



INVITATION FOR BID (IFB)

Name of Good or Service Requested: Truck Cab & Chassis with Refuse Bodies

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Attachment A – Master Q & A Form



A. Summary of Invitation for Bid

This bid is for the purpose of entering into a contract for Truck Cabs and Chassis with Refuse Bodies for the City of Billings Solid Waste Division. The successful bidder agrees to provide the City of Billings with an acceptable quality of equipment/service, performance and workmanship as determined by the City of Billings.

It is the purpose of this bid to obtain the best quality of equipment/service at the most favorable price to the City of Billings. Consideration will be given for the level of service offered and ability to meet stated specifications as outlined in the contract documents.

The lowest bid need not be accepted if it is documented that a specific supplier in the past has been a poor performer or has provided poor goods.

B. Instructions to Bidders

Sealed bids entitled "Truck Cab & Chassis with Refuse Bodies for the City of Billings, Solid Waste Division", City of Billings, Billings, Montana, must be sent and addressed to the City Clerk of Billings, Montana, at the office of the City Clerk, 210 N. 27th Street, Billings, Montana 59101, up until 2:00 PM on Tuesday, September 21, 2021.

All bids may be submitted to the Billings City Clerk, via email at bids@billingsmt.gov or via mail or delivery at 210 N. 27th Street, Billings, MT 59101 (P. O. Box 1178, Billings, MT 59103). Bids will be publicly opened and read aloud via Facebook Live on the City's Facebook page: <https://www.facebook.com/Billings-MT-City-Government-74352842013/>. Bid tabulations will be posted for public viewing after the bids have been opened.

More specific additional information regarding this bid may be obtained by contacting Kyle Foreman, Solid Waste Superintendent, 4848 Midland Road, Billings, Montana, 59101, (406) 247-8620 or email foremank@billingsmt.gov.

No bids may be withdrawn after the scheduled time for the public opening of bids, which is 2:00 PM on Tuesday, September 21, 2021.

The right is reserved to reject any or all bids received, to waive irregularities, to postpone the award of the contract for a period of not to exceed sixty (60) days, and to accept that bid which is in the best interests of the City of Billings, Montana.



The City of Billings is an Equal Opportunity Employer. The Contractor and subcontractor shall abide by the requirements of 41 CFR 60-300.5(a) and 41 CFR 60-741.5(a), which prohibit discrimination against qualified protected veterans and/or qualified individuals on the basis of disability, and requires affirmative action by covered prime contractors and subcontractors to employ and advance in employment qualified protected veterans and individuals with disabilities.

EXAMINATION OF DOCUMENTS

Before submitting a bid, the bidder shall:

- a. Carefully examine the Standards and Specifications as well as all other attached documents;
- b. Fully inform themselves of the existing conditions and limitations;
- c. Include with the bid sufficient information to cover all items required in the specifications.

BID COMPLIANCE

It shall be the responsibility of the bidder to see that all bids are sealed and submitted to the office of the City Clerk at City Hall, Billings, Montana 59101, before 2:00 PM on Tuesday, September 21, 2021.

BID MODIFICATIONS

Bids shall be made on the forms provided herein; they shall not contain any recapitulation of the work to be done. Modifications, additions or changes to the terms and conditions of this Invitation for Bid may be cause for rejection of the bid. Bids submitted on other forms may be rejected.

INTERPRETATION PRIORITY

Should a bidder find discrepancies in, or omissions from, the specifications, or be in doubt as to their meaning, bidder shall notify Kyle Foreman, Solid Waste Superintendent at 406-247-8620, who will send written instructions or addenda to all bidders. The City will not be responsible for oral interpretation. All addenda issued prior to bid opening shall be incorporated into and become a portion and part of the contract/agreement upon award. Questions received less than ninety-six (96) hours before the bid opening cannot be answered.



WITHDRAWAL OF BIDS

Bidders may withdraw their bid either personally or by written request at any time prior to the time set for bid opening. No bid may be withdrawn or modified after the time set for opening, unless and until the award of the contract is delayed for a period exceeding sixty (60) days.

BID PRICE VALID

Bidders must honor their bid price for sixty (60) days from the date of sealed bid opening.

FUTURE PURCHASES

The bid price will remain in effect for the duration of the model year production and within the manufacturer's capacity to produce the units. The City may place additional orders for vehicles from the prices established as a result of this bid.

The prices established from this bid may be extended to other political subdivisions within the State of Montana solely at the vendor's discretion.

CERTIFICATION

The bidder certifies that the bid has been arrived at by the bidder independently and has been submitted without any collusion designed to limit independent bidding or competition. The bidder further certifies that the materials, products, services and/or goods offered herein meet all requirements of the stated specifications and are equal in quality, value and performance with highest quality, nationally advertised brand and/or trade names.

Manufacturer's trade names, if used in specifications, are for the express purpose of establishing a standard of quality and coordination of design, not for the purpose of limiting competition.

ELIGIBILITY

The successful bidder will be required to provide copies of the following, or the ability to obtain the following within 15 days of notification of contract award:

- Completed and signed the new vendor forms, if necessary (to be eligible for payment): <http://mtbillings3.civicplus.com/DocumentCenter/View/26004>
- City of Billings Business License: <http://ci.billings.mt.us/981/Business-Licenses>



- Montana Contractor's License: <http://erd.dli.mt.gov/work-comp-regulations/montana-contractor/construction-contractor-registration>
- Certificate of Workman's Compensation or Certificate of Exemption from Workman's Compensation: <http://erd.dli.mt.gov/work-comp-regulations>

EVIDENCE OF QUALIFICATION

Upon request of the City of Billings, a bidder whose bid is under consideration for award may be required to manifest satisfactory evidence of his financial resources, experience, the organization and equipment as well as service provisions bidder has available or will make available. In determining the lowest responsible bidder, in addition to price, the following considerations may be addressed:

- a) The ability, capacity and skill of the bidder to perform the contract or provide the service required.
- b) The character, integrity, reputation, judgment, experience and efficiency of the bidder.
- c) Whether the bidder can perform the contract within time specified.
- d) The quality of performance of previous contracts, agreements and/or performance.
- e) Previous and/or existing compliance by the bidder with laws relating to the contract or services.
- f) Such other information which may be secured having a bearing on the decision to award the contract.

CONTRACTORS' GROSS RECEIPTS TAX AND PREVAILING WAGE RATES

The bidder understands that, if applicable, all contractors or subcontractors working on a publicly funded construction project are required to pay or have withheld from earnings one percent (1%) of the gross contract price if the gross contract price is Five Thousand Dollars (\$5,000) or more.



The bidder also understands that, if applicable and unless superseded by federal law, Montana law requires that contractors and subcontractors give preference to the employment of Montana residents for any public works contract in excess of \$25,000 for construction or nonconstruction services in accordance with sections 18-2-401 through 18-2-432, MCA, and all administrative rules adopted pursuant thereto. Unless superseded by federal law, each contractor shall ensure that at least 50% of the contractor's workers performing labor on a construction project are bona fide Montana residents. The Commissioner of the Montana Department of Labor and Industry has established the resident requirements in accordance with sections 18-2-403 and 18-2-409, MCA. Any and all questions concerning prevailing wage and Montana resident issues should be directed to the Montana Department of Labor and Industry.

C. Contract Requirements and Specifications

The bid shall consist of two schedules that will be evaluated and awarded separately. This may result in one or more vendors being awarded the bid. The bid schedules are as follows:

Schedule I Two (2) New Tandem Tilt Cab, 2021 or newer Model, 66,000 GVW Cab and Chassis with Right Steer and minimum 27-Cubic Yard Automated Side Loading Refuse Compactor Body

Schedule II One (1) New Tandem Cabover Cab, 2021 or newer Model, 76,000 GVW, Cab and Chassis Roll-Off Truck

Schedule III One (1) New Tilt Cab, 2021 or newer Model, 66,000 GVW Cab and Chassis with 40 – Cubic Yard ½ Pack Front Loading Refuse Compactor Body



D. Pricing and Addendum

Please bid net prices at which you will agree to furnish required goods or services.

TOTAL BID PRICE (**SCHEDULE I**) - _____ dollars
(words)
and _____ cents (\$ _____)
(words) (figures)

Pricing and Addendum

Please bid net prices at which you will agree to furnish required goods or services.

TOTAL BID PRICE (**SCHEDULE II**) - _____ dollars
(words)
and _____ cents (\$ _____)
(words) (figures)

Pricing and Addendum

Please bid net prices at which you will agree to furnish required goods or services.

TOTAL BID PRICE (**SCHEDULE III**) - _____ dollars
(words)
and _____ cents (\$ _____)
(words) (figures)

I/We acknowledge _____ addendum.
#

Company Name

Date

Contact Name (please print)

Title

Signature of Contact Position

By signing the above, I certify that I am authorized by the Company named above to respond to this request.



