



## **INVITATION TO BIDDERS**

The City of Gatlinburg is accepting sealed bids on the purchase of one (1) Street Sweeper. The specifications are located within the bid packet, but we will consider other brands/models that meet required specifications

Bids will be received at City Hall until **2:30 p.m., December 10, 2015** at which time they will be publicly opened and read aloud. No bid may be withdrawn for thirty (30) days.

Bid shall be sealed in an envelope with the bidder's name, address, the bid opening time and date and the quotation "Street Sweeper" stated plainly on the outside.

For questions concerning the Bid Documents, Bidders may contact City of Gatlinburg, Delea Patterson, AP/Purchasing, 1230 Parkway East, Suite 2, P.O. Box 5, Gatlinburg, Tennessee 37738 at 865-436-1409 or Fax 865-436-6464 or [deleap@gatlinburgtn.gov](mailto:deleap@gatlinburgtn.gov). Questions about the specifications need to be directed to Gatlinburg Service Department, Steve Ogle, at 865-436-6210.

Bid specifications will also be available on the City of Gatlinburg website at [www.gatlinburgtn.gov](http://www.gatlinburgtn.gov) under "Out for Bids" tab. This bid tab is located under Gatlinburg Government, and then Purchasing. Bid results are posted in the same area as shortly after bid opening as possible.

The City reserves the right to qualify bidders, to waive any informalities, to reject any and/or all bids, and to accept the bid deemed most favorable and in the best interest of the City.

It is the policy of the City of Gatlinburg not to discriminate on the basis of race, color, national origin, age, sex, or disability in its hiring and employment practices, or in admission to, access to, or operation of its programs, services and activities. With regard to all aspects of this contract, contractor certifies and warrants it will comply with this policy.

## GENERAL PROVISIONS

Prices quoted shall not include Federal or State taxes, if any are applicable. The successful bidder shall furnish tax exemption forms, if required, with their invoices.

The prices quoted are that for which the materials or services will be delivered F.O.B. Gatlinburg, Tennessee.

Any additions, deletions, or variations from the following specifications must be noted.

Inspection of the materials or equipment will be made by an agent of the City of Gatlinburg, and if found defective or fails in any way to meet the terms of this agreement, it will be rejected. Rejected materials or equipment will be replaced at the expense of the bidder.

All technical specifications must accompany bid.

The City of Gatlinburg reserves the right to purchase additional units or services under the same terms and conditions for a period of one (1) year.

The City of Gatlinburg reserves the right to extend this agreement for one (1) additional year after the completion of the first year agreement.

The City of Gatlinburg reserves the right to defer payment for thirty (30) days after delivery. The City of Gatlinburg also reserves the right to reject any and/or all bids.

The bidder agrees to indemnify the City of Gatlinburg from any and all liability; loss or damage the City may suffer as a result of claims, demands, costs, or judgments against it arising from any and all work under this agreement.

The bidder agrees to notify the City, in writing, within thirty (30) days, by registered mail, at the City's address as stated in this agreement, of any claim against the bidder on the obligations indemnified against.

It is the policy of the City of Gatlinburg not to discriminate on the basis of race, color, national origin, age, sex, or disability in its hiring and employment practices, or in admission to, access to, or operation of its programs, services and activities. With regard to all aspects of this contract, contractor certifies and warrants it will comply with this policy.

# BID SPECIFICATIONS

## SIX WHEEL REGENERATIVE AIR STREET SWEEPER

### GENERAL SPECIFICATIONS

#### Diesel Powered 7.3 Cubic Yard Volumetric Capacity Municipal Street Sweeper (With Twin Gutter Brooms & Dual Steering)

It is the intent of these specifications to describe a street sweeper in sufficient detail to assure that product reliability, design integrity, technical soundness and sweeping performance is provided. The unit provided shall be new, of current manufacture, and the model and series must have been in production a minimum of five (5) years. Bidder shall provide a list of 15 cities currently using the model as bid. All parts not specifically mentioned, which are necessary to provide a complete street sweeper, shall be included in the bid and shall conform in strength and quality of material and workmanship to what is normally provided to the trade in general.

