

CITY OF MASCOUTAH  
3 WEST MAIN  
MASCOUTAH ILLINOIS 62258

STREET SWEEPER  
BID SPECIFICATIONS

BIDS DUE: AUGUST 3, 2017, 10:00AM

The City of Mascoutah is seeking bids for the provision of a Street Sweeper and related components. Bid specification packets may be obtained from the City Manager's office at City Hall or downloaded at [www.mascoutah.org](http://www.mascoutah.org). Sealed bids will be accepted at the office of City Clerk, City of Mascoutah, 3 West Main Street, Mascoutah, IL 62258 until 10:00 a.m., Aug 3, 2017.

## **STREET SWEEPER BID SPECIFICATIONS**

### **Intent**

It is the intent of these specifications to describe a chassis for use with the regenerative air street sweeper. The chassis for this sweeper shall be a cab-over type chassis and is to be sufficiently rated to transport a full load of sweeping debris at speeds up to 65 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, 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).

The unit shall be new of current manufacture. No prototype, demo, used, vacuum type, or mechanical 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.

No deviations to these specifications will be allowed.

The City reserves the right to reject any or all bids and award the bid to the lowest responsible bidder.

**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

- \_\_\_\_\_ A. Engine shall be a heavy-duty water cooled EGR valve, in-line four cylinder, 16 valve, turbo-charged, inter-cooled diesel, direct injection and overhead cam, model 4HK1-TC.
- \_\_\_\_\_ B. Horsepower rating shall be 215 HP @ 2550 RPM. Torque rating shall be 452 LB/FT @ 1850 RPM. Displacement shall be a minimum of 317 cubic inches.
- \_\_\_\_\_ C. The air cleaner shall be a heavy-duty air cleaner with a air cleaner mounted restriction gauge. Dry paper element shall be 12.6" diameter.
- \_\_\_\_\_ D. Alternator shall be 140 Amps.
- \_\_\_\_\_ E. Two maintenance free batteries shall be provided with 750 CCA each.
- \_\_\_\_\_ F. Chassis engine shall share 30-gallon in-rail fuel tank and batteries with auxiliary engine. No exceptions.
- \_\_\_\_\_ G. Engine diesel particulate filter, muffler and diffuser shall be vertically mounted behind the cab.

## **TRANSMISSION**

- \_\_\_\_\_ A. Transmission shall be an Aisin A465 6-speed automatic with overdrive.
- \_\_\_\_\_ B. Shift lever shall be mounted in center of the cab so it can be reached from either driving position.

## **DUAL STEERING**

- \_\_\_\_\_ A. Chassis shall be equipped with dual steering.
- \_\_\_\_\_ B. Each driving position shall have a foot throttle, foot brake, turn signal and high/low beam switch and horn button.

## **FRONT AXLE & SUSPENSION**

- \_\_\_\_\_ A. Front axle shall be I-beam type with a capacity of 6,830 lbs.
- \_\_\_\_\_ B. Front suspension shall be semi-elliptical leaf springs with a capacity of 8,440 lbs.
- \_\_\_\_\_ C. Front suspension shall include shock absorbers and stabilizer bar.

**REAR AXLE & SUSPENSION**

- \_\_\_\_\_ A. Rear axle shall be single speed with a capacity of 14,550 lbs. with oil lubricated rear wheel bearings.
- \_\_\_\_\_ B. Rear suspension shall be semi-elliptical leaf springs with a capacity of 14,550 lbs.
- \_\_\_\_\_ C. Rear suspension shall include shock absorbers.
- \_\_\_\_\_ D. Rear axle ratio shall be 5.125:1

**BRAKE SYSTEM EQUIPMENT**

- \_\_\_\_\_ A. Brake system shall be 4 channel anti-lock, dual circuit, vacuum assisted hydraulic with EBD (Electronic Brake Distribution).
- \_\_\_\_\_ B. Front brakes shall be disc-type, non-asbestos semi-metallic linings.
- \_\_\_\_\_ C. Rear brakes shall be drum-type, non-asbestos linings.
- \_\_\_\_\_ D. Brakes shall be self-adjusting.
- \_\_\_\_\_ E. Parking brake shall be mechanical transmission mounted.
- \_\_\_\_\_ F. Chassis shall include a Butterfly valve type exhaust brake.

