



Street / Sanitation / Recycling
705 South River Road
West Lafayette, IN 47906
Phone: (765) 775-5242
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August 28, 2012

The West Lafayette Street Department is requesting sealed bids for one combination sewer cleaner truck per the enclosed specifications.

SEALED BIDS will be received until 8:30 a.m. (local time) on September 18, 2012 at the Office of the Clerk-Treasurer, City Hall, 609 West Navajo St., West Lafayette, IN 47906. Each bidder will submit his bid upon forms provided in the bid packet and enclosed in a sealed envelope marked, "Combination Sewer Cleaner". At 8:30 a.m., all bids will be taken to the Board of Works meeting to be opened and read aloud in the City Hall Council Chambers, 609 W. Navajo St., West Lafayette, IN 47906.

For a bid to be considered complete, the following items must be submitted:

1. Bid Price Sheet.
2. Specifications Check Sheet, Items #1 through #24 completed.
3. State Form 95 (Revised 1987) with properly executed non-collusion affidavit.
4. Bid bond or cashier's check made out to the City of West Lafayette, Indiana in the amount of 5% of bid price.

Bidder will attach any explanations and/or detail of specifications provided on a separate page(s).

**City of West Lafayette
Combination Sewer Cleaner Truck Bid**

**BID FORM 1 OF 3
BID PRICE SHEET**

ITEM	UNIT PRICE	QUANTITY	TOTAL AMOUNT
Base Price			
Option (if applicable) Costs			
Discounts or Other Price Adjustments			
Destination Charges			
Dealer Preparation Charges			
Any Additional-Allowance			
Trade-In Allowance			
TOTAL BID			

Bidder: _____
 Company

Signature: _____ Title: _____
 Name

Date: _____

BID FORM 2 of 3
CITY OF WEST LAFAYETTE
BID SPECIFICATONS CHECK SHEET
Combination Sewer Cleaner Truck

INSTRUCTIONS: The specifications herein describe the **minimum acceptable features** and **performance requirements** for a combination sewer cleaner truck to be purchased by the West Lafayette Street Department. Bidders are to have thoroughly read and understood these specifications prior to bid submission. If any part of an item is not in compliance, an explanation can be provided on a separate sheet with the benefits of that item to the City. It will be up to the purchasers' discretion what items will be termed equal. Bids shall be good for a minimum of 90 days.

Bidders shall place a check mark in the specification column to indicate if the item being bid is exactly as specified. If an item is left blank, the City will assume the bidder cannot meet the specifications and may cause rejection of the bid.

By checking any of the "NO" spaces the bidder states that the product being bid does not conform to that specification. All variations and/or exceptions must be documented, referencing applicable paragraph(s), and explained in detail on a separate page titled "Exceptions". If the City of West Lafayette determines by any means that exceptions exist which were not identified on such list, then that bid will be disqualified as being non-responsive. If no exceptions are taken, it will be assumed that the bid meets all specifications as stated.

Complete the following check sheet items #1 through #24.

Sign and Date on page 14

**DETAILED SPECIFICATIONS
FOR
(1) COMBINATION DUAL ENGINE SEWER CLEANER TRUCK
WITH AUXILIARY ENGINE DRIVEN VACUUM SYSTEM
MOUNTED ON A HEAVY DUTY TRUCK CHASSIS**

		COMPLY	
		YES	NO
1.0	INTENT:		
	The intent of this specification is to provide for the purchase of one (1) new 2013 dual engine combination sewer cleaner truck used for removing all debris commonly found in storm basins and leads and/or sanitary sewer lines and manhole structures using a front mounted operating station. The unit shall consist of a centrifugal compressor vacuum system, a hydraulically driven high pressure water pump, an enclosed sealed body for storage of collected debris and equipped with a self-contained water supply as the source for the water pump system. The unit shall have the capability of operating both vacuum and water system simultaneously at full operating speeds continuously. The Centrifugal Compressor system shall be powered by the auxiliary engine and have capability to vacuum while in motion.		
	This specification is not to be interpreted as restrictive, but rather as a measure of the safety, quality, performance and overall cost of ownership against which all equipment bid will be compared. In comparing proposals, consideration will be given to life cycle costing whereby bidder shall provide all pertinent information to evaluate long-term cost. Contract will be awarded for the product which best serves the interests of the City of West Lafayette. The City of West Lafayette reserves the right to reject any or all bids or any part thereof, and to waive any minor technicalities.	-	-
2.0	EQUIVALENT PRODUCT:		
	Bids will be accepted for consideration on any make or model that is equal or superior to the equipment specified. Decisions of equivalency will be at the sole interpretation of the City of West Lafayette.		
	Bidder shall demonstrate a reasonable likeness of the equipment being offered.		
3.0	GENERAL:		
	The specification herein states the minimum requirements of the City of West Lafayette. Any bid not prepared and submitted in accordance with the bid document and specification, or any bid lacking sufficient technical literature to enable the City of West Lafayette to make a reasonable determination of compliance to the specification will be considered "non-responsive".		
4.0	SUB FRAME:		
4.01	The equipment shall be of modular design consisting of vacuum system, water tanks system, debris hopper and drive system.		
4.02	A sub frame shall be fabricated to the exact dimensions of the truck chassis for mounting of modular components.		