The unit shall be delivered completely assembled, serviced and ready to operate. The bidder shall have a qualified service representative in attendance with the sweeper during start up operation to make any adjustments and give instructions to assure proper operation of the sweeper.

The sweeper shall be warranted to be free from defective materials and workmanship for a period of 12 months or 1,000 hours from date of delivery.

The unit bid shall be a NEW (no demonstrators will be accepted) diesel powered regenerative air sweeper mounted on a diesel powered truck chassis.

#### COMPLIANCE TO SPECIFICATIONS

The bidder shall indicate his compliance with a "Yes" or non-compliance with a "No" for each line item specification. Any space left blank shall be considered non-compliance. Any deviations from the specification, or where submitted literature does not fully support the meeting of the specification, must be clearly cited in writing by the bidder, but no deviation below "minimum" specifications will be accepted.

#### MANUALS/TRAINING

- \_\_\_\_\_ The bidder shall supply one sweeper operator and one sweeper parts and service manual and one set on CD with each unit.
- \_\_\_\_\_ Manufacturer shall have available certifiable training course for complete maintenance and operation of sweeper. Manufacturer must have scheduled a minimum of 25 training courses per year for convenience of customers scheduling.
- \_\_\_\_\_ Bidder shall provide operator instruction/safety/maintenance procedures on DVD with the unit.

#### PAINT - COLOR

- \_\_\_\_\_ The entire unit shall be painted with manufacturers standard white paint applied over a suitable primer. Pick-up head, gutter brooms and truck frame shall be painted black.

# REGENERATIVE AIR SWEEPER

## POWER UNIT

- \_\_\_\_\_ The sweeper power unit shall be a diesel fueled, interim Tier 4 emissions John Deere PowerTech™ PWX 4.5L industrial engine, Model 4045HFC92. Engine displacement shall not be less than 275 cubic inch developing not less than 99 HP @ 2200 RPM and 315 ft. lbs. torque @ 1600 RPM with 8% power bulge and 33% torque rise. Engine shall be 4.2" bore and 5.0" stroke.
- \_\_\_\_\_ Cylinder construction shall be wet sleeve type.
- \_\_\_\_\_ Engine shall be equipped with a variable speed radiator fan, auxiliary drive, and engine mounted exhaust filter
- \_\_\_\_\_ Spin on replacement type oil filter remote mounted for easy access
- \_\_\_\_\_ Unit shall have a fuel/water separator and fuel filter remote mounted for easy access with water-in-fuel monitoring that will display a warning in the cab of the sweeper.
- \_\_\_\_\_ 12 volt ignition, electric starter and minimum 90 amp alternator
- \_\_\_\_\_ Engine electronics shall use John Deere ECU module and CAN SAE J1939 data link for communication.
- \_\_\_\_\_ Engine ECU shall be programmed to provide automatic engine monitoring and shutdown when engine problem is detected such as high coolant temperature, low coolant level, or low oil pressure.
- \_\_\_\_\_ All engine controls shall be located inside cab.
- \_\_\_\_\_ Unit shall share a 50 gallon fuel tank and batteries with chassis engine.
- \_\_\_\_\_ Unit shall have a heavy-duty dry type air cleaner with replaceable PowerCore® element, safety element, and integral precleaner.
- \_\_\_\_\_ Air cleaner restriction must be displayed to operator from control panel including air cleaner restriction percentage and filter service warning.
- \_\_\_\_\_ Engine shall be programmed for isochronous governor feature for engine speed control.
- \_\_\_\_\_ A heat exchanger assembly will provide adequate cooling for three different systems: engine coolant system, engine intake charge air and hydraulic system oil. It must be modular in design for ease of maintenance with each cooler located side-by-side rather than stacked in series. Air will be circulated through the heat exchanger assembly by a variable speed, engine mounted fan.