**FRAME & WHEELBASE**

- \_\_\_\_\_ A. Wheelbase shall be no longer than 153 inches. Sweepers that use longer wheelbases to accommodate toolboxes will not be accepted. No exceptions.
- \_\_\_\_\_ B. Frame shall be ladder-type channel frame full C-section straight frame 33.5 in. wide. Yield strength shall be minimum 44,000 psi. Section modulus to be minimum 7.2 cu. in. RBM shall be minimum 316,800 lb.-ft/in.
- \_\_\_\_\_ C. Turning radius to be no more than 46 feet (Curb to curb). No exceptions.
- \_\_\_\_\_ D. Cab to axle to be a maximum of 128 inches.
- \_\_\_\_\_ E. GVW to be a minimum of 17,950 lbs.

**TIRES & WHEELS**

- \_\_\_\_\_ A. Tires shall be 225/70R 19.5F radial tubeless all season tread 12 ply. No exceptions.
- \_\_\_\_\_ B. Rear axle shall have dual tires and wheels on each side of axle.

\_\_\_\_\_ C. Wheels shall be 19.5" X 6", 6-hole disc painted white.

### **CAB EXTERIOR**

\_\_\_\_\_ A. Cab shall be cabover type cab only. No conventional type chassis will be accepted.

\_\_\_\_\_ B. Chassis shall have dual west coast mirrors.

\_\_\_\_\_ C. Dual West coast style mirrors must be cab mounted with integral convex mirrors.

\_\_\_\_\_ D. Door windows shall roll down type. No sliding windows.

\_\_\_\_\_ E. Sweeper height shall not extend over 89" above ground (not including optional cab lighting).

### **CAB INTERIOR**

\_\_\_\_\_ A. Heater, defroster, and air conditioner shall be provided.

\_\_\_\_\_ B. Both seats shall be non-suspension seats with Tricot & Jersey knit combination cloth seat trim.

\_\_\_\_\_ C. Chassis shall be equipped with power windows and door locks.

\_\_\_\_\_ D. Three point seat belts shall be provided.

\_\_\_\_\_ E. Chassis shall have an AM/FM radio with CD player.

### **INSTRUMENTS & CONTROLS**

\_\_\_\_\_ A. Gauges shall consist of coolant temperature, fuel, and electronic speedometer with trip odometer. Chassis shall also have warning lights for oil and volts.

\_\_\_\_\_ B. Chassis shall be equipped with cruise control.

\_\_\_\_\_ C. Chassis shall have cigar lighter and ashtray.

\_\_\_\_\_ D. Chassis shall have two speed windshield wipers with interval feature and windshield washer.

### **PAINT COLOR**

\_\_\_\_\_ A. The chassis and wheels shall be painted white.

\_\_\_\_\_ B. Chassis frame shall be painted black.

**CHASSIS WARRANTY**

- \_\_\_\_\_ A. Basic chassis warranty shall be 3 years/unlimited miles.
- \_\_\_\_\_ B. Chassis engine warranty shall be 3 years/unlimited miles.
- \_\_\_\_\_ C. Transmission warranty shall be 3 year/unlimited miles.
- \_\_\_\_\_ D. Frame rails shall be 3 years/unlimited miles.
- \_\_\_\_\_ E. Engine emissions shall be 5 years 100,000 miles.
- \_\_\_\_\_ F. Corrosion (rust through) shall be 4 years/unlimited miles.

**DELIVERY**

- \_\_\_\_\_ A. The chassis shall be delivered completely assembled, serviced, and ready to operate.
- \_\_\_\_\_ B. Bidder shall state delivery date.
- \_\_\_\_\_ C. Bidder shall supply a chassis owner's manual.

## **INTENT**

It is the intent of these specifications to describe a regenerative air street sweeper with hydraulic drives, 4.8 cubic yard stainless steel hopper, and 80" wide pickup head. The head must be capable of sweeping in reverse with the head down without causing damage to the pickup head or its components. The unit must be equipped with vertical digger-type gutter brooms, pressurized dust control spray system and an independent engine to power the sweeping functions. The chassis for this sweeper is to be 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, 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, vacuum type, or mechanical 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.

No deviations to these specifications will be allowed.

