

# **City of Scottsbluff, Nebraska**

**Monday, March 2, 2015**

**Regular Meeting**

## **Item Consent3**

**Council to consider approving the bid specifications for a new rear loader refuse truck for Environmental Services and authorize the City Clerk to advertise for bids to be received by March 24, 2015 at 2:00 p.m.**

Staff Contact: Mark Bohl, Public Works Director

# Agenda Statement

Item No.

For Meeting of: March 2, 2015

**AGENDA TITLE:** Council to consider approving the bid specifications for a new rear loader refuse truck for Environmental Services and authorize the City Clerk to advertise for bids to be received by March 24, 2015 at 2:00 p.m.

**SUBMITTED BY DEPARTMENT/ORGANIZATION:** Environmental Services

**PRESENTATION BY:** City Manager Rick Kuckkahn/ Asst. City Manager Nathan Johnson

**SUMMARY EXPLANATION:** The Environmental Service Department is requesting approval to purchase a new rear loader refuse truck for the department. This will replace an older model.

**BOARD/COMMISSION RECOMMENDATION:**

**STAFF RECOMMENDATION:** The Environmental Service Department is recommending the approval to purchase a new rear loader refuse truck to replace an older existing pickup truck. We will use a current back up truck for a trade in.

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## EXHIBITS

Resolution  Ordinance  Contract  Minutes  Plan/Map

Other (specify) approve the purchase of a new rear loader refuse truck

**NOTIFICATION LIST:** Yes  No  Further Instructions

Please list names and addresses required for notification.

- Elliott Equipment  
3100 West 76<sup>th</sup> Street  
Davenport, IA 52806  
(563) 391-4840
- Kois Bros.  
5200 Colorado Blvd.  
Commerce City, CO 80022  
(303) 298-7370
- Southwestern Equipment  
176 Stemmons Frwy  
Lewisville, TX 75067  
(800) 867-9177

**APPROVAL FOR SUBMITTAL:** \_\_\_\_\_  
City Manager

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Rev: 11/15/12 City Clerk

City of Scottsbluff  
Request for bids

Sealed bids will be received by the City of Scottsbluff, Nebraska, at the office of the City Clerk, City Hall, and then publicly opened and then read aloud for the City's purchase of a rear load refuse compactor truck used in the Public Works Department, Sanitation Division. Copies of the specifications may be obtained from Environmental Services Office, 609 E 2<sup>nd</sup> Street or from the City Clerk's Office, 2525 Circle Drive, Scottsbluff, NE 69361.

Bids must be made on the Proposal Form found in the Specifications and submitted in a sealed envelope labeled "**BID FOR REAR LOAD REFUSE COMPACTOR TRUCK**" to the office of the City Clerk, no later than **March 24, 2015 at 2:00 p.m. local time**. The City will accept only those sealed bids, either hand delivered or received via the U.S. Mail or other commercial carrier. Items transmitted by facsimile or electronically will not be accepted.

The City of Scottsbluff reserves the right to reject any or all bids and to waive any irregularities or informalities in any bid received, and to accept any bid which is deemed most favorable to the City of Scottsbluff, at the time and under conditions stipulated in the General Conditions. Bids received after the specified time of closing will be returned unopened.

If you have any questions regarding this invitation to bid, please contact Anthony Harris, Sanitation Supervisor, at 308-630-0985

Print 3 times: March 6, 13 and 20, 2015  
One affidavit of publication requested

## **GENERAL CONDITIONS**

### **SCOPE**

The City of Scottsbluff desires to purchase one Twin Screw (tandem axle) conventional cab and chassis with a 25 cubic yard, excluding hopper, rear load high compaction refuse body to be used for commercial refuse collection by the Sanitation Division of the Utilities Department. Its configuration must be compatible with current city refuse collection operations. All attached components including the garbage body shall be securely mounted to the cab and chassis.