E. Standard Terms and Conditions

In case of default by the successful bidder or failure to deliver the goods or services within the time specified, the City Purchasing Agent, after written notice, may procure them from other sources and hold contractor responsible for excess costs occasioned thereby.

The specifications attached to the instructions to bidders establish a standard of quality desired by the City of Billings. Any bidder may submit quotations on any article which substantially complies with these specifications as to quality, workmanship and service. The City of Billings reserves the right to make its selections of materials or services purchased, based on its best judgment as to which articles substantially comply with the requirements of the specifications.

No alteration in any of the terms, conditions, delivery, quality, or specifications will be effective without prior written consent of the City of Billings.

No exception to delivery or service dates shall be allowed unless prior written approval is first obtained from the City of Billings.

The contractor warrants all articles supplied under this contract to conform to specifications, herein. The contractor will deliver a warranty stating that all articles supplied under the contract are fit and sufficient for the purpose manufactured, merchantable, and free from defects.

In the event the City is entitled to a prompt payment or cash discount, the period of computation shall commence on the date of delivery, or receipt of correctly completed invoices, whichever is later. If an adjustment of payment is necessary, the discount period shall commence on the date final approval for payment is authorized.

The contractor agrees not to discriminate against any client, employee or applicant for employment or for services, because of race, creed, color, national origin, sex or age with regard to, but not limited to, the following: employment upgrading; demotion or transfer; recruitment or recruitment advertising; layoffs and termination; rates of pay or other forms of compensation; selection for training; rendition of services. It is further understood that any contractor who is in violation of this shall be barred forthwith from receiving awards of any purchase order for the City unless a satisfactory showing is made that discriminatory practices have terminated and that a reoccurrence of such acts are unlikely.

The City reserves the right to cancel and terminate this contract forthwith upon giving 30 days written notice to the contractor. (This provision does not apply to



the purchase of materials and equipment. A purchase order for materials and equipment is a binding contract.)

Should either party employ an attorney or attorneys or utilize the services of in-house attorneys to enforce any of the provisions hereof or to protect its interest in any manner arising under this contract, the non-prevailing party in any action pursued in a court of competent jurisdiction agrees to pay to the prevailing party all reasonable costs, damages, expenses, and attorneys' fees, including fees for in-house attorneys, expended or incurred in connection therewith.

Where applicable, possible or required, bidder is required to submit descriptive literature, sample material, design sketches and detailed shop drawings. Failure to submit required items may result in rejection of the bid or termination of contract.

The successful bidder may not make any advertising or sale use of the fact that contract items are being used by purchaser and other approved agencies, under penalty of contract termination.

This Agreement shall be construed and enforced in accordance with the laws of the State of Montana. Venue for any suit between the parties arising out of this Agreement shall be the State of Montana Thirteenth Judicial District Court, Yellowstone County.

The contractor may not assign or subcontract the agreement, or the right to receive reasonable performance of any act called for by the contract, shall be deemed waived by a waiver by City of a breach thereof as to any particular transaction or occurrence.

Regardless of FOB point, contractor agrees to bear all risks of loss, injury, or destruction of goods and materials ordered herein and such loss, injury, or destruction shall not release contractor from any obligation hereunder.

All materials submitted in response to this IFB become public records under Article II, Section 9 of the Montana Constitution and §§ 2-6-102 and 7-1-4144, MCA and may be distributed by written request pursuant to Montana's Constitutional Right to Know or Public Records Acts.

Information provided in response to this IFB will be held in confidence and will not be revealed or discussed with competitors prior to award of Contract by Council. However, one copy of each bid submitted shall be retained for the official files of the Department and will become public record after award of the Contract.

Records and materials that are constitutionally protected from disclosure are not subject to the provisions of this section.



F. Conditions and Non-Collusion Agreement

To receive consideration, this form must be signed in full by a responsible, authorized agent, officer, employee or representative of your firm.

CONDITIONS AND NON-COLLUSION AGREEMENT

We have read and agree to the conditions and stipulations contained herein and to the Standard Terms and Conditions contained on the attached.

We further agree to furnish the product/services specified at the prices stated herein. We additionally agree to deliver the products/services to the location and by the date set forth herein, if applicable.

In signing this bid, you also certify that you have not, either directly or indirectly, entered into any agreement or participated in any collusion or otherwise taken any action in restraint of free competition; that no attempt has been made to induce any other person or firm to submit or not to submit a bid; that this bid has been independently arrived at without collusion with any other bidder, competitor or potential competitor; that this bid has not been knowingly disclosed prior to the opening of bids to any other bidder or competitor; that the above statement is accurate under penalty of perjury.

Legal Name of Firm/Corporation

Authorized Signature

Address

Printed Name

City/State/Zip

Title

Date

Telephone Number



H. Questions

Questions regarding this Invitation for Bids must be sent to the contact person listed in Section B no later than 5 business days prior to due date. The City will make every effort to provide a written response within 2 business days. Whenever responses to inquiries would constitute a modification or addition to the original IFB, the reply will be made in the form of an addendum to the IFB, a copy of which will be posted on the City's website and forwarded to all Suppliers who have submitted an "Intent to Respond" form (Section G).

Supplier must submit their questions via email using the "Master Q & A" form found below (Attachment A), and provide, at a minimum, the following:

- Supplier's name, requester, and appropriate contact information.
- The question, clearly stated.
- Specific reference to the applicable IFB section(s).



ATTACHMENT A

MASTER Q & A FORM

IFB: Truck Cab & Chassis with Refuse Bodies

Master Q&A	Any questions regarding this IFB should be submitted according to the process outlined below. The City will make every effort to answer within two (2) days of receiving the questions.
Q&A Process	<ol style="list-style-type: none">1. Prepare questions or concerns on the template provided.2. Complete the table in full, providing a date for each question and a section of the IFB to reference (if applicable).3. Submit the completed form via email to foremank@billingsmt.gov. Attach associated documents as necessary. <p>Please contact Kyle Foreman with any questions regarding this process.</p>

Questions from: _____ Company: _____

Email Address: _____

#	Date	Reference Section	Question or Comment	City Response
1				
2				
3				
4				

Contract Specifications
Schedule I – Two (2) New Tandem Tilt Cab, 2021 or newer Model, 66,000 GVW Cab and Chassis with Right Steer 27-Cubic Yard Automated Side Loading Refuse Compactor Body

<u>DESCRIPTION</u>	<u>MINIMUM REQUIREMENTS</u>	<u>COMPLY YES/NO</u>
ENGINE	Cummins and/or Paccar engine. Minimum 385 horsepower Cummins Engine 1450 torque rating minimum. Must be capable of effectively Operating the body functions at idle and low rpm	_____
	State torque at 800 rpm, 1000 rpm	_____
	State max torque and RPM	_____
	Engine to be programmed for city operation	_____
	Full variable speed governor	_____
	25 cubic feet air compressor, gear driven with air intake plumbed to the clean side of the main engine air filter	_____
	Heaviest duty Radiator (1200 sq in) available with no coverage by cab or etc. with maximum cooling - heavy duty top and bottom.	_____
	Stationary Grille	_____
	Block Heater, 120v – 1500 watt	_____
	Anti-freeze to 34° below zero	_____
	12-volt, 160 amp minimum alternator	_____
	3 – 12-volt maintenance free batteries 2700 c.c.a. External mounted <u>on the left side of truck</u>	_____
	Battery disconnect to kill all power from battery at the battery	_____
	Air cleaner, two stage, Donaldson 16" Cycloflo - outside air intake, or equal	_____
	Fuel tank 60-gallon minimum	_____

Contract Specifications
Schedule I – Two (2) New Tandem Tilt Cab, 2021 or newer Model, 66,000 GVW Cab and Chassis with Right Steer 27-Cubic Yard Automated Side Loading Refuse Compactor Body

<u>DESCRIPTION</u>	<u>MINIMUM REQUIREMENTS</u>	<u>COMPLY YES/NO</u>
TURNING RADIUS	Turning radius—34.89 ft. max	_____
	Curb-to-curb—71.84 ft. max	_____
	Wall-to-wall—76.44 ft. max	_____
TRANSMISSION	Allison automatic 4500 RDS with synthetic transmission fluid.	_____
	Right side shift stations, and auto-neutral shifting.	_____
	Power take-off opening	_____
BRAKES	S-Cam type "Q" Series or larger front & rear air brake with Arvin Meritor automatic slack adjusters with brake backing plates, no exception (Gunite not acceptable)	_____
	Bendix air dryer/with replaceable spin-out element with heater, or equal	_____
	Central manifold with petcocks for air tank drains	_____
	Emergency air brakes and dash mounted with dash-mounted warning light	_____
SUSPENSION	Front Axle, Arvin Meritor MFS20, or equal, 20,000 lb capacity with 20,000-pound springs	_____
	Rear axle Hendrickson HMX 460 46,000 lb. rating	_____
	Heavy duty front shocks	_____
	Power steering, extra heavy duty with right-hand ram	_____

Contract Specifications
Schedule I – Two (2) New Tandem Tilt Cab, 2021 or newer Model, 66,000 GVW Cab and Chassis with Right Steer 27-Cubic Yard Automated Side Loading Refuse Compactor Body

<u>DESCRIPTION</u>	<u>MINIMUM REQUIREMENTS</u>	<u>COMPLY YES/NO</u>
REAR AXLE	Arvin Meritor RT46-160 with a gear ratio to be determined based upon engine	_____
	Rear axle to have power divider lock-out with dash-mounted light	_____
	Main drive line to be 1810 series, or equal	_____
	Transverse torque rods	_____
TIRES	Ten (10) Michelin 315/80R22.5 (L) XZUS2 or equal, 10-hole budd rims, hub piloted wheels, steel hubs.	_____
CAB	Fresh air heater and defroster	_____
	Integral air conditioner (not roof mounted)	_____
	Dual windshield wipers, variable	_____
	Auxiliary cab fan (one)	_____
	Right air ride type seats	_____
	Full coverage fender with rubber fender flares	_____
	Electric door windows, both sides	_____
	Two (2) motorized and heated mirrors, and convex mirror with dash switch kit. Door mounted	_____
	Rear Corner Windows each side with full visibility for drivers to see behind	_____
	Air horns mounted under cab	_____
	Fully insulated and sound deadened. Must be insulated between cab and engine. Padded door liners and head liner required.	_____
	Grab handle - both sides	_____
	Engine hour meter	_____
	Water temperature gauge - direct reading	_____

Contract Specifications
Schedule I – Two (2) New Tandem Tilt Cab, 2021 or newer Model, 66,000 GVW Cab and Chassis with Right Steer 27-Cubic Yard Automated Side Loading Refuse Compactor Body

<u>DESCRIPTION</u>	<u>MINIMUM REQUIREMENTS</u>	<u>COMPLY YES/NO</u>
Cab (cont.)	Oil gauge - direct reading	_____
	Voltmeter - direct reading	_____
	Air pressure gauge - direct reading	_____
	Transmission temperature gauge - direct reading	_____
	Fuel gauge - direct reading	_____
	Audio alarm for low radiator, high water temperature (205 degrees), low oil, and transmission temperature (225 degrees)	_____
	Audio alarm and engine shutdown system	_____
	Audio warning - low brake pressure	_____
	Back up alarm	_____
	AM/FM Radio	_____
FRAME	Extra heavy duty to match or exceed G.V.W. Frame rails 3/8" steel variable drop, no exceptions. Frame must meet RBM of 3,400,000 in/lb per rail.	_____
	Skid plate protecting engine and pumps	_____
	Standard front bumper	_____
	Two (2) front frame mounted extra heavy-duty tow hooks or pins	_____
	Two (2) rear hooks	_____
ELECTRICAL & LIGHTING	All lights (LED where applicable) and reflectors to conform to Montana Vehicle and Federal Specifications	_____
	All wiring harnesses under body or frame shall be sealed where connections are made	_____
PAINT	Dupont P3131 Teal or equal	_____

Contract Specifications
Schedule I – Two (2) New Tandem Tilt Cab, 2021 or newer Model, 66,000 GVW Cab and Chassis with Right Steer 27-Cubic Yard Automated Side Loading Refuse Compactor Body

<u>DESCRIPTION</u>	<u>MINIMUM REQUIREMENTS</u>	<u>COMPLY YES/NO</u>
WARRANTY CAB & CHASSIS	One year minimum on all parts and labor except glass, lubrications, and filters. <u>Two years minimum on all parts & labor on engine and transmission.</u> Warranty shall be by a company in Billings. Tech support shall be required Name and address _____	_____
MISCELLANEOUS	Shall meet all DOT & OSHA Requirements	_____
	One (1) set of operating, service, & parts manuals with wiring diagrams for each truck cab & chassis	_____
	The truck shall have a minimum of 12 inches of ground clearance between front and rear axle	_____
	Truck shall have a clearance of 13'6"	_____
	Truck shall include a Body Builders Junction Block	_____
	Extra pack cylinder included with the purchase	_____
STEERING	Right-hand steering, truck manufacturer installed with engine oil, transmission oil & water gauges, start button, engine shutdown, turn signals, & transmission control.	_____
	Steering Gear, Ross TAS65 or equal, to provide minimum 50° turning cut.	_____
	18 inch steering wheel	_____
PACKER BODY	Min. 27-cubic-yard exclusive of hopper capacity, all welded construction of framed steel sections. Interior shall be smooth and free of all obstructions to allow easy flow of refuse. Body shall be water tight at least 12" above the floor with gasket at tailgate.	_____
	Body sides 10-gauge and body roof 10-gauge high tensile steel, 80,000 psi min. yield	_____
	Floor of body 3/16" hi-tensile steel, 170,000 psi min. yield, BHN321	_____
	Hopper floor 3/16" hi-tensile steel,	_____

Contract Specifications
Schedule I – Two (2) New Tandem Tilt Cab, 2021 or newer Model, 66,000 GVW Cab and Chassis with Right Steer 27-Cubic Yard Automated Side Loading Refuse Compactor Body

<u>DESCRIPTION</u>	<u>MINIMUM REQUIREMENTS</u>	<u>COMPLY YES/NO</u>
Packer Body (cont.)	180,000 psi min. yield, BHN321, 3/16" Liner Steel channel reinforcement on front & sides Hopper sides minimum 3/16" high tensile steel sheet, 180,000 psi minimum yield. BHN321	_____
	The packer shall have a body lift for cleaning Access under the packer body	_____
	The side access door shall be located at the front street side of the body. Steps and grab handles shall be provided for ease of entry to hopper. An electrical interlock shall be provided to prevent packer panel motion whenever the side door is open.	_____
	Body shall be a full eject model with separate "eject" button. Eject shall be a full blade so that all garbage is removed with one pass, no fingers. Interlocks shall be provided to:	_____
	a. Prevent packer panel to fully eject unless the tailgate is open.	_____
	b. Prevent packer panel movement unless the hopper side access door is securely latched.	_____
	c. Prevent opening of grabbers while container is in dump position.	_____
	The packing mechanism shall be capable of continuous operation whether loading or not, and when moving. Maximum cycle time of 16 seconds.	_____
	Compactor must either enable containers to be unloaded at anytime, or must be coordin- ated to begin its cycle after containers are unloaded & complete the cycle before another container is dumped in normal operation.	_____
	Packer plate shall be constructed of min. 1/4" and 3/16" hi-tensile steel with adequate box framing & bracing to withstand maximum packing pressure without distortion.	_____
	Packer shall have tight seal with hopper and body to prevent material from falling behind blade.	_____

Contract Specifications
Schedule I – Two (2) New Tandem Tilt Cab, 2021 or newer Model, 66,000 GVW Cab and Chassis with Right Steer 27-Cubic Yard Automated Side Loading Refuse Compactor Body

<u>DESCRIPTION</u>	<u>MINIMUM REQUIREMENTS</u>	<u>COMPLY YES/NO</u>
Packer Body (cont.)	Compacting operations will be performed while vehicle is both moving or stopped and shall concurrently serve the lift device.	_____
	Hydraulic system shall be continuous operating low rpm (engine) system designed to maintain oil temperature within acceptable operating ranges with ambient temperatures of 115°F.	_____
	40-gallon hydraulic reservoir equipped with a suction line shut-off valve, drain plug, and a visual oil level gauge visible from ground, top center mounted vent.	_____
	Hydraulic fittings shall be standard hydraulic fitting - no pipe fittings.	_____
	Filter return line, replaceable 10-micron cartridge type with easy access for servicing.	_____
	Suction-line cartridge type filter, or strainer, located where it is easily accessible.	_____
	Electronic over speed switch or TCM	_____
	Lift, packer, & tailgate controls shall be mounted in cab & within easy reach of the operator.	_____
	Lift Control shall be electric over hydraulic and shall be of the single lever joy stick type to control all three dump motions.	_____
	An ergonomically designed padded arm rest shall be provided to help support the operator's arm. Dual set of heated LED stop, signal, & park lights, 4" minimum size. One set to be higher on tailgate, approximately 6 feet from ground. Directional signals on side of body.	_____
	Two (2) work lights (LED) shall be provided to illuminate the lift area and the hopper area with cab mounted on/off switch.	_____
	Tailgate hydraulic operated automatic locking & of 10-gauge steel with tailgate prop	_____

