CITY OF KNOXVILLE

OFFICE OF THE PURCHASING AGENT P.O. BOX 1631 400 MAIN ST., ROOM 667 KNOXVILLE, TN 37901

SEALED BID

THIS IS NOT AN ORDER

DATE: 12/09/2016 PAGE 1 Of 1

DOCUMENT NUMBER: 415648

READ ALL INSTRUCTIONS AND CONDITIONS ON ATTACHED PAGES BEFORE BIDDING. BID ON THIS FORM ONLY. BID PRICE ON ITEMS LISTED OR EQUAL, NO BID RECEIVED AFTER CLOSING HOUR WILL BE ACCEPTED.

**ALL PRICES TO INCLUDE TRANSPORTATION CHARGES & NET TERMS UNLESS STATED OTHERWISE **

Merchandise to be delivered to : See delivery instructions

BID will be received at: Office of the Purchasing Agent, Room 667, 400 Main St., Knoxville, TN 37902,

until 12/23/2016 11:00:00 AM

ENVELOPE TO BE SEALED AND MARKED: KNUCKLE BOOM TRUCKS

Special Instructions:

Contact Jeff Johnston at (865)951-3620 for delivery instructions. Direct all questions to jtucker@knoxvilletn.gov.

No.	Quantity	Description	Brand	Unit	Unit Price	Total	Applicable Discount
1	1 Each	Four (4) "straight boom" (common name) or "heavy duty knuckleboom loader and bulk trash body" (technical name) trucks, per attached bid specs.					

IMPORTANT - State Merchandise Delivery Date Here:		(Company Name)		
Buyer Name: Tucker, James		(Authorized Signature)		
	865-215-2064 (865) 215-2277	(Print Signed Name)		
Email:	jtucker@knoxvilletn.gov	(Phone Number)		
		(Email Address)		

CITY OF KNOXVILLE INVITATION TO BID

Knuckle Boom Trucks

Sealed bids, invited by the City of Knoxville, will be received by the Purchasing Agent of the City of Knoxville, in Room 667-674, City County Building; 400 Main Avenue; Knoxville, Tennessee, until 11:00:00 a.m. (Eastern Time) on December 23, 2016, at which time they will be opened and publicly read aloud and a contract awarded as soon thereafter as practicable.

BID SUBMISSION REQUIREMENTS

Bidders must furnish the following information in writing with their submission:

- Bid Form showing bidder's name, address, quoted price, business license number, date of expiration of business license. A copy of the bidder's current business license may be submitted in lieu of providing the license expiration date.
- 2. Non-Collusion Affidavit
- 3. Iran Divestment Act Certification of Noninclusion
- 4. Form I or Form II from the Equal Business Opportunity Program packet

INVITATION TO BID - INSTRUCTIONS AND CONDITIONS

- 1. Sealed bids will be received by the Purchasing Agent of the City of Knoxville in Room 667-674, City/County Building; 400 Main Avenue; Knoxville, Tennessee 37902 until December 23, 2016, at 11:00:00 a.m., at which time they will be publicly opened and read aloud and the contract awarded as soon as practicable. No bid will be received or accepted after the above-specified time for the opening of bids. Bids that arrive late due to the fault of U. S. Postal Service, United Parcel Service, DHL, FEDEX, any delivery/courier service, or any other carrier of any sort are still considered late and shall not be accepted by the City. Such bids shall remain unopened and will be returned to the submitting entity upon request.
- 2. The City of Knoxville reserves the right to reject any or all bids, to accept or reject any items thereon, to waive technicalities or informalities, to split orders if in the best interest of the City, to evaluate bids by various criteria, and to accept any bid which, in its opinion, may be for the best interest of the City.
- 3. Included in the Invitation to Bid is an affidavit in proof that the undersigned has not entered into any collusion with any person in respect to this bid or any other bid. The Bidder will be required to execute and submit this affidavit with the sealed bid.
- 4. Each bid must be submitted in a sealed envelope, addressed to the Purchasing Agent, City of Knoxville, Room 667-674, City/County Building, 400 Main Street, Knoxville, Tennessee, 37902. Each sealed envelope containing a bid must be plainly marked on the outside as: "Knuckle Boom Trucks."
- 5. **NO CONTACT POLICY:** After the posting of this solicitation to the Purchasing Division's website, any contact initiated by any proposer with any City of Knoxville representative concerning this proposal

is strictly prohibited, unless such contact is made with the Purchasing Division representative listed herein or with said representative's authorization. Any unauthorized contact may cause the disqualification of the proposer from this procurement transaction.

- 6. **INCLEMENT WEATHER:** During periods of inclement weather, the Purchasing Division will enact the following procedures with regard to solicitations and weather delays:
 - If City offices are closed due to inclement weather on the date that bids/proposals/qualifications/letters of interest are due into the Purchasing Office, all solicitations due that same day will be moved to the next operational business day.
 - The City of Knoxville shall not be liable for any commercial carrier's decision regarding deliveries during inclement weather.
- 7. All bids must be made on the Bid Form supplied with the contract documents, and no interlineations, excisions, or special conditions shall be made or included in the Bid Evaluation Sheet by the Bidder. Any bid on which there is an alteration of or departure from the Bid Form may be considered irregular and may be rejected. All bids must be signed in full by the Bidder or Bidders in their business name or style when submitted and must show his or their complete address.
- 8. No bidder may withdraw his bid for a period of 60 days after the actual date of the opening thereof.
- 9. Prior to submitting their bids, bidders are to be registered with the Purchasing Division by setting up a Vendor Self-Service Account. Instructions for registering on-line are available at www.knoxvilletn.gov/purchasing.
- 10. Bid submissions from un-registered bidders may be rejected.
- 11. Payment for completed services delivered to and accepted by the City shall be at the contract price.
- 12. State makes or brand on each item. If quoting on other than the make, model, or brand specified, the manufacturer's name and catalog number must be given, along with warranty information and detailed specifications. Because the City is committed to environmentally sound practices, brands are expected to be procured with environmental responsibility in mind.
- 13. Time of delivery is part of the consideration and must be stated in definite terms; time of delivery is guaranteed by the bidder and must be adhered to upon award. If time varies on different items, the bidder shall so state.
- 14.All quotations must be signed with the firm name and by a responsible officer or employee. Obligations assumed by such signature must be fulfilled.
- 15. Samples of items, when required, must be furnished free of expense to the City and if not called for within fifteen (15) days from the date of bid opening, same will be disposed of in a manner deemed to be in the best interest of the City. Items shipped as a result of an Agreement to purchase (Purchase Order) must match the sample provided with Vendor's bid submission. The City of Knoxville will be the sole judge as to whether or not the shipped items match said supplied sample, and the City's decision will be final. Should shipped items not, in the City's judgment, be as represented by the sample provided, Vendor shall pay the City in full for all costs associated with returning shipped items to the Vendor. No restocking fee or other fees will be assessed against the City of Knoxville.
- 16. Bidders shall verify bids before submission, as bids cannot be withdrawn or corrected after being opened. Bids will be evaluated by unit price.