The City of Scottsbluff reserves the right to reject any or all bids, to award the bid in part or in whole, and to waive any informalities or irregularities and to accept any proposal which is deemed most favorable to the City of Scottsbluff.

Bidders must submit with their bid the latest printed specifications and advertising literature on the units they propose to furnish, including the garbage body and the cab and chassis.

The manufacturer's usual warranty against defective materials or workmanship shall apply. The terms of the warranty for the cab and chassis and the garbage body must be included with the bid.

The bidder shall indicate "yes" if the equipment they are proposing meets the specification or "no" if the equipment they are proposing does not meet the specification. If "no" is indicated, the bidder shall list on the attached sheet labeled "Exceptions to Bid Specifications Sheet A" any variations from, or exceptions to, the conditions and specifications of this bid and shall be attached to the bid and specifications.

The price or prices quoted shall be good for thirty (30) days from the bid date and shall include all transportation charges fully prepaid to and from the City of Scottsbluff Environmental Services Building, 609 E 2<sup>nd</sup> Street.

The City of Scottsbluff desires delivery to be completed within 150 days from the date of award. Bidder will certify delivery date on the proposal form.

Awards will be made to the lowest responsible bidder. The quality of the articles to be supplied, their conformity with the specifications, their suitability to requirements, delivery terms and guarantee clauses shall be taken into consideration.

## SPECIFICATIONS

### A. CAB AND CHASSIS

<b>1. <u>Application</u></b>	
1.1	The intent of these specifications is to describe the <b>minimum</b> requirements for a 60,000 GVWR Twin Screw (tandem axle) Cab and Chassis.
<b>Meets Specifications:    Yes <input type="checkbox"/>    No <input type="checkbox"/></b>	
1.2	This chassis must be capable of carrying the net weight of a Refuse Body with 25 cubic yard capacity, plus the weight of the refuse to be collected.
<b>Meets Specifications:    Yes <input type="checkbox"/>    No <input type="checkbox"/></b>	
1.3	The Cab and Chassis must be usable with no obstructions protruding above the frame.
<b>Meets Specifications:    Yes <input type="checkbox"/>    No <input type="checkbox"/></b>	
1.4	This application not only demands the truck cab and chassis act as the prime mover for this mounted equipment but will also be utilized as the primary source of power for these attachments.
<b>Meets Specifications:    Yes <input type="checkbox"/>    No <input type="checkbox"/></b>	
1.5	Cab shall be painted manufacturer's standard high gloss maroon with rust preventing primer undercoat.
<b>Meets Specifications:    Yes <input type="checkbox"/>    No <input type="checkbox"/></b>	
1.6	Frame to be painted black.
<b>Meets Specifications:    Yes <input type="checkbox"/>    No <input type="checkbox"/></b>	
<b>2. <u>Model</u></b>	
2.1	The equipment furnished under these specifications shall be new 2015 or latest improved model in current production as offered to the commercial trade.
<b>Meets Specifications:    Yes <input type="checkbox"/>    No <input type="checkbox"/></b>	
2.2	Vehicle shall be complete with all accessory equipment as specified including all operation and service manuals at time of delivery.
<b>Meets Specifications:    Yes <input type="checkbox"/>    No <input type="checkbox"/></b>	
2.3	Vehicle shall comply with all current provisions of the National Traffic and Motor Vehicle Safety Act.
<b>Meets Specifications:    Yes <input type="checkbox"/>    No <input type="checkbox"/></b>	