4.03	All components of the module shall attach to the sub frame and not directly to the chassis.		
4.04	Sub frame shall be designed to ASME standards for maximum applied loads, chassis frame movement and even distribution of weight to the chassis and suspension.		
4.05	Sub frame shall be continuous and uninterrupted from back of cab to end of frame.		
5.0	DEBRIS BODY:		
5.01	Efficiency of air movement through debris body will be measured for minimal restriction as measured by vacuum pressure gauge while operating blower at full speed. Pressure drop throughout entire system (from 8" hose inlet to blower inlet) including specified filtration and blower protection devices shall be no greater than 3" hg as measured at blower.		
5.02	The body shall be cylindrical having a minimum usable liquid capacity of 15 cubic yards capable of high-dumping into 60" roll-off container.		
5.03	The debris storage body shall be constructed with a minimum 1/4" corrosion and abrasion resistant Ex-Ten steel.		
5.04	Body shall have a rear door that is hinged at the top and is equipped with a replaceable neoprene type seal.		
5.05	The debris body seal shall be installed on rear door to facilitate easy cleaning and provide additional structural support of rear door.		
5.06	Debris body shall have a body flush out system with (8) tungsten-carbide tipped nozzles mounted on a manifold located in the front wall of the debris body to aid in the flushing of heavy debris. Control valve shall be on the curb side of the unit.		
5.07	For optimal particulate separation, vacuum shall be drawn from separate ports in the top of the debris body.		
5.08	Body shall be dumped by raising the body to a 50 degree angle utilizing a forward mounted, double acting hydraulic dump cylinder.		
5.09	Dump controls and accessory controls shall be provided at a central curb side location directly behind the cab of the truck.		
5.10	For stability and safety, dumping must be accomplished while the pivot point of the hopper remains fixed to the subframe.		
5.11	Water pump shall be mounted below frame rail of chassis passenger side.		
5.12	Rear debris body door shall be an industrial door, opened and closed hydraulically by cylinders mounted at top of body. For safety, manual type latches required to secure load will not be accepted.		
5.13	Door shall be unlocked and locked by a fail-safe hydraulically activated, over-center-cam positive locking system controlled by one switch. Precise control while opening shall allow controlled release of liquids.		
5.14	To accommodate periodic adjustment of door seal, each locking pin shall have provision for precise adjustment.		
5.15	Midship curbside controls for debris body and rear door shall include an emergency safety stop switch to disengage all systems.		

5.16	Body shall have a float type automatic shut-off system protecting the Centrifugal Compressor with (2) 10" stainless steel shut-off balls located in the debris body. Each float ball housing shall be within a non-corrosive slide-out screen assembly for easy access.		
5.17	The debris body shall be equipped with a rear door drain to drain off excess liquids while retaining solids and shall include a manually operated 6" butterfly valve with 10' of lay flat hose.		
5.18	Each float-ball housing shall be of non-corrosive material with tool-less removal for routine maintenance.		
5.19	The debris body shall be equipped with a curb side forward mounted body drain to drain off excess liquids while retaining solids and shall include an air-activated 6" knife valve and screen with cam-lock coupler and 10' of lay flat hose.		
5.20	Rear door drain screen internal on rear door shall be minimum 5 sq. ft. (720 sq. in.)		
5.21	For safety, a minimum of (5) vacuum tubes shall be stored on curbside storage racks to minimize operator exposure to traffic side of unit.		
5.22	A curb-side folding 3-pipe rack shall be provided, constructed of steel tubing, spring assisted. Shall include twist-lock retainer handles (no bungees or clamps).		
5.23	A street-side folding 3-pipe rack shall be provided, constructed of steel tubing, spring assisted. Shall include twist-lock retainer handles (no bungees or clamps).		
5.24	(2) Pipe Storage Racks Curbside waist level and (2) on rear door with twist-lock retainer handles.		
5.25	A 10" deep bolt-on splash shield shall be mounted around the lower 60% of door opening to direct liquid and debris into roll-off container or dumping pit.		
5.26	Shield shall have no gaps or openings allowing debris to splash outside of contained area or toward chassis (operators).		
5.27	A lubrication manifold system shall be provided to allow ground level greasing of boom lift and swing cylinders, float level indicator, top rear door hinges and debris body hoist cylinder pins.		
5.28	A 10" valve with 3" vent to atmosphere, electrically activated, air operated valve debris body vacuum relief system shall be located in the inlet of the vacuum system to allow the venting of the tank and relieve vacuum at the debris intake hose.		
5.29	A debris inlet deflector distributing load evenly in debris body shall be included.		
6.0	WATER TANKS:		
6.01	The water tanks shall be manufactured from 10 gauge aluminum to prevent rust yet still provide for maximum strength.		
6.02	The water tank material shall require no internal coating and must be repairable with conventional methods.		
6.03	The water tanks shall be easily removed from the sub frame to provide complete access to the truck chassis for maintenance purposes.		
6.04	The water tanks shall be adequately vented and connected to provide complete filling.		

6.05	The water tanks shall be totally separate from the debris tanks and provide no structural support.		
6.06	The water tanks shall share no common walls with the debris tanks to prevent corrosion.		
6.07	The water tanks shall come equipped with an anti-siphon device and 25' of hydrant fill hose and fittings.		
6.08	The water tanks shall carry a 10 year warranty against corrosion or cracking.		
6.08	The water tank shall be located for the lowest possible center of gravity while providing 100% gravity flooded intakes to water pump.		
6.09	Fresh water shall enter the tanks through an in line 6" air gap, all aluminum covered anti-siphon device.		
6.10	Water level sight tubes of non-yellowing plastic shall be installed on curbside tanks.		
6.11	The sides of these water tanks shall not extend more than 48" out from the centerline of the truck chassis.		
6.12	A fresh water drain system shall be provided to completely drain the fresh water system from one location utilizing a 3" drain port and plug.		
6.13	A minimum 6" and 4" connection between tanks shall be provided.		
6.14	For stability safety, the water tanks shall not elevate with debris body during dump cycle.		
6.15	A low water alarm with light at the operator station shall alert operator when water storage has 200 gallons remaining.		
6.16	2" Y-Strainer located at Water Fill with 25' Fill Hose		
6.17	(1) Minimum 4" diameter in-line "Y" trap stainless steel strainer shall be located between the water tank suction and water pump inlet.		
6.18	3" Drain valve with 3" gate valve at suction inlet to pump.		
6.19	Water tanks must be capable of utilizing complete capacity of 1500 gallons via suction sump below at lowest point of tanks. All units to be verified prior to acceptance for weight distribution on front and rear (tandem) axle with full and depleted water tank scenarios upon delivery.		
6.20	Water tanks shall be constructed of 10 gauge aluminum with baffled compartments.		
6.21	Liquid Float Level Indicator		
6.22	2-1/2" NST fire-hose thread on end of fill hose shall be provided.		
7.0	VACUUM SYSTEM AND DRIVE:		
7.01	Vacuum shall be provided by compressing air within a two-stage 38" diameter centrifugal compressor.		
7.02	Compressor fans to be constructed of non-corrosive material.		
7.03	Each centrifugal compressor fan shall be constructed of non-corrosive, hardened 1/4" chrome blades.		
7.04	Centrifugal compressor shall be warranted against corrosion for five years minimum.		
7.05	The outer housing shall be constructed of 1/4" spun steel.		
7.06	Compressor housing shall be equipped with a drain not exceeding 2" diameter.		
7.07	Complete compressor and housing assembly shall be warranted against materials and workmanship for five years.		