- 17. If federal excise tax applies, show amount of same and deduct. Bear in mind that the City is exempt from Tennessee sales tax.
- 18. Prices are considered FOB Knoxville unless otherwise stated in the Invitation to Bid.
- 19. By execution and delivery of a bid submission, the bidder agrees that any additional terms and conditions, whether submitted to the City purposely or inadvertently, shall have no force or effect.
- 20. Regarding the Equal Business Opportunity Program contracting, the appropriate Form 1 or Form 2 must be submitted with the bid. Successful bidders who include Form I with their bid, stating their intent to use MOB or WOB subcontractors for any part of the contract, will be required to submit Form III, Statement of Payments to MOB/WOB Subcontractor(s) & Supplier(s). Contractors will use Form III to report the amount(s) they have paid to MOB and/or WOB subcontractors on June 30th and December 31st of each year during the life of the contract and with the final payment. Failure to submit this reporting data may result in a delay of payments. Final payment will not be released by the City until Form III is submitted.
- 21. Bidders must comply with the President's Executive Orders No.11246 and 11375 which prohibit discrimination in employment regarding race, color, religion, sex or national origin. Bidders must not maintain or provide for their employees any facilities that are segregated on the basis of race, color, religion or national origin. Bidders must also comply with Title VI of the Civil Rights Act of 1964, Copeland Anti-Kick Back Act, the Contract Work Hours and Safety Standard Act, Section 402 of the Vietnam Veterans Adjustment Act of 1974 and Section 503 of the Rehabilitation Act of 1973, all of which are herein incorporated by reference.
- 22.All bidders must comply with Title VI of the Civil Rights Act of 1964, as codified in 42 U.S.C. 2000d. The successful bidder must follow Title VI guidelines in all areas including hiring practices, open facilities, insurance, and wages. The City of Knoxville reserves the right to review all compliance records by a contract compliance officer designated by the City.
- 23. No interpretation of the meaning of the plans, specifications, or other pre-bid documents will be made to any bidder orally. Each request for such interpretation should be in writing addressed to James Tucker, Senior Buyer for the City of Knoxville, 400 Main Street, Room 667, Knoxville, TN 37902, or emailed to him at jtucker@knoxvilletn.gov. To be given consideration, such requests/questions must be received at least five (5) business days prior to the date fixed for the opening of bids. Any and all such interpretations and any supplemental instructions will be in the form of written addenda to the specifications which, if issued, will be posted to the City's website at www.knoxvilletn.gov/purchasing. Submitting organizations are strongly encouraged to view this website often to see if addenda are posted. Failure of any bidder to receive such addendum or interpretation shall not relieve such Bidder from any obligation under his bid as submitted. All addenda so issued shall become part of the Contract Documents.
- 24. Attention of all bidders is directed to the set off provision contained in Article II, Section 24-33, entitled, "Debts owed by persons receiving payments other than salary", and Section 2-1049 entitled "Receipt of benefits from City contracts by council members, employees, and officers of the City" of the Code of the City of Knoxville.
- 25. Before a Purchase Order is issued, the submitting entity, if selected, **must** provide the City Purchasing Division with a copy of its valid business license **or** with an affidavit explaining why it is exempt from the business licensure requirements of the city or county in which it is headquartered. If a contract is signed, the contractor's business license shall be kept current throughout the

duration of the contract, and the contractor shall inform the City of changes in its business name or location. Any Agreement to purchase resulting from this Invitation to Bid shall be governed by and construed in accordance with the substantive laws of the State of Tennessee and its conflict of laws provisions. Venue for any action arising between the City and the Vendor from the Agreement shall lie in Knox County, Tennessee.

- 26.In compliance with Tennessee state law, bids must be accompanied by a certification attesting that, to the best of the bidder's knowledge, the bidder does not engage in investment activities in Iran. The Iran Divestment Act of 2014 Certification of Noninclusion form may be found in this solicitation document.
- 27. By acceptance and delivery of the Purchase Order resulting from the award of this Invitation to Bid, the Vendor agrees to the following:

Contractor shall defend, indemnify and hold harmless the City, its officers, employees and agents from any and all liabilities which may accrue against the City, its officers, employees and agents or any third party for any and all lawsuits, claims, demands, losses or damages alleged to have arisen from an act or omission of Contractor in performance of this Agreement or from Contractor's failure to perform this Agreement using ordinary care and skill, except where such injury, damage, or loss was caused by the sole negligence of the City, its agents or employees.

Contractor shall save, indemnify and hold the City harmless from the cost of the defense of any claim, demand, suit or cause of action made or brought against the City alleging liability referenced above, including, but not limited to, costs, fees, attorney fees, and other expenses of any kind whatsoever arising in connection with the defense of the City; and Contractor shall assume and take over the defense of the City in any such claim, demand, suit, or cause of action upon written notice and demand for same by the City. Contractor will have the right to defend the City with counsel of its choice that is satisfactory to the City, and the City will provide reasonable cooperation in the defense as Contractor may request. Contractor will not consent to the entry of any judgment or enter into any settlement with respect to an indemnified claim without the prior written consent of the City, such consent not to be unreasonably withheld or delayed. The City shall have the right to participate in the defense against the indemnified claims with counsel of its choice at its own expense.

