INVITATION FOR BIDS

FOR

TRAILER MOUNTED
SEWER CLEANING UNIT

CONTRACT NUMBER 7/12/05-844

TOWN OF ACTON
DON P. JOHNSON
TOWN MANAGER

ADVERTISEMENT
NOTICE TO BIDDERS

The Town of Acton, Massachusetts, will receive sealed bids for:

TRAILER MOUNTED SEWER CLEANING UNIT
CONTRACT #7/12/05-844

at the Acton Town Hall, 472 Main St., Acton, Massachusetts, until 3:00 P.M. local time on July 12, 2005, at which time bids will be publicly opened and read.

Specifications and bidding forms may be obtained from the Health Department Office, Town Hall, Acton, Massachusetts, during normal working hours from June 16, 2005, until the expiration of the time for the filing of bids.

No bidder may withdraw his bid within (30) days after the date designated above for the filing of bids. The Town reserves the right to reject any and all bids, wholly or in part, and to accept any bid or part thereof deemed by it to be in the best interests of the Town.

Town of Acton
Don P. Johnson
Town Manager

TRAILER MOUNTED SEWER CLEANING UNIT
INVITATION FOR BIDS

BIDDING REQUIREMENTS

RECEIPT OF BIDS:

All bids shall be sealed, addressed to the Town Manager, Town Hall, 472 Main Street, Acton, Massachusetts, 01720, and marked:

CONTRACT # 7/12/05-700

BID FOR SEWER CLEANER

Bids must be filed at the Office of the Town Manager, Town Hall, 472 Main Street, Acton, Massachusetts, 01720 not later than 3:00 P.M. on July 12, 2005, at which time and place such bids will be opened and read.

No bidder may withdraw his bid within thirty (30) days after the date designated above for the opening of bids. the Town reserves the right to reject any and all bids, wholly or in part, and to accept any bid or part thereof deemed to be in the best interest of the Town.

DESCRIPTION OF CONTRACT:

The contract will require that the successful bidder provide the Town of Acton with a TRAILER MOUNTED SEWER CLEANING UNIT in accordance with the contract requirements, specifications, bid form, and other supporting documents set forth in the invitation.

FORM OF BIDS:

All bids must be made on the accompanying bid forms only, and shall state the prices as therein required. The bid form may not be changed in any way. Bid forms improperly signed or otherwise contrary to these instructions will be rejected as informal. Conditional bids will not be accepted.

AWARD OF BIDS:

Bids will be awarded within thirty days of the bid opening.

GENERAL CONDITIONS AND SPECIFICATIONS

GENERAL:

Equipment to be bid must be as specified below "or equal". This is not to be considered a proprietary specification, as the Town Manager, Health Director, and Director of Public Works will make the final determination as to the "equality" of equipment. The unit bid must be a model year 2005 unit. Full specification sheets must be included with each bid submittal. The vendor must provide the Town with the opportunity of inspecting a similar vehicle prior to award of the bid. A fair and open bidding procedure within the guidelines of Massachusetts General Law, Chapter 30B is the objective behind the bidding process.

SPECIFICATIONS:

Attached as Exhibit A

DELIVERY:

Vehicle must be delivered to the Public Works Facility, 14 Forest Road, Acton, by the dated noted on the bid sheet by the supplier. Delivery will only be accepted between the hours of 7:30 AM and 3:00 PM, Monday through Friday. The vendor must notify the Health Department at 978-264-9634 twenty-four hours prior to delivery to provide inspection of vehicle. Delivered vehicle must be accompanied by all necessary documents required to obtain a title and vehicle registration in the Commonwealth of Massachusetts. Vehicle is also to be accompanied with all standard repair manuals.

INSPECTION AND ACCEPTANCE OF VEHICLE:

The delivered vehicle must be inspected and accepted by the Town Manager or his representative prior to consideration of any invoice.

TERMS OF PAYMENT:

The Town of Acton will pay an approved invoice within thirty days of the delivery and acceptance of the vehicle.

CERTIFICATE OF NON-COLLUSION

The undersigned certifies under penalties of perjury that this bid or proposal has been made and submitted in good faith and without collusion or fraud with any other person. As used in this certification, the word "person" shall mean any natural person, business, partnership, corporation, union, committee, club or other organization, entity or group of individuals.

_____
Signature of individual submitting bid or proposal

_____
Name of business

_____
Date

TAX COMPLIANCE CERTIFICATION

Pursuant to M.G.L. c. 62C, §49A, I certify under the penalties of perjury that, to the best of my knowledge and belief, I am in compliance with all laws of the Commonwealth relating to taxes, reporting of employees and contractors, and withholding and remitting child support.

_____
Signature of individual submitting bid or proposal

_____
Name of business

_____
Date

BID FORM

The undersigned, as bidder, has carefully examined the invitation for bids, including the contract specifications and other supporting documents; that the bidder proposes and agrees to enter into a written contract with the Town to provide the service or item in the invitation in accordance with the contract requirements, specifications and other conditions set forth and within the time prescribed, except as otherwise specifically provided by the terms of this bid.

The undersigned hereby proposes to furnish TRAILER MOUNTED SEWER CLEANING UNIT to the Town of Acton in accordance with the contract specifications at the prices shown on the attached price list.

PRICE IN FIGURES:_____

PRICE IN WORDS:_____

DELIVERY DATE:_____

VENDOR:_____

ADDRESS:_____

TELEPHONE:_____

SIGNATURE:_____

CONTRACT

_____
(Contractor)

The contractor promises the Town of Acton that it will provide:

TRAILER MOUNTED SEWER CLEANING UNIT

in accordance with the invitation for bids, including the contract requirements, specifications, and other supporting documents incorporated therein, attached hereto and made a part hereof in accordance with its bid dated: _____, also attached hereto and made a part thereof.

The Town of Acton, hereunto duly authorized, promises to pay the Contractor for such service or item in accordance with said invitation to bid.

WITNESS our hands and seals this_____ day of _____ 2005

TOWN OF ACTON

BY_____

Don P. Johnson,
Town Manager

BY_____

Contractor

EXHIBIT A

TRAILER MOUNTED SEWER CLEANER

PLEASE CHECK "YES" OR "NO" FOR EACH ITEM BELOW. ITEMS CHECKED "YES" MUST MEET SPECIFICATIONS EXACTLY. FOR ALL ITEMS CHECKED "NO", PLEASE CLEARLY NOTE DIFFERENCES ON A SEPARATE SHEET OF PAPER THE TOWN RESERVES THE RIGHT TO REVIEW EXCEPTIONS AND JUDGE THE POSSIBILITY OF THEIR ACCEPTABILITY. FAILURE TO NOTE EXCEPTIONS WILL CAUSE REJECTION OF SAID BID. RESPONSES WILL BE JUDGED ON THE PERCENTAGE AND TYPE OF SPECIFICATIONS MET. JUDGING WILL BE BASED UPON RESPONSES ON THIS SHEET ANDY ANY ATTACHMENTS.

GENERAL

Yes	No	
		It is the intent of these specifications to describe the minimum requirements for a new High Pressure Water Jet designed for the removal of sand, dirt, grease, detergents, other materials normally found in grease traps, storm drain, laterals and sanitary pipes. The machine described will be designed to deliver high performance capabilities and provide maximum safety and convenience. All parts not specifically mentioned which are required for complete unit shall conform in design, strength, quality of material, and workmanship to the highest standards of engineering practice.

COMPONENTS

Yes	No	
		Tank capacity shall be 300 gallons of water to provide a minimum run time of at least 17 minutes
		Tank shall be constructed of .375" polyethylene
		Tank will be equipped with a strainer at tank top for elimination of foreign objects into tank
		The tank shall be equipped with a manhole at the top to allow for cleaning
		Polyethylene to be ultraviolet stabilized to prevent material breakdown
		Tanks constructed of steel will not be acceptable due to the potential of water pump damage by rust and corrosion particles
		Tank draining shall be provided via a I ½" drain valve minimum
		All plumbing from water tank to pump inlet shall not exceed 36" and shall contain the tank valve, inline filter and water dump valve
		A water level sight gauge shall be provided on the side of the tank near the operators station. Gauges requiring floats or sending units are not acceptable
		There shall be an open port at the top of the water tank to allow access to the tank for filling with water
		A suction line strainer with removable screen shall be provided
		An overhead type tank filling assembly with a 2-i/2~ fire hydrant fitting shall be located on the curbside. A 2' hydrant fitting to %' garden hose fitting shall also be supplied
		A positive air gap anti-siphon system shall be incorporated to protect the potable water supply
		A suction line strainer with removable screen shall be provided
		A storage basket fin the hydrant hose shall also be provided
		A garden hose fill system will be included. The system shall include a steel garden hose reel plumbed directly into the water tank and 5O~ of garden style hose
		A suction line strainer with removable screen shall be provided
		A water system anti-freeze circuit shall be provided as an integral part of the design and not as an add-on feature. It shall be plumbed to the unit's water circuit such that the entire unit may be winterized by activating a valve to introduce the antifreeze into the pump and associated water circuit. Antifreeze tank shall be constructed of aluminum
		Pump shall be a positive displacement, heavy duty, and single acting quintaplex design with M-Plex technology having a capacity of at least 18 GPM and 4000 PSI