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**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**

- \_\_\_\_\_ A. An auxiliary diesel engine shall be provided to power the sweeper. The engine shall be a four-cylinder, turbo-charged, with a horsepower rating of not less than 56.
- \_\_\_\_\_ B. Engine shall be equipped with a full-flow spin-on oil filter, fuel filter and fuel water separator.
- \_\_\_\_\_ C. Unit shall have a heavy-duty two-stage dry type air cleaner with a centrifugal pre-cleaner and air filter restriction indicator.
- \_\_\_\_\_ D. Engine shall be equipped with a 3-point safety engine shutdown device that shuts down the engine for low oil pressure, high coolant temperature, and low coolant level.
- \_\_\_\_\_ E. Injector pump shall have an electronic type variable speed governor for speed control of auxiliary engine RPM.
- \_\_\_\_\_ F. Twelve (12) volt electrical system, electric starter and 65 amp alternator shall be provided. Sweeper shall have resettable circuit breakers.
- \_\_\_\_\_ G. Sweeper auxiliary engine to share 30 gallon fuel tank and batteries with chassis engine. No exceptions.
- \_\_\_\_\_ H. Auxiliary engine, muffler, blower housing, fuel tank, battery box, and hydraulic tank and cooler shall be protected by a shroud.

## **HYDRAULIC SYSTEM**

- \_\_\_\_\_ A. Hydraulic power shall be used to operate all broom rotation and lifting functions of the sweeper. All functions shall operate independently of each other with their own in-cab controls to include separate controls for each gutter broom. Systems incorporating pneumatic-type controls will not be accepted.
- \_\_\_\_\_ B. Sweeper shall utilize a direct drive, gear driven hydraulic pump, minimum 16 gallon vented hydraulic reservoir with 100 mesh suction strainer, a spin-on 10 micron return filter, and high pressure hoses and fittings. Hydraulic reservoir to have tank mounted level and temperature indicator. Hydraulic reservoir to be mounted above hydraulic pump.
- \_\_\_\_\_ C. Hydraulic system shall have a 9,000 BTU oil to air radiator type hydraulic oil cooler.
- \_\_\_\_\_ D. Hydraulic tank shall have shut-off valves for hydraulic oil filter servicing.



- \_\_\_\_\_ E. Hydraulic pressure shall not exceed 2,250 PSI.
- \_\_\_\_\_ F. Hydraulic system shall have quick disconnect relief pressure check ports mounted in the hydraulic manifold.
- \_\_\_\_\_ G. For safety of the operator, no sweeper hydraulic lines shall run into or through the cab.
- \_\_\_\_\_ H. A 12-volt DC hydraulic backup system shall be provided which may be used to operate all hydraulic functions without starting the auxiliary engine.

### **DUST SEPARATOR**

- \_\_\_\_\_ A. Separation of the dirt and refuse from the air stream shall be accomplished within the hopper by means of a centrifugal dust separator. The dust separator shall be designed so that it will not plug with normally encountered debris.
- \_\_\_\_\_ B. The dust separator shall have a clean-out door that opens automatically and discharges debris from the separator when the hopper is raised to the dump position. The dust separator must be automatic self-emptying each time the hopper is dumped.
- \_\_\_\_\_ C. Dust separation filters will not be accepted due to them clogging, the cost of replacement, and cleaning.

### **HOPPER**

- \_\_\_\_\_ A. The volumetric capacity of the hopper shall not be less than 4.8 cubic yards and constructed of high strength stainless steel.
- \_\_\_\_\_ B. A heavy gauge stainless steel hopper screen of not less than 10 gauge shall be provided to allow air to move freely from the hopper into the centrifugal dust separator. Screen shall be bolt-in design for easy replacement.
- \_\_\_\_\_ C. Dumping shall be accomplished hydraulically by tilting the hopper a minimum of 88 degrees. Contents to be dumped to the rear of the vehicle at a height of 77 inches. Twin dumping cylinders to be used for tilting hopper. Tilting of hopper to be controlled from within the sweeper cab.
- \_\_\_\_\_ E. Hopper shall be airtight through the use of rubber seals on all doors and openings.
- \_\_\_\_\_ F. Hopper shall be constructed with a minimum of 10-gauge high strength stainless steel and be equipped with a bolt-in replaceable suction intake.
- \_\_\_\_\_ G. Sweepers that use a no tilt method of dumping hopper or use an inside of

hopper mechanical means of pushing debris out of the hopper will not be accepted.