Contractor shall save, indemnify and hold City harmless and pay judgments that shall be rendered in any such actions, suits, claims or demands against City alleging liability referenced above.

The indemnification and hold harmless provisions of this Agreement shall survive termination of the Agreement.

CITY OF KNOXVILLE

BID FORM

TO: Purchasing Agent

City of Knoxville Suite 667-674

City/County Building 400 Main Street

Knoxville, TN 37902

Having carefully examined the specifications for "Knuckle Boom Trucks" to open on December 23, 2016 at 11:00 a.m. and the other Contract Documents and addenda, we hereby propose to furnish the equipment as specified for the following sum:

	BID: Total charge (in	ncludes shipping):	/ea		
	GUARANTEE of del	livery no later than	days after the item has been ordered (Bidder must initial)		
	Firm Name:		la kanana a		
	Official Address:				
			······································		
(By)		(Name Typed)			
		(Title)			
Date _					
Terms					
email	address				
Γelepl	none				

NON-COLLUSION AFFIDAVIT OF PRIME BIDDER

State	e of
Cour	nty of
	, being first duly sworn, deposes and says that:
(1)	He is owner, partner, officer, representative, or agent of, the Bidder that has submitted the attached Bid;
(2)	He is fully informed respecting the preparation and contents of the attached Bid and of all pertinent circumstances respecting such Bid;
(3)	Such Bid is genuine and is not a collusive or sham Bid;
(4)	Neither the said Bid nor any of its officers, partners, owners, agents, representatives, employees, or parties in interest, including this affiant, has in any way colluded, conspired, connived or agreed, directly or indirectly, with any other Bidder, firm or person to submit a collusive or sham Bid in connection with the Contract for which the attached Bid has been submitted or to refrain from proposing in connection with such Contract, or has in any manner, directly or indirectly, sought by agreement or collusion or communication or conference with any other Bidder, firm, or person to fix the price or prices in the attached Bid or of any other Bidder, firm, or person to fix any overhead, profit, or cost element of the bid price or the bid price of any other Bidder, or to secure through any collusion, conspiracy, connivance or unlawful agreement any advantage against the City of Knoxville or any person interested in the proposed Contract; and
(5)	The price or prices quoted in that attached Bid are fair and proper and are not tainted by any collusion, conspiracy, connivance or unlawful agreement on the part of the Bidder or any of its agents, representatives, owners, employees, or parties in interest, including this affidavit.
Signe	ed:
Subse	eribed and sworn to before me this day of, 2
	My commission expires:

IRAN DIVESTMENT ACT

Certification of Noninclusion

NOTICE: Pursuant to the Iran Divestment Act, Tenn. Code Ann. § 12-12-106 requires the State of Tennessee Chief Procurement Officer to publish, using creditable information freely available to the public, a list of persons it determines engage in investment activities in Iran, as described in § 12-12-105. Inclusion on this list makes a person ineligible to contract with the state of Tennessee; if a person ceases its engagement in investment activities in Iran, it may be removed from the list. The State of Tennessee currently uses the State of South Carolina's list, available here:

https://www.tn.gov/assets/entities/generalservices/cpo/attachments/List of persons pursuant to Tenn. Code
Ann. 12-12-106, Iran Divestment Act-July.pdf

By submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid each party thereto certifies as to its own organization, under penalty of perjury, that to the best of its knowledge and belief that each bidder is not on the list created pursuant to T.C.A. § 12-12-106.

Vendor Name (Printed)	Address	
By (Authorized Signature)	Date Executed	
Printed Name and Title of Person Signing		
NOTARY PUBLIC:		
Subscribed and sworn to before me this	day of	, 2
My commission expires:		

EQUAL BUSINESS OPPORTUNITY PROGRAM

Contracting Component

SECTION I

EQUAL BUSINESS OPPORTUNITY PROGRAM "GOOD FAITH EFFORT PLAN"

The City of Knoxville strongly encourages contractors to employ minority owned businesses and women owned businesses as subcontractors whenever feasible. This is viewed favorably by the City of Knoxville. In fact, the City's goal for minority and women owned business participation is 10 percent of the contract amount.

Prime contractors will consider all competitive sub-bids and quotations received from minority owned businesses (MOB) and women owned businesses (WOB). When a subcontract is not awarded to the MOB/WOB submitting the lowest bid, the prime contractor must document the reason(s) the award was not made in writing. If the Contractor terminates an agreement and/or subcontract with a MOB/WOB, then the contractor is required to strongly consider selection of another MOB or WOB as a replacement.

GOOD FAITH EFFORTS

- 1. Soliciting through all reasonable and available means.
 - a. Advertising
 - b. Written notices to all certified MOB's and WOB's who have the capability to perform the work or provide the service.
 - c. Solicitation of interest must be within sufficient time to allow MOB's and WOB's to respond to the solicitation.
 - d. Faxes, direct mailings, and telephone requests.
- 2. Providing interested MOB's and WOB's with adequate information about plans, specifications, and requirements of the contract in a timely manner to assist them in responding to a solicitation.
- 3. Negotiating in good faith with interested MOB's and WOB's.
 - a. It is the <u>bidder's/proposer's</u> responsibility to make opportunities available to MOB's and WOB's subcontractors and suppliers and to select opportunities consistent with the available MOB/WOB business subcontractors and suppliers. Evidence of such negotiations includes the names, addresses, and telephone numbers of MOB's and WOB's considered.

- (1) A description of the specifications for the work selection for subcontracting
- (2) Evidence why agreements could not be reached for MOB's and WOB's to perform the work.
- 4. Effectively using the services of available minority, women contractor groups, local minority and women business assistance offices, small business groups, and other organizations on a case-by-case basis to provide assistance in the recruitment and placement of minority/women business.