2.4	Bidders are cautioned to read the specifications carefully as they may include special requirements not commonly offered by the manufacturer.
<b>Meets Specifications: Yes <input type="checkbox"/> No <input type="checkbox"/></b>	
2.5	Bidders shall also attach a statement that the cab and chassis offered meets or exceeds these specifications and/or list any exceptions fully and accurately.
<b>Meets Specifications: Yes <input type="checkbox"/> No <input type="checkbox"/></b>	
<b>3. <u>GVWR</u></b>	
3.1	60,000 pounds.
<b>Meets Specifications: Yes <input type="checkbox"/> No <input type="checkbox"/></b>	
<b>4. <u>Wheel Base</u></b>	
4.1	The cab-to-trunion dimensions will be 156" CT.
<b>Meets Specifications: Yes <input type="checkbox"/> No <input type="checkbox"/></b>	
<b>5. <u>Engine</u></b>	
5.1	350 HP Cummins diesel, with 1,000 Ft./lbs of torque at rated RPM, turbo-charged and after cooled inline 6 cylinder, or approximate equivalent, with full RPM range governor.
<b>Meets Specifications: Yes <input type="checkbox"/> No <input type="checkbox"/></b>	
5.2	Shall be of the latest design to comply with current EPA emissions requirements.
<b>Meets Specifications: Yes <input type="checkbox"/> No <input type="checkbox"/></b>	
5.3	Heavy duty cooling system with freeze protection to -34 degrees Fahrenheit.
<b>Meets Specifications: Yes <input type="checkbox"/> No <input type="checkbox"/></b>	
5.4	Engine cooling system to be equipped with a replaceable spin-on type coolant filter.
<b>Meets Specifications: Yes <input type="checkbox"/> No <input type="checkbox"/></b>	
5.5	Heavy duty aluminum radiator.
<b>Meets Specifications: Yes <input type="checkbox"/> No <input type="checkbox"/></b>	
5.6	Constant tension hose clamps for coolant hoses.
<b>Meets Specifications: Yes <input type="checkbox"/> No <input type="checkbox"/></b>	
5.7	Heavy duty radiator mounting.
<b>Meets Specifications: Yes <input type="checkbox"/> No <input type="checkbox"/></b>	
5.8	Remote mounted surge tank with sight glass.
<b>Meets Specifications: Yes <input type="checkbox"/> No <input type="checkbox"/></b>	
5.9	Shall have a shutdown system for low engine oil pressure and high coolant temperature.
<b>Meets Specifications: Yes <input type="checkbox"/> No <input type="checkbox"/></b>	

## 6. Fuel Tank

6.1 Minimum 50-gallon capacity.

**Meets Specifications:** Yes  No

6.2 Fuel filter/water separator with heated bowl and indicator light.

**Meets Specifications:** Yes  No

6.3 Reinforced nylon fuel hose.

**Meets Specifications:** Yes  No

## 7. Transmission

7.1 Allison 3,000 RDS 6 speed automatic transmission with PTO provision.

**Meets Specifications:** Yes  No

7.2 Heavy duty auxiliary transmission cooler.

**Meets Specifications:** Yes  No

7.3 Transmission check and fill with electronic oil level check.

**Meets Specifications:** Yes  No

7.4 Magnetic plugs.

**Meets Specifications:** Yes  No

## 8. Exhaust System

8.1 Vertical or horizontal muffler meeting EPA noise reduction requirements with a vertical exhaust exiting behind the cab at or above the top of the body. Exhaust opening shall be equipped with a bent elbow or rain cap.

**Meets Specifications:** Yes  No

## 9. Electrical System

9.1 12 volt.

**Meets Specifications:** Yes  No

9.2 Minimum of three (3) maintenance-free batteries providing 650/1950 CCA.

**Meets Specifications:** Yes  No

9.3 Single battery box frame mounted left hand side under cab.

**Meets Specifications:** Yes  No

9.4 12 volt/160 amp alternator capable of sustaining load requirements at low engine RPM.