7.08	Fan shall be powered by a minimum 6-cylinder turbo charged 414 cu. in. 185 Hp @ 2400 rpm diesel engine. Engine exhaust system shall be urea and meet Federal T3 regulations.		
7.09	Auxiliary engine gauge package including voltmeter, water temperature, oil pressure, tachometer, hour meter with ignition on/off and throttle controls at front operator station.		
7.10	A fluid coupler drive system shall be provided including vacuum relief and controls at operator station.		
7.11	Step-up transmission shall be gear-type having a ratio of 1.6 To 1.		
7.12	Efficiency of air movement from 8" debris hose inlet thru debris body and filtration systems shall be measured by reading vacuum gauge while operating at maximum speed (cfm) with open inlet. Bidders are required to submit this vacuum gauge reading of air movement restriction and chassis rpm at reading.		
7.13	Blower shall be capable of instant disengagement while under any load scenario via e-stop emergency switch located at any control panel or remote operating device. When activated, e-stop shall disable all systems while idling engine without load.		
7.14	A horizontal silencer with rain cap shall exhaust above the cab.		
7.15	For maximum efficiency, air shall be routed through two (2) separate 8" diameter ports in debris body (minimum 100 sq. in. free air flow exiting debris body).		
8.0	VACUUM BOOM SYSTEM:		
8.01	Vacuum hose shall be designed for front operation with hose mounted and stored at front mounted work station. Front mounted location is required for ease of positioning vacuum hose as well as minimizing need for operator to swing hose into traffic.		
8.02	All connections between debris body and vacuum system will be of the self-adjusting pressure fitting type.		
8.03	Vacuum hose will remain stationary and not rise with debris body.		
8.04	Upper debris tube shall consist of an anchored steel tube and elbow.		
8.05	A sub-frame mounted cab guard shall be mounted behind cab with boom rest cradle.		
8.06	All vacuum pipes shall be connected to vacuum pick up tube and extension pipes by adjustable over-center quick clamps to join the aluminum flanges on pipes.		
8.07	One (1) quick clamp for each pipe supplied shall be provided.		
8.08	Boom support used for travel mode shall not interfere with access or require removal to tilt hood forward.		
8.09	A control station shall be equipped with control switches for all directions as well as a safety emergency shutdown button, which shall automatically eliminate power to boom.		
8.10	The vacuum boom shall have a heavy-duty flexible hose assembly joining the transition pipe to the debris body, and a 70-degree elbow and 5-1/2' heavy duty hose at the suction end of the boom.		

8.11	Boom shall rotate 180 degrees and shall be operated by an electric over hydraulic system. Lift and swing movements shall be actuated by hydraulic cylinders.		
8.12	The horizontal inner steel vacuum tube and inner box beam boom section shall telescope (tube within tube, box beam within box beam) and retract a minimum of 8' without affecting the vertical position of the pick-up tubes, and shall be located at the front work station in its retracted position, providing 277" minimum reach off the longitudinal axis of unit.	-	-
8.13	Boom shall be fully controlled by a remote push button pendant control station with 25 ft. cable. Controls to include up / down, left / right, in / out boom functions, vacuum relief, e-stop and main power switch.		
8.14	A joystick for hydraulic control of the boom shall be installed on hose reel front panel.		
8.15	A detailed engineering drawing must be supplied showing the relationship of the hose reel in relation with the vacuum boom range of motion. Drawing shall show module mounted on chassis, full arc of vacuum hose both retracted and extended, full rotation of arc for hose reel in the extended position and dimension all arc lengths of vacuum boom retracted and extended. Drawing shall highlight intersection areas whereby combination cleaning is possible (within full arc on telescoping boom system).		
9.0	WATER PUMP:		
9.01	For most efficient use of horsepower and reduced fuel consumption, high pressure rodder pump shall be hydraulically driven via (1) load sensing utility pump, (1) variable displacement pump and (1) fixed displacement pump		
9.02	High pressure water pump shall be rated capable of continuous delivery of 100 GPM at 2500 PSI.		
9.03	High-pressure water pump system shall include controls for operation of three modes: (1) Low-flow 0-22 gpm / 2500 psi; (2) Medium-flow sewer-cleaning, 22-60 gpm / 2500 psi; and (3) High-flow sewer-cleaning, 60-90 gpm / 2500 psi.		
9.04	Variation of water pump speed shall be monitored via digital flow meter readout mounted within view of mode operation controls.		
9.05	This hydraulic drive system shall allow variation of water pump speed independent of required vacuum drive speed within maximum drive engine speed of 1760 RPM.		
9.06	Water flow adjustment control on front panel shall be within clear view of digital flow meter to precisely control speed of water pump operation.		
9.07	Variable flow systems routing water back-to-tank are not considered equal due to additional wear, horsepower and fuel consumption. Any deviation from this drive requirement should have full explanation of horsepower consumption.		
9.08	Water pump location shall provide a flooded <u>gravity</u> suction inlet to eliminate potential cavitation damage.		

