

**CITY OF GRAND FORKS NORTH DAKOTA  
REQUEST FOR BID**

**Vendor Contact Information:**

**PLEASE SUBMIT YOUR PRICE ON THE ITEMS LISTED BELOW AND RETURN THIS FORM TO:**

**FINANCE & ADMINISTRATIVE SERVICES**

**By USPS:** **P. O. BOX 5200  
Grand Forks, ND 58206-5200**

**By Courier Delivery:** **255 N 4<sup>th</sup> Street,  
Grand Forks, ND 58203**

QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL	DELIVERY DATE
1 Unit	3-Wheel Front Dump Street Sweeper	\$ _____	\$ _____	_____
*****				
<b>OR</b>	Make: _____			
<b>ALTERNATE</b>	Model: _____			
2 Units		\$ _____	\$ _____	_____
*****				
	(Please see attached specifications)			
<b>Trade-In:</b>	<u>Less Trade-In Equipment:</u>			
<b>1</b>	#6200 2015 Freightliner M2106 3-Wheel Front Dump Street Sweeper VIN#1FVACXDT3FHGK5468		(\$ _____)	
<b>1</b>	#6192 2011 Elgin Pelican Dual-Wheeled Street Sweeper VIN#NP2326D		(\$ _____)	
	<b>TOTAL BID: 1 Unit (less trade of #6200)</b>		\$ _____	
	<b>TOTAL BID: 2 Units (less trade of both units)</b>		\$ _____	

**PRICES ARE F. O. B. GRAND FORKS, ND.**

Bids/Proposals are to be submitted sealed with **Bid Number 2019-6** clearly marked on the outside of the envelope by **2:00 p.m. on Tuesday, February 26, 2019.**

All bids must be properly labeled on the outside of the bid envelope with the Bid Number and contain this form bearing a signature of an authorized officer or representative of the Vendor in order to be considered valid. **Improperly labeled bids or those not containing a signed bid form will be rejected.**

The City reserves the right to accept or reject any or all bids or part thereof, to accept one or more items of a bid without obligation as to other items, and to waive any informalities or irregularities.

\_\_\_\_\_  
**Vendor Signature (REQUIRED FOR VALID BID)**

\_\_\_\_\_  
**DATE SIGNED**

*This form is to be used for purchases requiring sealed bids for the City of Grand Forks.  
Adopted by City Council : (April 18, 2011) (Revised 03/31/2015)*

City of Grand Forks Public Works Operations Division  
General Specifications:

1. The equipment to be furnished is to be the manufacturer's latest model and design.
2. Manufacturer to furnish descriptive literature, complete with specifications of equipment bid.
3. Any deletions, variations, or exceptions to the specifications must be explained and included in the bid submittal.
4. The unit price shall be F.O.B. Grand Forks, North Dakota. The completed units as specified shall be complete and ready to operate at the point of delivery.
5. The total bid price shall not include any North Dakota sales tax, for which an exemption certificate can be furnished.
6. The successful bidder, when accepting the award, agrees that a complete inventory of repair parts will be maintained in stock for immediate delivery when needed.
7. The successful bidder agrees to furnish the City a complete set of books, which include: operator's manual, service and repair manual, and parts manual.
8. Bids must be submitted on forms supplied by the City, and bidders must comply with all conditions in the bid specifications.
9. The specific terms of all the machine warranties shall be attached to, and be made part of, the bid proposal. All warranties are to include parts and labor.
10. Bidder will guarantee bid price for 60 days from the date of the bid opening.
11. The City reserves the right to reject any or all bids, or to accept the bid that is deemed to be in the best interest of the city.
12. Trade-In equipment listed on the Request for Bid form can be viewed by appointment and questions can be directed to:

Mark Aubol or Blake Beckstead  
Public Works Streets Division  
724 N. 47<sup>th</sup> St., Grand Forks, ND 58203  
Office #701-738-8740 or Cell #701-740-0679
13. Bidder to provide a list of three users of the bid equipment and their contact information.
14. Bidder must provide the name and location of the nearest parts and service representative.

