Addendum #1

R89225 / B303198

Street Sweeper

The Bid Solicitation is hereby revised, as follows:

(1) The due date for submission of bids is changed. Sealed bids should be delivered to the Purchasing Office by 2:00 PM Eastern Time on March 25, 2014.

(2) The Specifications are revised. New Specifications are attached.

Bidders should acknowledge receipt of this Addendum by signing below and submitting a copy of this Addendum with their Bid.

Receipt of Addendum #1 is hereby acknowledged by

_____, on behalf of
Authorized Agent

_____
Supplier

_____
Date

City Wide Service Department
Street Sweeper Specifications

INTRODUCTION

These specifications describe the vehicle and accessories to be purchased by the City of Chattanooga,City Wide Services Department. These specifications consist of three parts: (1) Required Features – these requirements must be met without exceptions for a bid to be considered acceptable, (2) Preferred Features – attributes/performance that the City wants, however exceptions to Preferred Features are allowed with explanation (The more Preferred Features that are met by a bid, the better the bid.), and (3) Options – additional features/conditions that are optional (i.e., may or may not be offered by Suppliers and may or may not be purchased by the City); Options will be priced as separate line items.

These specifications are intended to be flexible enough for all Suppliers to bid competitively. Any specific brand names or part numbers used herein may be substituted for with another brand provided it is equal to or better than specified; documentation of 'equal to or better' is required.

BASIS FOR AWARD

This purchase is primarily a low price competition among acceptable bids (i.e., those bids from responsible bidders meeting all Required Features). However, the City will accept the Best Bid meaning, in this context, the lowest bid that provides the most Preferred Features. Options (if offered by Suppliers) will be priced separately and accepted or not at the City's sole discretion. Vendor shall guarantee bid price for 1 year from date of issued Purchase Order.

REQUIRED FEATURES

GENERAL

1. The entire vehicle/apparatus is to conform to D.O.T., FMVSS, NFPA, and OSHA and to the requirements of all other applicable regulatory agencies.

2. Parts not specifically mentioned that are necessary to furnish a complete chassis or body/apparatus must have been produced using the automotive industry's best manufacturing practices. This pertains to design, quality of materials and workmanship.

3. Loose and miscellaneous equipment is to be provided only as required by D.O.T and specifications.

4. Each bid is to be accompanied by a set of manufacturer's and, as applicable, vendor's specifications. These are to consist of a detailed description of the proposed vehicle/apparatus and equipment. The specifications are to indicate size, type, model and make of all component parts and equipment. A CAD drawing of the proposed vehicle indicating wheelbase, Cab to axle and Cab to end of frame measurements is desired. All weights and horsepower/torque, transmission ratios, and axle ratios shall be approved by engineering per vehicle manufacturer to include all detachable components and operations.

5. All vehicles will be delivered with factory service manuals, wiring diagrams (electrical schematics), Hydraulic schematics and component locators for cab, chassis & bodies installed on vehicle. CD's or DVD will be accepted.

6. All warranties will be listed with specific details as to time, including any and all exclusions. No warranties can be Terminated or canceled for any reason during the warranty coverage as stated in bid where specified. No travel or drive time for warranty work will be paid while under any manufacturer's warranty.

7. All power train components, assemblies, subassemblies, and component parts will be designed and constructed with due consideration to the nature and distribution of the load to be sustained and to the general character of the service for which the vehicle is designed and will be subjected to when placed in service. All parts of the vehicle will be strong enough to withstand

the general service under full load. The vehicle will be so designed that the various parts are readily accessible for lubrication, inspection, adjustment and repair.

8. Two Day's Operator (driver) Training shall be provided, three day Mechanic training shall be provided. This shall be scheduled upon delivery of Sweeper.

9. The specified vehicle will be capable of reaching and maintaining a minimum speed of 20 MPH on any grade up to and including 25% or 15 degree grade. The vehicle will be capable of attaining a true speed of 35 MPH in 25 seconds on level ground and programmed not to exceed 62 MPH.

10. Any special software or hardware needed to perform diagnostics on any computer mounted on cab, chassis and body shall be provided by Supplier.

11. Factory service manuals, electrical schematics, Hydraulic schematics and component locators are to be supplied for body and chassis.

12. Must have a service facility within a 50 mile radius of Chattanooga.

13. All bidders are to list wear items, if something fails within the warranty period if it is not listed as a wear item it will be warranty.

WARRANTY

1. Warranty period shall be for two (2) years on the truck body and all of its components with no exceptions,excluding wear items.