		Pump shall have solid ceramic plungers and be capable of continuous operation at maximum designed pressure as well as running dry without damage. The run thy feature shall not require any type of clutch or low water warning system
		Pump shall consist of five (5) cylinders for smooth operation. In addition, the pump shall be protected from over pressurizing by a pressure relief valve. Blowout disc safety relief systems are not acceptable as they are prone to nuisance failures
		The high-pressure pump and hose will be protected from freezing with an air purge valve
		Pump should have an air gap between crankcase and plunger to prevent water from entering the crankcase in the event of valve failure
		Pump suction to be constructed of corrosion resistant piping with integral "Y" strainer for protecting the pump suction
		Pump shall be capable of pumping fresh, salt and brackish water as well as specified chemicals without damage to the pump. In addition, the pump shall be rated for temperatures of at least 160 degrees
		Pump suction system must have a single air bleed valve for air removal
		Pump shall have an oil sight gauge and pump crankcase shall not exceed four quarts
		A pulsation system shall be included as standard and will be used to induce an intermittent pulse into the sewer hose in order to break the friction between the hose and pipe
		The hose reel shall be constructed of 3/16" steel, designed to withstand maximum working pressure without distortion
		Hose reel shall have a capacity of at least 600' of /2" high-pressure plastic sewer hose
		The outside diameter of the hose reel drum shall not exceed 30"
		Reel flanges shall be a minimum of I" and shall be designed to prevent hose damage from contact during all normal working conditions
		The reel shall be driven with hydraulic power in both directions, either with or without the water pump in operation. The hydraulic drive shall have sufficient power to retract the hose when fully extended into the pipe with the cleaning nozzle in operation
		Hose reel shall allow the operator to manually pay out the sewer hose without the need to hold down the control valve
		The hydraulic drive motor that powers the hose reel shall be of a floating mount design and NOT integral to the reel support system. Units that utilize the reel drive motor as a part of the reel weight bearing system are not acceptable. In addition, no chains or sprockets are to be associated with the drive system
		The safety reel will rotate a full 160 degrees providing easy access to remote sites
		The 160-degree rotation will enable the operators to position the machine out of the traffic pattern and provide protection for themselves while operating the machine
		The rotating ability of the hose reel allows the operator to manipulate the hose reel into various positions depending on location of manhole. This allows for proper positioning of the hose reel without backing up or repositioning sewer machine
		The hose reel is mounted on an industrial swivel bearing that is sealed and eliminates contamination from dirt
		The industrial swivel bearing shall have minimum requirements of 7.88 I.D., 14" O.D., and 2" thickness
		The industrial swivel bearing shall have a minimum load bearing weight of 5,000 Ft-lbs
		The bearing design shall have no wear points except the greasable ball bearings and the braces, which are constructed, of hardened steel to minimize wear
		The bearing design minimizes any friction for easy pivoting
		Rotating reels using plastic material and/or sliding contact or other wear surfaces for swivel action will not be accepted
		A single, right hand side control panel mounted on the rotating hose reel shall provide access to all necessary operating controls. The control panel shall rotate with the reel. Units were the controls do not rotate with the reel are unacceptable