**Meets Specifications:** Yes  No

9.5 Adequate circuit protection using breakers or fuses.

**Meets Specifications:** Yes  No

9.6	Electrical load requirements to be specified and all circuitry mapped for servicing needs.	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	
<b>10. Cab and Equipment</b>			
10.1	Fully enclosed safety-type cab with key locks on all doors, power windows.	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	
10.2	Tilt hood and fender design.	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	
10.3	Interior of adequate size and configuration to allow seating for a crew of three.	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	
10.4	Seats: air ride driver and 2 person passenger seat.	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	
10.5	Assist handles, left and right hand sides.	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	
10.6	Heated power mirrors: left and right hand side west coast type with convex spot mirrors.	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	
10.7	Dome light and courtesy switch.	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	
10.8	AM/FM radio.	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	
10.9	Seat belts for all passengers.	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	
10.10	Key check for warning light.	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	
10.11	Minimum 10 gallon after treatment tank. (DEF)	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	
10.12	Full gauge instrumentation including engine hour meter and tachometer.	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	
10.13	Horn;air.	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	
10.14	Production design headliner.	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	
10.15	Left and right sun visors.	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	



10.16	Insulated rubber floor mat.	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	
10.17	Heater/air conditioner circulating fan to have at least three (3) speeds. Air conditioner must have environmentally safe refrigerant.	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	
10.18	Parking brake on-off control.	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	
10.19	All lighting to meet CCC regulations and as required by law.	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	
10.20	Painted front bumper.	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	
10.21	Two (2) front tow hooks frame mounted.	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	
<b>11. <u>Windshield Wipers</u></b>			
11.1	Variable speed electric with intermittent.	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	
11.2	Electric washers.	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	
<b>12. <u>Steering</u></b>			
12.1	Power assisted steering.	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	
<b>13. <u>Service Brakes</u></b>			
13.1	Full air brake package with low air warning device.	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	
13.2	12 CFM air compressor, pressure oiled, water-cooled.	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	
13.3	Air reservoir with 2,000 cubic inch capacity.	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	
13.4	Automatic moisture ejector with heater.	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	
13.5	Air dryer located on outside of frame and not more than 12 feet from compressor.	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	
13.6	Front and rear brakes with dust shields to be Rockwell S-cam with Bendix automatic slack adjusters or approved equal.	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	

<b>14. <u>Parking Brake</u></b>	
14.1	Spring set-air release on rear driving wheels with dash mounted control. Flipper work brake to be tied to auto neutral.
<b>Meets Specifications: Yes <input type="checkbox"/> No <input type="checkbox"/></b>	
<b>15. <u>Front Axle</u></b>	
15.1	14,000 pound, SET BACK AXLE, I-beam design.
<b>Meets Specifications: Yes <input type="checkbox"/> No <input type="checkbox"/></b>	
15.2	C.R. "Scotseal Plus" unitized wet type wheel seals.
<b>Meets Specifications: Yes <input type="checkbox"/> No <input type="checkbox"/></b>	
<b>16. <u>Front Suspension</u></b>	
16.1	14,000 pound capacity springs, combined rating at the ground.
<b>Meets Specifications: Yes <input type="checkbox"/> No <input type="checkbox"/></b>	
16.2	Heavy-duty shock absorbers.
<b>Meets Specifications: Yes <input type="checkbox"/> No <input type="checkbox"/></b>	
<b>17. <u>Rear Axle</u></b>	
17.1	46,000 pound capacity single reduction with a moderately deeper rear axle ratio and locking differential to adequately handle a fully loaded truck.
<b>Meets Specifications: Yes <input type="checkbox"/> No <input type="checkbox"/></b>	
<b>18. <u>Rear Suspension</u></b>	
18.1	46,000 pound Tuftrac suspension or approved equal.
<b>Meets Specifications: Yes <input type="checkbox"/> No <input type="checkbox"/></b>	
<b>19. <u>Frame</u></b>	
19.1	Heavy duty heat treated frame rails not less than 3,000,000 RBM per rail. The strength and construction is to be consistent with the GVW rating of the vehicle for both on and off-road use. Off-road use relates to those conditions encountered in operational conditions at a sanitary landfill.
<b>Meets Specifications: Yes <input type="checkbox"/> No <input type="checkbox"/></b>	
19.2	Clean frame on outside of rails from back of cab to front of rear tires.
<b>Meets Specifications: Yes <input type="checkbox"/> No <input type="checkbox"/></b>	
19.3	Light weight heavy-duty aluminum engine crossmember.
<b>Meets Specifications: Yes <input type="checkbox"/> No <input type="checkbox"/></b>	
<b>20. <u>Wheels/Tires</u></b>	
20.1	Front: wheels to be Accuride 22.5" x 9.00", 10-hole hub centering unimount. Front: tires to be Michelin XZA 315/80R22.5 20 ply radial or equivalent equal.
<b>Meets Specifications: Yes <input type="checkbox"/> No <input type="checkbox"/></b>	
20.2	Rear: wheels to be Accuride 22.5" x 8.25", 10-hole hub centering unimount.

