# BUILD SPECIFICATIONS
## *600 GALLON COMBINATION SEWER CLEANER TRAILER*

**INTENT:**
This specification describes a 600-gallon 1100 CFM Vacuum system on 16000 lb. tandem axle trailer. The machine is equipped with a self contained, non-corrosive, (2) 150 Gallon cylinder style aluminum water tanks as the water source for the high-pressure pump. The machine is capable of being operated by one man, with all operating controls for high-pressure water system and vacuum system mounted on a control panels, at operator's stations.

**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 and shall conform to the best practice known to the body trade in design, quality of material and workmanship. The equipment furnished shall be manufactured in the USA.

**PARTS MANUAL:**
Complete parts, maintenance, and operator's manual with each body sold.

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| **TANK:** | 600-gallon capacity. 15 psig working pressure, full vacuum straight cylinder. |
| | Hydraulic dumping system 30 Degree angle. |
| | Debris tank to be lowered and raised hydraulically and controls to be located curbside of unit. |
| | 4" Inlet pipe to debris tank. |
| | 10' x3" Drain hose located on the rear of debris tank for decanting water from main debris tank when required. |
| **FRONT DOME:** | 48" OD x ¼" std F & D A-36 carbon steel. |
| **REAR DOOR:** | The full opening rear door shall be external hydraulically opening and locking with one control lever at curb side of unit. |
| **MANWAY:** | One float level vacuum shut off. Vacuum breaker to be supplied |
| **RELIEF VALVE:** | An adjustable relief valve shall be provided to limit vacuum. |
| **PUMP:** | Positive Displacement Vacuum Pump. Rated for 1100 CFM minimum |
| **SILENCER:** | airflow. The vacuum system shall have a dual cyclone separator |
| | Final filter to be supplied for blower the filter shall be single design removable. |
| **WATER SYSTEM:** | Water pump capable of producing a flow of 25 GPM@ 4000 PSI and carry a two (2) year warranty. |

Two (2) Water tanks shall be installed on unit and have a capacity of 150 gallons each for a total capacity of 300 gallons. The water tanks shall be cylinder design and constructed of aluminum and be mounted over the axles for proper weight distribution.

2” ball valve drain valve shall be supplied for draining the fresh water tanks.

Pressure gauge at operator station.

25ft Handgun hose with hand gun Low Pressure

**LIGHTS**

Minimum 115 H.P. Tier 4 Diesel Engine. Water cooled.

**ENGINE:**

Aux engine to power water pump and vacuum blower

Two (2) Year warranty.

Electric throttle with gauge package..

Keyed Ignition.

15-Gallon fuel tank with sight gauge.

Aluminum cover for engine

**TRAILER:**

6” X 3/16” custom industrial C channel. 12000 LB Bull Dog drop leg stand.

Four (4) 7.50x16 LT 8-Ply tires. Dual 8000 Torsion Axles

Electric Brakes. Military hitch DOT Lighting

**FENDERS:**

The fenders shall be constructed of tread plate steel installed and designed for supporting the weight of a least 200 lbs.

Bolt on assembly- welded on fenders are not acceptable.

**REAR MOUNTED HOSE REEL ARTICULATING:**

Rear door mounted hydraulic hose reel to be equipped with 800 ft capacity 1/2” Hose. Or 800 3/4"

Hose reel to be constructed of minimum 3/8” steel. Hose reels constructed of ¼” steel using flanges for support are not acceptable.

**CONTROL PANEL:**

Unit shall be equipped with a single control panel Next to hose reel.

Hose reel speed control needle valve.

Electronic throttle with digital gauge package.

Emergency kill switch with safety lanyard.

Water pressure gauge.

Pendant with 30' cord boom control Vacuum

breaker

Keyed ignition.

Hand gun quick connect.

**PAINTING:** Each component shall be painted/lined separately prior to assembly.

The entire unit shall be painted/lined.

**ACCESSORIES:** Tiger tail hose protector.

One (1) 6” Skid nozzle extension.

One (1) 15 degree Penetrator nozzle.

One (1) 30 degree sanitary nozzle.

10ft Steel Braided leader hose.

600 FT Sewer Hose

10’x4” flexible vacuum boom hose with connectors.

All accessory piping shall be constructed of aluminum.

Two (1) 3’ x 4” sections tubes one to have crown nozzle.

One (1) 4’ x 4”section.

All accessory piping shall be mounted on a 4 pipe storage rack storage rack to be mounted curb side above water tank.

The powered boom shall be steel construction with polyethylene rollers and attached to the top of the debris tank.

The boom shall be 8ft from the center of the boom inlet.

**Tool Box:** A storage toolbox shall be located on the front of the trailer.

The box shall be constructed of diamond tread plate aluminum. The toolbox shall be locking and water tight.