		Controls mounted on the rotating hose reel control panel will consist of: Engine throttle control, engine start key lock starting switch, voltage indicator, oil indicator, charging indicator, integral diagnostic system, water pressure gauge, I 2-va1t plug, digital water pressure display and light switches
		The hydraulic controls for the rotating hose reel will consist of; a variable speed control and a forward, neutral, reverse directional control
		The rotating hose reel will lock into position using a spring-loaded safety pin at 2" intervals
		Control panel must be completely digital. All digital display and engine control functions will be managed by micro-controllers
		Control panel must display water pressure
		All control wiring shall be color coded to function
		The 4 roller head will open to allow use of hose guide. fin extension, and nozzle without need to thread hose into guide
		All hose connections must be accessible to allow tightening without removing the sewer hose
		The reel design shall be such that either a rotating or fixed position reel will be interchangeable with regards to the method of attaching to the trailer
		The unit will be supplied with sewer cleaner hose capable of cleaning residential, commercial, or sanitary service lines, storm lines, culverts, drainage tiles and other open conducts
		Hose will be 1/2" lD by 500' with an operating pressure of 4,000 PSI and a minimum burst pressure of 10,000 PSI
		A leader hose of 25' in length shall also be supplied as standard
		The hydraulic power system for driving the units systems shall consist of a pump directly driven by an auxiliary engine
		The hydraulic pump shall have a minimum operating capacity of at least 8 (3PM and a tank with a strainer that can be cleaned or replaced as well as an inspection port
		The hydraulic filter assembly shall be located within the hydraulic tank so as facilitate filter change and create less clean up. Spin on filters that allow leakage on the ground or associated parts of the equipment are unacceptable
		The clean-up systems will include a wash-down gun. 25 ft. of 1/2" ID. hose and will he equipped with a quick-disconnect fining near the operator's station
		The gun shall be a machine grip with trigger shut-off and guard
		The high-pressure hose shall have a rating of 2.000-PSI working pressure and an 8.000-PSI burst pressure
		The cleaning system shall have its own relief set at 500 PSI, In addition. this circuit shall provide an orifice to facilitate the bypass of a portion of the pump flow so as not to overheat the water by running all of the pump flow across the relief valve
		All piping systems subjected to high pressure shall use zinc chromate plated steel fittings with minimum burst pressure of 4 times the system pressure. Hoses working pressure ratings shall exceed the maximum system pressure
		A strainer with a minimum of 40-mesh screen shall be installed in the suction line at a location accessible for cleaning
		All piping shall be installed to drain by gravity through suitable openings equipped with plugs, drain cocks, or ball valves
		To control water flow from water pump, a single lever control shall regulate direction of water either to hose reel or back to tank utilizing a high-pressure valve assembly. This single lever control shall control a 3-way valve
		Water delivery to hose reel shall pass through a single 90-degree swivel rotary coupling
		The engine shall be diesel powered, air-cooled, three cylinder type rated at 50hp with industrial type governor, air cleaner and muffler
		Engine shall have an integral protection system for low oil pressure and high water temperature protection
		The required engine accessories shall be furnished, including, but not limited to:12-volt ignition system with alternator and battery, Vernier throttle control, Starter with key lock starting switch, Replaceable cartridge type oil filter, Positive crankcase ventilation system

		Power band belt, from engine sheave to pump sheave, is adjustable by movement of water pump
		The engine fuel tank will have sufficient capacity to facilitate 8 hours of continuous operation and will be aluminum construction
		The frame shall be heavy gauge steel tubing construction. The outer frame being of a 2" x 3" construction with a 2"x 4" "spine" running from the hitch to beneath the water tank area
		Unit will be equipped with a torsion spring style axle, with 6,000 lb. capacity
		Unit will be equipped with two (2) radial tires
		Trailer unit will be equipped with heavy-duty fenders, 2-5/16" ball type hitch, and electric brakes with breakaway switch
		Unit will be equipped with complete ICC light group, reflectors, license plate holder and safety chains
		The frame shall utilize a modular design (Van-Flex or equal) approach such that the unit will accept any alteration of hose reel assembly or pump and engine combination without ANY welding. All future product upgrades for hose reel and/or pump and engine combinations MUST bolt in to the existing unit for purposes of easy upgradeability
		Unit will be equipped with a heavy-duty 16-gauge aluminum top opening toolbox with keyed lock system for storage of nozzles and other tools
		Toolbox will measure 12" high, 45" wide and 13" deep
		Weather stripping will protect toolbox from intrusion of water
		Before painting, all metal shall be cleaned and etched with a phosphoric wash to insure permanent bond of primer and paint
		All components of the unit whether purchased or manufactured shall be BOTH primed and painted prior to assembly in order to assure maximum resistance to corrosion. Painting after the assembly process is NOT acceptable
		The unit shall have the trailer frame painted black and the hose reel to be painted per the customers color specification
		All switches and/or engine controls shall be housed in a NEMA 4 enclosure to insure maximum protections against the elements
		All electrical connections shall be made via water- tight NEMA 4 equivalent splices
		Taillights shall be recessed type with sealed connections. Taillights protruding from the face of the trailer frame are NOT acceptable
		The main power supply shall have circuit protection and come direct from the unit's battery. All functions shall de-energize when the ignition switch is turned off
		A dedicated ground shall be supplied to the control panel to assure a positive ground for all devices. Local grounding of the devices is not acceptable
		BB hose guide included
		a cleaning nozzle included
		a penetrator nozzle included
		a CD owners manual included