	Rear: tires to be Michelin XDE 11R22.5 14 ply radial or equivalent equal.
<b>Meets Specifications: Yes <input type="checkbox"/> No <input type="checkbox"/></b>	
<b>21. <u>Paint</u></b>	
21.1	Paint to be high gloss maroon as provided by the manufacturer with rust-preventing primer undercoat. DuPont IMRON.
<b>Meets Specifications: Yes <input type="checkbox"/> No <input type="checkbox"/></b>	

**B. REFUSE BODY**

<b>1. <u>Application</u></b>	
1.1	It is the intent of these specifications to describe the <b>minimum</b> requirements for a refuse collection body of the rear loader design.
<b>Meets Specifications: Yes <input type="checkbox"/> No <input type="checkbox"/></b>	
1.2	The capacity shall be 25 cubic yards, exclusive of the hopper. No Longer than 270" without roll bar.
<b>Meets Specifications: Yes <input type="checkbox"/> No <input type="checkbox"/></b>	
1.3	Features standard to this unit will be furnished by the successful bidder. Body shall conform in strength, quality of material and workmanship to that provided by the best engineering and manufacturing practices of the industry.
<b>Meets Specifications: Yes <input type="checkbox"/> No <input type="checkbox"/></b>	
1.4	All equipment shall be of new model design, assembled and ready for operation at the time of delivery.
<b>Meets Specifications: Yes <input type="checkbox"/> No <input type="checkbox"/></b>	
1.5	Bidders shall attach a statement that the unit meets or exceeds these specifications and/or list any exceptions fully and accurately.
<b>Meets Specifications: Yes <input type="checkbox"/> No <input type="checkbox"/></b>	
<b>2. <u>General</u></b>	
2.1	Refuse body will have a capacity of 25 cubic yards exclusive of the hopper. Body weight shall not exceed 14,250 pounds.
<b>Meets Specifications: Yes <input type="checkbox"/> No <input type="checkbox"/></b>	
2.2	Packer body capable of packing 1,100 pounds per cubic yard of dry commercial refuse.
<b>Meets Specifications: Yes <input type="checkbox"/> No <input type="checkbox"/></b>	
2.3	Hopper shall have a minimum capacity of 4.0 cubic yards.
<b>Meets Specifications: Yes <input type="checkbox"/> No <input type="checkbox"/></b>	
2.4	Packer body must meet all applicable ANSI Z-245.1 safety standards.
<b>Meets Specifications: Yes <input type="checkbox"/> No <input type="checkbox"/></b>	
2.5	The truck shall be equipped with a PTO capable of supporting a PARKER pump arrangement which requires no driveshaft. 42 GPM at 1200 RPM, with minimum of

	2400 PSI pressures. NO Pressures below 2000 PSI will be accepted.
	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
2.6	PTO is to be of "hot shift" design, hydraulically actuated and protected by an Engine Overspeed Speed (E.O.S.) device. Close Coupled "NO DRIVE SHAFTS Accepted"
	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
2.7	A hydraulically powered container-lifting device shall be mounted to the body roof. The reeving cylinder shall have a 12,000 pound lift capacity and lift up to 6 yard cubic yard containers.
	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
2.8	Hydraulic Kick Bar device to lift and dump up to 4 cubic yard commercial containers, including trunion locks to lock container into position along with associated hydraulic components. The roll bar shall be completely adjustable in the field so that the City of Scottsbluff can have the roll-bar meet their containers without any problems.
	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
<b>3. <u>Body Construction (the following specifications are minimums)</u></b>	
3.1	The body shall be of all steel welded construction. Inside body shall be smooth on the floor, side walls and roof. Sides, roof and floor shall be robotically welded to prevent distortion of the heat when welded.
	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
3.2	All pivot points shall be provided with grease zerks.
	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
3.3	The body sides shall be constructed of 8 gauge, 80,000 PSI steel minimum. The body front header, upper header and rear header shall be boxed. NO BUTT welding will be accepted.
	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
3.4	The roof shall be constructed of 8 gauge, 80,000 PSI steel minimum.
	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
3.5	The flat body floor shall be 7 gauge, 100,000 PSI steel minimum. Must NOT have inboard guide rails or a trough. The floor shall be fully supported by and interlaced under structure that is fully robotically welded. Floor cross members understructure shall be 3"x6" made with 7 gauge material like the smooth floor material.
	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
3.6	Side access door shall be located street side of body sidewall.
	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
3.7	Side access door shall be equipped with a safety interlock to disengage the hydraulic system when open. And have fold up ladder.
	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
<b>4. <u>Body Dimensions</u></b>	
4.1	Outside width of body not to exceed 96 inches.

**Meets Specifications:** Yes  No

**5. Hopper**

5.1 The hopper capacity shall not be less than 3.95 cubic yards water level.

**Meets Specifications:** Yes  No

5.2 Hopper cycle time with a standard PTO and pump shall not exceed an average 17-19 seconds. The reload time of trash shall be 6-8 seconds in the cycle.

**Meets Specifications:** Yes  No

5.3 The entire hopper floor shall be a minimum 3/16 inch, 150,000 PSI steel.

**Meets Specifications:** Yes  No

5.4 A hopper sides shall be constructed of 3/16 inch, 150,000 PSI steel.

**Meets Specifications:** Yes  No

5.5 The hopper wall braces shall be 8 gauge, 80,000 PSI high strength steel.

**Meets Specifications:** Yes  No

**6. Packing Mechanism**

6.1 The sweep panel shall be of the backhoe packing type, and designed to have a minimum clearance to thoroughly clean the hopper bottom during cycling.

**Meets Specifications:** Yes  No

6.2 The sweep panel face plate shall be constructed of 3/16", 150,000 PSI steel and shall be reinforced with internal braces.

**Meets Specifications:** Yes  No

6.3 The sweep panel shall be powered by two 5" double acting cushioned cylinders equipped with bronze bushings with a 36" stroke.

**Meets Specifications:** Yes  No

6.4 The sweep panel cutting edge is to be 3/16" 321 BHN Abrasion resistant plate steel at 150,000 PSI.

**Meets Specifications:** Yes  No

6.5 The slide panel face plate shall be constructed of 7 gauge 150,000 PSI steel with 3/16" 150,000 PSI steel side frames.

**Meets Specifications:** Yes  No

6.6 The slide panel shall be powered by two 5.5 inch cushioned double acting cylinders, and a 24" stroke. Located inside the hopper confines NOT coming in contact with trash. These cylinders shall carry 111,670 pounds of packing force minimum.

**Meets Specifications:** Yes  No

6.7 The slide and sweep cycles will be positive and automatic and be operated from the right hand side of the tailgate at the rear, with a race lever shift design. Both handles must be able to be gripped with one hand in a single motion.

**Meets Specifications:** Yes  No

6.8	All levers to be clearly identified that allow the operator to start, stop and reverse the direction of any function at any time throughout the packing cycle.
<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	
<b>7. Tailgate</b>	
7.1	The tailgate is to be hinged at or above the roof line using (two) 1 inch, 50,000 PSI heavy duty hinges. It is to be raised for load ejection by two, 3½ inch bore, double acting cylinders mounted on the outside of the tailgate. These cylinders shall be of a design that will prevent rapid lowering of the tailgate in case of a hydraulic component failure.
<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	
7.2	Tailgate to be held closed by two screw clamps, one on each side of the tailgate. Clamps are to be equipped with a fast-spin handle.
<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	
7.3	A gasket is to be affixed to the tailgate to provide a water tight seal between the body and the tailgate.
<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	
7.4	The tailgate must be equipped with a tailgate ajar switch with warning light fixed in the cab which complies with ANSI standards and warns when the tailgate is partially to completely open.
<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	
7.5	Riding steps are needed on both sides of the tailgate. To be undercoated with hard Rhino type material.
<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	
7.6	Body hinge structures must be of proper design and construction to support the tailgate.
<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	
7.7	Two tailgate props (one each side) externally mounted shall be furnished. Tailgate to be open in the propped position in a minimum of 24 inches.
<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	
<b>8. Ejection Unload System</b>	
8.1	Dumping is to be accomplished by the full ejection method. Raising of the body for ejection purposes is not acceptable. Control lever for ejection is to be located at the front, left side of the body.
<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	
8.2	Ejection shall be done by means of a double acting single stage hydraulic cylinder coupled to a push-out bar operated in conjunction with a double acting single stage hydraulic clamping cylinder or a telescoping, full length hydraulic cylinder. No portion of the ejection forces shall be directed toward the body floor (downward).
<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	

8.3	Ejector panel shall be 11 gauge 80,000 PSI steel capable of withstanding the packing pressures generated by the packing process. It must be designed to act as a bulkhead against which refuse is compressed by the packer plate and capable of ejecting highly compacted refuse loads.
<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	
8.4	The ejector panel is to travel the full length of the body and be equal in area to the cross section of the body.
<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	
8.5	Ejector panel will travel on friction reducing composite materials that can be replaced without removing the panel from the body. Must be able to flip over the shoes from bottom to top side for complete wear.
<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	

8.6	No part of the ejector panel shall protrude into the hopper when it is in the rearmost position.
<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	

**9. Hydraulic System**

9.1	The hydraulic pump is to be a spur gear type with wear compensating side plates using hydraulic pressure to keep them properly tensioned and positioned to maintain a consistent fluid flow rate. Pump to be driven through a transmission mount PTO.
<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	

9.2	Pump capacity shall not be less than 42 GPM at 1200 RPM.
<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	

9.3	A factory installed relief valve shall be incorporated into the system and set at a minimum of 2400 PSI.
<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	

9.4	A 3-micron filter is to be installed in the return line with a visible indicator when the system is restricted and in a bypass mode. Prior to filtering into the filter a 100 micron mesh shall separate much of the fluid containments.
<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	

9.5	The hydraulic tank is to be mounted on frame rail and equipped with a 3-micron breather filter and eye level sight gauge.
<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	

9.6	The hydraulic reservoir must have a capacity of at least 42 gallons.
<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	

9.7	The hydraulic system must contain cylinders capable of performing the operational requirements set forth in these specifications.
<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	

9.8	Hydraulic hoses are to be SAE approved construction with hose burst pressure 4
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	times working pressure. All hydraulics to have O-ring face seals.
<b>Meets Specifications: Yes <input type="checkbox"/> No <input type="checkbox"/></b>	
9.9	The system must contain a manually operated control valve providing sufficient capacity to operate all hydraulic components.
<b>Meets Specifications: Yes <input type="checkbox"/> No <input type="checkbox"/></b>	
9.10	All hydraulic control assemblies must be located so that at no time or load condition it becomes necessary to remove the load to service these components.
<b>Meets Specifications: Yes <input type="checkbox"/> No <input type="checkbox"/></b>	
9.11	All cylinders are to have latest design sealing materials. All cylinders to operate without direct contact with collection refuse.
<b>Meets Specifications: Yes <input type="checkbox"/> No <input type="checkbox"/></b>	

## 10. Controls

10.1	Controls for the packer operation are to be located curb side at the rear of the unit. This/these manually operated lever(s) must have the capability to start, stop or reverse the packing mechanism. The dual lever control rods must be located outside the hopper. Control rods to go directly into operating valve no cross linkage will be considered.
<b>Meets Specifications: Yes <input type="checkbox"/> No <input type="checkbox"/></b>	
10.2	An automatic throttle advance must be provided for the packing operation.
<b>Meets Specifications: Yes <input type="checkbox"/> No <input type="checkbox"/></b>	
10.3	A push button switch that activates a driver signal in the cab is to be provided on both sides of the tailgate to signal the driver.
<b>Meets Specifications: Yes <input type="checkbox"/> No <input type="checkbox"/></b>	
10.4	Tailgate life and ejector controls are to be located street side at the front of the body.
<b>Meets Specifications: Yes <input type="checkbox"/> No <input type="checkbox"/></b>	
10.5	PTO/pump controls are to be mounted in the cab, with truck cab integration.
<b>Meets Specifications: Yes <input type="checkbox"/> No <input type="checkbox"/></b>	

## 11. Lighting and Wiring

11.1	Body lighting must conform to FMVSS#108 regulations.
<b>Meets Specifications: Yes <input type="checkbox"/> No <input type="checkbox"/></b>	
11.2	For maximum visibility, a light panel above the hopper must be provided, consisting of two 4 inch LED red stop/tail lights, two 4-inch amber LED turn signal lights, three individual LED ID lights. All lights to be grommet mounted except utility and license plate lights. Also, one strobe light shall be mounted on top of the tailgate and shall be turned on only when the truck is backing up. All lights shall be Peterson Smart Lighting system with LED lights and strobes.
<b>Meets Specifications: Yes <input type="checkbox"/> No <input type="checkbox"/></b>	
11.3	A lighted license plate bracket will be provided. Two built in LED strobes on front of



	box and two upper tailgate and lower tailgate strobes
<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	
11.4	Wiring to be enclosed in a pre-assembled sealed harness to meet SAE specifications J22223-1-2-3.
<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	
11.5	All electrical junction locations are to be within the body structure and must be weatherproof.
<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	
11.6	All wiring to be color-coded and labeled.
<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	
11.7	A backup alarm conforming to ANSI standards must be provided. The alarm must also sound when the tailgate is not closed.
<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	

## 12. Painting

12.1	The body shall be properly cleaned with a chemical etching solution to remove all dirt, oil and prepare the surface for good paint adhesion. All surfaces shall be clean of welding slag. Painted with DuPont Imron paint Scottsbluff Burgandy.
<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	
12.2	All burrs and rough spots are to be ground off to a clean, smooth surface.
<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	
12.3	A coat of lead-free primer with rust inhibitors shall be applied.
<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	
12.4	Top finish coat is to be baked on high gloss Maroon.
<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	

## 13. Camera

13.1	A color camera shall be provided on the rear of the truck for use as a backup camera. Protective cases shall be provided for the camera.
<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	

## 14. Additional Information

14.1	A color monitor shall be mounted in the cab and be a fully adjustable flat screen type.
<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	

## 15. Option – With On-Board Weighing System

15.1	The purpose of the On-Board Weighing System is to provide the truck operator the ability to load the truck up to the legal limit. An in-dash display must accurately show the steer and drive axle group weights, GVW and NET payload weights.
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**Meets Specifications:** Yes  No

**16. Trade**

16.1 | The vehicle being traded is a Freightliner with Newway packer.