Contract Specifications
Schedule I – Two (2) New Tandem Tilt Cab, 2021 or newer Model, 66,000 GVW Cab and Chassis with Right Steer 27-Cubic Yard Automated Side Loading Refuse Compactor Body

<u>DESCRIPTION</u>	<u>MINIMUM REQUIREMENTS</u>	<u>COMPLY YES/NO</u>
Packer Body (cont.)	Mud flaps shall be mounted both behind & ahead of rear tires.	_____
	Strobe light LED mounted on tailgate and run off separate fused switch mounted in the cab	_____
	All wiring shall be in metal conduit where possible and where impractical shall have rubber grommets to provide for chafe protection. All wiring to be extra heavy duty.	_____
	All wiring shall be coded and grouped in harness where possible.	_____
	Two (2) complete wiring diagrams shall be provided for complete body and pickup mechanism.	_____
	Paint color to be DuPont P3131 Teal or equal with one coat of primer compatible to finish coat and 2 coats of finish.	_____
	Unit shall have a 5 year supplemental Power Arm Structure Assembly Warranty	_____
	Packer warranty shall be 12-month minimum of all parts and labor, except for lubrication and filters. The City shall be furnished (at no charge) copies of invoices for all work performed under warranty. They shall show all parts and labor charges.	_____
	All packer warranty work shall be done by a company located in Billings. Bidder shall state name and location of warranty dealer: _____ _____	_____
	One (1) complete set of operating parts and service manuals for the packer body shall be provided	_____
	A tool box, minimum size 24"x18"x16" shall be mounted on side under body.	_____
	A ladder shall provide access to top of body in hopper area.	_____

Contract Specifications
Schedule I – Two (2) New Tandem Tilt Cab, 2021 or newer Model, 66,000 GVW Cab and Chassis with Right Steer 27-Cubic Yard Automated Side Loading Refuse Compactor Body

<u>DESCRIPTION</u>	<u>MINIMUM REQUIREMENTS</u>	<u>COMPLY YES/NO</u>
---------------------------	------------------------------------	-----------------------------

Packer Body(cont.)	Full sweep mechanism to prevent any material hanging up in the hopper. Sealed system at front of truck	_____
	Lift cycle time shall be 8 seconds or less	_____
	Lift device shall be strong enough to not break, bend, crack, warp, or change from its original dimensions in the normal day-to-day operation of dumping 300-gallon barrels	_____
	Lift device shall have belt grabbers or steel grabbers capable of dumping 300, 90, & 60-gallon barrels without changing grabbers or dropping barrels.	_____
	Unit shall have crankshaft mounted PTO, dry-valve type, tube-type driveshaft.	_____
	A 20 pound, type ABC fire extinguisher shall be mounted on the side of body	_____
	Unit shall have truck mounted support for lift device in stowed position. <u>No batteries on work side</u>	_____
	Packer and arm functions shall be capable of operation in gear at idle speed	_____
	Packer unit shall have three camera system with one camera on back of truck, one camera to monitor the hopper area and one on driver side. The cameras and monitor shall be Alliance Tech, Inc. 3 rd Eye Mobile Vision AWT07MLESDT - Built in DVR monitor and three cameras AWT102OT – HD.	_____
	Broom and shovel rack right side of body	_____

OPTIONAL WARRANTY (show prices)

In addition to the warranty specified earlier, bidder shall show prices to purchase extended parts and labor warranties on the engine and transmission as follows:

	<u>Transmission</u>	<u>Engine</u>
Full 3 year	\$ _____	\$ _____
Full 4 year	\$ _____	\$ _____
Full 5 year	\$ _____	\$ _____

Contract Specifications
Schedule I – Two (2) New Tandem Tilt Cab, 2021 or newer Model, 66,000 GVW Cab and Chassis with Right Steer 27-Cubic Yard Automated Side Loading Refuse Compactor Body

FORM OF PROPOSAL (BID PROPOSAL)

SCHEDULE I

The undersigned hereby submits the following proposal:

Having carefully examined the specifications entitled “**Truck Cabs and Chassis for the Solid Waste Division, City of Billings**”, as well as all other conditions affecting the bid, the undersigned proposes to furnish all equipment and services necessary to complete the work required.

Consideration will be given in comparing proposals, in awarding awards, and in awarding a contract, not only to the amount of the proposal, but also the kind and quality of chassis offered, its suitability, for the use in purposes intended, as well as the lowest ultimate cost to the City.

Delivery date: _____

Two (2) NEW TANDEM TILT CAB,
2021 or newer Model, 66,000 GVW CAB
AND CHASSIS with Automated Side Load Garbage Body
(Base bid without any quoted options)

\$ _____ Each
FOB Billings, MT 59101

Trade Allowance for City Unit #0195 Automated Side Load \$ _____
(City reserves right to award bid without trade-in unit)

The undersigned agrees that the City shall retain the proposal guarantee until after delivery of the equipment, and if the equipment is not delivered on or before the date entered in this proposal, the proposal guarantee (Bid Bond) shall be forfeited to the City of Billings, Montana.

By: _____

Title

Company

Date

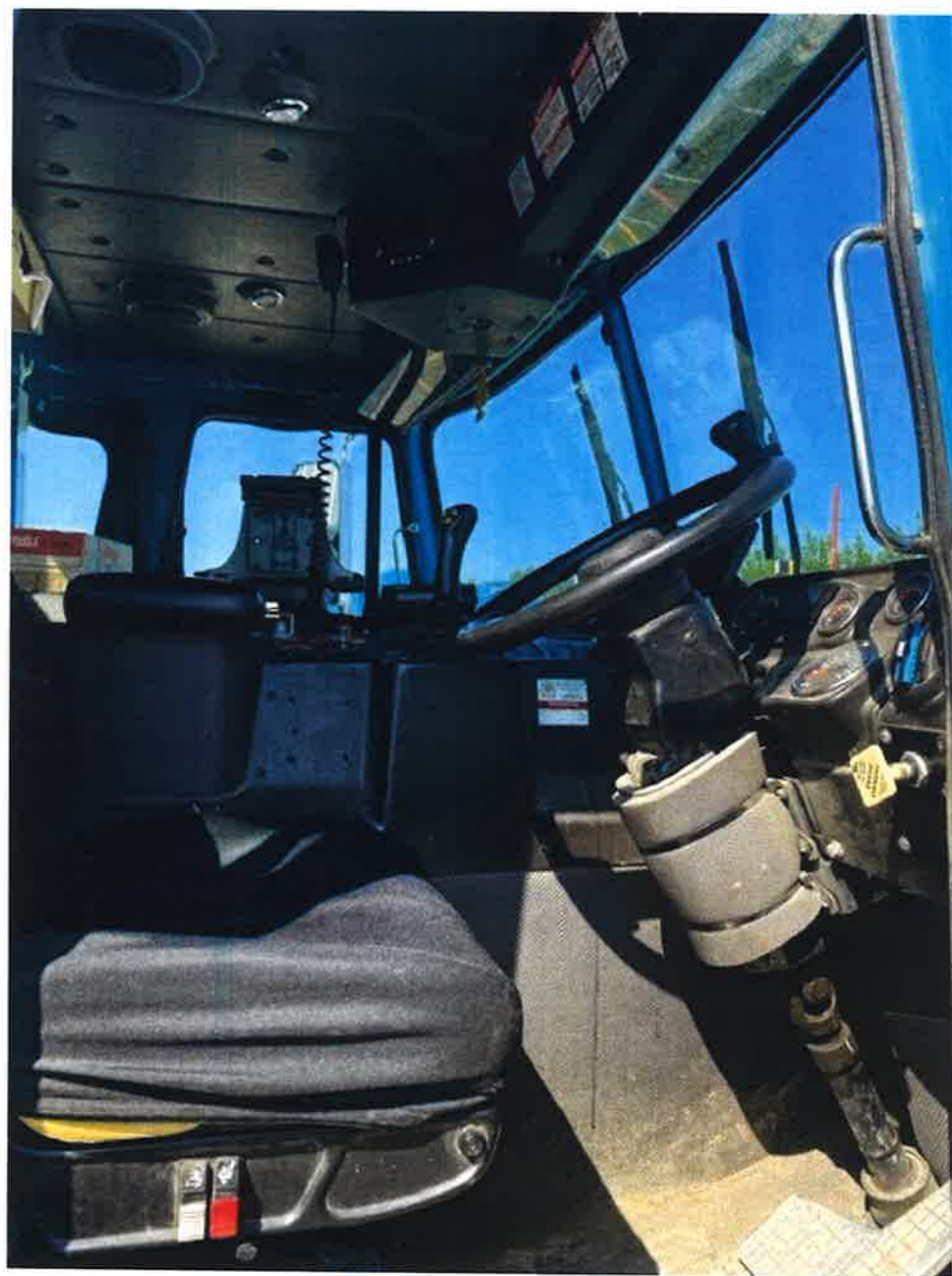
END: FORM OF PROPOSAL (BID PROPOSAL)
SCHEDULE I

Contract Specifications
Schedule I – Two (2) New Tandem Tilt Cab, 2021 or newer Model, 66,000 GVW Cab and Chassis with Right Steer 27-Cubic Yard Automated Side Loading Refuse Compactor Body

