Debris Body: The debris body is to be constructed of 3/16 in. corrosion and abrasion resistant steel with a minimum yield point of 50,000 PSI and a minimum tensile strength of 70,000 PSI. It is to be round for maximum strength and equipped with a full-size rear door, hinged at the top and equipped with a neoprene seal to prevent leakage. It is to have a dump angle of 50 degrees achieved by a dual-action hydraulic cylinder. It must be equipped with two air outlets, with a minimum of 10 in. diameters to minimize material discharge. The dump controls are to be located at curb side for operator safety and behind the cab to minimize exposure to the debris load when dumping. It is to be equipped with an indicator to monitor the debris load level.

Water Tanks: The water tanks must have a metered and certified capacity per the specification. They are to be constructed of aluminum for corrosion resistance and warranted for 10 years against corrosion and cracking. They are to be fully baffled for strength and stability, mounted at or below the frame rail of the truck chassis and dimensioned for the best weight distribution and lowest center of gravity; under no circumstances, because of safety considerations, can they extend above the mid-line height of the debris body. They are to be vented, equipped with an anti-siphon device and interconnected with minimum 4 in. lines between tanks for complete and quick filling. A "Y" pattern stainless strainer is to be provided at the fill point. A sight gauge is to be provided as well as 25 ft. of hydrant fill hose and fittings.

Vacuum System:

The vacuum source and drive will be achieved by one of the following configurations:

Centrifugal Compressor: The fan is to be 38 in. in diameter and constructed of aluminum with hardened, chrome plated, 1/4 in. cast aluminum radial blades. The outer housing is to be manufactured of minimum 1/4 in. spun steel and equipped with a drain no greater than 2 in. in diameter; larger drains will be deemed to compromise the integrity of the housing. The compressor is to be capable of air flows from 0 to 8000 CFM and any claims of negative water pressure must be proven using a water manometer; this test is to be performed at the manufacturer's recommended operating RPM, using steel plates with orifices sized from 7 in. to 4 in. in diameter placed over the end of a vacuum tube to which a manometer tube can be attached. The compressor and housing are to carry a 5 year unlimited warranty against material and construction failure.

Positive Displacement Blower: The vacuum is to be created by a positive displacement, rotary lobe blower, capable of a minimum 3600 CFM inlet volume set at 15 in. Hg maximum vacuum at 2080 RPM. For added protection to the vacuum system, two relief valves will be incorporated, set at 15 in. Hg vacuum. The blower will additionally be protected by a dual stainless steel ball float shut-off system, the dual air ducting prescribed in the debris body and a final filter screen. The blower is to be driven from the chassis engine via the transmission drive shaft and a heavy duty, split shaft transfer case direct to the blower with no v-belts or belt drives of any description to maintain or adjust. Additionally, when engaged, there will be a fail-safe system that will assure that the truck can not jump into gear. The blower will be provided with a horizontal silencer with the exhaust above the cab and a rain cap to protect the silencer.

Boom & Vacuum Hose: A front mounted boom is preferred because of safety and operation considerations. The standard configuration will consist of an anchored steel tube for additional life. All lift and swing movements will be hydraulically driven via an electric over hydraulic system. It is to be controlled by a remote pendant for all movements and include an emergency shutdown button. A cab protection device is to be provided. It will not raise with the debris body and will have self-adjusting, pressure fitting connections between the debris body and boom. All inner dimensions of the boom and hose fittings must be a minimum of 8 in. The boom will rotate a minimum of 180 degrees and provide 179 in. of reach off the center line of the unit.
Optional booms may be considered as follows:

Extendable Boom: The boom hose will be extended outward by a hydraulically driven cylinder, affording extra reach and work area coverage. It may be specified to afford either 4 ft. or 8 ft. of additional reach.

Telescopic Boom: The boom will be equipped with a fixed steel elbow and equipped with an anchored steel tube for the outer sleeve and an inner 8 in. suction tube constructed of the same steel. It may be specified to afford 8 ft. telescopic action ensuring 275 in. of reach off the center line of the truck.

**High Pressure Water Pump:** The Vactor pump is specifically designed for line cleaning and offers true jack hammer action to clear obstructions. It is a double action, single piston pump that is hydraulically driven to provide specific pressures and flows. Rated at 100 GPM and 2,500 PSI, the pump is to operate with an oil to water ratio of 1:1. An oil to water heat exchanger is to cool the hydraulic fluids. It is to be driven by the chassis engine via a heavy duty, power take off and run independently from the vacuum source, allowing full water delivery at full vacuum. The pump cycle will provide the powerful jack hammer action to clear obstructions and to provide additional thrust climbing steep grades. The pump location ensures a flooded suction inlet to minimize damaging cavitation. Because of its low stroking speeds, the pump is capable of running dry for long periods of time without damage, unlike high RPM pumps of other designs. It is to be fully controlled from the operator’s station and capable of being engaged or disengaged without fear of damage.

Available in flow ranges from 60 GPM to 100 GPM and operating pressures at 2000 PSI or 2500 PSI, the pump can also be equipped to provide flows as low as 35 GPM for water conservation, fragile lines, or on-going preventive maintenance programs that do not require high flows in frequently cleaned lines.

**Front Mounted Hose & Hose Reel:** A hose reel assembly will be mounted on an independent frame attached to the main truck frame members. The reel is to be made of 1/4 in. spun steel for strength, requiring no internal or external braces. In the standard model, the reel will be equipped with hydraulic tilt via a hydraulic cylinder, not a manual jack. The reel is to have a standard capacity of 600 ft. and will come equipped with 400 ft. of plastic hose as standard, though optional lengths may be specified. It will have a speed control for both forward and reverse operation and be equipped with a 1 in. rotating, adjustable swivel joint with replaceable seals. All operating controls will be located on the hose reel.

Optional offerings are:

Telescoping & Pivoting Reel: The reel assembly will be mounted on hydraulically telescoping and retracting frame that will extend a minimum of 15 in. on a straight line from the bumper of the truck. Additionally, it will be seated on a heavy duty bronze bushing that has a large diameter bearing that will allow 270 degrees of pivoting action in 2 degree increments. For operator safety and ease of operation the reel will be equipped with controls on both sides of the reel.

Downsized Telescoping & Pivoting Reel: Configured in the same way as the full-sized reel, the downsized reel will not exceed a mounted height of 67 in. with minimum ground clearance of 14 in. It is to have a maximum width and depth of no more than 37 in. and a maximum height of no more than 42 in. It is to be equipped with full, symmetrically identical dual controls. It is to be hydraulically driven using a planetary gear reducer with a reduction ratio of 20:1. All wires and hoses are to be fully shrouded for safety. Because of its dimensions, it will be equipped with 400 ft. of Vactor® Shark rubber hose with a significantly reduced bend radius as standard.

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Your Vactor Dealer is: