



# BID SPEC

**BroomBadger**

**For**

HAAKER STOCK

2070 N WHITE AVE

LA VERNE

CA

91750

US





# Detailed Specifications

For  
BroomBadger

		COMPLY	
		YES	NO
<b>0.0</b>	<b>Section B - Sweeper Module</b>		
<b>2.0</b>	<b>EQUIVALENT PRODUCT</b>		
2.01	Bids will be accepted for consideration on any make or model that is equal or superior to the sweeper specified. Decisions of equivalency will be at the sole interpretation of the Department of Public Works. A blanket statement that equipment proposed will meet all requirements will not be sufficient to establish equivalence. Original manufacturer's brochures of the proposed unit are to be submitted with the proposal.		
<b>5.0</b>	<b>SWEEPER FRAME</b>		
5.01	The sweeper body shall be mounted on its own sub-frame and fastened to the chassis		
5.02	All sweeper hydraulic and water hoses shall be routed and connected to sweeper sub-frame. No routing on vehicle truck chassis frame is permitted.		
<b>6.0</b>	<b>SWEEPER ENGINE</b>		
6.01	Engine shall be equipped with a full flow oil filter and fuel filter.		
6.02	Engine shall be protected by a 50/50 mixture anti-freeze/water for cold weather storage and or operation.		
6.03	Engine and front of the engine radiator shall be accessible without the use of any tools.		
6.04	The sweeper engine shall have a shared 30 gallon fuel tank.		
6.05	The auxiliary engine speed shall be controlled by sweeper control panel.		
<b>7.0</b>	<b>SIDE BROOMS</b>		
7.01	Minimum diameter of side brooms shall be 46-inch.		





7.02	Brooms shall be raised and lowered hydraulically by the operator from inside the cab while moving.		
7.03	Each broom shall have a spotlight for night operation.		
7.04	Sweeper to have ability to sweep a width of 120-inches with both side brooms down.		
7.05	Sweeper shall be equipped with a center deflector to windrow material transferred by the side brooms.		
7.06	The side broom motors shall be able to apply adequate digging torque to the broom discs without stalling.		
7.07	Both side brooms must retract allowing the overall vehicle width to be 102 or less to comply with Federal size regulations for commercial motor vehicles.		
<b>8.0</b>	<b>MAIN BROOM</b>		
8.01	The main broom shall be not less than 58 inches long and not less than 36 inches in diameter.		
8.02	Broom shall be driven by a hydraulic motor directly mounted to the broom core. The motor shall be protected from overpressure by the use of a relief valve.		
8.03	Suspension and pressure control shall be adjustable and be able to provide a range of a set patterns throughout the broom life.		
8.04	Main broom shall be prefabricated polypropylene disposable style.		
8.05	Main broom shall be shielded by a hinged plastic hood.		
8.06	Main broom shall have a work light.		
8.07	Broom hood shall hinge up without the use of tools to facilitate easier broom replacement.		
8.08	Main broom shall be hydraulically raised or lowered by in-cab control.		
8.09	The main broom motor shall be able to apply adequate digging pressure to the broom without stalling.		
<b>9.0</b>	<b>SQUEEGEE ELEVATOR</b>		
9.01	Elevator shall be able to load hopper to 100% of rated useable capacity.		
9.02	The elevator system will be driven hydraulically and protected for overpressure by relief valve. The unit shall include an audio and visual elevator stall alarm.		
9.03	""The elevator shall be no less than 58"" wide.""		





