

EXHIBIT A

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City of Laurel, Mississippi
"Street Sweeper"
Bid Form

Bid Opening Date: **Thursday, January 08, 2026 at 10:00 A.M.**

Submit Bid To: City of Laurel, Mississippi
Office of City Clerk
Post Office Box 647
Laurel, MS 39441

I/We the undersigned submit the following bid for a new Street Sweeper.

Year/ Make/ Model 2026 TYMCO 600 ON 2027 FREIGHTLINER M2-106

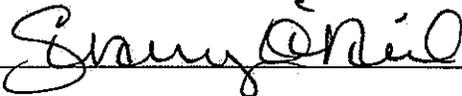
Description STREET SWEEPER WITH STAINLESS STEEL HOPPER ON DUAL STEER CHASSIS

Bid Purchase Price in Words

Bid Price Three Hundred Twenty-Eight Thousand,
Nine Hundred Twenty-Five & ⁰⁰/₁₀₀ Dollars

\$328,925.⁰⁰

Delivery Date Approximately 210 days after
receipt of Purchase order

Signed 

Company INGRAM EQUIPMENT CO., LLC

Name/Title Sherry O'Neil, Sales Coordinator

Address 11 Monroe Drive, Pelham, AL 35124

Telephone 800-749-2783 Fax 205-663-4816

Email Address soneil@ingramequipment.net



Ingram Equipment Company

11 Monroe Drive Pelham, AL 35124
 400 Dupree Street Tallahassee, FL 32304
 1596 S. Bethel Road Unit A Priceville, AL 35603
 8559 Bellingrath Road Theodore, AL 36582
 704 Murray Road Dothan, AL 36303
 1311 Industrial Park Road Columbus, MS 39701
 Phone: (205) 663-3946
 www.ingramequipment.net

Ship To: CITY OF LAUREL
 2504 MOOSE DR
 LAUREL, MS 39440-3737

Branch 01 - PELHAM		
Date 01/05/2026	Time 11:18:16 (O)	Page 1
Account No LAURE001	Phone No 6014286445	Est No 01 Q02636
Ship Via	Purchase Order	
Tax ID No	DUE AT DELIVERY	
Jason G. Horne		Salesperson JGH

Invoice To: CITY OF LAUREL
 FINANCE DEPARTMENT
 P.O. BOX 647
 LAUREL MS 39441

EQUIPMENT ESTIMATE - NOT AN INVOICE

Description **** Q U O T E **** EXPIRY DATE: 02/07/2026 Amount

New TYMCO 600SS SWEEPER ON FREIGHTLINER
 TYMCO 600 STREET SWEEPER
 DUAL GUTTER BROOMS
 RH & LH GUTTERBROOM TILT ADJUSTER
 AUXILIARY HYDRAULIC SYSTEM
 SWEEPER DELUGE
 HI/LOW PRESSURE WASHDOWN (Incl. CAT 290 water pump)
 HIGH CAPACITY WATER (HIGH OUTPUT)
 REVERSE PICKUP HEAD CHAINS
 PICKUP HEAD CURTAIN LIFTER
 DUMP SWITCH IN CAB
 HYDRANT WRENCH
 VARIABLE SPEED GUTTER BROOM
 AIR PURGE
 STAINLESS STEEL HOPPER
 AUTO SWEEP ASSIST
 DUAL CAMERA SYSTEM - REAR AND PICKUP HEAD
 PAINT: WHITE
 -
 2027 FREIGHTLINER M2-106 - DUAL STEER
 FRONT TOW HOOKS
 ENGINE BLOCK HEATER
 5YR/150K MILE ENGINE & AT WARRANTY
 PAINT: WHITE

Sale Total: 326165.00

Miscellaneous Charges/Credits
 =====

FREIGHT CHARGE Qty: 1 Price: 2760.00 2760.00

Subtotal: 328925.00

Quote Total: 328925.00

Authorization: _____

Thank You For Your Business!

**CITY OF LAUREL, MISSISSIPPI
 BID SPECIFICATION**

*Diesel Powered 7.3 Cubic Yard Volumetric Capacity
 Municipal Street Sweeper*

**BIDDER SHALL COMPLETE BY CHECKING THE FOLLOWING.
 IF NOT COMPLIANT, STATE SPECIFICALLY ITEM BEING OFFERED.**

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 ten (10) years. Bidder shall provide a list of 5 customers currently using the model. 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 startup 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 regenerative air sweeper mounted on a truck chassis capable of highway speeds.

COMPLIANCE TO SPECIFICATIONS

The bidder shall indicate their 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 EXCEPTIONS to these specifications must be clearly cited in writing and attached on a separate sheet of paper by the bidder. No deviations below "minimum" or above "maximum" specifications will be accepted.