2. Three (3) year drive train warranty on Engine, Transmission, and Rear Axle. Warranty shall include the chassis, engine,transmission and drive train, excluding wear items.

3. Bidder shall include copy of warranty terms and conditions with the bid.

4. All warranty registrations will be completed by Supplier and copies provided upon delivery. All warranties will begin on any and all components on the in-service date or delivery date if no special training is needed to begin operating vehicle.

MY BID MEETS ALL REQUIRED FEATURES: YES____ NO____

Signed by Bidder:_____

Intent

It is the intent of these specifications to describe a conventional chassis which is sufficiently rated to transport a full load of sweeping debris at speeds up to 55 MPH. For safety and comfort of the operator and for quick, local service along with local availability of repair parts, the chassis will NOT be a purpose built chassis built by the sweeper manufacturer. The chassis shall be equipped with spring suspension on axles, dual steering and operator controls, and automatic transmission. All tires shall be the same size and have dual tires on each side of the rear axle (six-wheel configuration).

Bidders must indicate compliance for each item throughout the bid by writing "YES" or "NO". Failure to do so may be cause to reject the bid. All "NO" answers must be fully explained on a separate sheet of paper and be attached to and submitted with bid. Failure to explain "NO" answers may be cause to reject bid.

CHASSIS ENGINE

Compliance

_____ Engine shall be a Tier 4 turbo-charged electronic diesel engine. To be a minimum of 365 cubic inches.

_____ Horsepower rating shall be minimum of 200 HP @ 2600 RPM. Torque rating shall be 560 LB/FT @ 1400 RPM.

_____ Engine to have automatic shutdown with 30 second delay and warning light and buzzer for low engine oil pressure, high coolant temperature, low coolant level. Shutdown system to include automatic override.

_____ Air Cleaner to be a two stages, heavy-duty dual element dry-type air cleaner with restriction indicator.

_____ Alternator shall be 100 Amp.

_____ Two maintenance free batteries shall be provided with 1100 total CCA.

_____ Chassis to be equipped with 1000 watt block leader.

_____ Engine cooling fan to be Borg-Warner Series 790 viscous screw type.

_____ Chassis engine to share 50-gallon fuel tank and batteries with auxiliary engine. No exceptions.

_____ Engine exhaust shall be horizontal/vertical on right hand side.

_____ Engine shall be equipped with a full flow oil filter.

_____ Chassis to include fuel/water separator mounted on engine and fuel filter in a single assembly.

TRANSMISSION

_____ Transmission shall be an electronic 5-speed automatic Allison 2500 RDS w/LBSS.

_____ Transmission to have oil filter mounted on transmission.

_____ Transmission to have transmission oil temperature gauge mounted in dash.

DUAL SIT-DOWN STEERING

_____ Chassis to have dual steering.

_____ No dual steering installed by the sweeper manufacturer. No exceptions.

_____ Dual steering to have accelerator and brake controls, self-canceling turn signal, horn, headlight dimmer switch with flash-to-pass feature, and four way flasher controls at each driving position.

_____ Both driving positions to have tilt steering wheel.

_____ Ignition switch to be relocated to the center of dash.

_____ Single or center mounted steering will not be accepted. Dual steering must not be installed by sweeper manufacturer.

_____ Turning radius to be a maximum of 21.0 feet.

FRONT AXLE & SUSPENSION

_____ Front axle to be I-beam type with a minimum capacity of 12,000 lbs. No exceptions.

_____ Front suspension to be a minimum 12,000 lb. capacity taper leaf spring.

_____ Front suspension to have shock absorbers.

REAR AXLE & SUSPENSION

_____ Rear axle to be a 2 speed with a minimum capacity of 21,000 lbs. No exceptions.

_____ Rear suspension to be a Chalmers CSI 1023 minimum 23,000 lb. capacity.

_____ Sweepers that require the operator to make adjustments in the cab to the suspension to allow the sweeper to sweep or travel at highway speeds will not be accepted.