9.04	For ease of maintenance and cleaning the elevator back plate shall hinge open without the use of tools.		
9.05	To reduce the cost of ownership and maintenance the elevator shall only incorporate two shafts.		
<b>10.0</b>	<b>HOPPER</b>		
10.01	Hydraulically controlled hopper door shall automatically open when the container is tilted. Door shall be a minimum 36-inch length to center the debris while dumping.		
10.02	Hopper volumetric capacity shall be not less than 4.0 cubic yards. Useable capacity not less than 3.1 yards. A hopper inspection door shall be supplied.		
10.03	Scissor type lift with greaseless pins with single telescoping cylinder.		
10.04	Sweeper shall not require jack stands and/or outriggers to stabilize chassis during dumping cycle. Units requiring this stabilization are not acceptable.		
10.05	Sweeper shall be equipped with level sensor to restrict hopper from being raised when sitting on unlevel ground.		
10.06	An icon is illuminated on the sweeper controls when hopper is raised.		
<b>11.0</b>	<b>SPRAY WATER SYSTEM</b>		
11.01	Tank capacity shall be not less than 220 U.S. gallons (833 L).		
11.02	Tank shall be constructed of polyethylene.		
11.03	Three (3) spray nozzles at each side broom and four (4) spray nozzles on rear broom spray bar and five (5) nozzles under front bumper shall be provided.		
11.04	The main broom spray bar shall be removable to permit cleaning of the spray jets.		
11.05	Spray water pump shall be a diaphragm type to provide adequate flow and pressure to properly atomize water for efficient dust control.		
<b>12.0</b>	<b>HYDRAULIC SYSTEM</b>		
12.01	Maximum 30-gallon hydraulic reservoir with sight gauge indicating oil level and temperature.		
12.02	The system shall contain one 10-micron return filter.		
12.03	The hydraulic pump shall be a gear pump system that can deliver 31 GPM at 2400 aux engine RPM.		





12.04	Auxiliary engine must power all sweeper hydraulic functions.		
12.05	For simplicity and safety all sweeper functions shall be controlled hydraulically. Sweepers incorporating pneumatics supplied from the truck air tanks/brakes are not acceptable. NO EXCEPTIONS		
12.06	Hydraulic system shall incorporate an externally mounted oil cooler with a thermostatically controlled electric fan.		
<b>13.0</b>	<b>CONTROLS</b>		
13.01	All sweeper controls shall be mounted on a central console located to the right of the operators position.		
13.02	All switches to be tactile rocker type.		
13.03	Clearly labeled switches and indicators shall be provided.		
13.04	""Sweeping mode engaged by single ""ergo"" Sweep / Transport / Dump switch. ""		
13.05	Individual switches for left and right broom tilt (In/Out)		
13.06	Individual switches for left and right broom (On/Off)		
13.07	Individual switch for main broom and conveyor (Forward/Reverse)		
13.08	Individual switch for dust control (On/Off)		
13.09	Dust control water shall have low level indicator when approximately 25 gallons remain.		
13.10	Hopper raise / lower and tilt to be controlled from the cab and have a cycle time maximum of 70 seconds when aux engine set to 2400 RPM.		
13.11	Individual switch for auxiliary engine throttle (Increase/Decrease).		
13.12	A back up alarm of not less than 107 dB(A) shall be provided and sound when reverse gear is selected.		
13.13	A 7 LCD monitor shall be provided in-cab to permit viewing. The rear view must automatically be shown when the transmission is placed in reverse gear.		
<b>14.0</b>	<b>MAINTENANCE</b>		
14.01	Test ports shall be provided for each system.		
14.02	All electrical wiring shall be contained within flame retardant conduit.		
14.03	All wires shall be color & numbered coded for ease of troubleshooting.		
14.04	To reduce maintenance the sweeper shall have no more than 6 grease points. (4-elevator; 2-main broom).		





14.05	To reduce maintenance the sweeper shall have no more than 8 grease points. (4-elevator; 2-main broom; 1-each side broom).		
<b>15.0</b>	<b>PAINT</b>		
15.01	The chassis running gear shall be painted black acrylic enamel.		
15.02	All visible exterior metallic surfaces shall be powder coated prior to assembly.		
15.03	Color shall be the standard color of White.		
<b>16.0</b>	<b>MANUALS</b>		
16.01	An operation and service manual shall be provided.		
<b>16.0</b>	<b>WARRANTY</b>		
16.01	Bidders submitting literature stating warranties which do not fully comply with warranty requirements of this specification must submit a letter from the manufacturer certifying warranty compliance as an integral part of their proposal. Failure to comply may cause the proposal to be deemed non-responsive and rejected without further review.		
16.02	Third Year Warranty Parts/Labor Module Only (Excluding Auxiliary Engine) shall be provided.		
<b>17.0</b>	<b>SERVICE AND TRAINING</b>		
17.01	Vendors shall have a full parts and service facility within a reasonable distance from the Garage. State location and distance. _____		
<b>18.0</b>	<b>DELIVERY</b>		
18.01	Acceptance shall be subject to the inspection and approval of the .		
18.02	Bidder shall state delivery time after receipt of order:		