SECTION II

MOB/WOB SUBMITTAL TIME FRAME

The Contractor will submit the following forms with the **bid/proposal**:

1. "Statement of Intent for MOB/WOB Utilization" (Form I Attached)

This form will be submitted by the bidder/proposer if he/she plans to subcontract any portion(s) of the work with a MOB and/or a WOB. This form illustrates the areas the Contractor has identified as potential MOB and/or WOB subcontract opportunities and the **dollar value** associated with these opportunities. The purpose of "Form I" is to measure the Contractor's "Good Faith Efforts." It does not commit the prime to subcontracting these areas only to MOB and WOB firms or release the prime from negotiating with MOB/WOB firms for subcontract opportunities.

OR

2. "Statement of Intent of Performing Work Without Subcontracting" (Form II Attached)

This form will be submitted if the <u>bidder/proposer</u> does not plan to subcontract any portion(s) of the work and if there are not any sufficient material purchases in which MOB/WOB firms can be utilized. The <u>bidder/proposer</u> must certify that this <u>has been</u> a typical practice on projects of similar scope and dollar value. By submittal of Form II, the Contractor certifies that:

- (1) He/she does not typically subcontract on projects of similar scope and dollar value.
- (2) He/she will not enter into any subcontract for duration of the project, and if he/she does decide to subcontract any portion of the work, he/she will: notify the City immediately of the decision to subcontract and adhere to the provision of "Good Faith Efforts" in filling that subcontract opportunity.

The Purchasing Division may request the apparent low <u>bidder/proposer</u> to provide additional information to clarify the bidder's/proposer's responsiveness and intent in this regard.

These documents will be received by the Purchasing Division upon submission of a proposal/bid. Additionally, prime contractors who submit Form I stating their intent to use MOB or WOB subcontractors for any part of the contract are required to report the amount(s) they have paid to these

subcontractors on June 30th and December 31st of each year. Failure to submit this reporting data may result in a delay of payments. At the time of the final request for payment, the prime shall submit a Statement of Final Payments to MOB and WOB Subcontractors and Suppliers (Form III attached). Final payment will not be released by the City until Form III is submitted.

SECTION III

DEFINITIONS

Minority: A person who is a citizen or lawful admitted permanent resident of the United States and who is a member of one (1) of the following groups:

- a. Black American, which includes persons having origins in any of the Black racial groups of Africa;
- b. A Hispanic American, which includes persons of Mexican, Puerto Rican, Cuban, Central or South American or other Spanish culture or origin, regardless of race;
- c. Native American, which includes persons who are American Indians or Alaska Native;
- d. An Asian-Indian American, which includes persons whose origins are from Indian, Pakistan or Bangladesh.
- e. An Asian Pacific Islander, which includes persons whose origins are from Japan, China, Taiwan, Korea, Vietnam, Laos, Cambodia, the Philippines, Samoa, Guam, the U. S. Trust Territories of the Pacific and Northern Marinas.

Minority-Owned Business (MOB), Women-Owned Business (WOB): A business which is at least (51%) owned and controlled by minority group members or European American female(s). A MOB/WOB is bonafide only if the minority group interests are real and continuing and not created solely to meet the MOB/WOB requirement. In addition, the MOB/WOB must perform satisfactory work or services to provide supplies under the contract and not act as a mere conduit. In short, the contractual relationship must be bonafide. Certification of minority owned businesses and women owned businesses is provided by City Community Relations Office.

Owned and Controlled: A business which is (1) a sole proprietorship legitimately owned by an individual who is a minority or European American female; (2) a partnership or joint venture controlled by minorities or European American females, and in which at least (51%) of the beneficial ownership interests legitimately are held by minorities or European American females; or (3) a corporation or other entity controlled by minorities or European American females, and in which at least 51% of the voting interests and 51% of the beneficial ownership interests are legitimately held by minorities or European American females. In addition, these persons must control the management and operation of the business on a day-to-day basis.

<u>Subcontractor</u>: Any named person, firm, partnership, or corporation which supplies any work, labor, services, supplies, equipment, materials, or any combination of the foregoing contract with the contractor on a public contract.

FORM I

STATEMENT OF INTENT OF MOB/WOB UTILIZATION (TO BE SUBMITTED WITH THE BID/PROPOSAL)

We,			_, do certify that on the
	(Bidder/Propose	er)	
	(Project Name)		
(Dollar Amor	unt of Bid)		
MOB/WOB's will be empservice(s). The estimated subcontractor(s), vendor(s)	ployed as subcontractor dollar value of the am	ount that we plan to p	ay the MOB or WOB
	MOB/WOB	3 Utilization	
Description of Work	MOB Amount	WOB Amount	Name of MOB/WOB
The undersigned understated MOB(s) /WOB(s) on June is required to report the to completion of the project are met.	e 30 th of each year. Mo otal amount disbursed to	reover, the undersigned MOB(s)/WOB(s) for	ed understands that he/she this project at the
DATE:	COMPANY NAM	1E:	
SUBMITTED BY:			
TITI E.	(Authorized Repr	esentative)	
TITLE:			
ADDRESS:			
CITY/STATE/ZIP CODE	* * * * * * * * * * * * * * * * * * *		
TELEPHONE NO:			

FORM II

STATEMENT OF INTENT TO PERFORM WORK WITHOUT SUBCONTRACTING (TO BE SUBMITTED WITH BID/PROPOSAL)

we,	, hereby certify that it is our
	(Bidder/Proposer)
intent to per	rform 100 % of the work required for the
	contract.
	(Name of Project)
In making th	nis certification, the <u>Bidder/Proposer</u> states that:
1.	It is a normal business practice of the bidder/proposer to perform all elements of this type contract with its own work forces without the use of subcontracts.
	AND
2.	If it is necessary to subcontract some portion of the work at a later date, the bidder/proposer will comply with all requirements of the "Good Faith Efforts" in providing equal opportunity to MOB/WOB Firms to subcontract the work.
The undersig	gned hereby certifies that he/she has read the terms and agrees to the terms of this
on this docu	d title of authorized official of the company and the date must be properly executed ment and a list of previous projects of similar scope and dollar value as stated in tached or the bid may be deemed non-responsive.
DATE:	COMPANY NAME:
SUBMITTE	D BY:
TITI E.	(Authorized Representative)
CITY/STAT	E/ZIP CODE:
TELEPHON	E NO:

FORM III

STATEMENT OF PAYMENTS TO MOB/WOB SUBCONTRACTOR(S) & SUPPLIER(S) (TO BE SUBMITTED ON JUNE 30 AND DECEMBER 31 OF EACH YEAR FOR THE LIFE OF THE CONTRACT AND TO BE WITH FINAL PAYMENT REQUEST)

Project: Contract	#:				
Contract Name:					
Cert.#	МОВ	WOB	Name of Firm / Address & Phone#	Total Amount Paid	Contact Person
WWW.W.L.					