	YES	NO	OFFERED
POWER UNIT			
The Sweeper power unit is a diesel fueled, water-cooled, turbocharged Electronic Final Tier 4 emissions PWL 4.5L industrial engine	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
99 HP @ 2200 RPM and 315ft. lbs. torque @ 1600 RPM	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
4 cycle, 4.2" bore and 5.00" stroke.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Wet sleeve type engine.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Radiator fan, auxiliary drive and engine mounted exhaust filter	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Spin on replacement oil filter – remote mounted	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Fuel/water separator and fuel filter remote mounted with water-in-fuel monitoring (in cab display)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____

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	YES	NO	OFFERED
12 Volt ignition, electric starter and minimum 90 amp alternator Engine electronics use ECU module and CAN SAE J1939 data link for communication	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Engine ECU programmable to provide automatic engine monitoring and shutdown when engine problem is detected such as high coolant temperature, low coolant level, or low oil pressure.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
All engine controls located inside cab	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
51 Gallon fuel tank and batteries shared with chassis engine	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Heavy-duty dry type air cleaner with replaceable PowerCore element, safety element, scavenge vacuum hose, and integral precleaner	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Air cleaner restriction displayed to operator from control panel; including air cleaner restriction percentage and filter service warning	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Engine programmed for isochronous governor feature for engine speed control	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Heat exchanger assembly provides adequate cooling for 3 different systems: engine coolant system, engine intake charge air, and hydraulic system oil. Modular design with each cooler located side by side. Air circulated through the heat exchanger assembly by an engine mounted fan.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
5.4 Gallon (volumetric), 3.8 gallon (useable), left rear mounted DEF tank supplies diesel exhaust fluid to SCR system.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
DUST SEPARATOR			
Separation of the dirt and refuse from the air stream is accomplished within the hopper by means of a multi-pass cylindrical centrifugal single chamber dust separator (20" diameter and 61" width). The separator is designed so that it will not plug with normally encountered debris.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
The dust separator is equipped with a 24" x 61" curved, easy to open door allowing inspection and cleaning of the interior. The door has an abrasion resistant bonded rubber lining material for long life.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
The entire dust separator inlet area is lined with a bolt-in replaceable, wear resistant rubber liner for long life.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
A 61" x 84" 13 gauge steel screen is provided to allow air to move freely from the hopper into the centrifugal dust separator.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____

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HOPPER			
Hopper size: seven and three tenths (7.3) cubic yard volumetric measurement with an operating load capacity of not less than 6 cubic yards.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Dumping is accomplished by means of hydraulically actuated cylinders attached to a rear door (84" x 44") with a raker bar moving inside hopper as door is opened and closed to dump debris behind the rear wheels.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Hydraulic cylinder movement is controlled with the use of an electric toggle switch located on the side of the hopper so discharging of debris may be viewed during dumping for maximum safety.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
The hopper floor: 22-degree slope.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Hopper door: Opened and closed hydraulically and held in the closed position by means of a lock valve located in the hydraulic dump circuit.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
A 9.75" x 29" inspection door on both left and right side of the hopper	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Rubber seals on all doors and openings.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Hopper suction inlet roof area has a bolt on replaceable wear resistant liner 3/8"x11"x10'.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
An amber LED high beacon light with protective limb guard	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Two (2) work lights at the rear of the hopper to illuminate the dump area	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Two (2) amber LED flashing warning lights mounted at the rear of the hopper.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
For maximum corrosion resistance, all interior and exterior hopper sheet surfaces to be fabricated with an industrial grade, non-magnetic low carbon, high chromium stainless steel. The hopper, hopper door, inspection doors, raker plate, high-capacity dust separator, and screen assemblies are made of stainless steel and included.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Sweeper deluge system: high volume system mounted in the hopper with a water fill hose quick coupler for connection to a fire hydrant. Deluge ports on pickup head pressure inlet, BAH broom chamber. Connects to fire hydrant to plush pickup head and includes 6" cleanout port. (includes hydrant wrench)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
HYDRAULIC SYSTEM			
25 gallon reservoir, sight gauge, temperature gauge	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____

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80 mesh suction strainer	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Engine mounted, gear driven by the auxiliary engine.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
2500 PSI for gutter brooms and 1500 PSI for pick-up head and dump door.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Auxiliary hydraulic system to electrically operate the hydraulic system without auxiliary engine running.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
BLOWER			
Heavy-duty die cast, wear resistant high strength aluminum alloy turbine type open face blower balanced within 4 grams to create air pressure and suction.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Blower wheel is covered with wear resistant rubber.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Blower is mounted on self-aligning antifriction bearings, sealed and lubricated.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Driven from PTO off auxiliary engine by heavy-duty power belt, which is adjustable for tension.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Blower housing: Bolt on design and lined with a bolt-in wear resistant, replaceable rubber liner	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
PICK-UP HEAD			
Pick-Up Head: Spring balanced all steel fabricated 87" x 41" I.D.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Separate upper and lower chamber where pressurized air is blasted from upper chamber through an elongated blast orifice to street surface.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Blast orifice flange: Bolt-on design so that flange is easily replaced and has slots so that blast orifice gap is easily adjusted without removing pick-up head from sweeper.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
14" diameter pressure inlet ring located on left side of pick-up head.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
14" diameter pressure hose attached between pick-up head and blower housing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Bolt-on pressure inlet ring with turning vanes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
14" diameter suction hose, attached to a quick disconnect transition at the hopper, extends down to the right side of the pick-up head and attaches to the pick-up head suction nozzle ring that is constructed of 1/4" steel.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Suction hose: 3/8" wall construction	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____