TRADE UNIT GENERAL INFORMATION SHEET

STYLE	<u>#0195</u> AUTOMATED SIDE LOADER
HOIST	Heil C-Frame DuraPack 7000
YEAR/MAKE	2015 AutoCar
# OF AXLES	3
VEHICLE ID	5VCACLSF9FH218319
CURRENT METER	46,774 Miles, 7,704 Hours
ENGINE	Cummins ISX12G - CNG
TRANSMISSION	Allison 4500
REAR AXLE	Meritor 5.38
FRONT AXLE	
FRONT TIRES	315/80R22.5
REAR TIRES	11R22.5
LIFT AXLE TIRES	N/A
GENERAL	Unit in good condition

Bidder to verify condition of trade units before submitting bid. The City of Billings will continue to operate these trucks until new units are delivered and ready to be placed into service. Trades will be released when new units are able to provide 40 hours of continuous service without a breakdown.





Schedule II – One (1) New Conventional Cab, 2021 or newer Model, 76,000 GVW Cab and Chassis with Chain Operated Roll-off Refuse Body

ENGINE

Cummins and/or Paccar engine with
Minimum 370 horsepower with 1350
pounds of torque.

Full variable speed governor

18.7 cubic feet air compressor, gear driven
with air intake plumbed to the clean side of
the main engine air filter

Heaviest duty radiator (1500 sq in) available with no
coverage by cab or etc., with maximum cooling -
heavy duty top and bottom bolted tanks

Stationary Grille

Racor 1000 FH fuel filter and heater to be mounted
as close to engine as possible, or equal.

Block Heater, 120v – 1500 watt

Anti-freeze to 34° below zero

12 volt, 160 amp minimum alternator

3 - 12 volt maintenance free batteries 3375 c.c.a.
External mounted

Battery disconnect to kill all
power from battery at the battery

Exhaust, vertical mounted,
maximum silence rated at latest
U.S. Government Specifications

Air cleaner, two stage, Donaldson
16" Cycloflo - outside air intake, or equal

Fuel tank 70-gallon minimum

Schedule II – One (1) New Conventional Cab, 2021 or newer Model, 76,000 GVW Cab and Chassis with Chain Operated Roll-off Refuse Body

TRANSMISSION	Allison automatic 4500 RDS with synthetic transmission fluid.	_____
	Power take-off opening	_____
BRAKES	S-Cam type "Q" Series front & rear air brake with Arvin Meritor automatic slack adjusters with brake backing plates, or equal	_____
	Bendix air dryer/with replaceable spin-out element with heater, or equal	_____
	Racor thermostatically controlled automatic "spitter" valve on primary air tank, or equal	_____
	Central manifold with petcocks for air tank drains	_____
	Emergency air brakes and dash mounted with dash-mounted warning light	_____
Suspension	Front Axle, Arvin Meritor MFS20, or equal 20,000 lb. capacity with 23,000 lb. springs	_____
	Heavy duty front shocks	_____
	Power steering, extra heavy duty with right-hand ram	_____
REAR AXLE	Arvin Meritor RT46-160 or equal with a gear ratio to be determined based upon engine	_____
	Rear axle Hendrickson HMX 460 46,000 lb. rating	_____
	Main drive line to be 1810 series, or equal	_____
	Rear axle to have power divider lock-out with dash-mounted light	_____
	Transverse torque rods	_____
TIRES	10 (10) Michelin 315/80R22.5 (L) XZU or equal, 10-hole piloted wheels, steel hubs.	_____
CAB	Air ride cab	_____
	Fresh air heater and defroster	_____

Schedule II – One (1) New Conventional Cab, 2021 or newer Model, 76,000 GVW Cab and Chassis with Chain Operated Roll-off Refuse Body

CAB (Cont.)	Integral air conditioner (not roof mounted)	_____
	Dual windshield wipers, variable	_____
	Auxiliary cab fan (one)	_____
	Air ride type drivers seat on left side. Right hand side to have standard passenger seat	_____
	Full coverage fender with rubber fender flares	_____
	Door windows roll-down type, both sides	_____
	Two (2) motorized and heated west coast mirrors, with dash switch	_____
	Six inch convex mirrors mounted below west coast mirrors	_____
	Air horns mounted under cab	_____
	Fully insulated and sound deadened. Must be insulated between cab and engine. Padded door liners and head liner required.	_____
	Grab handle - both sides	_____
	Engine hour meter	_____
	Water temperature gauge - direct reading	_____
	Oil gauge - direct reading	_____
	Voltmeter - direct reading	_____
	Air pressure gauge - direct reading	_____
	Transmission temperature gauge - direct reading	_____
	Fuel gauge - direct reading	_____

Schedule II – One (1) New Conventional Cab, 2021 or newer Model, 76,000 GVW Cab and Chassis with Chain Operated Roll-off Refuse Body

CAB (Cont.)	Audio alarm for low radiator, high water temperature (205 degrees), low oil, and transmission temperature (225 degrees)	_____
	Audio alarm shutdown system	_____
	Audio warning - low brake pressure	_____
	Back up alarm	_____
	AM/FM Radio	_____
FRAME	Extra heavy duty to match or exceed G.V.W. Frame rails 1/2" steel, variable drop, No exceptions. Frame must meet RBM of 3,200,000 in/lb without the addition of a liner	_____
	Clear frame for pusher installation	_____
	Standard front bumper	_____
	Two (2) front frame mounted extra heavy-duty tow hooks or pins	_____
ELECTRICAL & LIGHTING	Two (2) rear hooks	_____
	All lights (LED where applicable) and reflectors to conform to Montana Vehicle and Federal Specifications	_____
	All wiring harnesses under body or frame shall be sealed where connections are made	_____
PAINT	One Dupont P3131 Teal or equal	_____
WARRANTY CAB & CHASSIS	One year minimum on all parts and labor except glass, lubrications, and filters. <u>Two years minimum on all parts & labor on engine and transmission.</u>	_____
	Warranty shall be by a company in Billings. Show Name and address _____	_____
STEERING	Steering Gear, Ross TAS65 or equal, to provide minimum 50° turning cut.	_____

Schedule II – One (1) New Conventional Cab, 2021 or newer Model, 76,000 GVW Cab and Chassis with Chain Operated Roll-off Refuse Body

PUSHER AXLE	Watson & Chalin SL Series (or equal) steerable axle lift suspension, air lift, air suspension with single tires and budd rims, suspension and tire capacity of 10,000 lbs & axle capacity of 13,500 lbs. Unit to be installed complete in a pusher configuration compatible with roll-off hoist unit. Axle layout shall be in accordance with State of Montana GVW regulations and shall provide a minimum of 46,000 lb. legal capacity on the rear axles and optimum weight distribution to front axle. Controls mounted in cab.	<hr/>
HOIST TYPE	The hoist shall be chain drive, ASA 200 with medium Hook #AAM 640 200-M Hoist capacity shall be 50,000lbs or more	<hr/> <hr/>
CONTROLS	Located in cab within reach of driver to allow engaging, loading, and unloading of container without leaving cab. Hoist up visual and audible alarm. Visual alarm Mounted to dash in drivers line of sight. Audible Alarm to be a minimum of 60 decibels, but no more 85 decibels. Alarm must be activated as soon as the boom Clears the proximity switch, regardless of transmission Gear	<hr/> <hr/>
HYDRAULICS	35-gal tank, truck frame mounted with 10" clean-out port 10 micron spin-on type, return line Filter element Standard PTO, air-over-air direct mount, gear driven hydraulic pump. Overspeed feature to shut off pump above set RPM All piping shall be held in place by neoprene shock absorbing clamps Cylinders shall be 5" outside truck frame mounted Unit purchased shall be capable of loading and unloading containers where weight of the roll-off system and 3-axle chassis will equal or exceed maximum legal loads on a 3-axle unit. Unit shall be fully capable of engaging a 22'6"	<hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>

Schedule II – One (1) New Conventional Cab, 2021 or newer Model, 76,000 GVW Cab and Chassis with Chain Operated Roll-off Refuse Body

