioned by attributable to any injury, including death, property damage, infringement or damage arising from any act or omission of the Contractor, his employees, officers, volunteers, servants or agents or persons from whom the Contractor has assumed responsibility in the performance or purported performance of this agreement.

7. Liens

The Contractor shall fully indemnify the City from and against any and all liability or expenses by way of legal costs or otherwise in respect of any claim which may be made for a lien or charge at law or inequity or to any claim or liability under the Builders Lien Act, or to any attachment for debt, garnishee process, or otherwise.

8. Patent Fees

The Contractor shall pay all royalties and licence fees and shall save the City harmless from loss on account of suits or claims of infringement of patents in the doing of the work.

9. Default

- (a) The City may, by notice of default to the contractor, terminate the whole or any part of this contract if the contractor fails to make delivery of the supplies within the time specified, or to perform any other provisions of this contract.
- (b) In the event the City terminates this contract in whole or in part as provided in clause (a) the City may procure supplies or services similar to those so terminated,

General Conditions of the Contract (Cont'd)

and the contractor shall be liable to the City for any excess costs for such similar supplies or services.

- (c) The contractor shall not be liable for any excess costs under clause (b) if failure to perform the contract arises by reason of strikes, lockouts, acts of God or acts of the City.

10. Taxes

Unless otherwise provided herein, the Contractor shall pay all government sales or excise taxes in force at the date of the Contract/Purchase Order, provided that any increase or decrease in such taxes shall increase or decrease the amount due under the Contract accordingly. Invoices must show the appropriate amounts for Goods and Services Taxes and Provincial Sales Taxes separately.

11. Laws

The laws of British Columbia shall govern the work.

12. Time

Time shall be the essence in this Contract.

13. Assignment

Neither party to the Contract shall assign the Contract without the written consent of the other.

14. Changes

The City may make changes to the Contract and time and value shall be adjusted accordingly, except for emergencies all changes shall be made by written order.

15. No Promotion Of Relationship with the City or the Olympic Movement

- a) The Contractor shall not disclose or promote the Contractor's relationship (if any) with the City, the "O Zone", "The Olympic Expo 2010 - Richmond" or the Richmond Olympic Oval, including by means of any verbal declarations, announcements, sales, marketing or other literature, letters, client lists, press releases, websites, brochures or other written or electronic materials (the "Communications") (except as may be reasonably necessary for the Contractor to perform the Contractor's obligations under the terms of this Agreement), without the express prior written consent of the City, which consent may be withheld.

General Conditions of the Contract (Cont'd)

- b) Furthermore, the Contractor undertakes not to disclose or promote the Contractor's relationship (if any) with the City, the O Zone, The Olympic Expo 2010 - Richmond or the Richmond Olympic Oval in a manner which could suggest or create an association, express or implied, between the Contractor and the International Olympic Committee ("IOC"), the 2010 Olympic and Paralympic Winter Games, the Olympic Movement or the Vancouver Organizing Committee for the 2010 Olympic and Paralympic Winter Games ("VANOC"). Without limiting the generality of the foregoing, the Contractor shall not refer to "VANOC", "Vancouver 2010", the "2010 Games", the "Games", "Venue City", "O Zone", "The Olympic Expo 2010 - Richmond", "Richmond Olympic Oval", "Olympic" or "Olympics" (or any derivatives thereof), and shall not use any official emblem, logo or mascot of the 2010 Games, the IOC, the Richmond Olympic Oval or the City of Richmond, in any Communications (except as may be reasonably necessary for the Contractor to perform the Contractor's obligations under the terms of this Agreement), without the express prior written consent of the City, which consent may be withheld

16. Notices

Any notice required to be given in this Contract shall be deemed to be duly given to the City if sent by registered mail addressed to the City's Purchasing and Risk Manager at "City Hall, 6911 No. 3 Road, Richmond, BC V6Y 2C1" and to the Contractor if sent by registered mail addressed to the Contractor at the address set forth in the Quotation.



Note: Receipt of this completed form will assist us in calling for future bids. Please complete and submit this form prior to the closing date and time as shown on the Request for Quotation/Proposal/Tender form.
Please remember to include Quotation/Proposal/Tender No. at right.

Quotation/Proposal/Tender No.
3564P

A Quotation/Proposal/Tender is not being submitted for the following reason(s):

- | | |
|--|--|
| <input type="checkbox"/> We do not manufacture/supply the required goods/services | <input type="checkbox"/> Cannot obtain raw materials/goods in time to meet delivery requirements |
| <input type="checkbox"/> We do not manufacture/supply to stated specifications | <input type="checkbox"/> Cannot meet delivery requirements |
| <input type="checkbox"/> Specifications are not sufficiently defined | <input type="checkbox"/> Cannot quote/tender a firm price at this time |
| <input type="checkbox"/> Insufficient information to prepare quote/proposal/tender | <input type="checkbox"/> Insufficient time to prepare quote/tender. |
| <input type="checkbox"/> Quantity too small | <input type="checkbox"/> We are unable to competitively quote/tender at this time. |
| <input type="checkbox"/> Quantity too large | <input type="checkbox"/> We do not have facilities to handle this requirement |
| <input type="checkbox"/> Quantity beyond our production capacity | <input type="checkbox"/> Licensing restrictions (please explain) |
| <input type="checkbox"/> Cannot meet packaging requirements | <input type="checkbox"/> Agreements with distributors/dealers do not permit us to sell directly. |
| <input type="checkbox"/> Cannot handle due to present plant loading | <input type="checkbox"/> Other reasons or additional comments (please explain below) |

I / We wish to quote / tender on similar goods / services in future <input type="checkbox"/> Yes <input type="checkbox"/> No	Authorized Company Official – Signature and Title	Date
This space for City of Richmond Comments		Firm Name
		Address
		City
		Province Postal Code
		Telephone Number