



City of Conway – Mayor’s Office  
[www.cityofconway.org](http://www.cityofconway.org)

**Invitation and Bid 2008-16**

**INVITATION**

**TO THE VENDOR ADDRESSED:**

Bidders are invited to furnish the items listed herein in accordance with the terms and conditions attached. **Sealed** bids must be in the Mayor’s Office (1201 Oak Street) no later than **10 am, on Wednesday, January 30, 2008** at which time all bids will be opened and read in the Downstairs Conference Room in City Hall. Successful bidders will receive purchase order, if necessary within 30 days after approval from City Council. ***Unsigned bids will be rejected.***

Conway Sanitation Department  
Bid Specifications for a  
2008 Freightliner/Load Master Commercial Rear Load Refuse Truck

It is intended that the following set of specifications be used as a guideline for a new and unused rear loading Freightliner/Load Master refuse truck. Equipment considered standard/necessary for a complete ready-to-use unit as well as any exceptions to this set of specifications must be listed on a sheet separate from this set.

Awarded Bidder must deliver the completed unit within 120 days after receiving notice of award via a City of Conway issued, signed and dated Purchase Order. Failure to deliver the ready-to-use unit within the specified time will lead to the City of Conway assessing penalties not to exceed \$500.00 per day.

For further information contact Sanitation Director, Cheryl Harrington at  
501.450.6155.

Bid specifications can be obtained at [www.cityofconway.org](http://www.cityofconway.org).

## Minimum Bid Specifications

The chassis and body, at a minimum, shall contain the following:

### Engine:

- 6 Cylinder in-line turbo charged diesel
- 350 HP @ 2200 RPM
- 1200 ft/lb of torque @ 1300 RPM
- Electronic Engine Control
- Fuel/Water SEP
- 1200 watt/120 volt AC engine block heater with external plug mounted on front of truck

### Transmission:

- Allison MD 3500RD
- Electronic Push-Button Console
- Water to Oil Cooler

### Front Axle and Suspension:

- Tapered Leaf Springs
- 14,600# minimum capacity rating
- Heavy-duty, double acting shock absorbers
- Axle shall be designed to allow a minimum of 55 degree angle
- Mud flaps installed behind front wheel
- Power steering with 2-quart see through P15 reservoir

### Rear Axles and Suspension:

- 2- 46,000# Tuff-Trac Axles
- Acceptable leaf spring suspension
- 6.43 axle ratio

### Brakes:

- Air Brakes with 16.5 cm. Compressor
- Bendix AD-9ET air dryer (or approved equal)
- Axle mounted two spring activated double diaphragm brake chambers
- Parking brake (both rear axles)
- 16.5"x 5" qt. S-cam front brakes with outboard drums
- 16.5"x 5" qt. S-cam rear brakes with outboard drums
- Automatic slack adjusters

#### Frame:

- 240" Wheelbase
- 11/32"x 3 1/2"x 10-15/16" steel frame
- 1/\*4" C-Channel inner frame reinforcement
- 80" overhang
- Square end frame
- Standard rear-most cross-members
- Heavy-duty suspension center C-Channel cross-member

#### Chassis Equipment:

- 12" painted steel front bumper
- Frame mounted hooks

#### Front Tires, Wheels and Hubs:

- Two (2) 315/80R22.5 20ply tires
- Two (2) 22.5x 8.25 steel disc 10 hole Pilot wheels
- See through hub oilers

#### Rear Tires:

- Eight (8) 11R22.5 16 ply tires
- Eight (8) 22.5x 8.25 steel disc 10 hole Pilot wheels

#### Cab Exterior:

- DuPont # 96939 Bengal Tan 101" BBL conventional aluminum cab doors with 55 degree door stops.
- Air Cab Mounts
- Grab Handles both RH and LH
- Painted Grill
- Dual mounted air horns
- Single Headlamps
- LED marker lights
- Dual heated West-Coast style mirrors

#### Cab Interior:

- Electric roll-up windows
- Manual door locks
- Molded door panels
- Rubber floor mats

- Heater, defrost and Air Conditioner, automatic self re-set circuit breakers
- Center mounted dome light
- High back drivers air ride seat
- Two man mid-back passenger seat
- Three point driver and passenger seat
- Fixed steering column
- Driver/passenger sun visors

#### Gauges:

- Electronics gauge cluster
- Low air pressure light and buzzer
- Key operated ignition switch ODO/TRIP/ HOUR meter
- Electrical fuel gauge
- AM/FM radio with two cab mounted speakers
- Multi-band LH mirror mounted antenna
- Electrical tachometer and speedometer
- Heavy-duty mechanical flashers
- Self changing turn signal switch