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2" wide adjustable side mounted integral alloy steel and carbide runners	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Skid runners are warranted for 2 years/2,000 hours prorated.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Side plates have a height adjustment of 4" at the blast orifice.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Pick-up head is raised and lowered hydraulically by a single switch on the control panel.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Pressure inlet ring is equipped with an adjustable pressure relief for optimum leaf and light debris sweeping; control is mounted inside cab.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
A curtain lifter with a hydraulic actuated and retractable roller assembly that provides the pick-up head with the ability to sweep large volume of light debris. Electronic cab control included.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
The pickup head is equipped with chains in order to prevent damage when unit is in reverse.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
GUTTER BROOM(S)			
Dual gutter brooms: 43" diameter, wire filled vertical digger type	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Hydraulic motor driven and positioned laterally and vertically by one hydraulic cylinder.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Down pressure is automatically adjusted to load by a pressure sensing sequence valve inline with gutter broom torque motor.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Adjustment for bristle contact pattern and wear.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Lateral flexibility to swing rearward 15" under truck chassis when encountering the impact of an immovable object thus avoiding damage to the broom assembly.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Spring adjustment to allow downward compensation for bristle wear and free floating to follow street contour.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Gutter brooms are held in the up and transit position by use of an electric lock valve attachment. Upward motion of gutter broom is regulated by an adjustable flow control valve.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Each gutter broom is controlled from inside the cab by a single electric toggle switch.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____

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The left and right gutter brooms includes 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).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Cab mounted controls for both left and right broom speed (variable speed)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
DUST CONTROL WATER SYSTEM			
Water tank: 220-gallon capacity, constructed of recyclable polyethylene Tank shall be 100% rustproof. Bolt-in design for easy removal and shall include a water level sight gauge.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Water from tank is filtered by 80 mesh cleanable filter located between tank and water pump.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
12V electric motor driven pump delivering minimum of 5.0 GPM with a 25 PSI system with an electronic solid state liquid level sensor to automatically shut off pump and turn on low water warning lamp when water is depleted	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Electric solenoid water control valves are cab controlled. Spray system includes spray nozzles located as follows: 4 on outside of pick-up head; 2 for each gutter broom; 1 inside hopper. Water nozzles are located on outside of pick-up head and suction tube for easy inspection and superior dust control.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Water tank has an anti-siphon/anti-pressure filler neck with air gap.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Water fill hose: Flexible 20 foot with 2½" coupling with hose storage rack. Water fill hose includes a stainless 100 mesh cleanable filter. Hydrant wrench to be included	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
An air purge system is included to purge the dust control system of water to prevent damage during freezing conditions.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Hi/low pressure washdown system: self-contained water supply; high pressure, low volume wash down hose, ¼" x 20' (includes CAT 290 water pump, spray gun with trigger control and (2) 36" interchangeable lance lengths.)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
OPERATING CONTROLS			
The sweeper electronic control platform shall be CAN controlled utilizing a multiplex control system.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
The multiplex control system shall be equipped with a multiplex module with diagnostic LED indicators for all Inputs and Outputs as well as network and power LEDs to assist in troubleshooting.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____

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The multiplex module shall be equipped with overcurrent protection for all outputs.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
All module inputs and outputs as well as network and power status shall be accessible through the in-cab display.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
All operating controls for sweeper shall be mounted inside truck cab and readily accessible to the operator.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
All main sweeping functions shall be multiplexed with LED diagnostics and integral solid-state circuit protection to reduce overall wiring and enhance operator feedback.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
In-cab controls shall consist of, but are not limited to, gutter brooms, pick-up head, engine throttle, water system, water system nozzles, dump door, and work lights.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Dump control shall also include a single weatherproof toggle located on the exterior of sweeper on the blower side on the hopper, mid-ship.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Auxiliary engine controls shall be mounted on control console.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
A 5.7 inch viewable (minimum) multi-function, high resolution, LCD, color touchscreen display shall be pedestal mounted to display gauges consisting of, but not limited to engine RPM, engine oil pressure, engine temperature, battery voltage, and instantaneous fuel rate.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
For sweeper on board diagnostics (OBD), the in-cab display shall provide detailed text descriptions of sweeper faults as well as provide input/output status and stored output faults.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
For auxiliary engine OBD, the in-cab display shall provide a detailed message about auxiliary engine faults providing SPN, FMI, and a text description of the fault at minimum.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
The display shall provide a visual indicator icon for the following: Pick-up head down, dust suppression water pump, low water, water system winterization.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
The in-cab sweeper display shall incorporate resettable and non-resettable hour meters for the auxiliary engine; left and right gutter brooms; pick-up head; water pump; and blower for collecting data about sweeping route performance and maintenance.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
The in-cab sweeper display shall incorporate resettable sweeper and auxiliary engine service timers, which will trigger service reminders for engine oil, engine air filter, fuel filters, hydraulic filter, hydraulic oil.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____

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The in-cab display shall include a minimum five (5) User-defined custom reminders	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
A minimum of three (3) custom reminders shall be timed by hours	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
A minimum of two (2) custom reminders shall be timed by days.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
The in-cab display shall include a sweeper odometer that is active when the pick-up head is down and the auxiliary engine is above idle.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
The sweeper odometer shall include a non-resettable odometer and resettable odometer, hour meter, and average sweeping speed.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
The in-cab display shall log the following events by date, time, event title, and engine hours: hour meters resets, custom reminders resets, service reminders, service hour meter reset, overspeed events, hydraulic oil alerts, engine faults, sweeper output faults, sweeper odometer resets, winterization and de-winterization events, and fuel usage statistics resets.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Overspeed warning system shall be equipped to alert the operator when sweeping at an excessive speed and can be adjusted from 5-20 mph with a PIN code.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
The in-cab display shall include fuel usage statistics for the auxiliary engine which displays trip fuel usage, fuel trip hours, average fuel economy, and instantaneous fuel rate.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
The in-cab display shall include an on-screen guide for winterization procedures specific to the dust control system equipment. The display shall tag the system as winterized once the guide has been completed and will remove the winterized tag once the system senses water.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Audible alarms and visual indicators shall include, but are not limited to indications of the following: low dust control water, exceeding maximum recommended sweeping speed, auxiliary engine fault codes and derates such as low coolant or high engine temperature, and sweeper output faults such as low voltage.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
All main electrical systems, i.e. ignition, lights, hydraulic, etc. shall be separately fused to isolate electrical problems to fused area and speed service.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
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).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____