City of Grand Forks Public Works Operations Division  
3-Wheel Front Dump Street Sweepers

	Yes	No	Specification Deviations
<b>CHASSIS</b>			
1. Configuration shall be three wheel, rear steer. Front steer configurations shall not be acceptable.	___	___	_____
2. Steering strut shall have dual tires. Single tire steer wheels shall not be acceptable.	___	___	_____
3. Sweeper shall have permanently fixed heavy duty steel bumpers with rubber padding, capable of limiting the forward movement of the sweeper.	___	___	_____
4. Chassis shall be fully welded; formed channel and boxed tube style. Bolt together chassis shall not be acceptable.	___	___	_____
5. Chassis shall have front and rear tow hooks.	___	___	_____
6. Engine compartment cover shall have two raising assist cylinders.	___	___	_____
7. Rear axle shall be strut type, having a minimum capacity of 7,400 lbs.	___	___	_____
8. Front axles shall be stub type, each having a minimum capacity of 10,000 lbs.	___	___	_____
9. There shall be "Quick-Clean" access panels located on left hand and right hand sides of chassis; able to be removed/mounted without the use of any tools.	___	___	_____

**CHASSIS ENGINE**

1. Horsepower rating shall be 74 HP @ 2500 RPM.	___	___	_____
2. Power rating shall be 74 HP @ 2400 RPM.	___	___	_____
3. Engine shall have ECU for throttle control and management of aftertreatment system.	___	___	_____
4. Engine shall be rubber mounted.	___	___	_____
5. Engine shall have individually replaceable wet sleeve	___	___	_____

City of Grand Forks Public Works Operations Division  
3-Wheel Front Dump Street Sweepers

	Yes	No	Specification Deviations
cylinder liners.			
6. Air cleaner shall be dual element safety dry-type.	___	___	_____
7. Anti-freeze/water mixture shall be rated at -20 degrees.	___	___	_____
8. Diesel fuel tank shall have a minimum capacity of 35 U.S. gallons.	___	___	_____
9. Steering system shall have a manual override.	___	___	_____
10. An engine shutdown shall be included which protects against damage when either low oil pressure or high coolant temperature conditions occur.	___	___	_____
11. The Centri Best-ex air precleaner is in addition to the standard air cleaner and is well suited for dusty and dirty applications.	___	___	_____
12. Hydraulic Level and Hydraulic Temperature Shutdown enhancement.	___	___	_____
22. Side Vertical Quantity: 1	___	___	_____

**HYDROSTATIC TRANSMISSION**

1. Pump shall be variable displacement with separate variable displacement wheel drive motors.	___	___	_____
2. Power shall be evenly distributed through planetary torque hubs.	___	___	_____
3. Power shall be transferred from wheel drive motors to planetary torque hubs without side loading.	___	___	_____
4. Single foot pedal shall automatically produce required torque at a set pressure.	___	___	_____
5. Transmission shall be protected by 10 micron filter with cab restriction indicator.	___	___	_____
6. Single foot pedal shall control both forward and	___	___	_____

City of Grand Forks Public Works Operations Division  
3-Wheel Front Dump Street Sweepers

**Yes    No                    Specification Deviations**

reverse directions.

- |    |  |      |      |  |
|----|--|------|------|--|
| 7. | Hydrostatic transmission shall be computer controlled to optimize propel system to engine power. | ____ | ____ |  |
|----|--|------|------|--|

**TIRES AND WHEELS**

- |    |   |      |      |  |
|----|---|------|------|--|
| 1. | Front drive tires shall be tubeless radial tires, 11R22.5 (Load range H) mounted on disc wheels.                | ____ | ____ |  |
| 2. | Dual rear tires shall be tubeless radial tires, 215/75 R17.5 (Load range H) mounted on disc wheels.             | ____ | ____ |  |
| 3. | Sweeper shall be equipped with rear suspension.   | ____ | ____ |  |
| 4. | Rear suspension shall be single-sided swingarm type utilizing heavy duty twin springcoils with shock absorbers. | ____ | ____ |  |
| 5. | A spare guide mounted wheel and Goodyear G661 tire is supplied.   | ____ | ____ |  |

**BRAKES**

- |    |   |      |      |  |
|----|---|------|------|--|
| 1. | Service brakes shall be full power, hydraulically applied, twin-caliper disk type.  | ____ | ____ |  |
| 2. | 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. Systems that abruptly stop the sweeper will not be accepted. | ____ | ____ |  |
| 3. | Loss of engine power shall not automatically engage brakes.   | ____ | ____ |  |
| 4. | Loss of hydraulic power shall not automatically engage brakes.  | ____ | ____ |  |
| 5. | Neither brake engagement nor disengagement shall  | ____ | ____ |  |

City of Grand Forks Public Works Operations Division  
3-Wheel Front Dump Street Sweepers

**Yes    No                    Specification Deviations**

be dependent upon the engine running.

