

126 East Main Street Post Office Box 390 Ville Platte, LA 70586

TECHNICAL SPECIFICATIONS

Jennifer Vidrine Mayor

FOR

THREE WHEEL BROOM STREET SWEEPER WITH BELT CONVEYOR 1.0 INTENT COMPLY Yes No

It is the intent of this specification to provide for the purchase or lease purchase of one (1) new and unused street sweeper having a three wheel configuration, belt conveyor, 3.6 cubic yard front high dumping hopper, hydrostatic transmission, and right and left side broom with variable down pressure controlled from cab.

The following specification is based upon an ELGIN PELICAN P street sweeper SN3000 and up. The City of Ville Platte Public Works Department has evaluated different types of street sweepers and has determined that this product is best suited for the City of Ville Platte needs in safety, quality, performance, and standardization. This specification is not to be interpreted as restrictive, but rather as a measure of the safety, quality and performance against which all sweepers bid will be compared.

In comparing proposals, consideration will not be confined to price only. The successful bidder will be one whose product is judged to best serve the interests of the City of Ville Platte when standardization, price, product, safety, quality and delivery are considered. The City of Ville Platte reserves the right to reject any or all bids or any part thereof, and to waive any minor technicalities. A contract will be awarded to the bidder submitting the lowest responsible bid meeting the requirements of this specification.

2.0 EQUIVALENT PRODUCT

Bids will be accepted for consideration on any make or model that is equal or superior to the sweeper specified. Decisions of equivalency will be at the sole interpretation of the City of Ville Platte of City of Ville Platte Department of Public Works. A blanket statement that equipment proposed will meet all requirements will not be sufficient to establish equivalence. Original manufacturer's brochures of the proposed unit are to be submitted with the proposal.

All modifications made to the standard production unit described in the manufacturer's brochures must be certified by the manufacturer and submitted with the bid, or the bid will be deemed "non-responsive" and rejected without further review. Bidder must be prepared to demonstrate a unit similar to the one proposed, if requested.

COMPLY Yes No

3.0 INTERPRETATIONS

In order to be fair to all bidders, no oral interpretations will be given to any bidder as to the meaning of the specification documents or any part thereof. Every request for such a consideration shall be made in writing to the City of Ville Platte Clerk. Based upon such inquiry, the City of Ville Platte may choose to issue an Addendum.

4.0 GENERAL

The specification herein states the minimum requirements of the 0. All bids must be regular in every respect. Unauthorized conditions, limitations, or provisions shall be cause for rejection. The City of Ville Platte will consider as "irregular" or "non-responsive" any bid not prepared and submitted in accordance with the bid document and specification, or any bid lacking sufficient technical literature to enable the City of Ville Platte to make a reasonable determination of compliance to the specification.

It shall be the bidder's responsibility to carefully examine each item of the specification. Failure to offer a completed bid or failure to respond to each section of the technical specification (COMPLY: YES NO) will cause the proposal to be rejected without review as "non-responsive". All variances, exceptions and/or deviations shall be fully described in the appropriate section. Deceit in responding to the specification will be cause for rejection.

5.0 CHASSIS

COMPLY Yes No

COMPLY Yes No

COMPLY

No

Yes

and boxed tube style. Bolt together chassis shall not be acceptable due limited structural strength.

5.5	Chassis shall have front and rear tow hooks.	
5.6	Engine compartment cover shall have two raising assist cylinders.	
5.7	Rear axle shall be strut type, having a minimum capacity of 7,400 lbs.	
5.8	Front axles shall be stub type, each having a minimum capacity of 10,000 lbs.	
5.9	Cab interior environment shall be fully conditioned by fresh air heater pressurizer / defroster with adjustable vents.	

		COM	
<u>6.0 CI</u>	<u>IASSIS ENGINE</u>	Yes	No
6.1	Diesel engine shall be 4 cylinders, turbocharged, dynamically counter balanced, 276 cu/in. (John Deere 4045T or equal). Engine shall have EPA Tier 4i emissions and be capable of operating on biodiesel up to B20		
6.2	Power rating shall be 55KW @ 2200 RPM.		
6.3	Engine shall be rubber mounted.		
6.4	For greater heat dissipation and lower cost of maintenance, engine shall have individually replaceable wet sleeve cylinder liners.		
6.5	Air cleaner shall be dual element safety dry-type.		
6.6	Anti-freeze/water mixture shall be rated at -20 degrees.		
6.7	Diesel fuel tank shall have a minimum capacity of 35 U.S. gallons.		
6.8	For operator safety in the event of engine cutout, steering system shall have a manual override.		
6.9	An engine shutdown shall be included which protects against damage when either low oil pressure or high coolant temperature conditions occur.		

7.0 HYDROSTATIC TRANSMISSION

COM	PLY
Yes	No

7.1	Pump shall be variable displacement with separate variable displacement wheel drive motors.	
7.2	Power shall be evenly distributed through planetary torque hubs.	
7.3	Power shall be transferred from wheel drive motors to planetary torque hubs without side loading.	
7.4	Single foot pedal shall automatically produce required torque at a set pressure.	
7.5	To prevent the possibility of contamination and the resulting damage to the transmission system, transmission shall be protected by 10 micron filter with cab restriction indicator.	
7.6	Single foot pedal shall control both forward and reverse directions.	
7.7	Hydrostatic transmission shall be computer controlled to optimize propel system to engine power.	

<u>8.0 T</u>	IRES AND WHEELS		COM Zes	PLY <u>No</u>
8.1	Front drive tires shall be tubeless radial tires, 11R22.5 (Load range H mounted on disc wheels.	H) _		
8.2	Dual rear tires shall be tubeless radial tires, 10R17.5 (Load range H) mounted on disc wheels.	-		
8.3	To reduce chassis fatigue, sweeper shall be equipped with fully sprung guide wheel strut utilizing two large heavy duty springs.			
<u>9.0 B</u>	RAKES	COM <u>Yes</u>	PLY No	
9.1	Service brakes shall be full power, hydraulically applied, twin- caliper disk type.			-
9.2	For safety, the hydrostatic system shall be equipped with a priority relief valve to enable the sweeper to gradually coast to a stop when the accelerator pedal is released. The City of Ville Platte has determined that systems that abruptly stop the sweeper by dynamically braking when the accelerator pedal is in the neutral position are potentially dangerous to our operators and following			-

vehicles and will not be accepted.

9.3	For safety, loss of engine power shall not automatically engage brakes.		
9.4	For safety, loss of hydraulic power shall not automatically engage brakes.		
9.5	For safety, neither brake engagement nor disengagement shall be dependent upon the engine running.		
9.6	For safety, neither brake engagement nor disengagement shall be dependent on any electrical circuit.		
9.7	To safely provide redundancy, parking brake shall be positively and mechanically applied to drive axle.		
9.8	Neither parking brake engagement nor disengagement shall be dependent on any electrical circuit.		
<u>10.0</u>		COM	
10.0		Yes	No
10.1	To maximize operator visibility, cab glass area shall be not less than 8,500 square inches.		
10.2	For safety and maximum operator visibility, doors shall be all glass. And capable of latching completely sealed and 6" open for flow through ventilation.		
10.3	Front windows shall be tinted. Front window area shall be a minimum of 2300 square inches for optimum forward visibility.		
10.4	For safety, minimum cab visibility shall be approximately 360° without using mirrors.		
10.5	For operator safety, cab doors shall be rear opening (hinged at front).		
10.6	Right-hand and left-hand seat shall be woven nylon cloth upholstered, foam cushioned bucket type with torsion suspension mounting and seat belts.		
10.7	Sweeper shall include one (1) inside rear view mirror and two (2) outside west coast type mirrors.		
10.8	To maximize operator visibility, outside mirrors shall be mounted forward of the cab enclosure.		
10.9	For safety during night sweeping, rocker switches shall be internally illuminated so that they can be readily identified without the use of the cab dome light.		
10.10	Windshield wiper shall be two speeds intermittent with washer.		
10.11	Interior of cab shall be lined with acoustical insulation, have		

10.12	2 Dash shall be faced with soft molded plastic.		
10.13	There shall be a soft textured steering wheel with center horn at the operator position with tilt and telescopic steering wheel for safer operation		
10.14	Sweeper shall have an automatic electronic back-up alarm.		
10.15	Sound levels within the cab shall not exceed OSHA standards.		
10.16	Cab shall feature opening front opera windows to aid in flow through ventilation.		
10.17	Doors and ignition shall be keyed alike.		
<u>11.0</u>	SIDE BROOMS	COM Yes	
11.1	Side broom shall be hydraulic, direct drive; vertical digger type mounted on right and left sides.		
11.2	To provide flexibility for varying sweeping conditions, broom speed shall be variable, (90 RPM to 160 RPM), by operator from cab while moving independent of sweeping speed.		
11.3	Broom down pressure shall be adjustable by operator from the cab while sweeping.		
11.4	Each broom shall consist of four (4) replaceable plastic segments, filled with 26" long tempered wire.		
11.5	Broom diameter shall be not less than 36", protruding not less than 13" beyond outside of tire while sweeping.		
<u>12.0</u>	MAIN BROOM	COM <u>Yes</u>	
12.1	Broom shall be hydraulic, direct drive, not less than 35" diameter and not less than 68" long.		
12.2	To provide flexibility for varying sweeping conditions, broom speed shall be variable, (80 RPM to 140 RPM), by operator from cab while moving independent of sweeping speed.		

12.3 Broom shall be prefab disposable type, filled with polypropylene.

- 12.4 Broom shall be double wrapped at both ends.
- 12.5 Sweeping path shall be not less than 8 feet wide with one gutter broom activated.
- 12.6 To protect the broom mechanism, the main broom shall raise

automatically when the sweeper is reversed. The broom will return to its sweep position and set down pressure when a forward direction is resumed.

13.0	CONVEYOR	COM Yes	
	Conveyor with Chevron style cleats and sipes shall be hydraulically driven and able to load hopper to 100% of rated useable capacity.		
13.2	Conveyor shall be reversible in direction without stopping or reversing any broom.		
13.3	Conveyor shall be capable of effectively sweeping debris of varying sizes (from large bulky trash 6" in height to fine sand) without the need to make any adjustments to the conveyor system.		
13.4	To reduce wear on all conveyance components, a conveyor belt having molded Chevron style cleats and sipes shall carry, not drag, debris to the hopper.		
13.5	To protect the broom mechanism, the main broom shall raise automatically when the sweeper is reversed. The broom will return to its position and down pressure when a forward direction is resumed.		
<u>14.0</u>	HOPPER	COM <u>Yes</u>	
14.1	For safety, the hopper shall be front dumping, allowing an operator to observe the dump target and surrounding area at all times from the cab, without the use of mirrors.		
14.2	Hopper shall dump at varying heights ranging from ground level through a height of 9-1/2 feet.		
14.3	Hopper shall have a dumping reach of 33 in. forward.		
14.4	To extend wear life, tilt arm bearings shall be permanently - lube Teflon impregnated composite.		
14.5	Dump cycle shall be not more than 60 seconds.		
14.6	Volumetric capacity shall be not less than 3.6 cubic yards, useable capacity not less than 3.5 cubic yards.		
<u>15.0</u>	WATER SYSTEM	COM <u>Yes</u>	PLY No
15.1	Tank capacity shall be not less than 220 U.S. gallons.		
15.2	Tank shall be constructed of non-rusting material (polyethylene or 7 gauge type 304 stainless steel). Because epoxy lining has the potential to chip and flake off causing clogs in the water system,		

water tank constructions containing epoxy liners will not be accepted.

	STATE TANK CONSTRUCTION:	
15.3	Pump shall be twin diagram capable of running dry.	
15.4	Water fill gauge shall be visible from normal operating position.	
15.5	Sweeper shall be equipped with an automatic internal hopper/conveyor flush and wash down system.	
15.6	Water fill hose shall be not less than 16'8" in length, equipped with 2-1/2" NST hydrant coupler.	

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15.7 Storage basket shall be provided for fill hose.