HYDRAULICS (Cont.)	container skid and shall have spring loaded container locks.	_____
	Heavy-duty filter in return line with shut-off valve	_____
LIGHTING	Combination stop-turn-tail lights – LED All lights and reflectors to conform to Montana Vehicle and Federal codes	_____
FENDERS	Full coverage frame mounted with mud flaps both behind and ahead of rear wheels	_____
MISCELLANEOUS	Shall meet all DOT and OSHA regulations	_____
	One (1) set of operating, service, & parts manuals with wiring diagrams <u>for each truck cab & chassis</u>	_____
	Truck shall include a Body Builders Junction Block	_____
	Unit shall be from a standard recognized manufacturer who has been manufacturing roll-off units for a minimum of two years and is recognized in the industry as such.	_____
	A light and audible alarm shall be provided in cab to indicate when the hoist is raised, and remain activated until it is completely lowered	_____
WET LINE	A hydraulic line shall be provided to the back of the truck to allow for connection to refuse containers that require hydraulics in order to be dumped. All lines to be protected and have quick connect fittings.	_____
EQUIPMENT BOX	Box shall have minimum dimensions of 48" long, 18" wide, and 20" deep. Box to be constructed of steel with overlapping hinged lid, mounted on driver's side of truck	_____
	Two complete sets of wiring diagrams, parts manual, operating manual, and service manual shall be provided for the hoist unit	_____
	Paint color of roll-off hoist shall match truck or be black	_____

Schedule II – One (1) New Conventional Cab, 2021 or newer Model, 76,000 GVW Cab and Chassis with Chain Operated Roll-off Refuse Body

HOIST WARRANTY Warranty shall be 12-month minimum of all parts and labor, except for lubrication and filters. The City shall be furnished (at no charge) copies of invoices for all work performed under warranty. They shall show all parts and labor charges. _____

All Warranty Work shall be done by a company located in Billings. Bidder shall state name and location of warranty dealer: _____

TARP SYSTEM Pioneer Rack 'n Pinion Tarper _____

OPTIONAL (Show Price) Bidder shall show price to provide 100% 5 year warranty on the hoist cylinders. \$ _____

OPTIONAL (Show Price) Bidder shall show price to provide additional 12 month warranty for all parts & labor except for lubrication and filters for the unit \$ _____

OPTIONAL (Show Price) All other optional equipment available shall be quoted. Use additional sheet. \$ _____

OPTIONAL WARRANTY (show prices) In addition to the warranty specified earlier, bidder shall show prices to purchase extended parts and labor warranties on the engine and transmission as follows:

	<u>Transmission</u>	<u>Engine</u>
Full 3 year	\$ _____	\$ _____
Full 4 year	\$ _____	\$ _____
Full 5 year	\$ _____	\$ _____

Schedule II – One (1) New Conventional Cab, 2021 or newer Model, 76,000 GVW Cab and Chassis with Chain Operated Roll-off Refuse Body

Prior to any award being made under this proposal, bidders shall be required to manifest satisfactory evidence to the City that there will be available in the City of Billings an adequate supply of such replacement parts as may be required for the repair and maintenance of any units which may be purchased as a result of their bid. The inability of any bidder to produce such satisfactory evidence when called for shall cause unfavorable consideration of this bid.

Consideration will be given in comparing proposals and in awarding a contract, not only to the amount of the proposal, but also the kind and quality of equipment offered, its suitability, for the use in purposes intended, as well as the lowest ultimate cost to the City and delivery date. Bidder must have recently performed a demonstration of model bid to be considered. Previous history of poor performance, parts availability and warranty service will exclude a bidder from consideration.

Schedule II – One (1) New Conventional Cab, 2021 or newer Model, 76,000 GVW Cab and Chassis with Chain Operated Roll-off Refuse Body

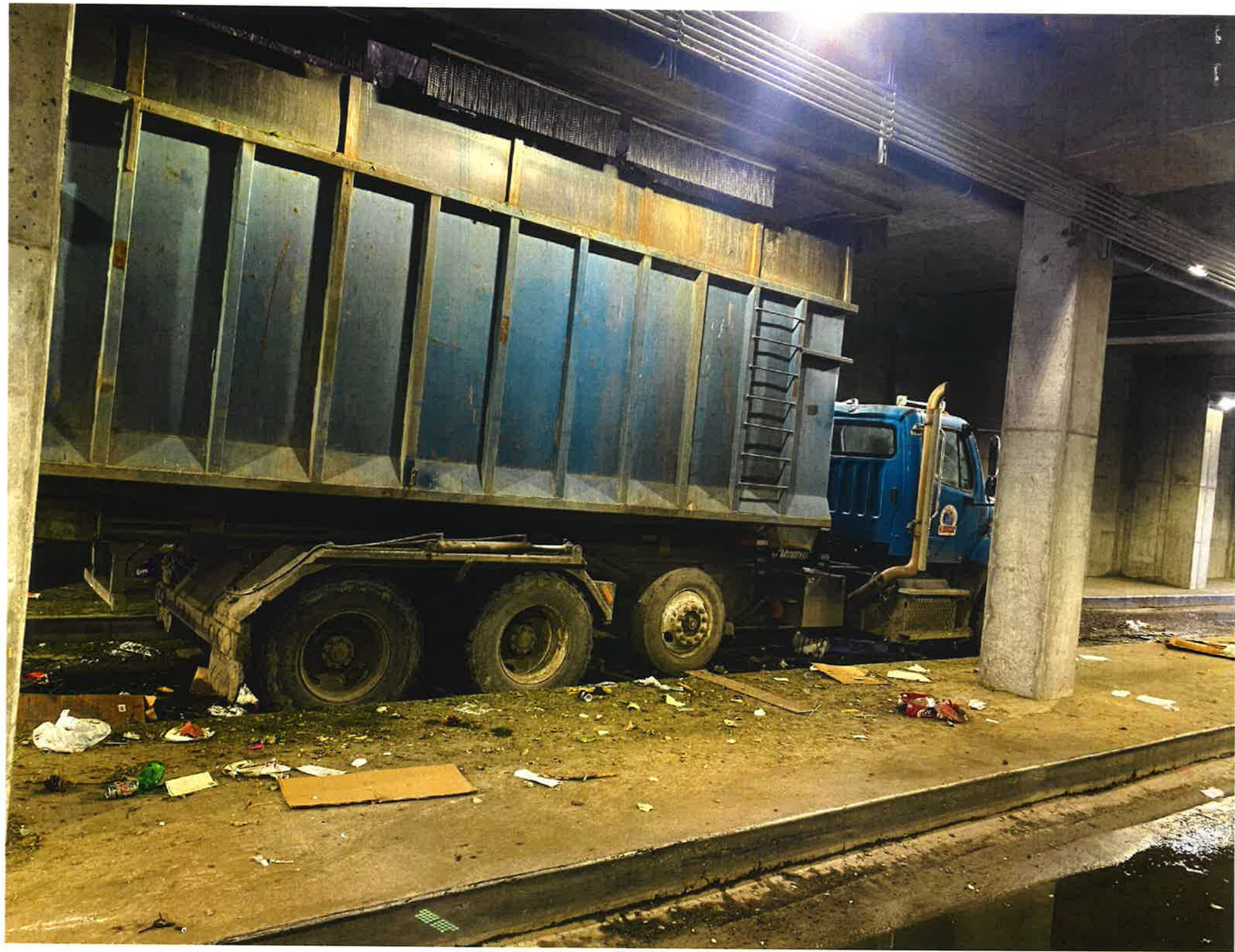
Schedule II – One (1) New Conventional Cab, 2021 or newer Model, 76,000 GVW Cab and Chassis with Chain Operated Roll-off Refuse Body

TRADE UNIT GENERAL INFORMATION SHEET

STYLE	<u>#0186</u> ROLL-OFF
HOIST	Advantage
YEAR/MAKE	2012
# OF AXLES	4
VEHICLE ID	IFVHG3DU6DDBW9449
CURRENT METER	11,857 Hours
ENGINE	Detroit DD13
TRANSMISSION	Allison 4500
REAR AXLE	Meritor
FRONT AXLE	
FRONT TIRES	315/80R22.5
REAR TIRES	11R22.5
LIFT AXLE TIRES	
GENERAL	Unit is in poor condition

Bidder to verify condition of trade units before submitting bid. The City of Billings will continue to operate these trucks until new units are delivered and ready to be placed into service. Trades will be released when new units are able to provide 40 hours of continuous service without a breakdown.