#### Capacity:

- The minimum capacity of the body shall be 25 cubic yards exclusive of the hopper
- The minimum capacity of the hopper shall be 4 cubic yards without use of a hopper sill extension
- The body shall be designed to allow high density compaction of up to 1050 lbs. per cubic yard of dry household refuse

#### Body Dimensions:

- The maximum overall width shall be 96"
- The maximum length shall be 309"
- The maximum height over the chassis frame shall be 94"
- The inside width of the body shall be 90" at the widest point
- The inside weight of the body and tailgate (less special options) shall be 16,000lbs.

#### Construction:

- No cylinders, valves or other hydraulic components shall be exposed to refuse packed into the body

- The floor, sides and roof shall be designed and constructed to withstand maximum imposed of commercial refuse without structural damage or excessive wear
- A body side door shall be located on the drivers side

#### Tailgate Dimensions:

- The hopper opening shall be 75" wide and 62" high to permit unobstructed loading of the tailgate hopper
- The top of the loading sill shall be 4" below the top of the chassis frame to facilitate easy loading
- The overall height above the chassis frame with tailgate raised shall be 184"

#### Tailgate Construction:

- The tailgate sides shall be fabricated from abrasion resistant 3/16" T-1/150,000PSI yield strength steel
- The hopper floor and chute shall be constructed of a one piece design fabricated from ¼" T-1/150,000 PSI yield strength steel plate
- The tailgate sides shall be reinforced with high tensile steel channels interlaced and fully welded to the side sheets
- The hopper and chute floor shall be reinforced with high tensile steel channel
- The tailgate seal shall extend 21" up the body side
- Two (2) grab handles shall be located on either side of the tailgate
- The rear steps shall be fabricated from open strut material with a minimum standing surface of 330 sq. inches per step. The step shall comply with A.N.S.I. standards. Steps shall be of a bolt design
- The hopper loading sill shall be constructed of 3"x4"x3/8" wall structural tubing

#### Packing Mechanism:

- The packing cycle shall be controlled by a two (2) lever control system that allows the operator to start, stop and reverse the direction of any function at any point during the packing cycle
- The tailgate control valve shall be located under the top covers
- The packing blade assembly shall consist of two (2) primary components: the slide blade and the sweep blade
- The packing blade assemblies shall be mounted on four (4) wear shoe assemblies that travel on hardened steel wear tracks.
- The shoe assembly shall be replaceable without removing the packing blade assembly from the tailgate.
- The sweep blade and slide blade shall be attached by two (2) 3" diameter alloy pins

- These assembly pins shall also support the two (2) lower wear block assemblies.
- The slide blade shall be constructed from 3/16" high tensile steel plate
- The sweep blade shall be mounted to and pivot on the slide blade. The sweep shall be fabricated from 3/16" T-1 steel plate, varying in thickness
- Packing blade assembly shall ride on four (4) UHMW polyethylene shoe assemblies. Metallic type shoes or rollers are acceptable.
- The blades shall operate without use of linkage or link arms.
- The packing blade shall be powered by two (2) 5" bore x 2-1/2" rod x 23"- stroke sweep cylinders and two (2) 5" bore x 2-1/2" rod x 43" stroke slide cylinders.
- The slide and sweep cylinders shall have hardened chrome plated rods and be of cushioned design to reduce hydraulic shocks, noise and impact related stresses.
- The packing blade shall fully cycle in fewer than 30 seconds with less than a 15 second reload time.
- The sweep blade shall stop above the hopper sill to prevent a pinch point.
- Material in the hopper shall be compacted between the packing panel assembly and the ejector panel shall hold pressure against the compacted material and be automatically advanced by a hydraulic load control valve without operator assistance.

#### Ejection System

- The load shall be ejected by a double acting, telescopic hydraulic cylinder that shall extend and retract the ejector panel the full length of the body without the use of clamp bars or related hardware.
- The ejector cylinder bore shall have a 6.5" with four (4) stages.
- The ejector panel shall have a 10 gauge hi-tensile steel face sheet that is reinforced by structural steel tubing and formed channels of hi-tensile.
- The ejector panel shall be mounted on (4) four high-density polyethylene wear shoes that shall be replaceable without removing the ejector panel from the body. Metallic type shoes are unacceptable.

#### Controls

- The ejector and tailgate lift controls shall be mounted at the left front of the body.
- Ejector and tailgate lift controls shall be mounted directly to the valve spool.
- A throttle advance switch shall be located convenient to the ejector and tailgate lift controls.
- The tailgate controls shall be located at the right rear of the tailgate. The two (2) lever design shall have positive control of movement of the packing mechanism at all times. The tailgate controls shall comply with the applicable A.N.S.I. regulations.

## Hydraulic System

- A heavy-duty cast iron gear pump with a rated capacity of 40 G.P.M. at 1200 R.P.M. shall be driven by a hot shift power takeoff.
- All hydraulic components shall operate at a maximum pressure of 2800 P.S.I.
- The hydraulic system must include an adjustable relief in the body valve.
- Hydraulic hoses and tubes shall be secured by clamps to prevent damage from abrasion and vibration. Hoses shall use S.A.E. boss and JIC 37 degree flare ends for zero leaks.
- Hoses are to have 4:1 burst to working pressure safety factor.
- All hoses shall comply with the applicable S.A.E. standards for the design specifications.
- The hydraulic oil reservoir shall have a minimum capacity of 42 gallons. The reservoir shall be equipped with filter breathing cap, sight glass, clean out cover, 100 mesh suction filter, magnetic tank drain plug and gate valve at the suction outlet. The reservoir shall not be a structural member of the body of the mount for the ejector cylinder.
- A 10 micron inline return line filter shall be located on the tank and be equipped with a condition indicator. A suction filter screen filter of 141 micron (100 meshes) shall strain all the oil leaving the tank. Suction filter shall be equipped with a five (5) P.S.I. bypass valve.
- All hydraulic valves shall be sectional to allow replacement of defective sections without replacement of entire valve.
- All cylinders and valves shall have SAE O-ring boss ports.

## Hydraulic Cylinders

- All cylinders shall have a working pressure rating of 3000 PSI.
- The sweep and side cylinders shall have hardened chrome prods and be cushioned to reduce shock at the end of the stroke.
- The sweep and side cylinders shall have a minimum of full three (3) years warranty.
- Tailgate cylinders shall have hardened chrome plated rods and be equipped with restrictions to limit the speed of rising and lowering the tailgate.
- All rod cylinders shall have cast iron glands and pistons and be equipped with double wear bearings and premium seals. Aluminum glands and pistons are not acceptable.
- Telescopic cylinders shall have chrome plated cylinder sleeves and plungers.
- All cylinders are to operate without direct contact with the compacted load.

## Container Attachments

- A roll bar container handling device shall be mounted laterally on the rear of the tailgate.

- The device shall be capable of engaging, raising, discharging, lowering and disengaging standard rear loader metal containers up to 8 cubic yard capacity.
- The device shall be actuated by two (2) hydraulic cylinders.
- An overhead cylinder actuated container handling device shall be mounted on roof of the body.
- The device shall be capable of engaging, raising, discharging, lowering and disengaging standard rear loader metal containers up to 10 cubic yard capacity.
- The device shall be actuated by a hydraulic cylinder with cable.
- The device shall have a 14,000 lb. lift capacity.
- The unit shall possess a cart tipping device mounted on the tailgate and be capable of servicing various sized containers up to 96 gallon.
- The cart tipper shall not interfere with the operation of the kick bar.
- The cart tipper shall be designed to stow in a manner so as not to interfere with the operation of the kick-bar.

#### Electrical

- All electrical wiring shall be color coded and be in a braided harness on loom.
- Electrical harness shall be connected with a sealed aircraft type electrical connector.
- Electrical wires shall be stranded copper type with a SXL covering to remain flexible and resist deterioration.
- Electrical wires shall have function printed on the wire.
- Body electrical system shall be protected with its own fuse block.
- All fuses shall be ATO type.
- All lighting switches shall be water proof.
- All lighting shall comply with FMVSS #108 with an additional set of two (2) stop tail and turn lights mounted above the hopper on a light bar.
- Clearance, backup, stop and directional light housings, Lexan lenses, and vibration resistant filaments and unitized seal quick change prong connections.
- A 4 light 4" diameter LED strobe system is required.
- A 112 decibel backup alarm conforming to current standards must be installed. The alarm must also sound while tailgate is opened.
- Dual sealed 5" work lights with switch in cab.

#### Camera System

- A color rear vision camera system complete with a 7" monitor shall be installed.

#### Painting

- All burrs and rough areas are to be ground smooth and preened to remove slag.
- Prior to application of any coating all surfaces shall be cleaned and conditioned to paint manufacturers specifications.

- The body shall then be coated with two (2) coats of self-etching epoxy primer.
- The body color shall be DuPont #546 Green.
- The chassis color shall be DuPont #96939 Bengal Tan.