I hereby c	ertify that	this stateme	nt is true and that above J	payments have been n	nade.
Contracto	r:				
Address:_					THE CONTROL OF THE CO
By:					
Contr	actor's Sig	nature		Title	
Subscribe	d and swo	rn to before	me this d	ay of	20
Notary Public:					
My Comr Expires:	nission				

This specification describes a Heavy Duty Knuckleboom Loader and Bulk Trash Body, Cab and Chassis, to be delivered as a turn-key vehicle. All necessary equipment shall be furnished and delivered new, complete and ready for use. All parts not specifically mentioned but which are necessary for the complete unit shall be supplied and installed by the vendor even though such work or material are not specifically outlined and shall conform in strength, quality of material and workmanship to the best practice known to the Industry.

The bidder shall respond to each item listed in this specification in the space provided, indicating whether they meet or do not meet specification, and describe/clarify the proposed item or any deviation to the item. These pages are to be included in the Bid Response. <u>Bidder will be considered non-compliant if response is not on these specifications.</u>

NOTE TO BIDDERS:	These specifications	s are built around a	ı 2WD	chassis; if a	4WD	option i	S
available, please state th	ne price to upgrade:					_	

1. MINIMUM SPECIFICATIONS - STANDARD EQUIPMENT CHASSIS CAB

The below requirements are based on a Peterbuilt chassis model 348 and specify the minimum standards sought by the City of Knoxville. Bidders may bid an alternate chassis as long as the minimum standards are met or exceed. Any deviation from the specifications must be explained in detail.

ltem Number	Description	Meet Specification?	Description/ Deviation
Chassis			
1.1	Front Axle Load (lbs):14320		
1.2	Rear Axle Load (lbs)26000		
1.3	G.C.W. (lbs):40320		
1.4	Length (ft) 24		
1.5	Height (ft) 13.5		
1.6	Wheelbase (in):256		
1.7	Overhang (in):124.8		
1.8	Fr Axle to BOC (in):69.8		
1.9	Cab to Axle (in):186.2		
1.10	Cab to EOF (in):311.0		
1.11	Overall Comb. Length (in):417		
1.12	10-5/8in Steel Rails 385-444in		
	10.625 x 3.45 x .313 Dimension, 1,776,000 RBM;		
	Yield Strength: 120,000 psi.		

Page 1 of 17	Revised: 11/17/16

Item Number	Description		Description/ Deviation
1.13	Three-Piece Crossmembers		
1.14	Dana Spicer E1462I 14,600 lb, 3.5in Drop		
	Zert fittings on tie rod ends, king pins, & draglink ball		
	joints.		
1.15	Tapered Leaf Springs, Shocks 14,600 lb		
1.16	Power Steering Sheppard SD110 - Power Steering		
	Reservoir Frame Mounted		
1.17	Aluminum LMS Hubs		
	11-1/4in bolt circle. Includes a supplier extended		
	coverage up to 3 years / 350,000 miles for bearings &		
	seals.		
1.18	Dana Spicer Wide Track IPO Std, Front Axle		
1.19	Bendix Air Cam Front Drum Brakes 16.5x5	l	
	Includes automatic slack adjusters & outboard	! !	
1.00	mounted brake drums.		
1.20	Gusseted Cam Brackets, Steer Axle	·	
1.21	Rear Axle - Dana Spicer S26-190D (with wheel		
1.00	differential lock) 26,000 lb		
1.22	Iron LMS Hubs		
	Includes a supplier extended coverage up to 3 years /		
1 22	350,000 miles for bearings & seals.		
1.23	Long Stroke Parking Brakes, Drive Axle		
1.24	Gusseted Cam Brackets, Drive Axle(s		
1.25	SBM Valve	PERMANANTA	
	Full trucks require a spring brake modulation (SBM)		
-	system for emergency braking application. This		
·	system requires an SBM valve and a relay valve with spring brakes on the rear axles. The SBM valve	Anna	
	allows the foot valve to operate the rear axle spring	And the second s	
	brakes if a failure exists in the rear air system.	TOTAL	
1.26	Upsize Parking Brakes		
1.27	Heavy Duty Brake Drums, Drive Axle(s)	i i	
	Use with 16.5x7 Brakes		
1.28	Synthetic Axle Lubricant All Axles		
1.29	Single Drive Axle		-
1.30	Bendix Air Cam Rear Drum Brakes 16.5x7		
	Includes Automatic Slack Adjusters & Outboard		
	Mounted Brake Drums.		
	A A WALL AND A WALLOW		