## DUST SEPARATOR

- \_\_\_\_\_ Separation of the dirt and refuse from the air stream shall be accomplished within the hopper by means of a **high capacity** multi-pass cylindrical centrifugal single chamber dust separator with a minimum size of 20" diameter and 61" width. The separator shall be designed so that it will not plug with normally encountered debris.
- \_\_\_\_\_ State dust separator size: \_\_\_\_\_ length - \_\_\_\_\_ width - \_\_\_\_\_ diameter
- \_\_\_\_\_ Dust separator shall be constructed from non-magnetic stainless steel.
- \_\_\_\_\_ Dust separator door shall be constructed of non-magnetic stainless steel.
- \_\_\_\_\_ The dust separator shall have a minimum 24" x 61" curved, easy to open door allowing inspection and cleaning of the interior. The door shall have an abrasion resistant bonded rubber lining material for long life.
- \_\_\_\_\_ The entire dust separator inlet area shall be lined with a bolt-in replaceable, wear resistant rubber liner for long life.
- \_\_\_\_\_ A 61" x 84" stainless steel screen of not less than 13 gauge shall be provided to allow air to move freely from the hopper into the centrifugal dust separator.
- \_\_\_\_\_ The screen shall be a split design with removable pins to allow the screen to drop down for cleaning.
- \_\_\_\_\_ Filters and baffles not acceptable due to increased cost of replacement and cleaning.

## HOPPER

- \_\_\_\_\_ Hopper size to be approximately seven and three tenths (7.3) cubic yard volumetric measurement with an operating load capacity of not less than 6 cubic yards.
- \_\_\_\_\_ Hopper roof, floor, side walls, rear door, and side inspection doors shall be constructed of non-magnetic stainless steel.
- \_\_\_\_\_ Dumping shall be accomplished by means of hydraulically actuated cylinders attached to a rear door which shall have a minimum opening of 84" x 44" with a raker bar moving inside hopper as door is opened and closed to dump debris behind the rear wheels.
- \_\_\_\_\_ Hydraulic cylinder movement shall be controlled with the use of an electric toggle switch located on the side of the hopper and by a switch in the cab.
- \_\_\_\_\_ The hopper floor shall have a minimum of 22 degree slope.
- \_\_\_\_\_ Hopper door shall be opened and closed hydraulically and be held in the closed position by means of a lock valve located in the hydraulic dump circuit.
- \_\_\_\_\_ A 9.75"x 29" inspection door shall be provided on both left and right side of the hopper for easy viewing inside hopper and insertion of large debris.

- \_\_\_\_\_ Hopper shall be maintained airtight through use of rubber seals on all doors and openings.
- \_\_\_\_\_ Hopper suction inlet roof area shall have a bolt on replaceable wear resistant liner 3/8"x11"x10'.
- \_\_\_\_\_ An amber high powered strobe light with field-selectable flash patterns via an internal jumper for quad flash or double flash; diagnostic indicator; a photocell for automatic "night" mode switch; RFI protection; 2 amps @ 12V DC; output of 19.5 joules (quad flash mode). The strobe light shall have a protective limb guard.
- \_\_\_\_\_ Two (2) LED work lights shall be mounted at the rear of the hopper to illuminate the dump area.
- \_\_\_\_\_ Two (2) LED amber flashing warning lights shall be mounted at the rear of the hopper.
- \_\_\_\_\_ An LED directional arrow (Whelen TACF85LH) shall be mounted on the rear of the hopper.
- \_\_\_\_\_ A hopper deluge shall be installed allowing for flushing of the hopper with hydrant water. The deluge shall have a quick disconnect fitting on the outside of the rear door and a minimum of four (4) nozzles inside the hopper. State number of nozzles inside the hopper \_\_\_\_\_.
- \_\_\_\_\_ A comprehensive abrasion protection package consisting of bolt-in replaceable liners shall be supplied. The abrasion protection package shall include (but not be limited to):
- \_\_\_\_\_ Indicate compliance / non-compliance for each item:
- \_\_\_\_\_ Rubber liner in the blower housing
- \_\_\_\_\_ Rubber coated blower wheel
- \_\_\_\_\_ Pressure wear pad in the pick-up head pressure chamber
- \_\_\_\_\_ Suction transition liner in the pick-up head
- \_\_\_\_\_ Suction throat liner
- \_\_\_\_\_ Wall liners inside the hopper
- \_\_\_\_\_ Hopper screen baffle curtains
- \_\_\_\_\_ Dust separator liner
- \_\_\_\_\_ Yellow reflective tape shall be installed the full width of the rear door in a chevron pattern.
- \_\_\_\_\_ A back-up camera shall be mounted on the rear of the sweeper with a color monitor mounted on the dash.