- \_\_\_\_\_ H. Hopper shall have a bolt-on high strength stainless steel shroud enclosing the auxiliary engine, muffler, blower housing, fuel tank, battery box, and hydraulic tank and cooler. Shroud shall be designed to help protect components from the elements and vandals. Shroud shall also be designed to reduce auxiliary engine noise by having a minimum of 1" thick sound deadening material attached to the inside of shroud in the engine compartment area. Sound deadening material must consist of at least 28 square feet of material. Shroud must be part of the hopper and lift when the hopper is raised and be designed to give the sweeper a neat well thought out streamlined appearance. In the interest of sweeper protection, public safety, and sweeper noise reduction, sweepers that do not meet all of these requirements will not be accepted.
- \_\_\_\_\_ I. Sweeper shall include an load weight alarm and light to alert operator when hopper is full.
- \_\_\_\_\_ J. Hopper shall be equipped with a hopper deluge system with a 2" cam lock fitting to allow flushing with a hydrant.

## **BLOWER**

- \_\_\_\_\_ A. Heavy-duty steel blower shall be used to create air pressure and suction (regenerative air) for removing debris from road surface. Sweepers that clean road surface by using suction only (pure vacuum) will not be accepted.
- \_\_\_\_\_ B. Blower to be powered by the sweeper auxiliary engine via a heavy-duty 3v 8-groove belt. A belt safety guard shall be supplied.
- \_\_\_\_\_ C. Fan to be fully balanced within 1.5 grams on both sides for long fan and bearing life.
- \_\_\_\_\_ D. Blower shall have a rated performance of 40 inches of water and 12,000 CFM.
- \_\_\_\_\_ E. Must be Whisper Wheel equipped to provide a 360 degree average dB (a) rating of 72.0 or less at an unobstructed distance of 50 feet at 2000 engine RPM. Sound dampening material is required in the area of the auxiliary engine and blower to aid in soundproofing.
- \_\_\_\_\_ F. The blower housing shall be constructed of 10-gauge steel with the inside of the housing covered with a replaceable rubber liner.
- \_\_\_\_\_ G. Blower housing shall have a vacuum enhancer for discharging a portion of the blast air for sweeping light materials such as leaves and paper. The vacuum

enhancer shall be electrically powered by a DC actuator and controlled from a switch located on the control panel inside the cab. The vacuum enhancer to be capable of 0 - 80% air diversion for maximum control.

- \_\_\_\_\_ H. Blower housings shall not be an integral part of the hopper. Replacement of the blower housing must be possible without having to cut the housing from the hopper and having to re-weld a new housing into the hopper.
- \_\_\_\_\_ I. Blower shall be mounted on self-aligning sealed anti-friction bearings, blower shaft to have greaseable shaft bearings requiring a 1/4-ounce of grease every 250 hours to ensure maximum life expectancy. Non-regreaseable sealed bearings are unacceptable.
- \_\_\_\_\_ J. Blower bearings must have 2 remote grease fittings so that bearings can be greased from ground level

**PICKUP HEAD**

- \_\_\_\_\_ A. Pickup head shall be spring balanced all steel fabricated with separate upper and lower chambers where pressurized air is blasted from the upper chamber through an adjustable blast orifice to the lower chamber.
- \_\_\_\_\_ B. The pickup head shall not be less than 80 inches wide and 26 inches long giving a total head area of 2080 square inches.
- \_\_\_\_\_ C. Pressure and suction hoses shall be twelve inches in diameter and be constructed from 3/8-inch thick heavy-duty molded wire reinforced rubber.
- \_\_\_\_\_ D. Pressure and suction hose clamps shall allow removal and rotation of the hose without tools.
- \_\_\_\_\_ E. Sweeping paths shall be:  
  
Pickup head only = 80 inches  
  
Pickup head and one gutter broom = 100 inches  
  
Pickup head and two gutter brooms = 120 inches
- \_\_\_\_\_ F. Sweeper shall have Sweeps-in-Reverse which allows it to sweep in both forward and reverse with the head down without causing damage to the head or other components. NO EXCEPTIONS. Sweeping heads that are not designed to sweep-in-reverse and that require add-on devices such as chains added to the head to meet this requirement will not be considered. Sweeper must be able to sweep in reverse while making turns. For safety and liability purposes, no

sweeper will be accepted that automatically raises the sweeping head when the sweeper is placed in reverse. Sweeping head drag arms must be connected to the front of the sweeping head, not the middle.