_____ Rear axle to be 2-speed having ratios of 6.17/8.40

BRAKE SYSTEM EQUIPMENT

_____ Brakes to be air brake system. No hydraulic brake system will be accepted.

_____ Bendix four channel anti-lock braking system to be provided.

_____ Front brakes to be 15" X 4". Rear brakes to be 16.5" X 7".

_____ MGM TR30/30 spring actuated parking brake chambers to be provided.

_____ Bendix heated AD-IP air dryer to be provided.

_____ Air compressor to be Bendix Tu-Flo 550 13.2 CFM.

_____ Front & rear brakes to have automatic slack adjusters.

_____ Front & rear brakes to have brake dust shields.

_____ All air reservoirs to have air tank twist-type drain valves.

FRAME & WHEELBASE

_____ Wheelbase to be 130". Cab to axle to be per manufacturer requirement.

_____ Frame rails to be 10.250" X 3.092" X .375" high strength low alloy steel 120,000 p.s.i. yield, with 3 million RBM. Any chassis not meeting or exceeding these minimum standards will not be accepted.

_____ GVW to be minimum of 33,000 lb.

TIRES & WHEELS

_____ Tires to be 11R 22.5 and be 14 ply. Michelin brand.

_____ Rear axle to have dual tires and wheels on each side of axle.

_____ Wheels to be 10-stud steel disc hub piloted 22.5 X 8.25. Chassis that have 22.5 X 7.50 wheels will not be accepted.

_____ Wheels to be interchangeable to allow emergency change at the job site.

CAB EXTERIOR

_____ Cab to conventional type with steel cab and fiberglass tilting front end.

_____ Door/ignition locks to be keyed alike.

_____ Headlights to be halogen and to include daytime running lights feature.

_____ Chassis to have dual 16"x17" west coast heated mirrors mounted on doors, w/electrical adjustment switch mounted for both seating positions

_____ 8" diameter chrome parabolic mirrors to be mounted under west coast mirrors. 3 point mounting.

_____ 8" diameter chrome parabolic mirrors to be mounted on front fenders for viewing gutter brooms.

_____ All chassis windows to be tinted.

_____ Chassis to be equipped with Single Trumpet Grover Air Horn.

_____ Door windows to roll down. No sliding windows.

_____ Chrome towel bar-type exterior grab handles to be provided on each side of cab. No exceptions.

_____ Front grill to be chrome.

_____ 4 LED Amber lights mounted in grill, must flash a Minimum of 75 per minute.

_____ Code 3 LED Light bar #2158TR or equal, mounted on cab

CAB INTERIOR

_____ Air conditioner to be provided with integral heater and defroster.

_____ Both seats to be high-back, National 2000-295 air-suspension seats. Seats to have air lumbar support.

_____ Seat covers material to be vinyl.

_____ Three point, lap and shoulder seat belts to be provided. Orange.

_____ Molded plastic arm rests to be provided on each door.

_____ Ashtray and cigar lighter to be provided.

_____ Dome light to be door activated.

_____ Master Disconnect mounted in cab by driver's seat.

_____ Momentary Re-Gen switch mounted in dash.

_____ Rear Camera w/5" color monitor mounted in cab, adjustable for both driving positions view.

INSTRUMENTS & CONTROLS

_____ Chassis gauges to include speedometer, tachometer, oil pressure, water temperature, air pressure for air brakes, voltmeter, fuel, and transmission temperature at both driving positions. Right side gauges to match factory gauge cluster on the left side.

_____ Odometer to display miles, trip miles, engine hours, and trip hours.

_____ Visual and audible warning system to be provided for low fuel, low oil pressure, high engine coolant temperature, low coolant level, and low battery voltage.

_____ Chassis to have electronic cruise control integral to steering wheel. Cruise control on left side driving position only.

_____ AM/FM/CD radio with weather band and clock to be provided. Speakers to be dual-cone.

_____ Two-speed windshield wiper control with wash and intermittent feature at both driving positions.

PAINT COLOR

_____ The chassis and wheels shall be painted white.

_____ Chassis frame to be painted Viper Red. DuPont #B45963 or equal.

CHASSIS WARRANTY

_____ Basic vehicle warranty to be 36 months/unlimited distance.

_____ Drive train components warranty to be 36 months/unlimited distance.

_____ Cab structure and sheet metal, cab corrosion, and frame rails & cross members warranty to be 60 months/unlimited distance.

DELIVERY

_____ The unit shall be delivered completely assembled, serviced, and ready to operate.

_____ Bidder to state delivery date.

_____ The bidder shall supply chassis operators manual. Service manual on CD ROM, and parts manual.

Radio Requirements in Cab

1. 20 amp continuous circuit power and ground (12 gauge wiring for both) shall be provided with an additional 4 amp ignition feed.
2. RG58 Antenna cable with 800 MHz NMO mount on mirror arm and mini UHF connector.