Page 2 of 17 Revised: 11/17/16

Item Number	Description	Meet Specification?	Description/ Deviation
1.31	Ratio 4.56 Rear Axle	Secondation.	Deviation Agents
1.32	Reyco 79KB Multi Leaf 26,000 Lb		
1.33	Reyco Helper Springs 4,500 lbs		
	For use with Reyco 79KB suspension		
1.34	PACCAR PX-9 270@2000 GOV@2200 800@1300		
	(2013 Emissions) Includes alum flywheel housing,		
	cruise control, and J1939 provisions (provides an		
	interface point for the Electronic Service Analysis-		
	ESA and other PACCAR approved diagnostic tools).		
1.35	Additional specifications:		
	120. Standard Maximum Speed Limit [LSL]		
	0Expiration Distance	****	
	120Hard Maximum Speed Limit		
	65Maximum Accelerator Pedal Vehicle Speed		
	0Accelerator Lower Droop		
	65Maximum Cruise Speed		4
	0Cruise Control Lower Droop		The state of the s
	252Reserve Speed Function Reset Distance		
	0Maximum Cycle Distance		
	10Maximum Active Distance		
	0Reserve Speed Limit Offset		
	NOEngine Protection Shutdown		
	NOGear Down Protection		
	1400.Max PTO Speed		
	NOCruise Control Auto Resume		
	NOAuto Engine Brake in Cruise		
	0Expiration Distance		
	YESEnable Idle Shutdown Park Brake Set		
	5Timer Setting		
	YESEnable Impending Shutdown Warning		
	60Timer For Impending Shutdown Warning 35Engine Load Threshold		
	NOIdle Shutdown Manual Overrule		
	YESEnable Hot Ambient Automatic Overrule		
	40Low Ambient Temperature Threshold		
	60Intermediate Ambient Temperature Threshold		
	80High Ambient Temperature Threshold		
	Engine Idle Shutdown Timer Enabled		
	Remote PTO And Throttle Provision		

Page 3 of 17 Revised: 11/17/16

Item	Description		Description/
Number 1.36	Safety system shall not allow truck to travel over	s=Specification/=	Deviation (A)
1.50	10mph with PTO engaged.		
1.37	CARB Engine Idling Compliance - PACCAR PX-7,		
1.57	PX-9 and MX, Cummins ISL, ISM and ISX diesel		
	engines will include the required factory installed		
	serialized sticker on the driver's door to identify them		
	as meeting the NOx idling standard.		
1.38	PACCAR 160 Amp Alternator with 12V Starter		
1.39	Vehicle to be governed for max vehicle speed of		
	65mph.		
1.40	PACCAR Premium 12V Starting Batteries 2000 CCA		
1.41	Speed Fan Clutch For Frequent Start/Stops		
1.42	18.7 CFM Air Compressor		
1.43	VGT Exhaust Brake		
1.44	Spin-on Fuel Filter/Water Separator, Unheated		
	Frame Mounted. In addition to the fuel filter supplied		
	with the engine.		
1.45	High Efficiency Cooling System. Low coolant level		
	sensor warns of low coolant condition to prevent		
	engine damage.		
1.46	Radial Seal, Dry Type Air Cleaner, Frontal		
	Air Intake.		
1.47	Exhaust Single RH Horizontal		
	DPF/SCR series under frame. Horizontal exhaust w/		
1 40	tailpipe turned-out just ahead of the curbside rear tire.		
1.48	Allison 3000 RDS-P Transmission, Gen 5 - Allison 6-		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Speed, Close Ratio Gear) Forward Ratios: 1st-3.49, 2nd-1.86, 3rd-1.41, 4th-1.00, 5th-0.75, 6th-0.65		
	Reverse Ratios: DR-(5.03)		
1.49	HD Driveline, 2 Midship Bearings		
1.50	Dash Mounted Single Acting Air PTO Control		
1.51	Allison FuelSense Basic		
1.52	Auto Neutral Activates With Parking Brake		
1.53	Dash Mounted Push Button Shifter		
1.54	Bendix AD-IS Air Dryer with Heater	······································	
1.55	Aluminum Air Tanks		
	A AAMAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA		

Page 4 of 17 Revised: 11/17/16

Item	Description	Meet	Description/
Number .		Specification?	Deviation &
1.56	Tires & Wheels -		
	FF: GY 16ply 295/75R22.5 G399A LHS FUEL MAX		
	Dia. = 40.2 inches; SLR = 18.8 inches		
	RR: GY 16ply 295/75R22.5 G399A LHS FUEL MAX		
3 5 7	Dia.= 40.8 inches; SLR= 19.1 inches		
1.57	FF: Accuride 22.5x8.25 Steel Wheels painted white		
1 70	RR: Accuride 22.5x8.25 Steel Wheels painted white		
1.58	26in Aluminum 50 Gallon Fuel Tank RH U/C -		
1.50	Includes steps for cab access.	· · · · · · · · · · · · · · · · · · ·	
1.59	DEF Tank Mounted RH Under Cab - Standard DEF		
	To Fuel Ratio 2:1 Or Greater		
1.60	Steel Battery Box LH Under Cab, Non-Slip Step		
1.61	Steel Styled Aero Bumper Chrome, Two Tow Pins		
1.62	Alum Cab 108in BBC Metton Hood w/Bright Crown		
	Includes view window RH door and convex mirror		
	over RH door.	· · · · · · · · · · · · · · · · · · ·	
1.63	Severe Service Cab Package #1 – battery disconnect		
	switch mounted in floor next to driver's seat.		
	Includes Aluminum side skins, aluminum rear skin,		
	steel windshield mask, steel firewall, and steel front		
	floor sheet on all cabs, and additional reinforcement		
	structure on the back wall of the day cab.		
1.64	UltraRide Driver Seat - Air Ride, High Back, Vinyl		
1.65	(2) Person Passenger Seat - Non-Air Ride, Low Back,		
	Vinyl		
1.66	Adjustable Steering Column – Tilt Only		
1.67	Interior Grey/Black - Includes charcoal instrument		
	panels, glare-resistant gray dash, (2) power ports,		
	molded door pads with in-mold color, gray molded		
	back wall, 18" 4-spoke soft-touch steering wheel, soft-		
	touch steering column cover, power passenger		
	window, extruded rubber floor covering, header-		
	mounted dome light, foot well lighting, integrated		
	"dead pedal", (4) inside entry grab handles, (2)		
	sunvisors, (2) cup holders and map bin in dash.		
	SAFETY ORANGE SEATBELTS.		

Page 5 of 17 Revised: 11/17/16

ltem		Meet	Description/
Number		Specification?	
1.68	Day Cab Rear Window		
1.69	One Piece Curved Windshield		
1.70	Combo Fresh Air Heater/Air Conditioner		
	With radiator mounted condenser, dedicated side		
	window defrosters, Bi-Level Heater/Defroster		
1.71	Controls, 54,500 BTU/HR, and silicone heater hoses.		
1.71	Stainless Steel Mirrors 7x16 with Heat Element - Convex 8 Inch SS Mirror		
1.72			
	Air Horn 15in Painted Mounted under hood.		
1.73	ConcertClass Without CD, Includes BT Phone and		
	Audio, AM/FM, WB, USB and MP3. Standard speakers.		
1.74	Plug-In Auto Reset Circuit Breaker in place of fuses in	AM	
1./ T	iunction box.		
1.75	Electric Windshield Wipers With Intermittent Feature.		
1.76	Main Instrumentation Panel, Graphics Display		
, 0	Includes speedometer, tripodometer, tachometer with		
	hourmeter and outside air temperature display,		
	voltmeter, engine oil pressure, engine coolant		
	temperature, fuel level, primary and secondary air		
	pressure gauges. Includes standard warning light		W TOTAL PARTY OF THE PARTY OF T
	package: high water temperature, low oil pressure, and		
***************************************	low air pressure warning lights w/audible alarms, high		L. C.
	beam, turn signal, low fuel, parking brake, and ice		THE PROPERTY OF THE PROPERTY O
	warning indicators; seat belt reminder; rocker switches		
	with long-life LED indicators; multi-function turn stalk		
	with flash-to-pass feature (night mode flashes		
	headlights and marker lights; day mode flashes		
	headlights only), intermittent windshield wiper and		
1 7777	headlamp beam control.		
1.77	(5) Marker Lights, Aero LED		
1.78	Yellow/white strobe light stick installed in grill		
1.79	Yellow LED strobe lights installed in headache rack		
1.80	and rear bumper On each side of vehicle, small yellow LED button		
1.00	strobe mid mounted in bed for side visibility.		
1.81	Emergency lighting controls in cab utilizing single		
1.01	factory auxiliary rocker switch.		

Page 6 of 17 Revised: 11/17/16

Item Number	Description	Meet Specification?	
1.82	All emergency lighting shall be on one (1) 60amp		
	resettable circuit breaker mounted in battery box.		
1.83	All lighting to be LED when available.		
1.84	Color Axalta Two Stage - Cab/Hood		
***************************************	Base Coat/Clear Coat – WHITE for hood top, cab roof,		
	fender. Black frame.		
1.85	Backup Alarm		
1.86	Backup camera installed in cab		
1.87	Exterior grab handles on both sides on the cab.		

2. MINIMUM SPECIFICATIONS - Knuckleboom Trash Loader and Trash Body

The intent of this specification to describe a 20' Knuckleboom Loader and trash body that is purposely designed for the collection of brush, limbs, leaves, and white goods. It shall be designed to be a one-person operation. The loader is mounted between the back of the chassis cab, and the front of the dump body. The loader utilizes a main boom, jib boom, extendable tip boom, and rotating trash bucket to lift and load material. The loader is stabilized through the use of a four-way adjustable stabilizer assembly. Material in the dump body is hydraulically unloaded via a single cylinder scissor hoist. These specifications are based on a Brush Hawg Standard C Model and represent the minimum standards sought by the City of Knoxville. Bidders may bid an alternate brand as long as minimum standards are met or exceed. Any deviation from the specifications must be explained in detail.

Item Number	Description	Meet Specification?	Description/ Deviation
General			
2.1	Unit shall be in current production and current year	•	
	model, the manufacturer's printed literature including		
	all specifications shall be submitted with the bid.		
2.2	Unit shall meet all Governmental Regulations, DOT,		
	EPA etc.		
Loader S	pecifications		
2.3	The turret base sides, front, and back shall be		
	constructed of 1/4" plate. The turret base is attached to		THE REAL PROPERTY AND ADDRESS OF THE PERTY ADDRESS OF THE PERTY ADDRESS OF THE PERTY AND ADDRESS OF THE PERTY ADDR
	the chassis rails with two ½" mounting plates. These		
	plates are secured to the frame rails using 20mm		
	diameter Huck fasteners. Attachment of the turret		
	base using <u>U-bolts</u> , or <u>Grade 8 bolts is unacceptable</u> .		

Page 7 of 17	Revised: 11/17/16

ltem Number	Description	Meet Specification?	
2.4	The lower turret base plate is machined to a minimum 1-13/16" thickness.	Sa. Specification.	Deviation see
2.5	The turret rotates on a heavy duty 30" diameter slewing ring bearing with gear teeth cut on the internal bearing ring, thus protecting the drive mechanism from the elements.		
2.6	The slewing ring bearing is driven by a 2-stage planetary gearbox powered by a low speed, high torque, disc-valve motor, producing an available turret rotate torque of 150,000 in-lbs. The hydraulic motor is equipped with integral, non-adjustable, cross port relief valves to protect the unit from shock loading while rotating the turret.		
2.7	Turret rotation is limited to 270° by means of positive mechanical stops to prevent loader operation over the truck cab.		
2.8	The upper turret base plate is 30" in diameter, and 1" thick after machining.		
2.9	The turret side plates are constructed of ½" plate, and the turret back is constructed of ½" plate.		
2.10	The main boom and tip boom pivot pins are 2" dia. bolts with locknuts. A hex keeper prevents the bolt from rotating.		
2.11	The main boom cylinder pins and tip boom cylinder pins are 2" dia CRR. The pins are secured by ½" bolts through 3/8" thick keeper plates. Cylinder pin bosses are 3" OD x 2" ID.		
2.12	Booms are of the single boom design to prevent axial rotation and bushing damage associated with twin boom designs.		
2.13	The main boom is constructed using single 10" x 10" x 5/16" wall square tubing with ½" side reinforcement plates. Designed to enhance below grade reach which is >9'6" (varies with chassis frame rail height) Twin Boom Designs are Unacceptable.		
2.14	The main boom pivot utilizes 2" ID replaceable bronze bushings with a lubrication provision.		