- |           |  |     |     |  |
|-----------|--|-----|-----|--|
| <b>6.</b> | Neither brake engagement nor disengagement shall be dependent on any electrical circuit.         | ___ | ___ |  |
| <b>7.</b> | Parking brake shall be positively and mechanically applied to drive axle.                        | ___ | ___ |  |
| <b>8.</b> | Neither parking brake engagement nor disengagement shall be dependent on any electrical circuit. | ___ | ___ |  |

**CAB**

- |           |   |     |     |  |
|-----------|---|-----|-----|--|
| <b>1.</b> | Cab glass area shall be not less than 8,500 square inches.  | ___ | ___ |  |
| <b>2.</b> | Doors shall be all glass. The doors should be capable of latching completely sealed and 6" open for flow through ventilation.                       | ___ | ___ |  |
| <b>3.</b> | Front windows shall be tinted. Front window area shall be a minimum of 2300 square inches.  | ___ | ___ |  |
| <b>4.</b> | Minimum cab visibility shall be approximately 360 degrees without using mirrors.  | ___ | ___ |  |
| <b>5.</b> | Cab doors shall be rear opening (hinged at front).  | ___ | ___ |  |
| <b>6.</b> | Cab interior environment shall be fully conditioned by filtered air heater pressurizer / defroster and air conditioner (A/C) with adjustable vents. | ___ | ___ |  |
| <b>7.</b> | Sweeper shall include one (1) inside rear view mirror and two (2) outside west coast type mirrors.  | ___ | ___ |  |
| <b>8.</b> | Outside mirrors shall be mounted forward of the cab enclosure.  | ___ | ___ |  |
| <b>9.</b> | Rocker switches shall be internally illuminated so that they can be readily identified without the use of the cab dome light.                       | ___ | ___ |  |

City of Grand Forks Public Works Operations Division  
3-Wheel Front Dump Street Sweepers

	Yes	No	Specification Deviations
10. Windshield wiper shall be two speed intermittent with washer.	___	___	_____
11. Interior of cab shall be lined with acoustical insulation, have automotive type trim, and center console.	___	___	_____
12. Dash shall be faced with soft molded plastic.	___	___	_____
13. There shall be a soft textured steering wheel with center horn at the operator position with tilt and telescopic steering wheel.	___	___	_____
14. Sweeper shall have an automatic electronic back-up alarm.	___	___	_____
15. Sound levels within the cab shall not exceed OSHA standards.	___	___	_____
16. Cab shall feature opening front opera windows.	___	___	_____
17. Doors and ignition shall be keyed alike.	___	___	_____
18. Unheated and hand controlled west coast cab mirrors and standard hopper cross view unheated mirrors shall be provided.	___	___	_____
19. An AM/FM radio with CD player and two (2) speakers with two map lights shall be added to the sweeper.	___	___	_____
20. A limb guard shall be provided.	___	___	_____
23. Right and Left side seats shall be hiback, black cloth, air suspension seats without arm rests.	___	___	_____

**SIDE BROOMS**

1. Side broom shall be hydraulic, direct drive, vertical digger type mounted on right and left sides.	___	___	_____
2. Broom speed shall be variable, (90 RPM to 160 RPM), by operator from cab while moving independent of sweeping speed.	___	___	_____

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	Yes	No	Specification Deviations
3. Broom down pressure shall be adjustable by operator from the cab while sweeping.	___	___	_____
4. Each broom shall consist of four (4) replaceable plastic segments, filled with 26" long tempered wire.	___	___	_____
5. Broom diameter shall be not less than 36", protruding not less than 13" beyond outside of tire while sweeping.	___	___	_____
6. Electrically operated tilting mechanism allows operator to change inward / outward tip of the right sidebroom. Angle can be changed from the cab while sweeping.	___	___	_____