Intent

It is the intent of these specifications to describe a twin engine mechanical street sweeper. The sweeper shall be equipped with a minimum 5.0 cubic yard volumetric hopper. Dump height to be a minimum of 10' measured from the ground to the lower edge of the dump door in the dump position. Dump door to be 48" long. The lift system shall be capable of raising and lowering 12,000 lbs. while maintaining a 3:1 design factor on all lift components. The unit shall be sufficiently rated to transport a full load of sweeping debris at speeds up to 55 MPH. The chassis shall be commercially built for comfort of the operator and for quick, local service along with local availability of repair parts. The chassis will NOT be a purpose built chassis built by the sweeper manufacturer. The chassis shall be equipped with dual steering, dual operator controls, and an automatic transmission. All tires shall be the same size and have dual tires on each side of the rear axle (six-wheel configuration).

The unit shall be new of current manufacture. No prototype, demo, used, regenerative air or vacuum type sweepers will be accepted.

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, quality of materials, and workmanship to what is normally provided to the trade in general.

Bidders must indicate compliance for each item throughout the bid by writing "YES" or

"NO". Failure to do so may be cause to reject the bid. All "NO" answers must be fully explained on a separate sheet of paper and be attached to and submitted with bid. Failure to explain "NO" answers may be cause to reject bid.

Sweeper Engine

Compliance

_____ A. A Tier III EPA 07 auxiliary diesel turbo charged engine to be provided to power the sweeper. The engine shall be a four-cylinder Deutz model BFL2011 with a horsepower rating of not less than 74 hp at 2600 RPM and a peak torque rating of not less than 169.5 ft/lb at 1600 RPM. Minimum displacement shall not be less than 166.7 cubic inches.

_____ B. Engine to have an integrated cooling system. Cooling and lubrication to be with oil.

_____ C. For ease of maintenance, all services to be done on one engine side. Remote oil drain plug to be provided.

_____ D. Engine shall equipped with a full flow spin-on oil filter and fuel filter.

_____ E. Unit shall have a heavy-duty two-stage dry type Donaldson air cleaner.

_____ F. Engine to be equipped with engine shutdown system that shuts down engine or low oil pressure and high oil temperature.

_____ G. Engine to be equipped with a 12-volt ignition system, electric starter and a 60-amp alternator.

_____ H. Sweeper engine and chassis engine shall not share chassis batteries.

_____ I. Sweeper auxiliary engine to share 56-gallon fuel tank with chassis engine.

_____ J. Auxiliary engine shall be protected from the elements by a fully enclosed compartment to include top and sides. Compartment shall also be designed to reduce auxiliary engine noise.

Hydraulic System

Compliance

_____ A. Hydraulic oil reservoir capacity shall be a minimum of 35 gallons and to be equipped with a tank mounted combination temperature and sight level gauge.

_____ B. The hydraulic cooler system shall be adequate to maintain normal operating temperatures.

_____ C. The entire oil supply shall pass through an oil cooler and a 10 micron return filter.

_____ D. The hydraulic oil reservoirs pump supply port shall be routed through a 100 mesh suction strainer.

_____ E. The hydraulic pump shall be a variable displacement piston-type with load sensing capabilities to provide power on demand to all sweeping functions including gutter brooms, elevator and the main broom. In addition, the pump shall supply power for hopper raise/lower and dump, gutter broom, elevator, and main broom raise/lower.

_____ F. All hydraulic directional control valves shall have a manual override. The rotating and lifting functions shall be separated in two separate control valve banks. All valves shall include LED lighted indicators for trouble shooting.

_____ G. All hydraulic connections shall be SAE O-ring or 37 degree flare type. No pipefitting type connections allowed except on the hydraulic reservoir suction strainer, tank plugs, and flanges.

_____ H. The sweeper hydraulic circuit shall be equipped with quick disconnect pressure check ports.

Dirt Conveyor

Compliance

_____ A. The elevator shall be a minimum of 58" wide at broom opening and entry into hopper.

_____ B. Elevator to be hydraulically driven by a chain and sprocket system.

_____ C. Conveyor shall have replaceable rubber wiper squeegee flight system capable of conveying all types of materials into the sweeper hopper. System shall have a minimum of 10 flights.

_____ D. Elevator to have a built-in cascading elevator flushing system-powered by hydrant water. Sweeper to be permanently plumbed for this operation. Water hose needed to connect to hydrant shall be provided and have a stage compartment behind right rear wheel. Systems, because of design, that require a separate lower roller on board cleaning system will not be accepted.