#### HYDRAULIC SYSTEM

- \_\_\_\_\_ The hydraulic system shall be adequate for use within the design requirements of the sweeper. The system shall include a minimum 25 gallon reservoir, sight gauge, temperature gauge, 80 mesh suction strainer, spin-on replaceable full flow oil filter, hydraulic cylinders, gutter broom drive motors, control valves, relief valves, oil cooler, hydraulic hoses and standard fittings.
- \_\_\_\_\_ The hydraulic pump shall be engine mounted, gear driven by the auxiliary engine.
- \_\_\_\_\_ Pressure shall be 2500 PSI maximum for gutter brooms and 1500 PSI maximum for pick-up head and dump door.
- \_\_\_\_\_ An electric auxiliary hydraulic pump shall be supplied to enable operation of all hydraulic functions (including dumping the hopper) with running the auxiliary engine.

#### BLOWER

- \_\_\_\_\_ Heavy duty, wear resistant, high strength cast aluminum alloy turbine type open face blower computer balanced within 4 grams shall be provided to create air pressure and suction.
- \_\_\_\_\_ Blower wheel shall be covered with wear resistant rubber for long life.
- \_\_\_\_\_ Blower shall be mounted on self-aligning anti-friction bearings, sealed and lubricated for life.
- \_\_\_\_\_ If any bearings on the sweeper unit (excluding chassis components) require regular greasing as a part of the maintenance requirements, then an automatic lube system must be furnished and included in the base price.
- \_\_\_\_\_ Does the unit being offered require regular greasing of any bearings? YES \_\_\_\_\_ - NO \_\_\_\_\_
- \_\_\_\_\_ Does your price include an installed autolube system for the sweeper components? YES \_\_\_\_\_ - NO \_\_\_\_\_
- \_\_\_\_\_ Blower shall be driven from PTO off auxiliary engine by heavy duty power belt which shall be adjustable for tension.
- \_\_\_\_\_ Blower housing shall be a bolt on design and shall be lined with a bolt-in wear resistant, replaceable rubber liner for long life.
- \_\_\_\_\_ Blower housing shall be constructed of non-magnetic stainless steel.
- \_\_\_\_\_ Blower not to exceed 3000 RPM to insure smooth efficient performance.
- \_\_\_\_\_ Blower shall be capable of being removed for service and/or replacement without raising the hopper or removing the blower housing.

#### PICK-UP HEAD

- \_\_\_\_\_ Blower shall be capable of being removed for service and/or replacement without raising the hopper or removing the blower housing.
- \_\_\_\_\_ A spring balanced all steel fabricated pick-up head with maximum length and width of 87" x 30" I.D. shall be provided.