Contract Specifications
Schedule III – One (1) New Tilt Cab, 2021 or newer Model, 66,000 GVW Cab and Chassis with
40-Cubic Yard ½ Pack Front Loading Refuse Compactor Body

<u>DESCRIPTION</u>	<u>MINIMUM REQUIREMENTS</u>	<u>COMPLY YES/NO</u>
ENGINE	Cummins and/or Paccar engine. Minimum 385 horsepower 1450 torque Rating minimum. Must be capable of effectively Operating the body functions at idle and low rpm	_____
	State torque at 800 rpm, 1000 rpm	_____
	State max torque and RPM	_____
	Engine to be programmed for city operation	_____
	Full variable speed governor	_____
	25 cubic feet air compressor, gear driven with air intake plumbed to the clean side of the main engine air filter	_____
	Heaviest duty Radiator (1200 sq in) available with no coverage by cab or etc. with maximum cooling - heavy duty top and bottom.	_____
	Stationary Grille	_____
	Block Heater, 120v – 1500 watt	_____
	Anti-freeze to 34° below zero	_____
	12-volt, 160 amp minimum alternator	_____
	3 – 12-volt maintenance free batteries 2700 c.c.a. External mounted <u>on the left side of truck</u>	_____
	Battery disconnect to kill all power from battery at the battery	_____
	Exhaust stack NOT routed through the cab Shield	_____
	Air cleaner, two stage, Donaldson 16" Cycloflo - outside air intake, or equal	_____
	Fuel tank 60-gallon minimum	_____

Contract Specifications
Schedule III – One (1) New Tilt Cab, 2021 or newer Model, 66,000 GVW Cab and Chassis with 40-Cubic Yard ½ Pack Front Loading Refuse Compactor Body

<u>DESCRIPTION</u>	<u>MINIMUM REQUIREMENTS</u>	<u>COMPLY YES/NO</u>
TURNING RADIUS	Turning radius—34.89 ft. max	_____
	Curb-to-curb—71.84 ft. max	_____
	Wall-to-wall—76.44 ft. max	_____
TRANSMISSION	Allison automatic 4500 RDS with synthetic transmission fluid.	_____
	Auto-neutral shifting.	_____
	Power take-off opening	_____
BRAKES	S-Cam type "Q" Series or larger front & rear air brake with Arvin Meritor automatic slack adjusters with brake backing plates, no exception (Gunite not acceptable)	_____
	Bendix air dryer/with replaceable spin-out element with heater, or equal	_____
	Central manifold with petcocks for air tank drains	_____
	Emergency air brakes and dash mounted with dash-mounted warning light	_____
SUSPENSION	Front Axle, Arvin Meritor MFS20, or equal, 20,000 lb capacity with 20,000-pound springs	_____
	Rear axle Hendrickson HMX 460 46,000 lb. rating	_____
	Heavy duty front shocks	_____
	Power steering, extra heavy duty with right-hand ram	_____
REAR AXLE	Arvin Meritor RT46-160 with a gear ratio to be determined based upon engine	_____
	Rear axle to have power divider lock-out with dash-mounted light	_____
	Main drive line to be 1810 series, or equal	_____
	Transverse torque rods	_____

Contract Specifications
**Schedule III – One (1) New Tilt Cab, 2021 or newer Model, 66,000 GVW Cab and Chassis with
 40-Cubic Yard ½ Pack Front Loading Refuse Compactor Body**

<u>DESCRIPTION</u>	<u>MINIMUM REQUIREMENTS</u>	<u>COMPLY YES/NO</u>
TIRES	Ten (10) Michelin 315/80R22.5 (L) XZUS2 or equal, 10-hole budd rims, hub piloted wheels, steel hubs.	_____
CAB	Fresh air heater and defroster	_____
	Integral air conditioner (not roof mounted)	_____
	Dual windshield wipers, variable	_____
	Auxiliary cab fan (one)	_____
	Right air ride type seats	_____
	Full coverage fender with rubber fender flares	_____
	Electric door windows, both sides	_____
	Two (2) motorized and heated mirrors, and convex mirror with dash switch kit. Door mounted	_____
	Rear Corner Windows each side with full visibility for drivers to see behind	_____
	Air horns mounted under cab	_____
	Fully insulated and sound deadened. Must be insulated between cab and engine. Padded door liners and head liner required.	_____
	Grab handle - both sides	_____
	Engine hour meter	_____
	Water temperature gauge - direct reading	_____
	Oil gauge - direct reading	_____
	Voltmeter - direct reading	_____
	Air pressure gauge - direct reading	_____
	Transmission temperature gauge - direct reading	_____
	Fuel gauge - direct reading	_____

Contract Specifications
Schedule III – One (1) New Tilt Cab, 2021 or newer Model, 66,000 GVW Cab and Chassis with 40-Cubic Yard ½ Pack Front Loading Refuse Compactor Body

<u>DESCRIPTION</u>	<u>MINIMUM REQUIREMENTS</u>	<u>COMPLY YES/NO</u>
Cab (Cont.)	Audio alarm for low radiator, high water temperature (205 degrees), low oil, and transmission temperature (225 degrees)	_____
	Audio alarm and engine shutdown system	_____
	Audio warning - low brake pressure	_____
	Back up alarm	_____
	AM/FM Radio	_____
FRAME	Extra heavy duty to match or exceed G.V.W. Frame rails 3/8" steel variable drop, no exceptions. Frame must meet RBM of 3,400,000 in/lb per rail.	_____
	Skid plate protecting engine and pumps	_____
	Standard front bumper	_____
	Two (2) front frame mounted extra heavy-duty tow hooks or pins	_____
	Two (2) rear hooks	_____
ELECTRICAL & LIGHTING	All lights (LED where applicable) and reflectors to conform to Montana Vehicle and Federal Specifications	_____
	All wiring harnesses under body or frame shall be sealed where connections are made	_____
PAINT	Dupont P3131 Teal or equal	_____
WARRANTY CAB & CHASSIS	One year minimum on all parts and labor except glass, lubrications, and filters. <u>Two years minimum on all parts & labor on engine and transmission.</u>	_____
	Warranty shall be by a company in Billings. Tech support shall be required	
	Name and address _____	

Contract Specifications
Schedule III – One (1) New Tilt Cab, 2021 or newer Model, 66,000 GVW Cab and Chassis with
40-Cubic Yard ½ Pack Front Loading Refuse Compactor Body

<u>DESCRIPTION</u>	<u>MINIMUM REQUIREMENTS</u>	<u>COMPLY YES/NO</u>
STEERING	Steering Gear, Ross TAS65 or equal, to provide minimum 50° turning cut.	_____
	18 inch steering wheel	_____
PACKER BODY	Lift arms to be rated at 10,000 pounds minimum with Cab warning light to indicate when arms are raised Above the body, and auto-neutral system with on-off Switch. Heaviest dusty available	_____
	Forks shall be 57" long from bumper pad to end Of fork, heavy duty 1 ½ steel	_____
	Lift arm hydraulic cylinders hall be cushioned to Provide for a smooth stop in the raised and lowered Position, or equivalent.	_____
	Heavy duty bolt-on rubber stops on the side of the body Shall be provided to cushion lift arm	_____
	All controls in cab to be mounted to the right of the Driver and within easy reach. An arm rest shall be Provided for operator comfort	_____
	Lift Control shall be electric over hydraulic and shall be of the single lever joy stick type to control all three dump motions.	_____
	Min. 40-cubic-yard exclusive of hopper capacity, all welded construction of framed steel sections. Interior shall be smooth and free of all obstructions to allow easy flow of refuse. Body shall be water tight at least 12" above the floor with gasket at tailgate.	_____
	Body sides 10-gauge and body roof 10-gauge high tensile steel, 80,000 psi min. yield	_____
	Floor of body 3/16" hi-tensile steel, 170,000 psi min. yield, BHN321	_____
	Hopper floor 3/16" hi-tensile steel, 180,000 psi min. yield, BHN321, 3/16" Liner Steel channel reinforcement on front & sides Hopper sides minimum 3/16" high tensile steel sheet, 180,000 psi minimum yield. BHN321	_____

Contract Specifications
Schedule III – One (1) New Tilt Cab, 2021 or newer Model, 66,000 GVW Cab and Chassis with 40-Cubic Yard ½ Pack Front Loading Refuse Compactor Body

<u>DESCRIPTION</u>	<u>MINIMUM REQUIREMENTS</u>	<u>COMPLY YES/NO</u>
Packer Body (Cont.)	Lower hopper sides shall be 3/16" ASTM steel and the Upper hopper sides shall be 12-gauge ASTM steel both Rated at 80,000 PSI, or equal	_____
	Body styles that have a hopper sump shall have clean Out doors and clean out tool	_____
	A hydraulically actuated sliding top door shall be Provided to cover the hopper for traveling to the Discharge site	_____
	An in-cab light will be provided to indicate when the top Door is not fully open	_____
	The side access door shall be located at the front street side of the body. Steps and grab handles shall be provided for ease of entry to hopper. An electrical interlock shall be provided to prevent packer panel motion whenever the side door is open.	_____
	The packing mechanism shall be capable of continuous operation whether loading or not, and when moving. Maximum cycle time of 16 seconds.	_____
	Compactor must either enable containers to be unloaded at anytime, or must be coordinated to begin its cycle after containers are unloaded & complete the cycle before another container is dumped in normal operation.	_____
	Packer plate shall be constructed of min. 1/4" and 3/16" hi-tensile steel with adequate box framing & bracing to withstand maximum packing pressure without distortion, both rated at 80,000 PSI. Two 5 ½ cylinders shall provide 115,000 pounds Compaction force. Heaviest duty available	_____
	Packer shall have tight seal with hopper and body to prevent material from falling behind blade. The bottom of the body shall be water tight at least 12 inches above the floor	_____
	A removeable mesh screen shall be provided at the Back of the hopper to prevent trash from dropping Into the engine area	_____