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<p>Auto Sweep Assist (ASA) shall be furnished. It is a system designed with five preset sweep modes including: Light, Normal, Heavy, Leaves, and Brooms In. A 6th mode is available for user configuration. Depending on the options available on the sweeper, each mode defines the condition for: blower speed (or engine speed), broom speed*, leaf pressure bleeder position*, curtain lifter*, warning lights, broom position*, BAH*, screen vibrator*, pressure inlet water injection*, and up to 10* water solenoids. The setting for each item as well as the name of the mode can be changed by the user. Several ASA features shall be configurable and be enabled/disabled through the control system display and be PIN protected including:</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
<p>ASA Auto/Manual: Selecting "Auto" enables the ASA System to include sweep modes and automatically interrupt sweeping when shifting into reverse or pressing the reset switch. "Manual" mode disables all functions of the ASA, except low water interrupt. (Included with ASA.)</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
<p>Overspeed Interrupt, when enabled, allows for a two-stage process to prevent sweeping at excessive speeds by warning the operator at a set PIN-code protected configurable speed and then by activating ASA at a set configurable speed. From 5-20 mph the operator will receive a warning and at 8-25 mph the Auto Sweep Assist will engage depending on ranges set. (Included with ASA.)</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
<p>Interrupt Warning Below Max: When the operator approaches the maximum recommended sweeping speed, the system will sound an audible alarm and instruct the operator to slow down. This allows the operator the opportunity to adjust the operating speed and prevent activation of the ASA overspeed interrupt.</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
<p>ASA Head Operation: The setting adjusts control of raising the pick-up head when the sweep functions are interrupted.(Included with ASA.)</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
<p>Low Water Interrupt: The ASA system can be configured to interrupt sweeping when the dust suppression water tank is depleted. (Included with ASA.)</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
<p>Forced Water: If a water zone is set to "Forced" the designated water solenoid will be turned on any time the sweep mode is active. (Included with ASA.)</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
<p>Dump Switch In-cab is located on the control panel to activate dump operation from inside cab.</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____

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	YES	NO	OFFERED
PAINT COLOR			
The entire unit is painted with manufacturers' standard white paint applied over a suitable primer. Pick-up head, gutter brooms and truck frame are painted black.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
CAMERAS			
The unit will be equipped with a dual camera system with rear and pickup head views.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
CHASSIS			
GENERAL			
Chassis/cab shall be conventional with a tilt hood. Frame to be straight full channel steel rails (80,000 PSI). Gross vehicle weight rating to be not less than 31,000 lbs. Curb weight with cab, fuel, water, oil and tires shall be approximately 9,300 lbs. Standard truck cab enclosed and equipped with safety glass all around and two individual, adjustable, high back air seats with lumbar support and safety orange seat belts.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
WARRANTY			
Base vehicle coverage is 24 months/unlimited mileage.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Engine (diesel) coverage is 60 months/150,000 miles.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Drive train coverage is 24 months/unlimited mileage.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Allison transmission coverage is 36 months/unlimited mileage.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Frame coverage is 60 months/unlimited mileage.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Cab corrosion coverage is 60 months/unlimited mileage.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
WHEELBASE			
Chassis shall have a maximum wheelbase of 165".	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Special frame drilling.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
AXLES			
Front axle to be minimum of 10,000 lbs. with taper-leaf suspension of 10,000 lbs.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____

**CITY OF LAUREL, MISSISSIPPI
 BID SPECIFICATION**

*Diesel Powered 7.3 Cubic Yard Volumetric Capacity
 Municipal Street Sweeper*

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	YES	NO	OFFERED
Rear axle shall be 21,000 lbs. single speed with a ratio of 6.43, suspension to be minimum of 31,000 lbs. vari-rate with 4,500 lbs. capacity multi-leaf auxiliary rubber spring.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
STEERING			
Dual operator controlled integral power steering with cruise control, tilt and dual gauge package.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Diameter of steering wheel will be minimum 18".	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
BRAKES			
Service brakes to be full air with 18.7 cfm air compressor.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Air tank drain valve, manual with pull cable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Front brakes Q-Plus shall be 15" x 4" and have front shock absorbers.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Rear brakes Q-Plus shall be 16½" x 7" with dust shields.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Shall have automatic slack adjusters front and rear.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Parking brakes shall be spring actuated, double diaphragm, 30" MGM Chambers air chambers, with warning light.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Brake chambers, spring relocated to rear of rear axle for maximum ground clearance.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
4-Channel anti-lock brake system shall be provided.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
An air dryer with heater shall be furnished.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
CAB			
Cab shall have in-dash chassis manufacturer's factory installed air conditioner for operator comfort with a fresh air filter.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Cab to have individual driver and passenger air, high back adjustable seats with cloth inserts and lumbar supports.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
External grab handles on the left and right side with standard interior grab handles shall be provided.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____