_____ E. Elevator must be capable of reverse operations to clear elevator jams and to clean elevator. This shall be controlled in-cab.

_____ F. Upper and lower elevator shaft to be a minimum 2" diameter. No exceptions.

_____ G. An in-cab alarm and light shall be provided to alert the operator if the conveyor should jam.

Hopper

Compliance

_____ A. The hopper shall have a volumetric capacity of not less than five (5) cubic yards with a minimum useable capacity of 3.5 cubic yards.

_____ B. Dumping shall be to the right side of the sweeper.

_____ C. The hopper shall be a variable high dump capable of being raised for a dump height of between 16" to 138" measured from the ground to the bottom edge of a 48" hopper door in the dump position. Lifting hopper shall be by use of scissors lift mechanism.

_____ D. The hopper door shall be 48" long as measured in the dump position.

_____ E. The scissors mechanism shall be capable of lifting 12,000 pounds or 6 tons while maintaining a 3:1 design factor on all critical components. Scissors shall be constructed of 3" x 6" rectangular tubing. Scissors shall also incorporate self-lubricating slides in the frame channels.

_____ F. Hopper to be made of 10 gauge welded steel construction. Hopper floor to be made from 7 gauge steel.

_____ G. The hopper raise cylinders shall be equipped with integral load controls to control cylinder movement.

_____ H. Operator shall be capable of controlling and viewing dump process from inside the cab.

_____ I. Hopper to have Plexiglas inspection window in front of the hopper for easy viewing. Hopper shall also have a window to allow light into the hopper for easier viewing of debris inside.

_____ J. The hopper dump angle to be minimum of 48 degrees.

_____ K. The chassis park brake shall be automatically applied to allow hopper movements and must be manually disengaged when hopper is lowered and stowed.

_____ L. Hopper safety prop shall be provided and shall have a storage location under the scissors lift.

_____ M. An in-cab alarm and light shall be provided to alert the operator when the hopper is not seated on the chassis frame.

Main Pickup Broom

Compliance

_____ A. Main pickup broom shall be hydraulically driven.

_____ B. The broom core shall be not be less than 34" in diameter and not less than 58" in length and shall be of polyester material.

_____ C. Main broom shall have in-cab control for pneumatic suspension for instant adjustment of broom down pressure. Pneumatic broom cylinders shall be a maximum of 2 ½" diameters to allow for instant adaptation to road conditions.

_____ D. Main broom shall be mounted on self-aligning friction bearings and shall utilize 1 ½" diameter broom shaft.

_____ F. Broom shall be shielded by a plastic hinged broom hood that is designed to prevent material from being thrown into following traffic.

_____ G. The hinged broom hood will allow access to broom bristles from the top providing easy washout of the main broom assembly.

_____ H. Main broom to have two led work lights for night operations mounted on the rear of the sweeper.

Gutter Brooms

Compliance

_____ A. Dual gutter brooms shall be minimum of 49" diameter, 26" wire filled, forward facing digger type for removing debris from gutter area.

_____ B. Gutter brooms to be direct hydraulic drive.

_____ C. Each gutter broom shall be hydraulically/pneumatically retractable for a travel width of 8 feet.

_____ D. Gutter brooms shall have in-cab control for pneumatic/hydraulic suspension for instant adjustment of broom down pressure. Pneumatic cylinders shall be 4" in diameter.

_____ E. Dual gutter broom sweeping path to be a minimum of 10 feet.

_____ F. Each gutter broom shall additionally incorporate an hydraulic/pneumatic actuated tilt capability of 27 degrees, remotely controlled from the operators

seat to allow instant adjustment for debris removal from deep gutters (such as those resulting from multiple overlays of blacktop).

_____ G. A center deflector shall be provided to direct debris thrown by the gutter brooms into the path of the main broom. The deflector shall be positioned under the sweeper and in between the gutter brooms. Deflector to raise and lower with the main broom and elevator.

_____ H. Dual gutter brooms shall have the ability of being pinned in the outer most position.

_____ I. Gutter brooms shall be hydraulically raised and lowered from the cab.

_____ K. Each gutter broom shall be equipped with led work lights for night operations.

_____ L. Gutter brooms to have separate switches for raise/lower and rotation functions.

Dust Control System

Compliance

_____ A. Water spray to be supplied by an electric diaphragm water pump. The water pump to produce a minimum of 100 PSI, with a minimum 5.88 gpm. The water pump to automatically disengage when the water supply is depleted.

