BUILD SPECIFICATIONS
VacHunter 56315 PH8HX

TRUCK MOUNTED VACHUNTER 5YD HYDRO X TM

INTENT:
This specification describes a truck mounted 5 cubic yard debris tank and dual 300 gallon aluminum water tanks or single tank design. High pressure 15 GM @ 3000 Psi with a front mounted boom with a 3600 CFM 8" vacuum system mounted on a new unused 42000 GVW chassis. All components of the Hydro X system -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 5 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 3600 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 curb side 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 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 15 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 retractable reel with high water pressure hydro-excavation system 15 GPM @ 3000 PSI shall be included and shall consist of 50’ of 1/2" or 3/8" hose and 3000 psi Hydro X gun. Spinner nozzle and 0 degree tip to be included, One 5' barrel stainless steal construction
WATER TANKS:	
	Dual inter-connected 300 gallon round cylinder style aluminum constructed water tanks for 600 gallon total storage. Sight gauges shall be located on rear of each tank. The dual water tanks must be mounted on each side of the debris tank for proper weight distribution. The dual water tanks shall be vented and drained via 2” min gate valve. 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 – module to be powered by hydraulic pump 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.

ITEM	REQUIREMENTS
	The control panel shall be mounted on the curbside side of the truck.
	THE PANEL SHALL INCLUDE THE FOLLOWING:
	Electronic throttle.
	Boom controls and boom joystick.
	Water on/off control valve.
	Plug In for remote pendant
	Water pressure gauge.
	Vacuum blower on/off control.
	Water pump on/off control.
	Chassis tachometer.
BOOM:	The boom shall be steel construction with 8” 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 8” in diameter and incorporate 8” 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 8" tube with crown nozzle.
	Two (2) 4’ x 8”section.
	Three (3) 5’ x 8”section.

ITEM	REQUIREMENTS
	All accessory & piping shall have storage area.
TOOL STORAGE:	One (1) Storage 18” x 18” x 36”tool box shall be located below frame.
	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:	
	Remote pendant wired 30’ cord
	water tight housing boom controls
	emergency kill and vacuum breaker

	Sub frame to be mounted to chassis rails with sheer plates the frame shall be constructed diamond tread plate steel.
FRAME MODULE ONLY:	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