**MAIN BROOM**

1. Broom shall be hydraulic, direct drive, not less than 35" diameter and not less than 68" long.	___	___	_____
2. Broom speed shall be variable, (80 RPM to 140 RPM), by operator from cab while moving independent of sweeping speed.	___	___	_____
3. Sweeping path shall be not less than 8 feet wide with one gutter broom activated.	___	___	_____
4. 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.	___	___	_____
5. The main broom shall be a heavy duty double wrap broom.	___	___	_____
6. Carbide dirt shoes are located at the outsides of the main broom. The main broom rotates between the two dirt shoes. Wings will be located at the rear of each dirt shoe.	___	___	_____
7. The dirt shoes will be carbide and offer greaseable	___	___	_____



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**Yes    No                    Specification Deviations**

linkages and “P” style front runner.

**CONVEYOR**

- |           |   |     |     |  |
|-----------|---|-----|-----|--|
| <b>1.</b> | Conveyor with Chevron style cleats and sipes shall be hydraulically driven and able to load body to 100% of rated useable capacity.   | ___ | ___ |  |
| <b>2.</b> | Conveyor shall be reversible in direction without stopping or reversing any broom.  | ___ | ___ |  |
| <b>3.</b> | Conveyor shall be capable of effectively sweeping debris of varying sizes (large bulky trash 6” in height to fine sand) with the need to make any adjustments to the conveyor system. | ___ | ___ |  |
| <b>4.</b> | A conveyor belt having molded Chevron style cleats and sipes shall carry, not drag, debris to the hopper.   | ___ | ___ |  |
| <b>5.</b> | Cleans lower conveyor roll by diverting fill water, at hydrant pressure, through the conveyor roll area.  | ___ | ___ |  |

**HOPPER**

- |           |   |     |     |  |
|-----------|---|-----|-----|--|
| <b>1.</b> | The hopper shall be front dumping.  | ___ | ___ |  |
| <b>2.</b> | Hopper shall dump at varying heights ranging from ground level through a height of 9 ½ feet.                | ___ | ___ |  |
| <b>3.</b> | Hopper shall have a dumping reach of 33 inches forward.   | ___ | ___ |  |
| <b>4.</b> | Tilt arm bearings shall be permanently – lube Teflon impregnated composite.                                 | ___ | ___ |  |
| <b>5.</b> | Dump cycle shall be not more than 60 seconds.   | ___ | ___ |  |
| <b>6.</b> | Volumetric capacity shall be not less than 3.6 cubic yards, useable capacity not less than 3.5 cubic yards. | ___ | ___ |  |

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	Yes	No	Specification Deviations
<b>WATER SYSTEM</b>			
1. Tank capacity shall be not less than 220 U.S. gallons.	___	___	_____
2. Tank shall be constructed of non-rusting material (polyethylene or 7 gauge type 304 stainless steel).	___	___	_____
State Tank Construction:			_____
3. Pump shall be a 5 chamber diaphragm pump that is self-priming and capable of running dry.	___	___	_____
4. Water fill gauge shall be visible from normal operating position.	___	___	_____
5. Sweeper shall be equipped with an automatic internal hopper / conveyor flush and wash down system.	___	___	_____
6. Water fill hose shall be not less than 16'8" in length, equipped with 2 1/2" NST hydrant coupler.	___	___	_____
7. Storage basket shall be provided for fill hose.	___	___	_____
<b>HYDRAULIC SYSTEM</b>			
1. Power shall be provided by shaft and gear driven pumps.	___	___	_____
2. Hydraulic reservoir shall be not less than 33 gallons, baffled and with sight gauge.	___	___	_____
3. Test ports shall be at staggered height, including individual ports for sweeping functions, hopper functions and propulsion.	___	___	_____
4. The reservoir vent shall be equipped with 10 micron, spin on filter.	___	___	_____
5. Suction lines for drive to have 10 micron filter with cab mounted restriction indicator.	___	___	_____
6. Return lines for drive to have 10 micron filter with	___	___	_____

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	Yes	No	Specification Deviations
cab mounted restriction indicator.			
7. All oil added shall pass through 10 micron filter located within the fill spout.	___	___	_____
8. The hydraulic cooler shall be mounted alongside the water radiator.	___	___	_____
9. Cooler shall be protected by a 125 PSI bypass valve.	___	___	_____
10. All pressure hydraulic fittings shall be flat-face "O" ring or "o" ring boss type.	___	___	_____
11. All circuits shall have quick-disconnect check ports.	___	___	_____
12. A warning indicator shall be supplied to warn operator if the hydraulic oil in the reservoir falls below the acceptable level required.	___	___	_____

**ELECTRICAL**

1. Unitized alternator / regulator shall be not less than 120 ampere.	___	___	_____
2. Battery shall be maintenance free, 12 Volt, 180 minimum reserve, 925 CCA.	___	___	_____
3. All electrical circuits shall be protected with automatically self-resetting circuit breakers which do not require any action by the operator to reset.	___	___	_____
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.	___	___	_____
5. All wiring shall be harnessed, identified by color coded and word coded wires (i.e. "Ignition", "Headlight", etc.).	___	___	_____

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	Yes	No	Specification Deviations
6. All terminals shall be properly crimped and splices ultrasonically welded.	___	___	_____
7. All electrical splices shall be fully and completely insulated with heat shrinkable tubing.	___	___	_____
8. All electrical connections shall be sealed with weatherproof, polarized connectors.	___	___	_____
9. Electrical system shall have complete plug-in diagnostics that include fault codes and troubleshooting.	___	___	_____
10. Sweeper shall be provided with one LED Strobe with Guard.	___	___	_____

**CONTROLS**

1. All sweeper controls shall be mounted on a central control console with locking ignition for use from either the right or left position.	___	___	_____
2. The controls shall include all sweep, spray water, and lighting functions.	___	___	_____
3. The controls for sweep, spray water, and lighting functions shall be conventional rocker switches.	___	___	_____
4. Rocker switches shall be clearly identified by name and international symbol.	___	___	_____
5. Hydraulic functions shall be controlled by electric rocker switches.	___	___	_____
6. Hopper dump functions shall be controlled by a single joystick that meets the SAE standard.	___	___	_____

**INSTRUMENTS**

1. Instrument panel shall be full vision illuminated with tachometer, hour meter, speedometer, odometer,	___	___	_____
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City of Grand Forks Public Works Operations Division  
3-Wheel Front Dump Street Sweepers

**Yes    No                    Specification Deviations**

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.

- |           |   |      |      |  |
|-----------|---|------|------|--|
| <b>2.</b> | An automatic rear view camera with full color 5.6" LCD monitor shall be provided. Camera monitor shall 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. | ____ | ____ |  |
| <b>3.</b> | An in-cab dash mounted gauge to indicate when the air cleaner is restricted.  | ____ | ____ |  |

**PAINT**

- |           |   |      |      |  |
|-----------|---|------|------|--|
| <b>1.</b> | 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. | ____ | ____ |  |
| <b>2.</b> | Color shall be the manufacture's standard color of "White".   | ____ | ____ |  |
| <b>3.</b> | Vehicle shall have an accent color of "Grey" on the lower portions of the unit.   | ____ | ____ |  |



Public Works  
Department

— *City of Grand Forks* —

724 N. 47<sup>th</sup> St. • P.O. Box 5200 • Grand Forks, ND 58206-5200

(701) 738-8740

Fax (701) 738-8749

## **NOTICE TO CALL FOR BIDS**

NOTICE IS HEREBY GIVEN THAT THE CITY OF GRAND FORKS IS REQUESTING SEALED BIDS FOR THE FOLLOWING:

**Bid #2019-6 3-WHEEL FRONT DUMP STREET SWEEPERS**

FOR MORE INFORMATION ON THE BIDS AND A COPY OF THE BIDDING DOCUMENT AND SPECIFICATIONS, GO TO [www.grandforksgov.com](http://www.grandforksgov.com) OR CONTACT LEAHRAE AMUNDSON, PUBLIC WORKS OPERATIONS DIRECTOR AT THE PUBLIC WORKS DEPARTMENT, 724 N. 47TH STREET, GRAND FORKS, ND 58203, OR CALL 701-738-8740.

MAUREEN STORSTAD  
FINANCE AND ADMINISTRATIVE SERVICES DIRECTOR