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Dual sun visors, coat hook, storage pocket on driver door, 12V receptacle, electric horn, electric windshield washer and 2 speed electric wipers with intermittent wiper switch shall be provided.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Chassis shall be equipped with fresh air heater, defroster, dual 7" x 16" remote controlled heated electric powered mirrors, and two separate 10.5" diameter parabolic mirrors.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
AM/FM stereo radio with clock and auxiliary input shall be provided.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Chassis Hour Meter shall record truck engine hour operation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Power windows and door locks shall be provided.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Front tow hooks shall be front bumper mounted.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
ELECTRICAL			
Shall consist of two, multiple beam headlights with dash beam indicator, daytime running lights, instrument panel, taillights, stop lights, front and rear turn signals, self-canceling signal switch, equipped for four way flashing. Taillights, stop lights and signal lamps may be in combination.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Shall have two 12volt (1900 CCA total) maintenance free batteries.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Shall have a 160 amp alternator.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
LED stop/turn/tail and clearance lights and markers	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
ENGINE/EXHAUST			
Shall be in-line six cylinder turbocharged and air-to-air intercooled diesel with a minimum 200 HP at 2400 RPM, 6.7L, 520 lb./ft. torque @ 1600 RPM.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Horizontal aftertreatment device, right frame mounted. Includes single horizontal tail pipe.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Dry type single element air cleaner with restriction indicator in cab and safety element.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Automatic glow plug with indicator light shall be supplied.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Automatic shutdown/over temperature protection engine coolant.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
A 6 gallon, DEF tank shall supply diesel exhaust fluid to Selective Catalytic Reduction (SCR) system.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____

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	YES	NO	OFFERED
Engine block heater shall be provided for starting the engine in cold weather.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
FUEL			
A 51 gallon tank shall be supplied and shall supply fuel to both engines.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
TIRES AND WHEELS			
Heavy duty first line quality tubeless tires to be minimum 11R x 22.5, L/R G rating with duals in rear for adequately carrying full load of sweeper and maximum stability.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Wheels to be 10 hole disc 22.5 x 8.25 DC.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
TRANSMISSION			
Shall be heavy duty Allison 2500 RDS electronic, six-speed, automatic, with external oil filter.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
A transmission temperature gauge shall be supplied.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Synthetic transmission oil shall be supplied.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____



About River City Hydraulics (RCH)

River City Hydraulics has been in business since 1982, serving Mississippi, Arkansas, Louisiana, Tennessee, and Oklahoma through four physical locations. RCH is a recognized leader in the Refuse, Sweeping, and Sewer industries.

We provide mobile service technicians who can be dispatched at any time in the event of equipment breakdown or failure. RCH stands behind the equipment we sell and is committed to delivering the best after-sale service in the industry.

Bucher R65 Regenerative Air Sweeper Bid

River City Hydraulics is submitting a bid for the **Bucher R65 Regenerative Air Sweeper** at a price of **\$325,000**.

Key features and benefits include:

- **8.5 cubic yard hopper** constructed of stainless steel and backed by a **lifetime warranty**
- **Innovative single-engine design**, powered entirely by the chassis engine
 - Eliminates the need for a separate auxiliary power unit
 - Reduces maintenance requirements
 - Lowers overall cost of ownership
 - Increases operational efficiency
- **93-inch pickup head width** for superior debris collection
- **Maximum sweeping width of 12 feet** with both gutter brooms deployed
- **Standard manufacturer's warranty of 2 years or 2,000 operating hours**

List of 5 Current Users:

Arkansas Department of Transportation (ARDOT), Louisiana Department of Transportation (LDOT), City of Eunice, LA, City of Natchitoches, LA, City of Shreveport, LA

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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 ten (10) years. Bidder shall provide a list of 5 customers currently using the model. 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 startup 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 regenerative air sweeper mounted on a truck chassis capable of highway speeds.

COMPLIANCE TO SPECIFICATIONS

The bidder shall indicate their 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 **EXCEPTIONS** to these specifications must be clearly cited in writing and attached on a separate sheet of paper by the bidder. No deviations below "minimum" or above "maximum" specifications will be accepted.

	YES	NO	OFFERED
POWER UNIT			
The Sweeper power unit is a diesel fueled, water-cooled, turbocharged Electronic Final Tier 4 emissions PWL 4.5L industrial engine	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>No Seperate power unit, single engine runs off chassis engine</u>
99 HP @ 2200 RPM and 315ft. lbs. torque @ 1600 RPM	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>300 HP</u>
4 cycle, 4.2" bore and 5.00" stroke.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>no auxillary engine</u>
Wet sleeve type engine.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>no auxillary engine</u>
Radiator fan, auxiliary drive and engine mounted exhaust filter	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>no auxillary engine</u>
Spin on replacement oil filter – remote mounted	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>Yes</u>
Fuel/water separator and fuel filter remote mounted with water-in-fuel monitoring (in cab display)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>Yes</u>

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	YES	NO	OFFERED
12 Volt ignition, electric starter and minimum 90 amp alternator Engine electronics use ECU module and CAN SAE J1939 data link for communication	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Engine ECU programmable to provide automatic engine monitoring and shutdown when engine problem is detected such as high coolant temperature, low coolant level, or low oil pressure.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
All engine controls located inside cab	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
51 Gallon fuel tank and batteries shared with chassis engine	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Heavy-duty dry type air cleaner with replaceable PowerCore element, safety element, scavenge vacuum hose, and integral precleaner	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Air cleaner restriction displayed to operator from control panel; including air cleaner restriction percentage and filter service warning	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Engine programmed for isochronous governor feature for engine speed control	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Heat exchanger assembly provides adequate cooling for 3 different systems: engine coolant system, engine intake charge air, and hydraulic system oil. Modular design with each cooler located side by side. Air circulated through the heat exchanger assembly by an engine mounted fan.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
5.4 Gallon (volumetric), 3.8 gallon (useable), left rear mounted DEF tank supplies diesel exhaust fluid to SCR system.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
DUST SEPARATOR			
Separation of the dirt and refuse from the air stream is accomplished within the hopper by means of a multi-pass cylindrical centrifugal single chamber dust separator (20" diameter and 61" width). The separator is designed so that it will not plug with normally encountered debris.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
The dust separator is equipped with a 24" x 61" curved, easy to open door allowing inspection and cleaning of the interior. The door has an abrasion resistant bonded rubber lining material for long life.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
The entire dust separator inlet area is lined with a bolt-in replaceable, wear resistant rubber liner for long life.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Yes _____
A 61" x 84" 13 gauge steel screen is provided to allow air to move freely from the hopper into the centrifugal dust separator.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____