9.09	An oil to water heat exchanger will be provided in the water system to cool all hydraulic fluids on the unit. State horsepower requirement to operate hydraulics at full speed:		
9.10	Two (2) 1/2" high pressure ball valves shall be provided for draining the water pump and flushing sediment from the bottom of the pump.		
9.11	A nozzle rack accommodating (7) nozzles shall be provided in curbside toolbox. The nozzles shall be labeled on storage rack for pipe size/flow and application.		
9.12	Handgun shall be supplied that allows for changing of flow pattern from a fine mist to a steady stream.		
9.13	Handgun shall come equipped with quick connect couplers.		
9.14	A mid-ship quick disconnect handgun couplers shall be provided.		
9.15	A water pump hour meter shall be provided.		
9.16	Cold weather recirculation capability to prevent freezing.		
10.0	TELESCOPING/ROTATING HOSE REEL:		
10.01	Hose reel assembly shall be mounted on an independent frame that can be removed from brackets attached permanently to front of main truck frame members.		
10.02	Reel will be manufactured out of 1/4" spun steel for added structural strength and shall require no internal or external reinforcements that could damage rodder hose.		
10.03	Hose reel shall be driven by adjustable gear reduction chain and sprocket assembly.		
10.04	Hose reel shall operate at full rotational speed while chassis engine is at idle.		
10.05	Non-Rotating Hydraulic Extending 15" Hose Reel (800' x 1") Capacity		
10.06	The front mounted hose reel shall telescope 15" forward down centerline of truck.		
10.07	600' x 1" Sewer Hose 2500 PSI (ILO STD)		
10.08	A manual hose level wind guide shall be provided for rewinding of jet hose onto the reel.		
10.09	A mechanical hose footage counter shall be supplied to indicate relative hose travel.		
10.10	Hose Reel Chain Cover (Full)		
10.11	Two (2) 1/2" high pressure ball valves shall be provided for draining the water pump and flushing sediment from the bottom of the pump.		
11.01	A spring retractable storage reel for handgun hose shall be provided to allow the operator to deliver water to area served by pick up hose and to the inside of the debris body for clean out. Reel shall be mounted midship on curbside, equipped with 1/2" x 50' 2000 psi hose. An additional 35' of 1/2" hose with quick disconnect couplers shall be supplied loose.		
12.0	FRONT OPERATING STATION AND CONTROLS:		
12.01	Primary operator station will be located at front of truck on right curb side of hose reel.		
12.02	Complete module electronic diagnostics on operator control panel shall be included. Panel shall rotate 90° to accommodate operator position.		

12.03	Data logging of engine/water pump/PTO's/water usage/hose pay in-payout.		
12.04	Hour meter data recording of all functions to supply preventative maintenance info.		
12.05	Hydraulic Oil High Temperature Light & Alarm		
12.06	Tachometer and hour meter for auxiliary engine provided at front control station.		
12.07	Capable of fuel usage log while in stationary mode		
12.08	All front operator controls shall be accessible while operating either front and rear side of reel assembly. All operations to either side of unit shall position operator in front of vehicle affording protection from oncoming traffic.		
12.09	Station shall include truck engine throttle, water pump (on/off), water pump mode, water pump flow meter, hose reel control valve (forward / reverse), adjustable hose reel speed control, oil dampened water pressure gauge, boom controls, digital water pump flow meter, and low water warning light.		
12.10	All Hydraulic Functions - Color Coded, Sealed Electric/Hydraulic Nema 4 switches		
12.11	Auxiliary Engine/Vacuum Relief - Sealed Electric/Air Nema 4 Switches		
13.0	ELECTRICAL & SAFETY LIGHTING:		
13.01	The entire system shall be vapor sealed to eliminate moisture damage, "Nema-4" type or equal.		
13.02	All electrical connections shall be void of exposed wires or terminals nor should they be painted. Paint process shall be completed prior to installation of wiring.		
13.03	All wiring shall be color-coded and encased in conduit to scaled terminal boxes with circuit breakers.		
13.04	All light bulbs shall be shock mounted to eliminate bulb failure.		
13.05	All other lights required by State and Federal Laws.		
13.06	A pistol grip hand light with bumper plug and 25' coiled cord shall be provided.		
13.07	Strobe Light - FED SIG US-5 Series - Rear Mounted Only		
13.08	Strobe LED Amber Light - FED SIG - Front Cab Guard Mounted Only		
13.09	LED Bumper Strobes Lights - FED SIG / Recessed in the Tail Plate of the combination sewer cleaner truck		
13.10	LED Rear Chassis Lights; Clearance, Back-up, Stop, Tail & Turn		
13.11	LED Work Lights (2) On All Booms		
14.0	SAFETY EQUIPMENT:		
14.01	Complete module electronic diagnostics on operator control panel shall be included. Panel shall rotate 90° to accommodate operator position.		
14.02	Safety e-stop shutoff controls at each human-machine interface (including remote devices). All e-stops switches shall disengage all system, open vacuum reliefs and safely return engine to idle.		
14.03	System check and interlock verify all switches in home position prior to allowing engagement of any system to be included.		
14.04	Rear door safety prop shall be provided on exterior of rear door keeping operator out of door swing path.		