- \_\_\_\_\_ The pick-up head shall have a separate upper and lower chamber where pressurized air is blasted from upper chamber through an elongated blast orifice to street surface.
- \_\_\_\_\_ Blast orifice flange shall be of bolt-on design so that flange is easily replaced and shall have slots so that blast orifice gap is easily adjusted without removing pick-up head from sweeper.
- \_\_\_\_\_ Pick-up head shall have a 14" diameter (minimum) pressure inlet ring located on left side of pick-up head.
- \_\_\_\_\_ A 14" diameter (minimum) pressure hose attached between pick-up head and blower housing shall be provided.
- \_\_\_\_\_ A bolt-on pressure inlet ring with turning vanes shall be provided for efficient performance and easy service.
- \_\_\_\_\_ A 14" diameter (minimum) suction hose, attached to a quick disconnect transition at the hopper, shall extend down to the right side of the pick-up head and shall be attached to the pick-up head suction nozzle ring which shall be constructed of 1/4" steel.
- \_\_\_\_\_ Suction hose shall have a minimum 3/8" wall construction for long life.
- \_\_\_\_\_ Pick-up head shall be equipped with 2" wide adjustable side mounted integral alloy steel and carbide runners for maximum pick up ability and long life. Skid runners to be warranted for 2 years/2,000 hours prorated. Runners shall be symmetrical for optimum life.
- \_\_\_\_\_ Side plates shall have a minimum height adjustment of 4" at the blast orifice.
- \_\_\_\_\_ Pick-up head shall be raised and lowered hydraulically by a single switch on the control panel.
- \_\_\_\_\_ Pressure inlet ring shall be equipped with an adjustable pressure relief for optimum leaf and light debris sweeping; control shall be mounted inside cab.
- \_\_\_\_\_ A hydraulically actuated front curtain lifter shall be installed to aid in sweeping leaves and light debris. The curtain lifter shall be controlled from inside the cab and shall be independent of – and in addition to the pressure bleeder.
- \_\_\_\_\_ Is your machine (as bid) equipped with a hydraulic front curtain lifter AND a pressure bleeder/vacuum enhancer?
- \_\_\_\_\_ Pick-up head shall be capable of sweeping in forward or reverse.
- \_\_\_\_\_ Sweeper shall incorporate an automatic pick-up of all sweeping gear when transmission is placed in reverse. The engine will idle down, the broom(s) will raise, the water will pause, and the pick-up head will raise. Once the truck is placed in drive and the reset switch is activated all functions will go back to their original state. The auto-pick-up function will also serve as a one-button operation to activate and stop all sweeping functions if so desired.

#### GUTTER BROOM(S)

- \_\_\_\_\_ Dual gutter brooms shall be 43 inch minimum diameter, wire filled vertical digger type for removing debris from gutter area.
- \_\_\_\_\_ Gutter brooms shall be hydraulic motor driven and shall be positioned laterally and vertically by one hydraulic cylinder.
- \_\_\_\_\_ It has been determined that electric over hydraulic operation of brooms and sweeping gear is preferred over pneumatic operation. Does your sweeper (as bid) use pneumatic cylinders for any part of the operation of the sweeping gear? YES \_\_\_\_\_ - NO \_\_\_\_\_
- \_\_\_\_\_ Gutter broom down pressure shall be automatically adjusted to load by a pressure sensing sequence valve inline with gutter broom torque motor.
- \_\_\_\_\_ Each gutter broom shall have adjustment for bristle contact pattern and wear.
- \_\_\_\_\_ Each gutter broom shall have lateral flexibility to swing rearward 15" when encountering the impact of an immovable object thus avoiding damage to the broom assembly.
- \_\_\_\_\_ Each gutter broom shall have a spring adjustment to allow downward compensation for bristle wear and shall be free floating to follow street contour.
- \_\_\_\_\_ Each gutter broom shall be held in the up and transit position by use of an electric lock valve attachment. Upward motion of gutter broom shall be regulated by an adjustable flow control valve.
- \_\_\_\_\_ Each gutter broom shall be controlled from inside the cab by a single electric toggle switch.
- \_\_\_\_\_ Each gutter broom shall additionally incorporate a hydraulically actuated tilt capability of 27 degrees, remotely controlled from the operator's seat to allow instant adjustment for debris removal from deep gutters (such as those resulting from multiple overlays of blacktop).

#### DUST CONTROL WATER SYSTEM

- \_\_\_\_\_ Water tanks shall be 330 gallon (minimum) capacity, constructed of recyclable polyethylene for strength and puncture resistance. Tanks shall be 100% rustproof and shall be of bolt-in design for easy removal. A water level sight gauge shall be provided.