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	YES	NO	OFFERED
HOPPER			
Hopper size: seven and three tenths (7.3) cubic yard volumetric measurement with an operating load capacity of not less than 6 cubic yards.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>8.5 cubic yard</u>
Dumping is accomplished by means of hydraulically actuated cylinders attached to a rear door (84" x 44") with a raker bar moving inside hopper as door is opened and closed to dump debris behind the rear wheels.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>yes, 60° dump height</u>
Hydraulic cylinder movement is controlled with the use of an electric toggle switch located on the side of the hopper so discharging of debris may be viewed during dumping for maximum safety.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>dump via remote</u>
The hopper floor: 22-degree slope.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>55-degree dump angle</u>
Hopper door: Opened and closed hydraulically and held in the closed position by means of a lock valve located in the hydraulic dump circuit.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>_____</u>
A 9.75" x 29" inspection door on both left and right side of the hopper	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>_____</u>
Rubber seals on all doors and openings.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>Yes</u>
Hopper suction inlet roof area has a bolt on replaceable wear resistant liner 3/8"x11"x10'.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>_____</u>
An amber LED high beacon light with protective limb guard	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>Yes</u>
Two (2) work lights at the rear of the hopper to illuminate the dump area	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>Yes</u>
Two (2) amber LED flashing warning lights mounted at the rear of the hopper.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>Yes</u>
For maximum corrosion resistance, all interior and exterior hopper sheet surfaces to be fabricated with an industrial grade, non-magnetic low carbon, high chromium stainless steel. The hopper, hopper door, inspection doors, raker plate, high-capacity dust separator, and screen assemblies are made of stainless steel and included.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>Yes</u>
Sweeper deluge system: high volume system mounted in the hopper with a water fill hose quick coupler for connection to a fire hydrant. Deluge ports on pickup head pressure inlet, BAH broom chamber. Connects to fire hydrant to push pickup head and includes 6" cleanout port. (includes hydrant wrench)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>with 25' hose</u>
HYDRAULIC SYSTEM			
25 gallon reservoir, sight gauge, temperature gauge	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>_____</u>

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	YES	NO	OFFERED
80 mesh suction strainer	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Engine mounted, gear driven by the auxiliary engine.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>no aux engine</u>
2500 PSI for gutter brooms and 1500 PSI for pick-up head and dump door.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Auxiliary hydraulic system to electrically operate the hydraulic system without auxiliary engine running.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
BLOWER			
Heavy-duty die cast, wear resistant high strength aluminum alloy turbine type open face blower balanced within 4 grams to create air pressure and suction.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>Yes</u>
Blower wheel is covered with wear resistant rubber.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>Yes</u>
Blower is mounted on self-aligning antifriction bearings, sealed and lubricated.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Driven from PTO off auxiliary engine by heavy-duty power belt, which is adjustable for tension.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>Hydraulic powered from PTO</u>
Blower housing: Bolt on design and lined with a bolt-in wear resistant, replaceable rubber liner	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>Yes</u>
PICK-UP HEAD			
Pick-Up Head: Spring balanced all steel fabricated 87" x 41" I.D.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>93" x 30"</u>
Separate upper and lower chamber where pressurized air is blasted from upper chamber through an elongated blast orifice to street surface.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Blast orifice flange: Bolt-on design so that flange is easily replaced and has slots so that blast orifice gap is easily adjusted without removing pick-up head from sweeper.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>Yes</u>
14" diameter pressure inlet ring located on left side of pick-up head.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>Yes</u>
14" diameter pressure hose attached between pick-up head and blower housing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>Yes</u>
Bolt-on pressure inlet ring with turning vanes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
14" diameter suction hose, attached to a quick disconnect transition at the hopper, extends down to the right side of the pick-up head and attaches to the pick-up head suction nozzle ring that is constructed of 1/4" steel.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>Yes</u>
Suction hose: 3/8" wall construction	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____

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2" wide adjustable side mounted integral alloy steel and carbide runners	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Skid runners are warranted for 2 years/2,000 hours prorated.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Side plates have a height adjustment of 4" at the blast orifice.	<input type="checkbox"/>	<input type="checkbox"/>	_____
Pick-up head is raised and lowered hydraulically by a single switch on the control panel.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Yes _____
Pressure inlet ring is equipped with an adjustable pressure relief for optimum leaf and light debris sweeping; control is mounted inside cab.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Yes _____
A curtain lifter with a hydraulic actuated and retractable roller assembly that provides the pick-up head with the ability to sweep large volume of light debris. Electronic cab control included.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
The pickup head is equipped with chains in order to prevent damage when unit is in reverse.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
GUTTER BROOM(S)			
Dual gutter brooms: 43" diameter, wire filled vertical digger type	<input checked="" type="checkbox"/>	<input type="checkbox"/>	44" Diameter _____
Hydraulic motor driven and positioned laterally and vertically by one hydraulic cylinder.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Yes _____
Down pressure is automatically adjusted to load by a pressure sensing sequence valve inline with gutter broom torque motor.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Adjustment for bristle contact pattern and wear.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Yes _____
Lateral flexibility to swing rearward 15" under truck chassis when encountering the impact of an immovable object thus avoiding damage to the broom assembly.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Spring adjustment to allow downward compensation for bristle wear and free floating to follow street contour.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Yes _____
Gutter brooms are held in the up and transit position by use of an electric lock valve attachment. Upward motion of gutter broom is regulated by an adjustable flow control valve.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Each gutter broom is controlled from inside the cab by a single electric toggle switch.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Yes _____