_____ C. Water tank capacity shall not be less than 200 gallons on a conventional chassis. Water tank shall be constructed of polyethylene for strength and corrosion resistance.

_____ D. A minimum 25-foot long fire hydrant fill hose shall be provided with a 2.5" NST coupling to fill water tank. A 2" air gap shall be provided between water fill tube and water tank. Hydrant hose shall include a hydrant wrench and hose storage rack located behind right rear tire.

_____ E. Water system to be filtered by a 100-micron cleanable filter located between tank and water pump. For ease of cleaning, water filter to be at ground level.

_____ F. 3 each spray nozzles to be located each gutter broom.

_____ G. A spray bar shall be located at the main broom. Spray bar shall have 5 nozzles.

_____ H. A spray bar shall be located at the front bumper. Spray bar shall have 5 nozzles.

_____ I. Each water function shall have its own independent on/off cab controlled solenoid valve.

_____ J. An in-cab water level gauge shall warn operator when water supply is near depletion.

_____ K. The water system shall incorporate an air purge system for flushing water lines during freezing conditions.

_____ L. Water flow from the reservoir is controlled by a shut-off valve with an accessible water strainer. The reservoir is equipped with removable man hole covers for tank clean out.

Operating Controls

Compliance

_____ A. Sweeper shall be equipped with dual steering and controls for left or right hand operations. Center mounted steering or single steering is not acceptable.

_____ B. Console to have independent switches for operating left gutter, left gutter broom tilt, left gutter broom rotation, right gutter broom, right gutter broom tilt, right gutter broom rotation, main broom, elevator, forward/reverse rotation, and raise/lower. All switches to lighted and have international symbols for easy identification.

_____ C. Console to have water pump on/off switch. Independent water control switches for left gutter broom, right gutter broom, main broom spray bar, and front spray bar. All switches to be lighted and have international symbols for easy identification.

_____ D. Console to have independent switches for each gutter broom light, main broom lights, cab mounted strobe, and rear mounted strobe.

_____ E. Console to have warning light for low water level.

_____ F. Warning alarm and light shall be provided for elevator jam.

_____ G. All main electrical systems to be separately fused at control console by resettable circuit breakers.

Electrical System

Compliance

_____ A. All wires shall be number coded for ease of identification.

_____ B. Warning indicator shall be provided for hopper full, low hydraulic oil, and elevator jam. Warning indicators to be mounted on center console.

Safety Equipment

Compliance

_____ A. Sweeper to meet all federal motor vehicle safety standards. All Sweeper lighting must be LED.

_____ B. Sweeper shall be equipped with a rear mounted LED strobe light with limb guard. 4 Whelen Part # VTX609A amber lights across back lower portion of sweeper.

_____ C. Sweeper shall be equipped with a rear mounted traffic control bar. - LED.

_____ D. A hopper safety prop to be provided.

_____ E. The chassis park brake shall be applied to allow all hopper movements and be manually disengaged when hopper is lowered and stowed.

_____ F. Sweeper shall be equipped with backup alarm, cab-mounted fire extinguisher, Slow Moving Vehicle emblem, and a warning triangle kit.

_____ G. Sweeper shall have rear LED taillights and an integral 3rd, center, high mounted LED stoplight.

_____ H. For safety of operator, no sweeper hydraulic lines to run into or through the cab.

_____ I. Permanent warning labels shall be provided at all hazard areas.

Additional Equipment Required

(To be included in bid and be part of the basic quote)
Compliance

_____ A. 8" diameter parabolic mirrors must be provided and must be tripod mounted on chassis front fenders.

_____ B. Sweeper to have a permanently attached lubrication plaque. Lube plaque to graphically outline the lube points on sweeper, type of lubrication and the frequency of lubrication.

_____ C. Chassis and Sweeper to be installed with an automatic lubrication system (Vogel).

Paint Color

Compliance

_____ A. The sweeper shall be painted with 1 coat of sealer/primer and 2 coats of DuPont Imron 5000 polyurethane paint in the manufacturer's standard white color. Paint shall be lead free.

_____ B. Gutter brooms and sweeper frame to be painted a polyurethane textured semi-gloss Viper Red for long life. Paint code DuPont #B9247 or equal.

Delivery

Compliance

_____ A. 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 operations to make any adjustments needed and to give operator instruction on the proper operation of the sweeper.

_____ B. Bidder to state delivery date.

_____ C. The bidder shall supply a complete sweeper manual. Manual to include system/component descriptions, sweeper operation, maintenance, troubleshooting, illustrated parts listing