14.05	Cab work light switch shall be capable of activating all work lights from cab when desired.		
14.06	Work lights on rear door shall activate automatically when in reverse.		
14.07	(1) Emergency Flare Kit		
14.08	(1) 5# Fire Extinguisher		
15.0	SEWER TOOLS AND ACCESSORIES:		
15.01	(1) 30° Sand Nozzle (60 gpm/2500psi)		
15.02	(1) 30° Sanitary Nozzle (80gpm/2500psi)		
15.03	(1) 15° Sanitary Nozzle (40gpm/2500psi)		
15.04	(1) 1" Small finned nozzle pipe skid		
15.05	(1) Flexible Hose Guide		
16.0	VACUUM TOOLS AND ACCESSORIES:		
16.01	(1) 8" x 3' aluminum pipe		
16.02	(2) 8" x 5' aluminum pipe		
16.03	(1) 8" x 6'6" catch basin tube		
16.04	(4) 8" quick clamps		
16.05	(0) 8 In.X 6.5' Catch Basin Nozzle Assembly		
16.06	(1) Hydro excavation kit with 25' hose reel		
17.0	CHASSIS EQUIPMENT AND STORAGE:		
17.01	Two (2) front tow hooks shall be provided.		
17.02	(1) 22W x 20H x 63D Aluminum Toolbox - Passenger Side		
17.03	16 x 12 x 18 Front Bumper Toolboxes (2)		
17.04	17X30X48 Toolbox; PD or FAN; 6X4 Chassis ONLY, 1000, 1300 or 1500 gallon capacities; Behind Cab Tool Box; Driver side access; exhaust position		
18.0	CHASSIS:		
18.01	M2 112V 6X4: Cummins ISC-350 Hp, 3000RDS, 66000 GVW, 260 WB, 194 CA/CT, 71 AF shall be provided.		
18.02	M2 112V 6 X 4 Dimensions: 260"" WB, 194" CA, 71" AF		
18.03	Side of hood air intake with Donaldson high capacity air cleaner with safety element, firewall mounted.		
18.04	(2) Alliance Model 1131, Group 31, 12 volt maintenance free 1850 CCA threaded stud batteries.		
18.05	Battery box frame mounted		
18.06	Non-polished battery box cover		
18.07	Cummins 18.7 CFM air compressor with internal safety valve..		
18.08	Electronic integral warning and derate protection system.		
18.09	RH outboard under step mounted horizontal after treatment system assembly top inlet with RH B-Pillar mounted vertical tailpipe		
18.10	Engine after treatment device, automatic over the road regeneration and dash mounted regeneration request switch.		
18.11	6 gallon diesel exhaust fluid tank.		
18.12	Stainless steel after treatment device/muffler/tailpipe shield.		
18.13	Horton 2-speed drive master polar extreme fan drive.		
18.14	1200 Square inch aluminum radiator.		
18.15	Radiator drain valve.		

18.16	Phillips-Temro 1000 Watts/115 volt block heater.		
18.17	Black plastic engine heater receptacle mounted under LH door.		
18.18	Electric grid air intake warmer.		
18.19	Delco12v 38 MT HD started with integrated magnetic switch.		
18.20	Allison 3000 RDS automatic transmission with PTO provision.		
18.21	Magnetic plugs, engine drain, transmission drain, axle(s) fill and drain.		
18.22	Push button electronic shift control, dash mounted.		
18.23	Water to oil transmission cooler, in radiator end tank.		
18.24	Transmission oil check and fill with electronic oil level check.		
18.25	Synthetic transmission fluid (TES-295 compliant).		
18.26	MFS-20-133A 20,000# FL1 single front axle.		
18.27	Meritor 16.5X6 Q+ cast spider cam front brakes, double anchor, fabricated shoes.		
18.28	Non-asbestos front brake lining.		
18.29	Conmet cast iron front brake drums.		
18.30	Front brake dust shields.		
18.31	Chicago rawhide scotseal plus XL front oil seals.		
18.32	Vented front hub caps- oil.		
18.33	Standard spindle nuts for all axles.		
18.34	Gunite automatic front slack adjusters.		
18.35	TRW THP-60 power steering with RCH45 auxiliary gear.		
18.36	Power steering pump.		
18.37	4 quart power steering reservoir.		
18.38	Oil/air power steering cooler.		
18.39	Organic SAE 80/90 front axle lube.		
18.40	20,000# flat leaf front suspension.		
18.41	Graphite bronze bushings with seals – front suspension.		
18.42	Front shock absorbers.		
18.43	RT-46-160P 46,000# R-Series tandem rear axle.		
18.44	5.63 rear axle ration.		
18.45	Iron rear axle carrier with standard axle housing.		
18.46	MXT 17T meritor extended lube main driveline with half round yokes.		
18.47	MXT 17T meritor extended lube interaxle driveline with half round yokes.		
18.48	(1) interaxle lock valve for tandem or tridem drive axles.		
18.49	Blinking lamp with each mode switch, interaxle unlock default with ignition off.		
18.50	Meritor 16.5X7 Q+ cast spider cam rear brakes, double anchor, fabricated shoes.		
18.51	Non-asbestos rear brake lining.		
18.52	High mount cam brake chamber position with auxiliary support brackets.		
18.53	Conmet cast iron rear brake drums.		
18.54	Rear brake dust shields.		
18.55	Chicago rawhide scotseal plus XL rear oil seals.		
18.56	Haldux goldseal long stroke 2-drive axles spring parking chambers.		
18.57	Gunite automatic rear slack adjusters.		
18.58	Organic SAE 80/90 rear axle lube.		