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	YES	NO	OFFERED
The left and right gutter brooms includes 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).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Cab mounted controls for both left and right broom speed (variable speed)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>Yes</u>
DUST CONTROL WATER SYSTEM			
Water tank: 220-gallon capacity, constructed of recyclable polyethylene Tank shall be 100% rustproof. Bolt-in design for easy removal and shall include a water level sight gauge.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>300 Gal Polyethylene</u>
Water from tank is filtered by 80 mesh cleanable filter located between tank and water pump.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
12V electric motor driven pump delivering minimum of 5.0 GPM with a 25 PSI system with an electronic solid state liquid level sensor to automatically shut off pump and turn on low water warning lamp when water is depleted	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>9.2 GPM, 51 PSI</u>
Electric solenoid water control valves are cab controlled. Spray system includes spray nozzles located as follows: 4 on outside of pick-up head; 2 for each gutter broom; 1 inside hopper. Water nozzles are located on outside of pick-up head and suction tube for easy inspection and superior dust control.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>4 pickup, 4 gutter, 2 hopper</u>
Water tank has an anti-siphon/anti-pressure filler neck with air gap.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Water fill hose: Flexible 20 foot with 2½" coupling with hose storage rack. Water fill hose includes a stainless 100 mesh cleanable filter. Hydrant wrench to be included	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>25' Hose</u>
An air purge system is included to purge the dust control system of water to prevent damage during freezing conditions.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>Yes</u>
Hi/low pressure washdown system: self-contained water supply; high pressure, low volume wash down hose, ¾" x 20' (includes CAT 290 water pump, spray gun with trigger control and (2) 36" interchangeable lance lengths.)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
OPERATING CONTROLS			
The sweeper electronic control platform shall be CAN controlled utilizing a multiplex control system.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>Yes</u>
The multiplex control system shall be equipped with a multiplex module with diagnostic LED indicators for all Inputs and Outputs as well as network and power LEDs to assist in troubleshooting.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>Yes</u>

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	YES	NO	OFFERED
The multiplex module shall be equipped with overcurrent protection for all outputs.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Yes _____
All module Inputs and Outputs as well as network and power status shall be accessible through the in-cab display.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Yes _____
All operating controls for sweeper shall be mounted inside truck cab and readily accessible to the operator.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Yes _____
All main sweeping functions shall be multiplexed with LED diagnostics and integral solid-state circuit protection to reduce overall wiring and enhance operator feedback.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Yes _____
In-cab controls shall consist of, but are not limited to, gutter brooms, pick-up head, engine throttle, water system, water system nozzles, dump door, and work lights.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Yes _____
Dump control shall also include a single weatherproof toggle located on the exterior of sweeper on the blower side on the hopper, mid-ship.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	control on remote for safety _____
Auxiliary engine controls shall be mounted on control console.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	no aux engine _____
A 5.7 inch viewable (minimum) multi-function, high resolution, LCD, color touchscreen display shall be pedestal mounted to display gauges consisting of, but not limited to engine RPM, engine oil pressure, engine temperature, battery voltage, and instantaneous fuel rate.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7" display _____
For sweeper on board diagnostics (OBD), the in-cab display shall provide detailed text descriptions of sweeper faults as well as provide input/output status and stored output faults.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Yes _____
For auxiliary engine OBD, the in-cab display shall provide a detailed message about auxiliary engine faults providing SPN, FMI, and a text description of the fault at minimum.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
The display shall provide a visual indicator icon for the following: Pick-up head down, dust suppression water pump, low water, water system winterization.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Yes _____
The in-cab sweeper display shall incorporate resettable and non-resettable hour meters for the auxiliary engine; left and right gutter brooms; pick-up head; water pump; and blower for collecting data about sweeping route performance and maintenance.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Yes _____
The in-cab sweeper display shall incorporate resettable sweeper and auxiliary engine service timers, which will trigger service reminders for engine oil, engine air filter, fuel filters, hydraulic filter, hydraulic oil.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Yes _____