- \_\_\_\_\_ State water capacity as bid: \_\_\_\_\_ gallons
- \_\_\_\_\_ Water from tank to be filtered by 80 mesh cleanable filter located between tank and water pump.
- \_\_\_\_\_ An electric water pump shall be provided with an electronic solid state liquid level sensor to automatically shut off pump and turn on low water warning lamp when water is depleted.
- \_\_\_\_\_ Electric solenoid water control valves shall be cab controlled. Spray system shall include spray nozzles to be located as follows: minimum of 4 on outside of pick-up head; 5 for each gutter broom; 1 inside hopper. Water nozzles to be located on outside of pick-up head and suction tube for easy inspection and superior dust control.
- \_\_\_\_\_ An additional three (3) nozzles shall be installed for each gutter broom. They shall be controlled independently of the gutter broom nozzles to conserve water and be used only in extremely dusty situations.
- \_\_\_\_\_ Water tank shall have anti-siphon/anti-pressure filler neck with air gap.
- \_\_\_\_\_ Flexible 20 foot (minimum) long water fill hose with 2½ inch coupling for filling water reservoir and hose storage rack shall be provided. Water fill hose shall include a stainless 100 mesh cleanable filter.
- \_\_\_\_\_ An air purge system shall be provided to enable winterization of the dust control system using a shop air supply.

#### STORAGE COMPARTMENT

- \_\_\_\_\_ A curbside mounted steel storage box shall be supplied for tools, etc., minimum dimensions shall be 14”x 16” x 36”. The storage box shall have one hinged door on the curbside for ground level access. Storage box mounting requiring climbing for access is unacceptable.
- \_\_\_\_\_ Storage box shall have a lockable latch mechanism and shall not require the use of an external lock.

#### AXILIARY ENGINE ACCESS

- \_\_\_\_\_ Auxiliary engine shall be accessed without raising hopper.
- \_\_\_\_\_ Access will be accomplished from the ground level by steel steps covered with anti-skid grating and proper size grab handle to insure safe entry and exit from platform.
- \_\_\_\_\_ A suitable size platform will be provided to allow safe access to auxiliary engine.

#### OPERATING CONTROLS

- \_\_\_\_\_ All operating controls for sweeper (except dump control) shall be mounted inside truck cab and readily accessible to the operator in either right or left driving position.
- \_\_\_\_\_ All main electrical systems, i.e. ignition, lights, hydraulic and water shall be separately fused to isolate electrical problems to fused area and speed service.
- \_\_\_\_\_ All main sweeping functions shall be operated via a BlueLogic® control system with LED diagnostics and integral solid-state circuit protection.
- \_\_\_\_\_ Auxiliary engine controls shall be mounted on console panel.
- \_\_\_\_\_ A multi-function, color BlueLogic display shall be provided on the console panel to display engine conditions consisting of, but not limited to engine RPM, percent load, engine torque, engine hours, engine oil pressure, coolant temperature, air filter restriction, battery voltage, fuel rate, and engine faults codes.
- \_\_\_\_\_ The display shall also provide On Board Sweeper Diagnostics that includes but is not limited to: CAN Network Diagnostics, BlueLogic Module Input/Output & Power Diagnostics, & Service Reminders.
- \_\_\_\_\_ The display shall provide visual indicator lights for several sweeper functions and warnings including, but not limited to, dust suppression water pump, low water, pick-up head down, etc.
- \_\_\_\_\_ The sweeper console shall incorporate resettable and non-resettable hour meters for the auxiliary engine; left hand, right hand gutter brooms; pick-up head; and blower for collecting data about sweeping route performance and maintenance. It will also store hydraulic system and engine service timers.
- \_\_\_\_\_ Standard sweeping function switches will be multiplexed with BlueLogic reducing the amount of wires in the control panel. BlueLogic switches will have multi-colored LED indicator lights to simplify diagnostics.
- \_\_\_\_\_ Standard sweeping functions switches shall consist of, but not limited to, right gutter broom, left gutter broom, pick-up head, engine rpm, and water system.
- \_\_\_\_\_ Misc. & optional sweeper controls shall consist of, but not limited to, gutter broom tilt, beacon or strobe light, water system circuits, dump door, and work light lighted paddle type switches, and leaf pressure knob.
- \_\_\_\_\_ Audible alarm shall sound to indicate auxiliary engine fault codes, hydraulic oil temp, and other optional warning equipment.
- \_\_\_\_\_ All external wiring, harnesses and terminations shall be of a sealed, weather-tight design utilizing heat-shrinkable components. Additionally, where feasible, all connectors shall utilize solid, cold-formed, nickel-plated copper alloy contacts with gas-tight crimps (Deutsch).
- \_\_\_\_\_ Dump control shall consist of a single weatherproof toggle switch located on the exterior of sweeper just above the left side fender well and a switch inside the cab.
- \_\_\_\_\_ Controls for the LED arrow stick shall be mounted inside the cab within easy reach of the operator.