<u>16.0 H</u>	IYDRAULIC SYSTEM	COM Yes	PLY No
16.1	Power shall be provided by shaft and gear driven pumps.		
16.2	Hydraulic reservoir shall be not less than 33 gallons, baffled and with sight gauge.		
16.3	Test ports shall be at staggered height, including individual ports for sweeping functions, hopper functions and propulsion.		
16.4	To prevent contamination of the reservoir during the dump cycle, the reservoir vent shall be equipped with 10 micron, spin on filter.		
16.5	To prevent the possibility of contamination and the resulting damage to the hydraulic system, suction lines for drive to have 10 micron filter with cab mounted restriction indicator.		
16.6	To prevent the possibility of contamination and the resulting damage to the hydraulic system, return lines for drive to have 10 micron filter with cab mounted restriction indicator.		
16.7	To prevent contamination of the reservoir when adding hydraulic fluid, all oil added shall pass through a 10 micron filter located within the fill spout.		
16.8	To maximize cooling efficiency and permit thorough cleaning, the hydraulic cooler shall be mounted alongside the water radiator.		
16.9	Cooler shall be protected by a 125 PSI bypass valve.		
16.10	To minimize environmental damage caused by leaking hydraulic fittings, all pressure hydraulic fittings shall be flat-face "O" ring or "O" ring boss type.		
16.11	All circuits shall have quick-disconnect check ports.		
16.12	A warning indicator shall be supplied to warn operator if the		

hydraulic oil in the reservoir falls below the acceptable level required.

<u>17.0]</u>	ELECTRICAL	COM <u>Yes</u>	PLY No
17.1	Unitized alternator/regulator shall be not less than 120 ampere.		
17.2	Battery shall be maintenance free, 12 volt, 180 minimum reserve, 925 CCA.		
17.3	For safety, all electrical circuits shall be protected with automatically self-resetting circuit breakers which do not require any action by the operator to reset.		
17.4	All lighting shall be D.O.T. approved including combination stop and tail lights, sealed multiple beam headlights, high beam - low beam switch, adjustable side broom spotlights, illuminated gauges and instrument panel, internally illuminated rocker switches, self canceling directional signals, and hazard switch.		
17.5	For ease of electrical "trouble shooting", all wiring shall be harnessed, identified by color coded and word coded wires (i.e. "Ignition", "Headlight" etc.)		
17.6	All terminals shall be properly crimped and splices ultrasonically welded.		
17.7	To prevent deterioration from oxidation all electrical splices shall be fully and completely insulated with heat shrinkable tubing.		
17.8	All electrical connections shall be sealed with weatherproof, polarized connectors.		
17.9	Electrical system shall have complete plug-in diagnostics that includes fault codes and troubleshooting.		

<u>18.0 CONTROLS</u>	COMPLY <u>Yes No</u>
18.1 All sweeper controls shall be mounted on a central control console with locking ignition for use from either right or left positions. This allows the operator to view all important information from either operating position.	
18.2 The controls shall include all sweep, spray water, and lighting functions.	
18.3 The controls for sweep, spray water (if equipped with a water	

system), and lighting functions shall be conventional rocker	
switches.	

COMPLY

Yes No

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- 18.5 Hydraulic functions shall be controlled by electric rocker switches.
- 18.6 Hopper dump functions shall be controlled by a single "joy" stick that meets the SAE standard. Multiple levers shall not be acceptable.

19.0 INSTRUMENTS

- 19.1 Instrument panel shall be full vision illuminated with tachometer, hour meter, speedometer, odometer, fuel gauge, hydrostatic oil temperature gauge, water temperature gauge, oil pressure gauge, voltmeter gauge, hydraulic filter/drive filter indicator and engine air intake restriction indicator.
- 19.2 An automatic rear view camera with full color 5.6" LCD monitor shall be provided. Camera shall monitor display the area behind the sweeper whenever the sweeper is moving in reverse. The display shall be selectable to allow continuous rear view at all times. The display shall have an additional camera input to allow future expansion of additional cameras. The camera shall be equipped with infra-red lamps to allow night vision.

<u>20.0</u>	PAINT	COM Yes	PLY No
20.1	All visible exterior metallic surfaces shall be coated prior to assembly with polyester powder coat. The paint must be a minimum of 2 mils thick. The uses of acrylic enamels and/or polyurethane's are not acceptable.		
20.2	Color shall be the City of Ville Platte of City of Ville Platte color of "White".		
20.3	Vehicle shall have an accent color of Grey on the lower portions of the unit.		
<u>21.0</u>	MANUALS	COMP <u>Yes</u>	PLY No
21.1	A parts manual shall be provided.		

21.2 An operation manual shall be provided.

<u>22.0 V</u>	VARRANTY	COMPLY <u>Yes No</u>
22.1	Manufacturer's warranty shall be not less than one (1) year with unlimited hours on entire vehicle.	
22.2	Bidders submitting literature stating warranties which do not fully comply with warranty requirements of this specification must submit a letter from the manufacturer certifying warranty compliance as an integral part of their proposal. Failure to comply may cause the proposal to be deemed "non-responsive" and rejected without further review.	
<u>23.0 S</u>	SERVICE AND TRAINING	COMPLY Yes No
23.1	Vendors shall have a full parts and service facility within a reasonable distance from the City of Ville Platte Garage. State location and distance.	
23.2	A qualified technician shall provide complete training to City of Ville Platt personnel at the City of Ville Platte Garage. Training shall include safety, operation, maintenance and service.	
<u>24.0 I</u>	DELIVERY	COMPLY <u>Yes No</u>
24.1	Sweeper shall be delivered F.O.B. City of Ville Platte in new operating condition.	
24.2	Acceptance shall be subject to the inspection and approval of the 0.	

25.0 REFERENCES

25.1 Bidder shall state the length of time in service as an authorized dealer for the product being proposed.

25.2 Bidder shall submit the name, address, responsible party and phone number of not less than ten (10) <u>municipal</u> owners of comparable models (including having an identical debris conveyance system) to that being offered, who have used such models over a ten year span. If none, state so.

26.0 QUALITY

26.1 Sweeper shall be manufactured by a company with a registered quality standard no less than ISO 9001.

27.0 OPTIONAL ITEMS

The City of Ville Platte may choose, at its sole discretion, to add any or all of optional items to this purchase. Bidder shall state the amount to be added to the Bidder's Proposal, should each item be selected.

ADDITIONAL COST: \$_____

28.0 OPTIONAL TRADE-IN

The City of Ville Platte may choose, at its sole discretion, to trade in the City of Ville Platte street sweeper, Serial Number J8DE5B16477903340, in "AS-IS" condition at the time of bid opening. This vehicle is available for inspection at the City of Ville Platte Garage. Bidder shall state the amount of allowance to be deducted from the Bidder's Proposal, should this option be selected.

TRADE-IN ALLOWANCE: \$_____

29.0 EXCEPTIONS AND DEVIATIONS

Bidder shall fully describe every variance, exception and/or deviation. Additional sheets may be used if required.

PROPOSAL FORM

TO: City of Ville Platte

The undersigned hereby declares that they have carefully examined the requirements of the specifications contained herein, and propose to furnish and deliver to the City of Ville Platte the apparatus listed below. The City of Ville Platte may, at its sole discretion, either purchase or lease purchase such apparatus.

ONE (1) New and Unused Three Wheel Broom Street Sweeper with Belt Conveyor

BODY MAKE:	_ MODEL:
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CHASSIS MAKE:______MODEL:_____

PURCHASE PRICE: @ \$_____ Total: \$_____

(In Words)_____

OPTIONAL ITEMS:\$_____OPTIONAL TRADE-
IN:ALLOWANCE:
(\$_____)

OPTIONAL LEASE FINANCING:

The lease finance agreement shall in all aspects comply with standard Public Contract Law, including a cancellation clause dependent upon the annual renewal of appropriations. The lease shall not require a down payment. First payment shall be due upon delivery of the apparatus. Subsequent payments shall be at the beginning of each period indicated. The City of Ville Platte shall have the option of purchasing the apparatus for One Dollar (\$1.00) at the end of the lease period.

OPTION # 1:

Amount per month for 60 monthly payments:	¢
Amount per month for ou monthly davinents:	3
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Signed:	
Date:	

Purchase Order	
Number:	

Signature