

**TECHNICAL SPECIFICATIONS
FOR A NEW
SINGLE-ENGINE HYDROSTATIC PURE VACUUM SWEEPER**

1.0 Chassis

Comply
Yes No

- | | | |
|--|-------|-------|
| 1.1 No Commercial Driver License shall be required to operate the street sweeper. | _____ | _____ |
| 1.2 For durability and maneuverability the chassis shall be purpose built out of Corten Steel with a thickness of 0.16 inch. A commercial cab chassis will not be acceptable. | _____ | _____ |
| 1.3 The wheel base shall not exceed 71.5 inches. Overall length shall not exceed 178.1 inches. Height with catch basin hose shall not exceed 120 inches. Height without catch basin hose, not exceed 107 inches. | _____ | _____ |
| 1.4 Gross Vehicle Weight Rating shall be no less than 25,000 lbs. | _____ | _____ |
| 1.5 Vehicle should be rated with a loading capacity of no less than 12,000 lbs. | _____ | _____ |
| 1.6 Turning radius shall not exceed 199 inches curb to curb. | _____ | _____ |
| 1.7 Vehicle shall have no more than 17 grease fittings. | _____ | _____ |
| 1.8 Front Suspension shall be of independent hydro-pneumatic suspension. Rear suspension shall be means of rubber diabolic blocks. | _____ | _____ |
| 1.9 Hydraulically operated brakes shall be mounted on front and rear wheels. Automatic parking brake when drive direction is switched to neutral. | _____ | _____ |

2.0 Chassis Engine

- | | | |
|---|-------|-------|
| 2.1 Vehicle shall have a single engine Tier IV turbo charged Cummins diesel engine to maximize low fuel consumption | _____ | _____ |
| 2.2 Engine shall be at least 135 HP but no more than 161 HP with a maximum torque of 560 (lb/ft) at 1400 rpm | _____ | _____ |
| 2.3 Oil cooler shall be mounted on roof of vehicle. | _____ | _____ |

3.0 Transmission

3.1 Transmission shall be hydrostatic with infinitely variable speed available from dead stop to maximum speed. _____

3.2 Traction shall be received via a hydraulic pump powering two separate wheel engines with planetary hub gear. _____

4.0 Wheels and Tires

4.1 Front tires shall be first line quality radial tires 215/75 R17.5 . Rear tires shall be dual 205/65 R17.5. _____

5.0 Cab

5.1 Frame shall be completely made of Corten Steel for durability. _____

5.2 Cab shall be for two persons, all weather sound insulated. _____

5.3 Cab shall be ergonomically designed with 180 degree panoramic safety glass windscreen tilted against sun reflection. _____

5.4 Cab shall be equipped with air ride seat for driver comfort. _____

5.5 Vehicle shall be equipped with heating and air conditioning ventilation system mounted inside the cab. _____

5.6 Cab doors shall have safety glass floor to ceiling for optimum visibility for safety. _____

5.7 Vehicle shall have 3 cameras and one video screen. Cameras shall display rear of vehicle for safety in reverse, a view of suction nozzle underneath cab and passenger side exterior. _____

5.8 Cab shall have floor window for direct view of suction nozzle. _____

5.9 Cab shall be equipped with AM/FM/CD Radio/MP3 Player. _____

5.10 Vehicle shall have a Joystick mounted to control side to side movement of brush system and suction nozzle as well as lifting of suction nozzle and brush system. _____

5.11 Switch to control opening and closing of suction nozzle on vacuum nozzle. _____

5.12 Cab shall have hard wired remote control for opening of rear door and dumping debris _____

5.13 Fire Extinguisher (2.5Lb) _____

5.14 Three stage switch to put the machine in drive mode, dump mode, sweep mode. _____

5.15 Cab shall have automatic broom shut off if operator leaves the seat to exit the vehicle. _____

5.16 Access door inside the cab for access to suction tube. _____

5.17 Shall have switch to control the on/off of each gutter broom independently _____

5.18 Shall have a LED Display for all functions of sweeper _____

5.19 Electric, Heated Mirrors

6.0 Electrical

6.1 Vehicle shall be equipped with a 24 volt system with two 12 volt heavy duty batteries. _____

6.2 Fuse panel and relays all located with easy accessibility behind glove box and passenger seat. _____

7.0 Lighting

7.1 Vehicle shall have rotating beacon light on front and rear top of vehicle. _____

7.2 Gutters brooms shall have work lights illuminating them. _____

7.3 Front and rear directional lights with emergency flashers shall be provided. _____

7.4 Headlights shall have city and normal capability.

10.5 Backdoor of hopper shall be made of Corten 304 Steel.

10.6 Grid shall be mounted on ceiling of hopper

10.7 Inspection Door Retainer

10.8 Heavy Duty Package: (Borium) Fan, Coated Suction Tubes

11.0 Water System

11.1 Water tank shall be a minimum of 140 gallon and made of Corten 304 Steel.

11.2 Coupling shall be provided for water tank filling off hydrant.

11.3 Onboard Pressure Washer with gun, hose and reel

12.0 Hydraulics

12.1 Hydraulic solenoids shall be centrally located for protection and easy access.

13.0 Manuals

13.1 A sweeper operating manual shall be provided.

13.2 A sweeper parts manual shall be provided

13.3 A sweeper technical manual will be provided.

14.0 Service and Training

14.1 Vendor shall provide 2 days of extensive training to all operators of the street sweeper