CITY OF LAUREL, MISSISSIPPI BID SPECIFICATION

Diesel Powered 7.3 Cubic Yard Volumetric Capacity Municipal Street Sweeper

**BIDDER SHALL COMPLETE BY CHECKING THE FOLLOWING.
 IF NOT COMPLIANT, STATE SPECIFICALLY ITEM BEING OFFERED.**

	YES	NO	OFFERED
The in-cab display shall include a minimum five (5) User-defined custom reminders	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
A minimum of three (3) custom reminders shall be timed by hours	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
A minimum of two (2) custom reminders shall be timed by days.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
The in-cab display shall include a sweeper odometer that is active when the pick-up head is down and the auxiliary engine is above idle.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
The sweeper odometer shall include a non-resettable odometer and resettable odometer, hour meter, and average sweeping speed.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Yes _____
The in-cab display shall log the following events by date, time, event title, and engine hours: hour meters resets, custom reminders resets, service reminders, service hour meter reset, overspeed events, hydraulic oil alerts, engine faults, sweeper output faults, sweeper odometer resets, winterization and de-winterization events, and fuel usage statistics resets.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Yes _____
Overspeed warning system shall be equipped to alert the operator when sweeping at an excessive speed and can be adjusted from 5-20 mph with a PIN code.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
The in-cab display shall include fuel usage statistics for the auxiliary engine which displays trip fuel usage, fuel trip hours, average fuel economy, and instantaneous fuel rate.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	no aux engine _____
The in-cab display shall include an on-screen guide for winterization procedures specific to the dust control system equipment. The display shall tag the system as winterized once the guide has been completed and will remove the winterized tag once the system senses water.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Audible alarms and visual indicators shall include, but are not limited to indications of the following: low dust control water, exceeding maximum recommended sweeping speed, auxiliary engine fault codes and derates such as low coolant or high engine temperature, and sweeper output faults such as low voltage.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Yes _____
All main electrical systems, i.e. ignition, lights, hydraulic, etc. shall be separately fused to isolate electrical problems to fused area and speed service.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Yes _____
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).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Yes _____

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	YES	NO	OFFERED
<p>Auto Sweep Assist (ASA) shall be furnished. It is a system designed with five preset sweep modes including: Light, Normal, Heavy, Leaves, and Brooms In. A 6th mode is available for user configuration. Depending on the options available on the sweeper, each mode defines the condition for: blower speed (or engine speed), broom speed*, leaf pressure bleeder position*, curtain lifter*, warning lights, broom position*, BAH*, screen vibrator*, pressure inlet water injection*, and up to 10* water solenoids. The setting for each item as well as the name of the mode can be changed by the user. Several ASA features shall be configurable and be enabled/disabled through the control system display and be PIN protected including:</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
<p>ASA Auto/Manual: Selecting "Auto" enables the ASA System to include sweep modes and automatically interrupt sweeping when shifting into reverse or pressing the reset switch. "Manual" mode disables all functions of the ASA, except low water interrupt. (Included with ASA.)</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
<p>Overspeed Interrupt, when enabled, allows for a two-stage process to prevent sweeping at excessive speeds by warning the operator at a set PIN-code protected configurable speed and then by activating ASA at a set configurable speed. From 5-20 mph the operator will receive a warning and at 8-25 mph the Auto Sweep Assist will engage depending on ranges set. (Included with ASA.)</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
<p>Interrupt Warning Below Max: When the operator approaches the maximum recommended sweeping speed, the system will sound an audible alarm and instruct the operator to slow down. This allows the operator the opportunity to adjust the operating speed and prevent activation of the ASA overspeed interrupt.</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
<p>ASA Head Operation: The setting adjusts control of raising the pick-up head when the sweep functions are interrupted.(Included with ASA.)</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
<p>Low Water Interrupt: The ASA system can be configured to interrupt sweeping when the dust suppression water tank is depleted. (Included with ASA.)</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
<p>Forced Water: If a water zone is set to "Forced" the designated water solenoid will be turned on any time the sweep mode is active. (Included with ASA.)</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
<p>Dump Switch In-cab is located on the control panel to activate dump operation from inside cab.</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____

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	YES	NO	OFFERED
PAINT COLOR			
The entire unit is painted with manufacturers' standard white paint applied over a suitable primer. Pick-up head, gutter brooms and truck frame are painted black.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Yes _____
CAMERAS			
The unit will be equipped with a dual camera system with rear and pickup head views.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Yes _____
CHASSIS			
GENERAL			
Chassis/cab shall be conventional with a tilt hood. Frame to be straight full channel steel rails (80,000 PSI). Gross vehicle weight rating to be not less than 31,000 lbs. Curb weight with cab, fuel, water, oil and tires shall be approximately 9,300 lbs. Standard truck cab enclosed and equipped with safety glass all around and two individual, adjustable, high back air seats with lumbar support and safety orange seat belts.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Yes _____
WARRANTY			
Base vehicle coverage is 24 months/unlimited mileage.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>24 month or 2,000 hours</u>
Engine (diesel) coverage is 60 months/150,000 miles.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Drive train coverage is 24 months/unlimited mileage.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Allison transmission coverage is 36 months/unlimited mileage.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Frame coverage is 60 months/unlimited mileage.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Cab corrosion coverage is 60 months/unlimited mileage.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
WHEELBASE			
Chassis shall have a maximum wheelbase of 165".	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>164"</u>
Special frame drilling.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
AXLES			
Front axle to be minimum of 10,000 lbs. with taper-leaf suspension of 10,000 lbs.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Yes _____

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	YES	NO	OFFERED
Engine block heater shall be provided for starting the engine in cold weather.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>Yes</u>
FUEL			
A 51 gallon tank shall be supplied and shall supply fuel to both engines.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
TIRES AND WHEELS			
Heavy duty first line quality tubeless tires to be minimum 11R x 22.5, L/R G rating with duals in rear for adequately carrying full load of sweeper and maximum stability.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Wheels to be 10 hole disc 22.5 x 8.25 DC.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
TRANSMISSION			
Shall be heavy duty Allison 2500 RDS electronic, six-speed, automatic, with external oil filter.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
A transmission temperature gauge shall be supplied.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>Yes</u>
Synthetic transmission oil shall be supplied.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>Yes</u>