- \_\_\_\_\_ G. Pickup head shall be equipped with doublewide full-length carbide drag shoes for maximum life. Front and rear of drag shoe to be snowshoe design to follow road contour without damage. Shoes shall be interchangeable from either the left or right side.
- \_\_\_\_\_ H. Drag shoes shall be warranted against wear-out for a minimum of two years/2000 hours, prorated.
- \_\_\_\_\_ I. Sweeping head shall be raised and lowered hydraulically by a single switch located in the cab.
- \_\_\_\_\_ J. Sweeping head shall be equipped with a deluge system. This system shall include a 2" cam lock fitting welded into the blast transition to allow flushing of the sweeping head from a hydrant.

#### **GUTTER BROOMS**

- \_\_\_\_\_ A. Dual gutter brooms shall be 39" minimum diameter, wire filled vertical digger type for removing debris from gutter area. Adjustable tilt gutter broom.
- \_\_\_\_\_ B. Gutter brooms shall be hydraulic motor driven and shall be positioned laterally and vertically by hydraulic cylinders.
- \_\_\_\_\_ C. Each gutter broom shall have an adjustment to allow downward compensation for bristle contact, pattern and wear and shall be free floating to follow street contour.
- \_\_\_\_\_ D. Each gutter broom shall have lateral flexibility to swing rearward 12" under the chassis when encountering the impact of an immovable object thus avoiding damage to the broom assembly.
- \_\_\_\_\_ E. Each gutter broom shall be held in the up and transit position by use of an electric lock valve attachment.
- \_\_\_\_\_ F. Upward motion of gutter broom to be regulated by an adjustable flow control valve.
- \_\_\_\_\_ G. Gutter broom disk shall be recessed to prevent such items as cassette tape, string, and small rope like material from being wrapped around and damaging the gutter broom motor. Disk to be designed as to allow water to drain off, therefore eliminating water damage to the gutter broom motor seals.

- \_\_\_\_\_ H. A center deflector shall be provided to direct debris thrown by the gutter brooms into the path of the pickup head. Deflector shall be positioned under the belly of the sweeper and in between the gutter brooms. Deflector to raise and lower with pick-up head.
- \_\_\_\_\_ I. Each gutter broom shall additionally incorporate an 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).
- \_\_\_\_\_ J. Each gutter broom shall have an electrically actuated Gutter Broom Extension Override (GEO) with in-cab controls to be able to extend and retract while in sweeping mode. This will allow the gutter brooms to scrub the pavement surface in front of the pickup head. All controls shall be in-cab. At no time shall the operator have to leave the cab to activate this function.
- \_\_\_\_\_ K. Each gutter broom motor shall have a heavy duty seal, seal slinger/protector and heavy duty bearing to extend life while operating in a debris filled environment.

**DUST CONTROL SYSTEM**

- \_\_\_\_\_ A. Water spray shall be supplied by a electrically driven diaphragm type water pump. The water pump to produce a minimum of 60 PSI with a minimum of 6.0 GPM. The water pump to automatically disengage when the water supply is depleted.
- \_\_\_\_\_ B. Water tank capacity shall not be less than 197 gallons and shall be constructed of polyethylene for strength and corrosion resistance. Shall be bolt-on design for easy removal.
- \_\_\_\_\_ C. No part of the water system shall be made with ferrous metal.
- \_\_\_\_\_ D. A minimum 25-foot long fire hydrant fill hose shall be provided with 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 area.
- \_\_\_\_\_ E. Water system to be filtered by a 50 mesh cleanable filter with restriction indicator located between tank and water pump.
- \_\_\_\_\_ F. Each water spray function shall have its own independent on/off cab controlled heavy duty agricultural solenoid valve. The solenoid shall be easily cleaned and equipped with a removable plunger.

- \_\_\_\_\_ G. An in-cab low water indicator light and audible alarm shall warn operator when water supply is near depletion.
- \_\_\_\_\_ H. Water spray nozzles shall be provided as follows: four nozzles at pickup head, four nozzles inside hopper, two nozzles at right gutter broom, two nozzles at left gutter broom and one nozzle in the suction intake.
- \_\_\_\_\_ I. The water system shall incorporate an air purge system for flushing water lines during freezing conditions.
- \_\_\_\_\_ J. Sweeper shall be equipped with a front spray bar with 7 nozzles. Spray bar to be mounted on front bumper.
- \_\_\_\_\_ K. Sweeper shall be equipped with a hopper spray bar with 4 nozzles for extreme conditions.