18.59	Hendrickson RT463 rear suspension @ 46,000#		
18.60	Standard u-bolt pad.		
18.61	Hendrickson RT/RTE - 6.00" saddle.		
18.62	54 inch axle spacing.		
18.63	Steel beams and bronze center bushings with bar pin adjustable end connections.		
18.64	Fore/aft control rods.		
18.65	Air brake package.		
18.66	WABCO 4S/4M ABS without traction control.		
18.67	Reinforced nylon, fabric braid and wire braid chassis air lines.		
18.68	Fiber braid parking brake hose.		
18.69	Standard brake system valves.		
18.70	Relay valve with 5-8 PSI crack pressure, no rear proportioning valve.		
18.71	BW AD-9 brake line air dryer with heater.		
18.72	Air dryer frame mounted.		
18.73	No air tank-auxiliary.		
18.74	Standard air system pressure protection system.		
18.75	Pull cable on wet tank, petcock drain valves on all other air tanks.		
18.76	Metallic air manifold mounted to back of cab cross member with six ¼ fittings and 70 PSI protection valve.		
18.77	6600MM (260 inch) wheelbase.		
18.78	7/16X3-9/16X11-1/8 inch steel frame (11.11MMX282.6MM/0.437X11.13 INCH) 120KSI		
18.79	¼ inch (6mm) C-channel inner frame reinforcement		
18.80	1800mm (71 inch) rear frame overhang.		
18.81	80 gallon/302 liter aluminum fuel tank-LH		
18.82	23 inch diameter fuel tank(s)		
18.83	Plain aluminum/painted steel fuel/hydraulic tank(s) with painted bands.		
18.84	Alliance fuel filter/water separator.		
18.85	Equiplo inboard fuel system		
18.86	Auxiliary fuel supply and return ports located on LH fuel tank.		
18.87	High temperature reinforced nylon fuel line.		
18.88	Fuel cooler.		
18.89	Continental HTC 425/65R 22.5 20 ply radial front tires.		
18.90	Continental HDL Eco plus 11R22.5 16 ply radial rear tires.		
19.0	DRIVETRAIN & CHASSIS WARRANTIES / MANUALS:		
19.01	Standard Chassis Warranty: 1-Year / 100,000 Mi.		
19.02	Standard Engine Warranty: 2-Year / 100,000 Mi.		
19.03	Standard Allison Transmission Warranty: 3-Year / unlimited Mi.		
20.0	MODULE MANUALS / TRAINING MATERIALS:		
20.01	Module Safety, Operations & Parts Manual with Electrical Schematics		
20.02	(1) Combination Sewer Cleaner Truck Manual - (1) Partial Manual and CD Version		
20.03	CD Rom: Nozzle Applications		
20.04	PowerPoint presentation outlining module maintenance		
21.0	MODULE WARRANTIES:		

21.01	Complete Module Warranty: 1 Year Parts and Labor		
21.02	Water Pump Warranty: 1 Year Parts and Labor		
21.03	Centrifugal Compressor/Housing Warranty: 5-Year Parts/Labor		
21.04	Water Tanks: Ten (10)-Year Parts and Labor		
21.05	Debris Tank: Five (5)-Year Parts and Labor		
21.06	<i>Warranty certificates of original equipment manufacturers must be submitted with bid package. Letters or statements of warranty not directly from original equipment manufacturer will not be acceptable.</i>		
22.0	PAINT:		
22.01	All painted body parts shall be shot-blasted and acid washed prior to primer. All module components shall be painted wet-on-wet prior to assembly and installation of hydraulic and wiring systems.		
22.02	Chassis cab shall be painted with OEM Standard White		
22.03	Body color shall be City of West Lafayette's specified color of "OEM Standard White".		
23.0	DELIVERY:		
23.01	Vehicle shall be delivered F.O.B. City of West Lafayette in first class operating condition.		
23.02	Acceptance shall be subject to the inspection and approval of the City of West Lafayette.		
24.0	The City of West Lafayette may choose, at its sole discretion, to add any or all of following items to this purchase. On the BID PAGE, Bidder shall state the amount to be added to the Bidder's Proposal, for the items listed below:		
24.01	T300 Omnex Remote Wireless BellyPack Control (Boom, Throttle, Pump, Hose Reel I/O, Hose Reel Speed, Vac Relief, E-Stop)		
24.02	Electronic Digital Hose Footage Counter measuring absolute and relative footage +-1% Readout shall be on rotatable panel to accommodate operator."		
24.04	A cordless remote boom control system equipped to activate boom functions, throttle, water pump on/off, hose reel in/out, hose reel speed, vacuum relief on/off and emergency disengagement e-stop shall be bid for optional consideration.		
24.05	Option to Trade: 1. 1993 Ford L8000 with combination sewer cleaner truck with 42,500 miles. Combination dual engine sewer cleaner vacuum and high pressure jet rodder.		