Contract Specifications
Schedule III – One (1) New Tilt Cab, 2021 or newer Model, 66,000 GVW Cab and Chassis with
40-Cubic Yard ½ Pack Front Loading Refuse Compactor Body

<u>DESCRIPTION</u>	<u>MINIMUM REQUIREMENTS</u>	<u>COMPLY YES/NO</u>
Packer Body (Cont.)	Packer blade cycle time shall be 18 to 20 seconds	_____
	Compacting operations will be performed while vehicle is both moving or stopped and shall concurrently serve the lift device.	_____
	The packer shall have a body lift for cleaning access under the packer body	_____
	Body shall be a full eject model with separate "eject" button. Eject shall be a full blade so that all garbage is removed with one pass, no fingers. Interlocks shall be provided to:	_____
	a. Prevent packer panel to fully eject unless the tailgate is open.	_____
	b. Prevent packer panel movement unless the hopper side access door is securely latched.	_____
	Hydraulic system shall be continuous operating low rpm (engine) system designed to maintain oil temperature within acceptable operating ranges with ambient temperatures of 115°F.	_____
	The hydraulic pump shall be front engine, crank Driven with dry valve type, tube type driveshaft with Electronic over-speed control The unit provided shall be full eject 40-gallon hydraulic reservoir equipped with a suction line shut-off valve, drain plug, and a visual oil level gauge visible from ground, top center mounted vent.	_____
	Hydraulic fittings shall be standard hydraulic fitting - no pipe fittings.	_____
	Filter return line, replaceable 10-micron cartridge type with easy access for servicing.	_____
	Suction-line cartridge type filter, or strainer, located where it is easily accessible.	_____

Contract Specifications
Schedule III – One (1) New Tilt Cab, 2021 or newer Model, 66,000 GVW Cab and Chassis with 40-Cubic Yard ½ Pack Front Loading Refuse Compactor Body

<u>DESCRIPTION</u>	<u>MINIMUM REQUIREMENTS</u>	<u>COMPLY YES/NO</u>
Packer Body (Cont.)	Tailgate hydraulic operated automatic locking & of 10-gauge steel with tailgate prop and Hinged at the top	_____
	Mud flaps shall be mounted both behind & ahead of rear tires.	_____
	Dual set of heated LED stop, signal, & park lights, 4" minimum size. One set to be higher on tailgate, approximately 6 feet from ground. Directional signals on side of body.	_____
	Two (2) work lights (LED) shall be provided to illuminate the lift area and the hopper area with cab mounted on/off switch.	_____
	Strobe light LED mounted on tailgate and run off separate fused switch mounted in the cab	_____
	All wiring shall be in metal conduit where possible and where impractical shall have rubber grommets to provide for chafe protection. All wiring to be extra heavy duty.	_____
	All wiring shall be coded and grouped in harness where possible.	_____
	Two (2) complete wiring diagrams shall be provided for complete body and pickup mechanism.	_____
	Paint color to be DuPont P3131 Teal or equal with one coat of primer compatible to finish coat and 2 coats of finish.	_____
	Packer warranty shall be 12-month minimum of all parts and labor, except for lubrication and filters. The City shall be furnished (at no charge) copies of invoices for all work performed under warranty. They shall show all parts and labor charges.	_____
	All packer warranty work shall be done by a company located in Billings. Bidder shall state name and location of warranty dealer:	_____
	_____	_____
	One complete sets of operating parts and service manuals for the packer body shall be provided	_____

Contract Specifications
**Schedule III – One (1) New Tilt Cab, 2021 or newer Model, 66,000 GVW Cab and Chassis with
 40-Cubic Yard ½ Pack Front Loading Refuse Compactor Body**

<u>DESCRIPTION</u>	<u>MINIMUM REQUIREMENTS</u>	<u>COMPLY YES/NO</u>
Packer Body(cont.)	A tool box, minimum size 24"x18"x16" shall be mounted on side under body.	_____
	A ladder shall provide access to top of body in hopper area.	_____
	Unit shall have an environmental spill kit mounted On the side with a stainless steel bracket	_____
	A 20 pound, type ABC fire extinguisher shall be mounted on the side of body	_____
	Packer and boom functions shall be capable of operation in gear at idle speed	_____
	Packer unit shall have three camera system with one camera on back of truck, one camera to monitor the hopper area and one on driver side. The cameras and monitor shall be Alliance Tech, Inc. 3 rd Eye Mobile Vision AWT07MLESDT - Built in DVR monitor and three cameras AWT102OT – HD.	_____
	Broom and shovel rack right side of body	_____
Miscellaneous	Shall meet all DOT & OSHA Requirements	_____
	Cab Shield/Guard	_____
	Truck shall have a minimum of 12 inches of Ground clearance between front and rear axle	_____
	One (1) set of operating, service, & parts manuals With wiring diagrams.	_____
	Truck shall include a body builders junction block	_____
	Extra pack cylinder(s) to be included with purchase	_____

Contract Specifications
Schedule III – One (1) New Tilt Cab, 2021 or newer Model, 66,000 GVW Cab and Chassis with 40-Cubic Yard ½ Pack Front Loading Refuse Compactor Body

<u>DESCRIPTION</u>	<u>MINIMUM REQUIREMENTS</u>	<u>COMPLY YES/NO</u>
---------------------------	------------------------------------	-----------------------------

OPTIONAL WARRANTY (show prices)	In addition to the warranty specified earlier, bidder shall show prices to purchase extended parts and labor warranties on the engine and transmission as follows:		
		<u>Transmission</u>	<u>Engine</u>
	Full 3 year	\$ _____	\$ _____
	Full 4 year	\$ _____	\$ _____
	Full 5 year	\$ _____	\$ _____

Contract Specifications
Schedule III – One (1) New Tilt Cab, 2021 or newer Model, 66,000 GVW Cab and Chassis with 40-Cubic Yard ½ Pack Front Loading Refuse Compactor Body

FORM OF PROPOSAL (BID PROPOSAL)

SCHEDULE III

The undersigned hereby submits the following proposal:

Having carefully examined the specifications entitled “**Truck Cabs and Chassis for the Solid Waste Division, City of Billings**”, as well as all other conditions affecting the bid, the undersigned proposes to furnish all equipment and services necessary to complete the work required.

Consideration will be given in comparing proposals, in awarding awards, and in awarding a contract, not only to the amount of the proposal, but also the kind and quality of chassis offered, its suitability, for the use in purposes intended, as well as the lowest ultimate cost to the City.

Delivery date: _____

One (1) NEW TANDEM TILT CAB,
2021 or newer Model, 66,000 GVW CAB
AND CHASSIS with FRONT LOAD GARBAGE BODY
(Base bid without any quoted options)

\$ _____ Each
FOB Billings, MT 59101

Trade Allowance for City Curato Cans \$ _____

(City reserves right to award bid without trade-in unit)

The undersigned agrees that the City shall retain the proposal guarantee until after delivery of the equipment, and if the equipment is not delivered on or before the date entered in this proposal, the proposal guarantee (Bid Bond) shall be forfeited to the City of Billings, Montana.

By: _____

Title

Company

Date

END: FORM OF PROPOSAL (BID PROPOSAL)
SCHEDULE I

Contract Specifications
Schedule III – One (1) New Tilt Cab, 2021 or newer Model, 66,000 GVW Cab and Chassis with
40-Cubic Yard ½ Pack Front Loading Refuse Compactor Body

TRADE UNIT GENERAL INFORMATION SHEET

STYLE	Two (2) City Front Load Curotto Cans – CANS ONLY
CUROTTO MAKE	Heil
CUROTTO SIZE	4.3 YDS
YEAR/MAKE	2020
# OF AXLES	N/A
SERIAL NUMBER	31483 & 31484
CURRENT METER	N/A
ENGINE	N/A
TRANSMISSION	N/A
REAR AXLE	N/A
FRONT AXLE	N/A
FRONT TIRES	N/A
REAR TIRES	N/A
LIFT AXLE TIRES	N/A
GENERAL	N/A