### **OPERATING CONTROLS**

- \_\_\_\_\_ A. Sweeper shall be equipped with Optional dual steering and controls for left or right hand operations. Center mounted steering or single steering is not acceptable.
- \_\_\_\_\_ B. Auxiliary engine control and gauges shall be mounted on an adjustable position control console inside the cab. They shall consist of: keyed ignition, electronic throttle control, leaf bleeder control, oil pressure gauge, water temperature gauge, voltmeter, tachometer, and hour meter. Engine power, fuel status and fault codes shall be displayed. All gauges to be lighted.
- \_\_\_\_\_ C. Console shall have independent switches for operating left gutter broom, tilt and GEO, right gutter broom, tilt and GEO, and pickup head. All switches to be lighted and have international symbols for easy identification.
- \_\_\_\_\_ D. Console shall have water pump on switch and low water level warning light. Independent water control switches for left gutter broom, right gutter broom, pickup head, hopper, and water nozzles at front axles. All switches shall be lighted and have international symbols for easy identification.
- \_\_\_\_\_ E. Console shall have independent switches for each gutter broom light.
- \_\_\_\_\_ F. All sweeper main electrical systems to be separately fused at the control console by resettable circuit breakers.

## **HAND HOSE EQUIPMENT**

- \_\_\_\_\_ A. Sweeper shall have auxiliary hand hose for cleaning remote areas inaccessible to the sweeping head and for cleaning out catch basins.
- \_\_\_\_\_ B. Hand hose shall be minimum 6" in diameter with an aluminum collection nozzle and an extra 4 ft. on hose.
- \_\_\_\_\_ C. Hand hose shall not have to be taken out of a storage compartment and assembled on site to use. Hand hose shall be stored on the sweeper at the location in which it will be used.
- \_\_\_\_\_ D. A block off plate shall be provided.

## **SAFETY EQUIPMENT**

- \_\_\_\_\_ A. Sweeper shall meet all federal motor vehicle safety standards.
- \_\_\_\_\_ B. Sweeper shall be equipped with an LED cab-mounted strobe with limb guard with in-cab controls.
- \_\_\_\_\_ C. Sweeper shall include two hopper safety struts that lock hopper in the raised position such as during maintenance.
- \_\_\_\_\_ D. The sweeper shall have two LED lower stoplights mounted into the rear bumper. The sweeper to also have a third, center positioned high mounted LED stoplight.
- \_\_\_\_\_ E. Each gutter broom must have an LED flood light for night visibility when operating gutter brooms.
- \_\_\_\_\_ F. Sweeper shall be equipped with backup alarm, cab mounted 5 lb. fire extinguisher, and a boxed warning triangle kit.
- \_\_\_\_\_ G. Permanent warning decals shall be provided at all hazard areas.
- \_\_\_\_\_ H. Sweeper shall be equipped with dual camera system with rear view and sweeping head view combined with a 7" cab-mounted color flat screen monitor with sound. System capable of night vision with auto dimming monitor. Capable of continuous viewing or activated when chassis is shifted into reverse.

**ACCESSORIES**

- \_\_\_\_\_ A. Sweeper to have two toolboxes complete with lockable doors. Toolboxes to be located on either side of sweeper's rear fenders. Tool boxes to be a total of 35 Cu. Ft. The interior wall of each toolbox shall have connecting tubes for storage of long items such as brooms and rakes.
- \_\_\_\_\_ B. Sweeper must have a full width steel rear bumper mounted to frame.
- \_\_\_\_\_ C. 12" chrome cab mounted parabolic mirrors shall be provided to aid operator in observing gutter brooms. They shall be mounted below the west coast mirrors on chassis doors.

**PAINT COLOR**

- \_\_\_\_\_ A. The sweeper shall be painted with 1 coat of sealer/primer and 2 coats of DuPont Imron Elite polyurethane paint in the manufacturer's standard white color.
- \_\_\_\_\_ B. Gutter brooms, pickup head, sweeper and truck frame shall be painted black.