Bidder: _____
Company

Signature: _____ Title: _____
Name

Date: _____

BID, OFFER OR PROPOSAL FOR SALE OR LEASE OF MATERIALS

Bid Form 3 of 3

(Defined at I.C. 36-1-2-9.5)
(Please type or print)

- Date: _____
1. Governmental Unit: CITY OF WEST LAFAYETTE
 2. County: TIPPECANOE
 3. Bidder (Firm): _____
 Address: _____
 City/State: _____
 4. Telephone Number: _____
 5. Agent of Bidder (if applicable): _____

Pursuant to notices given, the undersigned offers bid(s) to City of West Lafayette (Governmental Unit) in accordance with the following attachment(s) which specify the class or item number or description, quantity, unit, unit price and total amount.

The contract will be awarded by classes or items, in accordance with specifications. Any changes or alterations in the items specified will render such bid void as to that class or item. Bidder promises that he has not offered nor received a less price than the price stated in his bid for the materials included in said bid. Bidder further agrees that he will not withdraw his bid from the office in which it is filed. A certified check or bond shall be filed with each bid if required, and liability for breach shall be enforceable upon the contract, the bond or certified check or both as the case may be.

Signature of Bidder or Agent

BID OFFER OR PROPOSAL

Attach separate sheet listing each item bid based on specifications published by governing body. Following is an example of the bid format: **REFER TO BID PRICE SHEET**

Class or Item	Quantity	Unit	Description	Unit Price	Amount

NON-COLLUSION AFFIDAVIT

STATE OF INDIANA)
) ss:
 COUNTY)

The undersigned bidder or agent, being duly sworn on oath, says that he has not, nor has any other member, representative, or agent of the firm, company, corporation or partnership represented by him, entered into any combination, collusion or agreement with any person relative to the price to be bid by anyone at such letting nor to prevent any person from bidding nor to induce anyone to refrain from bidding, and that this bid is made without reference to any other bid and without any agreement, understanding or combination with any other person in reference to such bidding.

He further says that no person or persons, firms, or corporation has, have or will receive directly or indirectly, any rebate, fee, gift, commission or thing of value on account of such sale.

Bidder (Firm)

Signature of Bidder or Agent

Subscribed and sworn to before me this _____ day of _____, 19____.

My commission Expires: _____

County of Residence: _____

Notary Public

ACCEPTANCE

There now being sufficient unobligated appropriated funds available, the contracting authority of _____ (Governmental Unit) hereby accepts the terms of the attached bid for classes or items numbered _____ and promises to pay the undersigned bidder upon delivery the price quoted for the materials stipulated in said bid.

Contracting Authority Members: _____

Date: _____

NOTICE TO BIDDERS

Combination Sewer Cleaner Truck

Notice is hereby given that the Board of Public Works and Safety of the City of West Lafayette, Indiana will receive sealed bids until the hour of 8:30 a.m. (local time) on September 18, 2012, at the Office of the Clerk-Treasurer, City Hall, 609 W. Navajo St., West Lafayette, IN 47906 for one 2013 combination sewer cleaner truck, as per specifications. After said time, all bids will be taken to the City Hall Council Chambers and there will be publicly opened and read aloud. Bids received after said time will be returned unopened. No oral, telegraph, facsimile, or telephone bids or changes to bids will be considered.

Specifications and bid forms are available on the City website at www.westlafayette.in.gov, at the Street Dept., 705 S. River Rd., West Lafayette, phone 775-5242, or at the Office of the Clerk-Treasurer.

Each bidder will submit his bid upon forms provided in the bid packet and enclosed in a sealed envelope marked, "Combination Sewer Cleaner Truck."

The bid must be accompanied by a bidders bond or certified check of not less than 5% of the total bid made in favor of the City of West Lafayette, Indiana

The Board of Public Works and Safety expressly reserves the right to reject any or all bids and waive irregularities of bidding.

BOARD OF PUBLIC WORKS AND SAFETY
JUDITH C. RHODES
CLERK-TREASURER

PUBLISH: August 31, 2012, and September 7, 2012