# CHASSIS

## (International 4300-DT)

### GENERAL

- \_\_\_\_\_ Chassis/cab shall be conventional with a tilt hood. Frame to be straight full channel steel rails (50,000 PSI). Gross vehicle weight rating to be not less than 31,000 GVW. Curb weight with cab, fuel, water, oil and tires shall be approximately 9,550 lbs. Standard truck cab enclosed and equipped with tinted safety glass all around and two individual, adjustable, high back air seats with lumbar support and safety seat belts. (Sliding windows not acceptable.)

### WARRANTY

- \_\_\_\_\_ Total chassis coverage is 24-months/unlimited mileage.
- \_\_\_\_\_ Engine (diesel) coverage is 36-months/150,000 miles.
- \_\_\_\_\_ Drive train coverage is 24-months/unlimited mileage.
- \_\_\_\_\_ Frame coverage is 60-months/unlimited mileage.
- \_\_\_\_\_ Cab corrosion coverage is 60-months/unlimited mileage.

(Warranty coverage is 100% parts and labor unless otherwise noted as provided by chassis manufacturer.)

### WHEELBASE

- \_\_\_\_\_ Shall be minimum 165" and shall provide approximately 98" between back of cab and center of rear axle for proper load distribution and tighter turning radius.
- \_\_\_\_\_ Special frame drilling and brake chambers relocation.

### AXLES

- \_\_\_\_\_ Front axle to be minimum of 10,000 lbs. with suspension of 10,000 lbs.
- \_\_\_\_\_ Rear axle shall be 21,000 lbs. two-speed with a ratio of 6.17/8.42, suspension to be minimum of 31,000 lbs. vari-rate with 4,500 lbs. capacity multi-leaf auxiliary rubber spring.
- \_\_\_\_\_ Body builders wiring to back of cab at frame
- \_\_\_\_\_ Two (2) front tow hooks shall be provided.

### STEERING

- \_\_\_\_\_ Dual operator controlled integral power steering with cruise control, tilt and dual gauge package.
- \_\_\_\_\_ Diameter of steering wheel will be minimum 18".

### BRAKES

- \_\_\_\_\_ Service brakes to be full air with 13.2 cfm air compressor.
- \_\_\_\_\_ Air tank drain valve, manual with pull cable.
- \_\_\_\_\_ Front brakes shall be 15" x 3½".
- \_\_\_\_\_ Rear brakes shall be 16½" x 7".
- \_\_\_\_\_ Shall have automatic slack adjusters front and rear.
- \_\_\_\_\_ Parking brakes shall be spring actuated, double diaphragm, 30" MGM Chambers air chambers, with warning light.
  
- \_\_\_\_\_ Brake chambers, spring relocated to rear of rear axle for maximum ground clearance.
- \_\_\_\_\_ 4-Channel anti-lock brake system shall be provided.
- \_\_\_\_\_ An air dryer shall be installed

### CAB

- \_\_\_\_\_ Cab shall have in-dash chassis manufacturer's factory installed air conditioner for operator safety and comfort with a fresh air filter. After market air conditioners are unacceptable.
- \_\_\_\_\_ Cab to have individual driver and passenger air, high back adjustable seats with lumbar support.



- \_\_\_\_\_ Tinted glass shall be provided.
- \_\_\_\_\_ Dual sun visors, coat hook, storage pocket on driver door, cigar lighter, electric horn, electric windshield washer and 2 speed electric wipers with intermittent wiper switch shall be provided.
- \_\_\_\_\_ Chassis shall be equipped with fresh air heater, defroster, dual 7" x 16" remote controlled heated electric powered mirrors, two separate 10 1/2 " diameter parabolic mirrors.
- \_\_\_\_\_ AM/FM stereo radio with auxiliary input and clock shall be provided.
- \_\_\_\_\_ Instrument panel shall be flat.
- \_\_\_\_\_ Truck shall be equipped with an air horn.