**EQUIPED ACCESSORIES**

- \_\_\_\_\_ A. Air purge, dust control system
- \_\_\_\_\_ B. Auto Sweep Interrupt
- \_\_\_\_\_ C. Auxiliary fuse panel
- \_\_\_\_\_ D. Auxiliary hand hose 6 in dia.
- \_\_\_\_\_ E. Cabover dual steering
- \_\_\_\_\_ F. Camera/monitor system
- \_\_\_\_\_ G. Gutter broom variable speed
- \_\_\_\_\_ H. Gutter broom drop-down
- \_\_\_\_\_ I. High output water system
- \_\_\_\_\_ J. Hi/Low pressure wash down system
- \_\_\_\_\_ K. Hopper drain system
- \_\_\_\_\_ L. Hopper deluge system
- \_\_\_\_\_ M. Light bar, cab mounted, LED



- \_\_\_\_\_ N. Linear actuator – pressure bleeder with guage
- \_\_\_\_\_ O. Pick-up head curtain lifter
- \_\_\_\_\_ P. Sound Reduction Engineering (SRE)
- \_\_\_\_\_ Q. Stainless steel – hopper weldment, door,screen,inspection door, skimmer hood, suction inlet tube
- \_\_\_\_\_ R. Stainless steel blower housing
- \_\_\_\_\_ S. Stainless steel dust separator
- \_\_\_\_\_ T. Stainless steel hopper drain
- \_\_\_\_\_ U. Stainless steel hopper inspection door
- \_\_\_\_\_ V. Stainless steel hopper screen
- \_\_\_\_\_ W. Stainless steel auxiliary hand hose hardware
- \_\_\_\_\_ X. Retractable washdown hose reel 50 ft

**SWEEPER WARRANTY**

- \_\_\_\_\_ A. Per manufactures published warranty, sweeper shall be warranted to be free of defective materials and workmanship for a period of 12 months or 1,200 hours from date of delivery. No exceptions.
- \_\_\_\_\_ B. Sweeper auxiliary engine shall be warranted for not less than 24 months or 2000 hours, whichever occurs first from date of delivery.
- \_\_\_\_\_ C. Sweeper hydraulic pumps and fittings shall be warranted for not less than 60 months or 6000 hours, whichever occurs first from date of delivery. Sweeper hydraulic motors and valves shall be warranted for not less than 24 months or 2400 hours, whichever comes first from date of delivery.

**DELIVERY**

- \_\_\_\_\_ A. The unit shall be delivered completely assembled, serviced, and ready to operate. The successful bidder shall have a qualified service representative in attendance with the sweeper during startup operations to make any adjustments needed and to give operator instruction on the proper operation and care of the sweeper.
- \_\_\_\_\_ B. Bidder shall 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 with part numbers, and schematics for the sweeper. Shall also include reproducible periodic maintenance schedules.
  
- \_\_\_\_\_ D. Auxiliary engine manuals shall be provided. They shall consist of operations & maintenance, maintenance schedules, component technical manual, and an illustrated parts catalog.

## **TRADE-IN**

The City desires to trade-in current street sweeper with purchase of new street sweeper.

- 2001 Elgin Model Pelican 3-Wheel Mechanical Street Sweeper
- 11,833 miles
- 2,857 hours
- Purchased new on July 10, 2001

Please include trade-in value on bid sheet.

Bidders may contact Marvin McLemore at (618) 779-5458 for more information regarding the 2001 Street Sweeper and to view the machine.

**BIDDER INFORMATION**  
**STREET SWEEPER BID**  
CITY OF MASCOUTAH  
3 WEST MAIN STREET  
MASCOUTAH, IL 62258

BID DATE: 10:00 AM, August 3, 2017

BIDDERS NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

CITY, STATE: \_\_\_\_\_

PHONE: \_\_\_\_\_

BASE BID AMOUNT: \_\_\_\_\_

TRADE-IN VALUE: \_\_\_\_\_  
(2001 Elgin Model Pelican 3-wheel Mechanical Street Sweeper)

**TOTAL BID AMOUNT:** \_\_\_\_\_

WARRANTY: \_\_\_\_\_

ESTIMATED DELIVERY DATE: \_\_\_\_\_

\_\_\_\_\_  
By:

\_\_\_\_\_  
Title: