

City of Scottsbluff, Nebraska

Monday, March 19, 2018

Regular Meeting

Item Consent2

Council to approve the bid specifications for the purchase of a new street sweeper and authorize the city clerk to advertise for bids to be received by April 10, 2018 at 10:00 a.m.

Staff Contact: Mark Bohl, Public Works Director

Agenda Statement

Item No.

For Meeting of: March 19, 2018

AGENDA TITLE: Council to approve advertisement for bids to purchase a street sweeper.

SUBMITTED BY DEPARTMENT/ORGANIZATION: Transportation

PRESENTATION BY: City Manager Nathan Johnson

SUMMARY EXPLANATION: The Transportation Department is requesting approval to purchase a new street sweeper for the department.

BOARD/COMMISSION RECOMMENDATION:

STAFF RECOMMENDATION: The Transportation Department is recommending the approval to advertise for bids to purchase a street sweeper to replace an older existing street sweeper which will be used as a trade-in.

EXHIBITS

Resolution ☐

Ordinance ☐

Contract ☐

Minutes ☐

Plan/Map ☐

Other (specify) approve the purchase of a new regenerative air street sweeper

NOTIFICATION LIST: Yes ☒ No ☐ Further Instructions ☐

Please list names and addresses required for notification.

- Elliott Equipment- Jeff Ketelsen
4427 South 76th Circle
Omaha, NE 68127
- Nebraska Environmental Products- Greg Oliverius
5360 Alvo Road
Lincoln, NE 68514
- Floyd's Truck Center- Tom Cooper
322 S Beltline Hwy East
Scottsbluff, NE 69361
- Mid-Iowa Solid Waste Equipment Co., Inc.- Mark Davis
5105 NW Beaver Drive
Johnston, IA 50131

APPROVAL FOR SUBMITTAL: _____
City Manager

BIDDING DOCUMENTS

**FOR PURCHASE OF
ONE, NEW 2018 OR NEWER
REGENERATIVE AIR STREET SWEEPER
(Truck, Cab, Chassis and Hopper Body)**

FOR TRANSPORTATION DEPARTMENT



**City of Scottsbluff, Nebraska
2525 Circle Drive
Scottsbluff, Nebraska 69361**

March 19, 2018

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**CITY OF SCOTTSBLUFF, NEBRASKA
ADVERTISEMENT FOR BIDS**

Regenerative Air Street Sweeper- Truck, Cab, Chassis and Hopper Body

Sealed bids will be received by the City of Scottsbluff, Nebraska at the office of the City Clerk, 2525 Circle Drive, Scottsbluff, NE 69361, until 10:00 a.m., (M.S.T.) April 10, 2018, for furnishing one new Regenerative Air Street Sweeper complete with truck, cab, chassis, and hopper body.

Complete Bidding Documents are available and may be obtained from the City of Scottsbluff at the above referenced address. Bids shall be submitted in a sealed envelope addressed to the City of Scottsbluff with the name "Bid for Street Sweeper Vehicle" and include the date and time of bid opening.

The City reserves the right to reject any and/or all Bids, waive any informality in the Bids received and to accept the Bids it deems most beneficial to the City.

/s/Cindy Dickinson, City Clerk

Publish 3F: March 23, 2018
March 30, 2018
April 6, 2018

INFORMATION TO BIDDERS

Bids will be received by the City of Scottsbluff, Office of the City Clerk (hereinafter called the "Owner"), at the City of Scottsbluff, 2525 Circle Drive, Scottsbluff, Nebraska 69361 in accordance with the advertisement for bids and then publicly opened and read aloud.

DEFINED TERMS

The term "Bidder" means one who submits a Bid directly to Owner, as distinct from a sub-bidder, who submits a bid to a Bidder.

The term "Successful Bidder" means the lowest, qualified, responsible and responsive Bidder to whom Owner (on the basis of Owner's evaluation as hereinafter provided) makes an award and both parties agree to deliver and purchase the Equipment according to the Bidding Documents submitted.

The term "Bidding Documents" includes the Advertisement or Invitation to Bid, instructions to Bidder, the Bid Form, and the proposed Bid Documents (including all Addenda issued prior to receipt of Bids).

The term "Equipment" refers to a complete vehicle and all parts of the regenerative air sweeper including the truck, cab, chassis and hopper body.

COPIES OF BIDDING DOCUMENTS

Complete sets of the Bidding Documents stated in the Advertisement or Invitation to Bid may be obtained from the Owner.

Complete sets of Bidding Documents must be used in preparing Bids; Owner does not assume any responsibility for errors or misinterpretations resulting from the use of incomplete sets of Bidding Documents.

Owner in making copies of Bidding Documents available on the above terms do so only for the purpose of obtaining Bids on the Equipment and do not confer a license or grant for any other use.

EXAMINATION OF BIDDING DOCUMENTS

It is the responsibility of each Bidder before submitting a Bid, to:

Examine the Bidding Documents thoroughly,

Consider Federal, State and Local Laws and Regulations that may affect cost, progress, performance or furnishing of the Equipment,

Study and carefully correlate Bidder's observations with the Bidding Documents, and

Notify Owner of all conflicts, errors or discrepancies in the Bidding Documents.

The submission of a Bid will constitute an incontrovertible representation by Bidder that Bidder has complied with every requirement of this Request for Bids, that without exception the Bid is premised upon performing and furnishing the Equipment required by the Bidding Documents, and such means, methods, techniques, sequences and procedures as may be indicated in or required by the Bidding Documents, and that the Bidding Documents are sufficient in scope and detail to indicate and convey understanding of all terms and conditions for performance, furnishing and delivering the Equipment.

Reference is made to the Supplementary Conditions for identification of:

Provisions concerning responsibilities for the adequacy of data furnished to prospective Bidders on possible changes in the Bidding Documents due to differing conditions.

INTERPRETATIONS AND ADDENDA

All questions about the meaning or intent of the Bidding Documents are to be directed to the Owner. Interpretations or clarifications considered necessary by Director of Environmental Services in response to such questions will be issued by Addenda mailed or delivered to all parties recorded by the Owner as having received the Bidding Documents. Questions received less than ten (10) days prior to the date for opening of Bids may not be binding. Oral and other interpretations or clarifications will be without legal effect.

Addenda may also be issued to modify the Bidding Documents as deemed advisable by Owner.

SUBMISSION OF BIDS

Bids shall be submitted at the time and place indicated in the Advertisement or Invitation to Bid and shall be enclosed in an opaque sealed envelope, marked with the title and name and address of the Bidder and accompanied by required documents. If the Bid is sent through the mail or other delivery system, the sealed envelope shall be enclosed in a separate envelope with the notation "BID ENCLOSED" on the face of the envelope.

BIDS TO REMAIN SUBJECT TO ACCEPTANCE

All bids will remain subject to acceptance for sixty (60) days after the day of the Bid opening, but Owner may, in its sole discretion, release any Bid prior to that date.

BID FORM

The Bid Form is included with the Bidding Documents; additional copies may be obtained from the Owner.

All blanks on the Bid Form must be completed in ink or typed.

Bids by corporations must be executed in the corporate name by the president or vice-president (or other corporate officer accompanied by evidence of authority to sign) and the corporate seal must be affixed and attested by the secretary or an assistant secretary. The corporate address and state of incorporation must be shown below the signature.

Bids by partnerships must be executed in the partnership name and signed by a partner, whose title must appear under the signature and the official address of the partnership must be shown below the signature.

All names must be typed or printed below the signature.

The Bid shall contain an acknowledgment of receipt of all Addenda (the numbers of which must be filled in on the Bid Form).

The address and telephone number for communication regarding the Bid must be shown.

QUALIFICATIONS OF BIDDERS

Bidder furnishing the Equipment as stated herein must be an authorized franchise dealer and full service center licensed for the type of truck to be furnished. Bidder shall be located within a fifty mile radius of Scottsbluff, Nebraska.

Bidders shall have a minimum of two years as a factory authorized dealer/distributor and service center stocking parts and providing service.

BID TIME

The number of days within which, or the dates by which, the Equipment is to be completed is set forth in the Bidding Documents.

LIQUIDATED DAMAGES

Provisions for liquidated damages, if any, are set forth in the Bidding Documents.

SUBSTITUTE OR 'OR-EQUAL' ITEMS

The Bid, if awarded, will be on the basis of Equipment described in the Specifications without consideration of possible substitute or "no-equal" items. Whenever it is indicated in the Specifications that a substitute or "or-equal" item of Equipment may be furnished or used by Bidder if acceptable to Owner, application for such acceptance will not be considered by the Owner until the Bid is awarded. The procedure for submission of any such application by Bidder and consideration by Owner is set forth herein and may be supplemented in the Bid Specifications.

NOTIFICATION AND WITHDRAWAL OF BIDS

Bids may be modified or withdrawn by an appropriate document duly executed (in the manner that a Bid must be executed) and delivered to the place where Bids are submitted at any time prior to the opening of Bids.

OPENING OF BIDS

Bids will be opened and (unless obviously non-responsive) publically opened and read aloud.

AWARD OF BID

Owner reserves the right to reject any and all Bids, to waive any and all informalities not involving price, time or changes in Equipment and to negotiate terms with the Successful Bidder, and the right to disregard all nonconforming, non-responsive, unbalanced or conditional Bids. Owner also reserves the right to reject the Bid of any Bidder if Owner believes that it would not be in the best interest of the Owner to make an award to that Bidder, whether because the Bid is not responsive or the Bidder is unqualified or if doubtful financial ability or fails to meet any other pertinent standard or criteria established by Owner.

In evaluating Bids, Owner will consider the qualifications of the Bidders, whether or not the Bids comply with the Bidding Documents, and such alternates, unit prices and other data, as may be requested in the Bid Form or prior to the Notice of Award.

Owner may consider the qualifications and experience of Subcontractors, Suppliers, and other persons and organizations proposed for those portions of the Equipment as to which the identity of Subcontractors, Suppliers, and other persons and organizations must be submitted as provided in the Supplementary Conditions. Owner also may consider the operating costs, maintenance requirements, performance data and guarantees of major items of materials proposed for incorporation in the Equipment when such data is required to be submitted prior to the Notice of Award.

Owner may conduct such investigations as Owner deems necessary to assist in the evaluation of any Bid and to establish the responsibility, qualifications and financial ability of Bidders, proposed Subcontractors, Suppliers and other persons and organizations to perform and furnish the Equipment in accordance with the Bidding Documents to Owner's satisfaction within the prescribed time.

The lowest and most responsible Bidding Documents will constitute and become a binding agreement between the Owner and the Bidder to deliver the Equipment for the price and within the time indicated in the Bid. The Bid will be awarded to the Bidder whose evaluation by Owner indicates to Owner that the award will be in the best interest of the Owner. The right is reserved in the interest of the Owner to reject any or all Bids and to waive any informality in the Bids received.

If the Bidder's Bidding Documents are accepted, Owner will give the Successful Bidder a Notice of Award within sixty (60) days after the day of the Bid opening.

SUPPLEMENTARY CONDITIONS TO THE BID

PAYMENTS TO SUCCESSFUL BIDDER

The City will make payment within thirty (30) days of receipt and approval of Equipment.

INSURANCE

It is the sole responsibility of Bidder to provide full insurance on Equipment until delivery and final acceptance by Owner.

BIDDERS RESPONSIBILITY & FURNISHED ITEMS

Truck Chassis:

The Owner will require that the Equipment be furnished within the following time schedule:

The Bidder shall be required to deliver the Equipment within ninety (90) calendar days of the date of the Notice of Award. If the Bidder cannot meet this schedule, the Bidder shall so note on the Bid/Quotation Form.

Bidder providing chassis will be responsible for delivering chassis to awarded Hopper Body company. Company providing chassis is responsible for notifying Owner when chassis is delivered to Hopper Body Company.

If the Equipment is not delivered on or before the date as stated herein for completion, or as may be extended by the Owner, the Bidder shall pay the Owner liquidated damages in the amount of \$100.00 per day for each and every consecutive calendar day that the Equipment has not been delivered/incomplete after the date set for completion or the date noted by the Bidder on the Bid/Quotation Form in the event the Owner deems this necessary.

Hopper Body:

The Owner will require that the Equipment be furnished within the following time schedule:

The Bidder shall be required to deliver the Packer body within forty (40) calendar days of the date of the delivery of the chassis to the Packer body company. If the Bidder cannot meet this schedule he shall so note on the Bid/Quotation Form.

The completed Equipment, truck, chassis and hopper body shall be delivered to the Owner at the Transportation Department located at 1105 3rd Avenue, Scottsbluff, NE 69361.

If the hopper body is not delivered on or before the date fixed for completion, or as may be extended by the Owner, the Bidder shall pay the Owner liquidated damages in the amount of \$100.00 per day for each every consecutive calendar day that the Equipment has not been delivered/incomplete after the date set for completion or the date noted by the Bidder on the Bid/Quotation Form in the event the Owner deems this necessary.

DELIVERY AND MANUFACTURER WARRANTY

Bidder shall provide a minimum of two hours of operational and maintenance instruction for the Owner at the Transportation Department located at 1105 3rd Avenue, Scottsbluff, NE 69361. The Bidder shall notify the Owner in advance for scheduling the introductory operations. Two copies of operational manuals and parts books shall be furnished with the Equipment upon final delivery.

A copy of the manufacturer warranty and brief summary shall be provided with all Equipment at the time of delivery. The Equipment warranty shall be a minimum of what is specified in the detailed specifications.

POINTS OF CONTACT

City of Scottsbluff
2525 Circle Drive
Scottsbluff, NE 69361

Brett Bewley, Supervisor of Transportation,
(308) 630-6297

Wayne Lund, Lead Maintenance Mechanic,
(308) 630-6268

BIDDING INFORMATION

INSTRUCTIONS TO BIDDERS

1. All Bids shall be submitted on Bid Forms provided for this purpose in order that they may be properly compared and evaluated.
2. The Bid shall be for one (1) New Regenerative Air Street Sweeper.
3. The Bid shall be quoted F.O.B. Scottsbluff, Nebraska.
4. Bids shall state the Make and Model of proposed unit(s) and include complete detailed specifications with manufacturer's brochure, specifying the identical model(s) being bid.
5. The Owner is exempt from Federal Excise or State Sales Taxes. The Owner will furnish a tax exemption certificate.
6. The Bids shall be submitted to the Owner's City Clerk's office by 10:00 A.M., Tuesday, April 10, 2018, in a sealed envelope, and the envelope clearly marked "Bid on Street Sweeper".
7. The Owner reserves the right to reject any and all bids and to waive any irregularities for any reason deemed necessary.
8. Award of Bid by the Owner to the Successful Bidder will then mean the Successful Bidder's Documents will constitute and become a binding agreement to deliver the Equipment to the Owner for the price and with the time indicated in the Bid.
9. Owner will pay for Equipment meeting all specifications upon proper documentation of same, no sooner than the first City Council meeting of the Owner following delivery of same.
10. Delivery time from award of bid shall be ninety (90) days or less.
11. Price that is stated in the Bidding Documents shall be good for 30 calendar days following bid opening and shall be Bidders agreement to deliver Equipment at that price.
12. Actual Equipment being bid must be available for inspection by Owner personnel after the bids are opened and before the next City Council meeting of the Owner when the purchase will be approved.
13. Any items of noncompliance or variations to the minimum specification requirements listed on the following pages shall be written and submitted with the Bidding Documents.
14. The submitted bids shall include a trade-in allowance for a 2014 Elgin Broom Badger which is available for inspection at the Owner's Garage.
15. Each Bidder must have a current Nebraska motor vehicle dealer's license, per Chapter 60, Article 14, of the Nebraska statutes.

BID FORM

1. Equipment: Bidding documents for a “New Regenerative Air Street Sweeper including, Cab, Chassis, and Hopper Body for the City of Scottsbluff, Nebraska.
2. THIS BID IS SUBMITTED TO: City of Scottsbluff
 2525 Circle Drive
 Scottsbluff, Nebraska 69361
 Telephone: (308) 630-6221
 Fax: (308) 630-6294
3. The undersigned Bidder proposes and agrees, if this Bid is accepted, the Bidding Documents become a binding agreement with the Owner to supply a new Street Sweeper as specified or indicated in the Bidding Documents for the price and within the time indicated in this Bid, and in accordance with the other terms and conditions of the Bidding Documents.
4. Bidder accepts all of the terms and conditions of the Advertisement or Invitation to Bid and Instructions to Bidders. This Bid will remain subject to acceptance for thirty (30) days after the day of the Bid opening.
5. In submitting this Bid, Bidder represents, as more fully set forth in the Bidding Documents, that:
6. Bidder has examined copies of all the Bidding Documents and or the following Addenda (receipt of all which is hereby acknowledged):

ADDENDUM NUMBER(S)	DATED

7. Bidder is familiarized with the nature and extent of the Bidding Documents. and all local conditions and Laws and Regulations that in any manner may affect cost, progress, performance or furnishing of the Equipment.
8. Bidder has given Owner written notice of all conflicts, errors or discrepancies that it has discovered in the Bidding Documents and the written resolution thereof by Owner is acceptable to Bidder.
9. This Bid is genuine and not made in the interest of or on behalf of any undisclosed person, firm or corporation and is not submitted in conformity with any agreement or rules of any group, association, organization or corporation; Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid; Bidder has not solicited or induced any person, firm or corporation to refrain from bidding; and Bidder has not sought by collusion to obtain from itself any advantage over any other Bidder or over Owner.
10. Other representation required by Laws and Regulations.

11. Bidder will supply the Equipment as set forth in the Bidding Documents for the following prices.

12. Bidder agrees that the completion of delivery of Equipment will be as follows:

The Bidder shall be required to deliver the Equipment within ninety (90) calendar days of the date of the Notice of Award. If the bidder cannot meet this schedule, the bidder shall so note on the Bid/Quotation Form.

If other completion dates are proposed, please list as an exception following:

List – other completion/delivery date

13. If no exception is taken to the specified completion, the Owner and Bidder agree that as liquidated damages for delay (but not as penalty) Bidder shall pay Owner One Hundred Dollars (\$100.00) per day for each day that expires after the time specified until the work is complete.

**BID FORM
TRUCK, CAB & CHASSIS
STREET SWEEPER**

The Bidder proposes and agrees, if the Bid is accepted, to furnish Equipment meeting or exceeding the minimum specifications specified for the price and within the time indicated in this Bid. This Bid will remain subject to acceptance for thirty (30) days after the date of Bid opening.

Bidder shall use and complete all items on the bid forms.

A copy of the manufacturer's warranty shall be attached to the bid forms (minimum 2 years).

TRUCK, CAB & CHASSIS

Includes furnishing, servicing, and delivering to Hopper Body Company operation and maintenance instruction and all other items necessary to complete the equipment transaction; except those items specifically listed hereafter for the following Lump Sum Price:

1 each at:

_____	\$ _____
(Words - Lump Sum Price)	(Figures L.S.)

Delivery if other than 90 calendar days: (specify): _____

Total Calendar Days

List: Factory Authorized Parts & Service Center

_____	_____
Address	Years at Present Location

CONTACTS:

Parts: _____	Service: _____
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Telephone: _____	Telephone: _____
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HOPPER BODY

The Bidder proposes and agrees, if the bid is accepted, to furnish Equipment meeting or exceeding the minimum specifications specified for the price and within the time indicated in this Bid. This Bid will remain subject to acceptance for thirty (30) days after the date of Bid opening.

A copy of the manufacturer's warranty shall be attached to the bid forms.

1 each at:

_____ \$ _____
(Words - Lump Sum Price) (Figures L.S.)

Delivery (calendar days specified): _____

After receipt of Equipment (cab and chassis) Total Calendar Days

TRADE-IN ALLOWANCE

The bidder proposes and agrees, if the bid is accepted, to deduct the trade-in allowance from the Bidder's Proposal. This bid will remain subject to acceptance for thirty (30) days after the date of bid opening.

1 each at:

_____ \$ _____
(Words - Lump Sum Price) (Figures L.S.)

List: Year, Make and Model: 2014 Elgin Broom Badger (inspect at City Garage)

TOTAL BID PROPOSAL

The Bidder proposes and agrees, if the Bid is accepted, to furnish Equipment meeting or exceeding the minimum specifications specified for the price and within the time indicated in this Bid. This Bid will remain subject to acceptance for thirty (30) days after the date of Bid opening.

Truck, Cab, Chassis: \$ _____

Hopper Body: \$ _____

(less) Trade-in Allowance: \$ _____

Total cost of all Equipment, warranties and delivery including trade-in allowance:

_____ \$ _____
(Words - Lump Sum Price) (Figures L.S.)

Final Delivery: time from date order placed
to vendor shall be ninety (90) days or less.

Total Calendar Days

DETAILED SPECIFICATIONS FOR

City of Scottsbluff's Regenerative Air Street Sweeper

		COMPLY	
		YES	NO
1.0	EQUIPMENT		
1.01	The six-wheeled regenerative air sweeper must be able to pick-up chip seal and other heavy road debris.		
2.0	EQUIVALENT PRODUCT		
2.01	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 Scottsbluff 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.		
3.0	INTERPRETATIONS		
3.01	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 Scottsbluff Clerk. Based upon such inquiry, the City of Scottsbluff Clerk may choose to issue an Addendum.		
4.0	GENERAL		
4.01	The specification herein states the minimum requirements of the City of Scottsbluff. All bids must be regular in every respect. Unauthorized conditions, limitations, or provisions shall be cause for rejection. The City of Scottsbluff 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 Scottsbluff 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	SWEeper ENGINE		
5.01	Shared power (patent # 9,010,467) is defined as a sweeper system that is power-driven by a combination of chassis and auxiliary engine horsepower. For gained economy, the sweeper system shall utilize horsepower captured by chassis regenerative braking.		
5.1.a	At sweeping vehicle speed, the chassis engine shall be capable of propelling the vehicle and providing additional horsepower for sweeping functions via the shared power system. The chassis typically has a minimum of 50 hp (37 kW) available while at idle. Please refer to Chassis section 2.0 for type of chassis engine listed.		
5.1.b	Auxiliary diesel engine shall be 4 cylinder, turbocharged, dynamically counter balanced 276 CID (John Deere 4045T or equal). Engine must be EPA Tier 4 "final" and CARB emission compliant. Engine must be EPA Tier 4i Emission compliant but subject to change based on EPA emission compliant engine availability and future emission regulatory changes.		
5.02	Auxiliary engine horsepower rating shall be 74 (55 kW) @ 2400 RPM, torque 224 lb-ft @1600 RPM.		
5.03	Auxiliary engine shall drive the blower "fan" by a heavy-duty five (5) "V" groove power belt for		

	simplicity and ease of maintenance.		
5.04	Auxiliary engine shall have ECU for throttle control and management of after treatment system.		
5.05	Auxiliary engine shall be protected by a dual safety element dry type air cleaner & restriction indicator that indicates it is time to service the filter element.		
5.06	Auxiliary engine shall be filled with 50/50 mixture anti-freeze/water for cold weather storage and or operation.		
5.07	For greater heat dissipation, less noise and lower cost of maintenance, auxiliary engine shall have individually replaceable wet sleeve cylinder liners.		
5.08	To accommodate both easy access and sound attenuation, the engine shall be enclosed on both sides by two access doors, one on each side of the sweeper body. These doors provide access to serviceable items without tilting the hopper.		
6.0	BLOWER		
6.01	Blower shall be driven by a heavy duty power belt for maximum performance and simplicity of construction, with manual tension adjustment not requiring repositioning of the engine.		
6.02	Shared power system shall provide all horsepower for fan speed of 3400 RPM to effectively convey the bulk of material into the debris hopper; debris types such as but not limited to trash, sand, gravel, dirt, leaves and other organics.		
6.03	Blower shall be a computer balanced open or closed face heavy duty turbine constructed of heavy duty material for optimal combination of hardness and abrasion resistance for maximum service life.		
6.05	The blower housing shall be constructed of 10 gauge steel and lined with 0.25" thick Linatex natural rubber for maximum extended wear in abrasive environments.		
6.07	Blower housing shall have an inspection door for access to blower without removing the blower housing or looking into the air exhaust opening.		
6.08	Blower housing shall not be an integral part of the hopper. Replacement of the blower housing must be possible without any cutting and/or welding of the housing and or hopper.		
6.09	The blower shall be mounted and supported on both sides by heavy-duty bearings.		
6.10	The blower must not be directly exposed or open to the dust separator to preclude carry-over of material from the separator into the blower and blower housing.		
6.11	The blower shall be equipped with an electric actuated Flow Blocker, which can be controlled from within the cab, incorporated on the inlet side of the blower housing that minimizes fugitive dust during the raising or lowering of the pickup head.		
7.0	PICKUP HEAD		
7.01	The pickup head is a spring-balanced, all steel fabricated pickup head with separated upper and lower chambers where pressurized air is blasted from the upper chamber through an elongated blast orifice, to the lower vacuum chamber.		
7.02	The pickup head shall be no more than 90 inches wide and 41 inches long.		
7.03	The pickup head shall have a minimum of 14 inch diameter pressure hose that connects the blower outlet with the pickup head.		
7.04	The pickup head shall have a minimum 12 3/4 inch diameter suction hose with a quick disconnect coupling at the lower area near the pickup head. The quick disconnect enables the operator to inspect the suction hose as well as the inlet area of the pickup head without tilting the hopper.		
7.05	The pressure side shall be equipped with an electric actuated pressure relief valve/vacuum enhancer/leaf bleeder, for optimum leaf and light debris sweeping. The control for this feature must be in-cab positional information for operator.		
7.06	The front and rear debris curtains shall be removable without removing the pickup head from the unit.		
7.11	The pickup head shall be equipped with side mounted adjustable steel runners with carbide inserts with a minimum width of 1 1/8 inches for maximum pickup performance and long life.		
7.12	The pickup head shall be raised and lowered hydraulically by a rocker switch on the control panel inside the cab.		
8.0	SIDE BROOMS		

8.01	The right and left side broom shall be a free floating trailing arm design with inward motion safety to prevent damage when sweeping and encountering a fixed obstacle. The trailing arm shall be of a parallelogram design for simple, non-binding action/motion and for constant bristle and wear pattern.		
8.02	The side brooms shall be 42-inch diameter minimum, with hydraulically driven rotation.		
8.03	Brooms shall be pneumatically raised, lowered and suspended.		
8.04	Adjustable down pressure shall be pneumatically controlled by the operator from the cab in order to maintain proper surface contact consistently during vertical broom travel.		
8.05	The broom hydraulic motor drive shall provide not less than 6045 in/lbs. of torque for superior digging power.		
8.06	The side broom assemblies shall have greaseless pivot pins.		
8.07	The side broom assemblies shall be held in the storage position by a positive means to support broom during travel.		
8.08	Each side broom shall be controlled from in the cab by simple rocker switches.		
8.12	The variable speed control provides the ability to alter the rotational speed on the Sidebrooms to adjust to changing road or sweeping conditions from light, bulky to heavy debris. It also extends the life of the Sidebrooms. It does not always have to turn fast for particular conditions so the Sidebrooms will wear less.		
8.13	Electrically operated tilting mechanism allows operator to change inward/outward tip of the right Sidebroom. Angle can be changed from the cab while sweeping. This allows efficient sweeping of irregular surface that could require special manual setting of the broom.		
8.15	The side broom control system must allow the broom to be retracted while sweeping, to provide scrubbing action in front of the pickup head. This feature shall be controlled from the operator console		
9.0	HOPPER		
9.01	Volumetric capacity shall be 7.3 cubic yards minimum.		
9.05	The hopper shall have an external hopper prop. No exception to this feature shall be accepted.		
9.06	A removable, adjustable, abrasion resistant "scoop" style steel deflector shall be located at the suction inlet. This scoop is to direct material to the center of the hopper for optimal loading.		
9.08	Hydraulic cylinder movement shall be controlled by two hydraulic valve levers or electric toggle switch located on the side of the hopper to view discharging of debris out of the hopper during dumping for maximum safety.		
9.09	The rear hopper door shall have an external door prop. No exception to this feature shall be accepted.		
9.10	The hopper rear door shall include an automatic lock mechanism for a tight fit and optimal sealing between the hopper and the rear door.		
9.11	The rear door seal shall be a water resistant heavy-duty reinforced D style rubber seal for optimal sealing. Foam seals that can absorb moisture and freeze are not acceptable.		
9.12	Screens shall be installed to allow air to move freely from the hopper into the centrifugal dust separator.		
9.13	The LifeLiner Hopper System shall be provided to protect the hopper against corrosion and wear and to facilitate the removal of the debris when dumping. This liner system shall provide protection such that the hopper will be warranted for the life of the sweeper. Bare steels including stainless steels are unacceptable as they do not provide sufficient protection for long term wear.		
9.20	An inspection door is built into the left side of the hopper, the door allows odd sized debris to be put manually into the hopper.		
9.22	An inspection door is built into the left side of the hopper. This option also provides an additional step, mounted on the rear bumper, and an easy to reach handle, mounted on the right side of the hopper, that both provide easy access to the inspection door and excellent viewing of the load in the hopper.		
9.24	The 8 in. (203 mm) diameter, 9.5 ft. (2,896 mm) long wandering hose is located at the rear of the machine. It is capable of deep cleaning catch basins with controls at your fingertips. Push buttons mounted on the suction nozzle control the hydraulically assisted up and down movement of the nozzle. Spray water is injected for dust control and hose lubrication. This system is		

	approved for the addition of (4) 4 ft. aluminum wandering hose extensions.		
9.28	Two four ft. (1,219 mm) long steel extension can be used with the hydraulically assisted wandering hose. Steel tubes can be assembled up to 12 feet (3,657 mm) in length (limit 3).		
9.33	Dump control shall consist of weatherproof toggle switches located on the exterior right side of sweeper along with In-cab dump switches -- hopper raise/lower and hopper door open/close -- shall also be included."		
9.34	Hopper may have a vibrating system to assist in material removal.		
10.0	DUST SEPARATOR		
10.01	Dirt separation from the air stream shall be accomplished by means of a Labyrinth style dust separator that is installed at the air return outlet of the hopper. The separator shall be designed so that it will not plug with regular debris.		
10.1.a	To allow inspection and cleaning of the separator interior, the dust separator shall have minimum of two hinged inspection doors. Both doors are self-opening when tilting the hopper.		
10.1.b	To allow automatic discharge of debris when tilting the hopper, the dust separator shall have a self-opening door made of abrasion resistant steel. Cable or other manual/mechanical means required for discharging the separator are not allowed.		
10.02	The dust separator shall have a maximum of two easy to open inspection doors allowing inspection and cleaning of the separator interior. Both doors are self-opening when tilting the hopper.		
10.03	The dust separator shall have a self-opening door made of abrasion resistant steel allowing automatic discharge of debris when tilting the body. Cable or other manual/mechanical means required for discharging the separator are not allowed.		
11.0	SPRAY WATER SYSTEM		
11.01	The water tank shall be a removable, minimum 220 gal. total capacity. Constructed of rust proof polyethylene.		
11.02	The water tank shall be frame mounted with no part sharing any common wall with the hopper and shall not raise during body dumping for better weight distribution.		
11.04	A water level gauge shall be provided on the control console within the cab.		
11.05	All water lines shall be color coded for easy identification.		
11.06	The water filter must be easy to access and clean without tilting the hopper. A ball valve must be provided at the filter inlet to allow cleaning of the filter without the loss of water from the water tank.		
11.07	All water piping shall be external to the operator cab. No water lines capable of leaking or bursting shall be within the cab.		
11.08	Three (3) water spray nozzles are located at each side broom for optimal dust control. A pivoting bracket is provided to allow for optimum positioning of the side broom spray nozzles.		
11.09	Minimum of five (5) easily removable water spray nozzles are located inside or outside the pickup head.		
11.10	Three (3) removable water spray nozzles are located at the lower portion of the suction hose for lubrication of the suction hose and to further enhance dust control.		
11.11	Two electric 12 volt, diaphragm type pumps will provide a combined flow of 8 GPM @ 40 PSI to the pickup head, the suction hose and the side brooms.		
11.12	One water pump is dedicated to supplying water to the pickup head and the suction hose for dust control.		
11.13	One water pump is dedicated to the side brooms for dust control.		
11.14	Each water pump must have two flow rates, selectable by the operator from within the cab and capable of running dry without damage.		
11.15	20 ft. (7620 mm) hose to fill the water tank is in lieu of the standard 16 ft. 8 in. (5080 mm).		
11.18	Special nozzle assembly in the body door for washing out the body. Fill hose is included that is connected to a hydrant and the wash out system in the body door.		
11.21	Unit shall include a low pressure wash down system. Also included is a 25' length of 1/2 inch diameter hose and spray nozzle with couplings on both right and left-hand side of sweeper.		
11.23	Anti-Siphon prevents water in sweeper's spray water tank from being drawn back into supply		

	water system.		
12.0	HYDRAULIC SYSTEM		
12.01	Hydraulic pump shall be a gear driven, gear style pump for maintenance free operation, having a flow capacity of 7.7 GPM @ 2500 RPM. A belt driven or PTO driven hydraulic pump is not acceptable.		
12.02	Reservoir capacity shall be not less than 23 gallons and have an exterior sight gauge. The reservoir must be located in the enclosed auxiliary engine compartment for quick inspections without tilting the hopper. All hydraulic circuits shall have quick disconnect pressure check ports for ease of maintenance.		
12.03	All hydraulic circuits shall have quick disconnect pressure check ports for ease of maintenance.		
12.04	Hydraulic oil cooler shall be standard to provide adequate cooling with fresh air intake and accessible without raising the hopper. The hydraulic system shall operate below 200°F.		
12.05	To minimize the hazards of potential leakage, all high pressure fittings shall be O-Ring Face Seal (ORFS) type. Other systems shall not be acceptable.		
13.0	PNEUMATIC SYSTEM		
13.01	There shall be a PR4 protector type pressure protector for the chassis air system.		
13.02	A separate air tank for all sweeper air components shall be provided.		
13.03	All pneumatic cylinders shall be interchangeable.		
13.04	All pneumatic cylinders must be rated to 150 PSI and have a separate rod seal and wiper to prevent contamination entering the cylinder.		
13.05	Each cylinder shall be controlled by a single, two position, solenoid valve mounted on a manifold with common input and exhaust.		
13.06	There shall be a filter with a polycarbonate bowl to filter out contaminants down to 5 microns to prevent contamination in the air system.		
14.0	ELECTRICAL SYSTEM		
14.01	Sweeper engine shall have one (1) 925 CCA, 12 volt battery.		
14.02	Sweeper engine shall have a 95 amp. alternator.		
14.03	Sweeper shall have a rear facing back-up and right side cameras for additional safety and operator awareness of surroundings.		
14.04	Sweeper shall have an electronic back-up alarm for additional warning and safety when chassis is in reverse.		
14.05	Sweeper lighting shall include rear identification lights, side broom and rear clearance lights.		
14.06	Sweeper warning lights shall include body up and body full load.		
14.07	Sweeper wiring harnesses shall be color-coded and function stamped with appropriate circuit name every four inches, i.e. "Ignition", "Side Broom" on each wire.		
14.08	All electrical circuits must be protected by manually resettable circuit breakers.		
14.14	Rear Strobe shall be provided.		
14.25	Cab & Rear Strobe shall be provided.		
14.32	Cab & Rear Strobes with LED Arrowboard shall be provided.		
14.33	GPS system installed that tracks the sweeper route throughout the day and emailed daily using cell tower communications.		
15.0	CONTROLS		
15.01	All sweeper controls shall be mounted on a stationary central console that allows for use from left position. This allows the operator to view all important auxiliary engine information from the operating position.		
15.02	The controls shall include all sweep, spray water, and lighting functions.		
15.03	The controls for sweeping, spray water, and lighting functions shall be conventional rocker switches.		
15.04	Controls for auxiliary engine ignition and throttle, side broom down pressure and manual reset circuit breakers shall be located in the control console.		
15.05	Controls for sweep system shall include sweep/resume feature; allowing the automatic raise when chassis transmission gear selector is put into reverse of side brooms and pickup head.		
15.06	Controls shall include a single switch that facilitates the deployment of all previously set sweeper		

	functions. The single switch shall control at least, pickup head position, side broom position, and broom tilt position if so equipped. System shall be Elgin Memory Sweep ® or equivalent.		
16.0	INSTRUMENTS		
16.01	Sweeper engine instruments shall include tachometer, hour meter, oil pressure, fuel, voltage, and coolant temperature for complete information for the operator on the condition of the auxiliary engine, visible from both operator positions.		
16.02	Sweeper engine instruments shall include an auxiliary engine air intake restriction gauge for ease of maintenance.		
16.03	Sweeper instruments shall include diagnostic information for the sweeper engine and sweeper functional information to include water level, sweeping mode and transport mode.		
16.04	Sweeper instruments shall include a "raised" hopper indicator, an "open" hopper door indicator and a "full" hopper indicator to notify the operator.		
16.06	Controls shall include an in-cab switch for vacuum enhancer, with percent open/close display for increased operator awareness for adjustment of pickup head vacuum level for continuous pickup of leaves and bulky debris.		
18.0	PAINT		
18.01	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 polyurethanes are not acceptable.		
18.02	Color shall be the manufacture's standard color of "White".		
18.03	Vehicle shall have an accent color of Grey on the components and lower portions of the unit.		
18.24	Chassis color shall be the manufacture's standard color of "White".		
19.0	MANUALS		
19.01	A sweeper operation manual shall be provided.		
19.02	A sweeper parts manual shall be provided.		
19.03	A John Deere operation manual shall be provided.		
19.04	A John Deere parts manual shall be provided.		
19.05	A service manual is supplied with the sweeper.		
19.22	A John Deere Service Manual is supplied with the sweeper.		
20.0	WARRANTY		
20.01	Manufacturer's warranty shall be not less than one (1) year on entire sweeper, including all parts and labor.		
20.02	Manufacturer's warranty shall be not less than three (3) years on chassis engine, including all parts and labor.		
20.03	Manufacturer's warranty shall be not less than lifetime protection against rust-through of the water tank.		
20.04	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 shall be deemed "non-responsive" and rejected without further review.		
20.12	This option extends sweeper Warranty from one year parts and labor to an additional four years parts only Warranty, chassis and chassis components excluded. Five Years total Parts Warranty.		
21.0	SERVICE AND TRAINING		
21.01	Vendors shall have a full parts and service facility within a reasonable distance from the City of Scottsbluff Garage. State location and distance.		
21.02	A qualified technician shall provide complete training to City of Scottsbluff personnel at the City of Scottsbluff Garage. Training shall include safety, operation, maintenance and service.		
22.0	DELIVERY		
22.01	Sweeper shall be delivered F.O.B. City of Scottsbluff in new operating condition.		
22.02	Acceptance shall be subject to the inspection and approval of the City of Scottsbluff.		
22.03	Bidder shall state delivery time after receipt of order:		

23.0	CHASSIS		
23.01	Sweeper shall be mounted on an approved chassis to be Freightliner or Western Star. Chassis to be left side steering only with camera mounted on right side of sweeper and tied into dash mounted monitor for back up camera. Chassis engine must have Tier IV Final emissions.		
24.0	ACCEPTABLE OPTIONAL ITEMS		
24.01	Bidder may submit a demonstrator unit as long as it meets these specifications and is 2017 model year or newer with less than 500 hours on sweep engine. Chassis must be Freightliner or Western Star.		
24.02	Sweeper that utilizes the chassis engine for sweeper functions (single engine regenerative air sweeper) will be considered. However it must meet the base specifications with the drive components ILO the sweeper engine. Bidder must perform demonstration before bid open date.		
25.0	TRADE-IN		
25.01	The City of Scottsbluff may choose, at its sole discretion, to trade in the City of Scottsbluff street sweeper in "AS-IS" condition at the time of bid opening. This vehicle is a 2014 Elgin Broom Badger with current but increasing usage of 6,800 miles and 3,200 hours available for inspection at the City of Scottsbluff Garage. Bidder shall state the amount of allowance to be deducted from the Bidder's Proposal, should this option be selected. TRADE-IN ALLOWANCE: \$_____		
26.0	EXCEPTIONS AND DEVIATIONS		
26.01	Bidder shall fully describe every variance, exception and/or deviation. Additional sheets may be used if required.		