#### Warranty

- A warranty minimum of 3 years shall be included on all cylinders.
- A warranty minimum of 2 years shall be included on the body.
- A warranty minimum of 2 years shall be included on the chassis.

The bidder shall include all charges, including taxes, fees, shipping (if applicable)

In submitting this bid, it is understood by the undersigned Bidder that the right is reserved by the City of Conway to reject any and all bids.

**City of Conway**  
**2008 Commercial Rear Load Refuse Truck**  
**Bid Number: 2008-16**  
**Bid Opening Date: Wednesday, January 30, 2008**

Total Cost for 2008 Commercial Rear Load Refuse Truck

\$ \_\_\_\_\_

Authorized Agent Bidding on this project:

\_\_\_\_\_  
Company Name

\_\_\_\_\_  
Company Representative Name

\_\_\_\_\_  
Representative's Signature

\_\_\_\_\_  
Address Email Address

\_\_\_\_\_  
City State Zip

\_\_\_\_\_  
Telephone Number Fax Number

\_\_\_\_\_  
Date

***Unsigned bids will be rejected:***

**City of Conway**  
**TERMS AND CONDITIONS**

By Submission of bid, bidder certifies that he has read all terms and conditions and that bid is submitted in accordance therewith.

1. Prices quoted will be considered to be net prices unless otherwise stated by the bidder. Cash discounts requiring payments in less than 30 days will not be considered in making awards.
2. Prices quoted shall be FOB Conway unless otherwise specifically stated on proposal. In either case, delivery charges must be prepaid.
3. All fees and taxes shall be included in prices quoted.
4. Bidder certifies that he will make delivery of items for which he bids within 10 days after receipt of award – unless otherwise specifically stated. Time of delivery in excess of 10 days may be considered a factor in making awards.
5. In case of default of contractor in making deliveries as per contract, the City may procure the articles or services from other sources and hold the contractor responsible for all excess costs occasioned thereby. Bidder's record as to satisfactory performance under previous contracts will be considered a factor in making awards and retention on bid lists.
6. The City reserves the right to reject any or all bids, in part or in whole and to waive information in bids received.
7. If not otherwise specified, bidder must furnish brand names with catalog number, if any, on items which are offered as "equal." In all such cases the burden of establishing equality is upon the bidder and failure to do so within a reasonable time may result in rejection. Alternative bids will not be considered unless no other type bid for the item is received.
8. In the case of equal or tie bids, preference will be given to Arkansas bidders. Other than as stated in the first sentence, awards on tie bids will be made at the discretion of the purchasing official. In such cases, "splitting" will be avoided and awards of previous contract(s) to one or more of the bidders will not be a factor.
9. In the event that bidder is unable to furnish all of an item, bids on portions thereof may be considered.
10. Final inspections and acceptance or rejection will be made after delivery. Items rejected because of non-conformance shall be removed and replaced immediately with those which meet specifications, all at the expense of the contractor. In the event that necessity requires the use of non-conforming items, payment therefore will be made at a proper reduction in price which shall be not greater than contractor's actual cost by purchase, fabrication, manufacture or other production method plus transportation paid to carriers. All costs in connection with testing items that do not meet specifications shall be paid by contractor.
11. Quality, time of performance, probability of performance, and location of bidder will be factors in awards of all contracts.
12. The City reserves the right to purchase any, all or none of the items listed, in combinations thereof that may be in the best interest of the City of Conway.
13. The City reserves the right to change any specifications, terms and/or conditions at any time, with adequate notice in writing to bid invitees of those changes, if any.
14. The City is qualified for "GSA" pricing schedules, if available and applicable.
15. The City reserves the right to waive any informalities or minor defects, but this shall not be construed to indicate waiver of any specification, term and/or condition unless in the best interest of the City in the judgment of the City.
16. **CONSTRUCTION/INSTALLATION:** Any construction work that is worth \$20,000 or more must comply with Arkansas Code Annotated § 22-9-204.
17. **PROHIBITED INTEREST CONDITION:** No official of the City authorized on behalf of the City to specify, plan, design, negotiate, make, accept or approve, or take part in specifying, planning, negotiating, making, accepting or approving any construction or material purchase contract or any subcontract in connection with any purchase made by the City of Conway shall become directly or indirectly interested personally in the purchase or any part thereof.

18. **EQUAL OPPORTUNITY IN EMPLOYMENT:** All qualified bidders will receive consideration without regard to race, color, religion, sex, age, disability or national origin.