BUILD SPECIFICATIONS
VacHunter Combo 121034 PH6C

TRUCK MOUNTED VACHUNTER 12YD COMBINATION VACUUM/JETTER

INTENT:
This specification describes a truck mounted 12 cubic yard debris tank and single 1000 gallon stainless steel water tank with a front mounted high-pressure water sewer jetter with a 3300 CFM 6" vacuum system mounted on a new unused 60000 GVW chassis. All components of the jetter-vacuum system shall be powered by the chassis engine.

GENERAL TERMS:
All equipment furnished under this contract shall be new and current production. Accessories not specifically mentioned herein, but necessary to furnish complete unit ready for use, shall also be included. Unit shall conform to the best practice known to the body trade in design, quality of material and workmanship. Assemblies, sub-assemblies and component parts shall be standard and interchangeable throughout the entire quantity of units as specified in this invitation to bid. The equipment furnished shall be manufactured in the USA.

PARTS MANUAL:
Bidder shall furnish complete digital parts, maintenance, and operator's manual with each body sold.

ITEM	REQUIREMENTS
DEBRIS TANK:	Debris tank to be minimum capacity 12 cubic yard cylinder style steel tank. Construction of tank to be 3/16" std F & D A-36 carbon steel. Double acting single stage cylinder lift (dumping) system. 10' – 3" Drain hose located at the rear for decanting water from main debris tank. Storage for drain hose must be supplied. The debris tank shall be equipped with a body washout system. The system shall include an on/off valve and wash out head. The wash out head shall be located forward in the debris tank. The wash out system shall operate @ 3000 PSI 6" Drain with butterfly valve off rear door. The full opening rear door shall be hydraulically opening and locking with one control lever located curb side of unit. Three independent over center hydraulic locks shall be installed on rear door the locks shall work in sequence and be external adjusting screw type.

ITEM	REQUIREMENTS
	One stainless steel high float level shut off shall be located in debris tank. Top access port for float ball inspection. For safety and maintenance an Inlet clean out box with removable port to be located on debris tank inlet. The debris tank hydraulic controls for dumping, raising the tank and door open/closing/locking shall be located curb side of module. The debris tank will be equipped with a ladder for safety. The debris tank will be equipped with a debris level indicator.
VACUUM SYSTEM:	Positive displacement dual lobe vacuum blower rated for 3300 CFM minimum airflow. With Single final filter. Filter to be removable and reusable. Dual cyclone separators shall be included to protect the blower The Vacuum blower shall be belt driven powered off the chassis pto. The blower shall be mounted above frame for ease of access. The blower shall be electronically operated on/ off at any engine RPM without damage to blower system. Controls to be located at front hose reel control panel. An adjustable air flow relief valve shall be provided to limit blower stress. Electronic vacuum breaker system to be provided to induce air into system as needed. Controls to be located at front hose reel control panel.
WATER SYSTEM:	The pump shall be Triplex positive displacement, heavy duty, single acting, and triple plunger type. It shall be rated to operate at 40 GPM @ 3000 PSI The water pump shall be mounted below frame direct drive off the chassis pto. Electronically operated on/ off Controls for water system to be located at front hose reel control panel. The water pump to carry a (2) year manufactures' warranty The valves shall be stacked, pressed in valves will not be accepted.

ITEM	REQUIREMENTS
	A manual wash down system shall be included and shall consist of 25' of ½" hose and an 800 psi spray gun. Spray gun shall include a "dead man" trigger.
WATER TANK:	Single 1000 gallon stainless steel water tank the tank shall be designed in front of the debris tank as an extension to the debris tank. Sight gauge shall be located on tank. A 2 ½" overhead- tank filling assembly shall be located on the curbside side. A positive air gap anti- siphon system shall be incorporated to protect the potable water supply. Hydrant fill strainer and (1) 25' X 2 ½" filler hoses with fittings and carrying rack will be included.
HYDRAULIC SYSTEM:	All hydraulics to operate the vacuum – jetter module to be powered off dual hydraulic pumps 8 gpm and 5 gpm the pumps shall be mounted to chassis front pto. The system shall be rated at 2000 psi system with a minimum 18 gallon hydraulic oil tank. 10 micron filter system shall be mounted at hydraulic tank.
FRONT MOUNTED HOSE REEL:	Front frame mounted hydraulic hose reel to be equipped with 800 ft capacity ¾" jet hose. Hose reel to be constructed of minimum 3/8" steel. Hose reels constructed of ¼ " steel reel using flanges for support are not acceptable. Hose reel to hydraulically articulate 180 degrees on a heavy duty industrial worm gear. Hose Reel to be driven hydraulically dual chain drive in both directions. Hose reel to be equipped with single roller hinged hose guide levelwind. The front mounted hose reel to include control panel. The control panel shall be mounted on the right side of hose reel. The control panel shall articulate with the hose reel. **THE HOSE REEL PANEL SHALL INCLUDE THE FOLLOWING:**

ITEM	REQUIREMENTS
	Hose reel speed control valve.
	Electronic throttle.
	Boom controls and boom joystick.
	Hose reel in/out and articulation control.
	External mounted water on/off control valve.
	Emergency kill switch with safety lanyard.
	Water pressure gauge.
	Vacuum blower on/off control.
	Water pump on/off control.
	Chassis tachometer.
BOOM:	The boom shall be steel construction with 6” Industrial hose with 8’ reach
	The boom shall hydraulically articulate on industrial worm gear minimum 270 degrees.
	The boom shall lift 3’ from the fully down position. The Boom shall lift via single hydraulic cylinder.
	The boom hose shall be 6” in diameter and incorporate 6” aluminum hat flange fittings.
	The electronic boom controls shall be located on the control panel and on remote wired pendant. Manual override hydraulic controls shall be located curbside of module.
VACUUM ACCESSORIES:	
	All accessory piping shall be constructed of aluminum. Hat flange with clamps for all piping
	One (1) 3’ x 6” tube with crown nozzle.
	Two (2) 4’ x 6”section.
	Three (3) 5’ x 6”section.
	All accessory & piping shall have storage area.
TOOL STORAGE:	Two (2) Tool Tray Each Side Water/Debris Tank .

ITEM	REQUIREMENTS
	The box shall be constructed of diamond tread plate aluminum.
	The toolbox shall be locking and water tight.
LIGHTING:	D.O.T. lighting.
	Taillight & direction lights.
	One (1) LED Strobe light mounted with limb guard. Control switch in cab.
ACCESSORIES:	One (1) Tiger tail hose protector.
	One (1) ¾” 6” Skid nozzle extension.
	One (1) 15 degree Penetrator nozzle.
	One (1) 30 degree sanitary nozzle.
	A nozzle rack for nozzle storage shall be mounted inside the toolbox.
	10ft Steel Braided ¾” jet leader hose.
	600ft 3000 PSI ¾” Sewer jet hose.
	Remote pendant wired 30’ cord water tight housing boom controls emergency kill and vacuum breaker
FRAME MODULE ONLY:	Sub frame to be mounted to chassis rails with sheer plates the frame shall be constructed diamond tread plate steel.
	Before painting, all metal shall be cleaned and etched with phosphoric material to insure permanent bond of Liner and paint.
	The entire frame and hose reel shall be sprayed with speed liner coat the liner coat shall be black in color the liner shall be rough texture to prevent chipping and rust. Minimum 5-8