#### ELECTRICAL

- \_\_\_\_\_ Shall consist of two, multiple beam headlights with dash beam indicator, instrument panel, LED taillights, LED stop lights, front and rear turn signals, and self-canceling signal switch, equipped for four way flashing. Taillights, stop lights and signal lamps may be in combination.
- \_\_\_\_\_ Shall have two 12volt (1300 CCA total) maintenance free batteries.
- \_\_\_\_\_ Shall have a 120 amp alternator.
- \_\_\_\_\_ Truck shall be equipped with LED marker lights.
- \_\_\_\_\_ Four (4) combination amber/white strobes shall be mounted in the grill.

#### ENGINE

- \_\_\_\_\_ Shall be DT466 In-Line 6 wet-sleeve turbocharged and air-to-air intercooled diesel with a minimum 215 HP at 2200 RPM, 466 cu. in (7.6L), 560 lb/ft torque @ 1300 RPM.
- \_\_\_\_\_ Dual element dry type air cleaner with restriction indicator dash mounted.
- \_\_\_\_\_ Automatic glow plug with indicator light shall be supplied.
- \_\_\_\_\_ Automatic shutdown/over temperature protection engine coolant.
- \_\_\_\_\_ Remote engine control wiring shall be supplied.

#### FUEL

- \_\_\_\_\_ A 50 gallon aluminum tank shall be supplied and shall supply fuel to both engines.

#### TIRES AND WHEELS

- \_\_\_\_\_ Heavy duty first line quality tubeless tires to be minimum 11R x 22.5, 14 ply rating with duals in rear for adequately carrying full load of sweeper and maximum stability.
- \_\_\_\_\_ Wheels to be 10 hole disc 22.5 x 8.25 DC.

#### TRANSMISSION

- \_\_\_\_\_ Shall be heavy duty Allison 2500RDS-P electronic, five-speed forward, one reverse, automatic, with external oil filter.

Delea Patterson, AP/Purchasing  
City of Gatlinburg  
1230 Parkway East  
P.O. Box 5  
Gatlinburg, TN 37738

**RE: One (1) 2016 Six Wheel Regenerative Air Street Sweeper.**

The specifications for the above-mentioned items have been reviewed and the following is offered for purchase and delivery of the following 2016 Six Wheel Regenerative Air Street Sweeper:

\$ \_\_\_\_\_  
2016 Street Sweeper

Estimated Days for delivery after bid awarded \_\_\_\_\_.

If offering Equivalent models, please note in Deviations section below.

All bids are to include delivery to a specified location in Gatlinburg.

Any deviations from these specifications are listed below (use back if necessary).

DEVIATIONS YES \_\_\_\_ NO \_\_\_\_

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**Bidder Contact Information:**

_____ Signed/	_____ Date
_____ Name (Print)	_____ Telephone
_____ Company Name	_____ Fax Number
_____ Address	_____ Email
_____ City      State      Zip	

EACH BIDDER SHALL SUBMIT THIS STATEMENT OF COMPLIANCE WITH THEIR BID.

For Title VI and IX compliance, we ask for voluntary disclosure of the following information:

Gender:	Male	_____
	Female	_____
Race:	Caucasian	_____
	African-American	_____
	Other (specify)	_____

## **BIDDERS LIST**

Stringfellow  
2710 Locust Street  
Nashville, TN 37207  
[ron@stringfellow.bz](mailto:ron@stringfellow.bz)

Mid-State Equipment Co.  
Attn: Larry Beavers  
17573 Main Street  
Buchanan, VA 24066  
[salt\\_lit@mounet.com](mailto:salt_lit@mounet.com)

[mequip@iglou.com](mailto:mequip@iglou.com)

Latner McDonald  
Regional Sales Manager  
Phone: 256-690-3561  
Fax: 256-851-1127  
[lmcdonald@schwarze.com](mailto:lmcdonald@schwarze.com)

CMI Equipment Sales, Inc.  
2405 Dickerson Rd.  
P.O. Box 78098  
Nashville, TN 37207  
[cmiequip@bellsouth.net](mailto:cmiequip@bellsouth.net)