Page 8 of 17 Revised: 11/17/16

Item Number	Description	Meet Specification?	Description/ Deviation
2.15	The main boom cylinder pin-off plates are ½" plate weldments, welded to both sides of the boom with a 3/8" thick reinforcing stiffener.		
2.16	The main boom to tip boom pivot is 1" thick plate, machined to 3/4" at the connection point, and welded to both sides of the boom tubing with 4" OD x 2" ID DOM tubing bosses. Includes boom stop.		
2.17	The tip boom is constructed of a single ¼" wall, 6" x 8" structural tube with 3/8" plate reinforcement wrappers. Hoses inside a Hose Retract Box.		
2.18	The tip boom side plates are ½" thick, welded to both sides of the boom with 3" OD x 2" ID DOM tubing pin bosses.		
2.19	The tip boom extension is a retractable/extendable telescoping section that is housed within the tip boom assembly. Total length after extension is 20 feet.		
2.20	The tip boom extension boom is constructed of a single, ¼" wall, 5"x7" structural tube with ¾" plate welded to both sides of the boom for attachment of the bucket knuckle.		
2.21	The tip boom extension boom has a 4" x 6" aluminum bronze bearing plate attached to the top rear of the extension section. Two (2) 2" diameter aluminum bronze bearing pads protrude through holes in the bottom of the outer tube wrapper to provide a sliding surface for the end of the boom. Must incorporate wear pucks, no exceptions.		
2.22	All boom pivot points are equipped with replaceable 2" ID bronze bushings with grease provision.		
2.23	The bucket is of the heavy duty construction, 48" long, measuring 60" from side to side when fully opened.		
2.24	Ground clearance at the center of the bucket is a minimum of 24" when it is fully opened, and resting on level ground.		
2.25	Rotation of the bucket is accomplished with a hydraulic rotator motor allowing 360° continuous rotation.		

Page 9 of 17 Revised: 11/17/16

Item Number	Description	Meet Specification?	
2.26	The bucket is opened and closed via (2) hydraulic cylinders. The hydraulic oil lines to the cylinders are routed through an integral swivel joint in the bucket rotator motor, allowing continuous rotation without hose damage. Includes 1/4" bolt-on bucket cylinder covers.		
2.27	The bucket top plate is constructed of 3/4" plate. The bucket tongs are constructed of 3/8" plate HRS with a 3/8" x 3" BOLT-ON, REVERSABLE, REPLACEABLE edge strip.		
2.28	The bucket tongs form a reverse curve to help avoid scalping and digging on grass lawns.		
2.29	The bucket contains (8) tongs – 4 per side. The bucket sides are constructed of 7 ga material. There shall be a swing brake incorporated into the bucket.		
2.30	The loader is equipped with 4-way adjustable hydraulic stabilizers. Each side has independent controls for the in/out and up/down adjustment.		
2.31	The outer stabilizer cross tube and outer stabilizer vertical tubes are constructed of 8" x 6" x ½" wall rectangular tubing.		
2.32	The inner stabilizer cross tubes and vertical tubes are constructed of 7" x 5" x 1/4" wall rectangular tubing.		
2.33	The stabilizer footpads will be 3/4" thick, ((2) 3/8" plates) - overall dimension - 10" x 11", connected to the pad brackets by a single 1" Grade 8 bolt/lock nut.		
2.34	The stabilizer vertical tubes are equipped with a powdercoated housing with six (6) clear strobing L.E.D. lights. Both sets of lights are wired to the same in-cab switch.		
2.35	Clutch-shift PTO's (Hot Shift) will be used where the chassis has an automatic transmission.		
2.36	All Clutch-shift PTO's (Hot Shift) will be provided with overspeed protection.		

Page 10 of 17 Revised: 11/17/16

Item Number	Description	Meet Specification?	Description/ Deviation
2.37	Return filter is a top-of-the-tank mounted housing with a 5 Micron synthetic drop-in element. The filler cap is bayonet-style and is non-vented. The reservoir is vented through a replaceable screw-on breather		
	which removes airborne particles 3 Microns and		
	above. This breather will be installed in a ³ / ₄ " NPT port located on top of the reservoir. The Hydraulic		
	tank and system must incorporate a "drop in filter",		
	No Exceptions. There must be an inline hydraulic		
2.38	cooler. Main boom cylinder 6" bore x 4" shaft x 34" stroke.		
2.40	Tip boom cylinder 4½" bore x 2½" shaft x 32" stroke.		
2.41	Tip boom extension cylinder 3" bore x 1 ½" shaft 48" stroke.		
2.42	Stabilizer in/out cylinders are (2) 3" bore x 1 ½" shaft x 22" stroke.		Name
2.43	Stabilizer up/down cylinders are (2) 3" bore x 1 ½" shaft x 22" stroke w/pressure holding valves.		
2.44	Trash bucket cylinders are (2) 3" bore x 1 ½" shaft x 7" stroke.		
2.45	Control valve is open center Parker V20 with a main relief valve set at 2,150 psi.		
2.46	Counter balance valves are installed on the main boom and tip boom cylinders to prevent free fall in case of a hydraulic failure.		
2.47	The hydraulic pump is a cast iron, gear-type, direct mounted to the power take-off, and producing 18.5 gpm @ 1,200 rpm. NOTE TO BIDDERS: Hydraulic fluid in system shall		
	be purchased from Certified Labs p/n XHYDFL.IS046. This allows compatibility with current fluid being used by City Fleet Services and prevent cross-contamination.		
2.48	All hydraulic hoses are 2-wire braided hoses, with an abrasion resistant jacket, rated at 3,000 psi working pressure (with the exception of the pump suction hose which is of SAE100R4 construction).		

Page 11 of 17	Revised: 11/17/16

Item Number	Description	Meet Specification?	Description/ Deviation
2.49	The loader is equipped with dual "stand-up" operator stations located between the back of the chassis cab, and the front of the dump body.		
2.50	The control knobs are located at both control stations, and they are connected to a single valve bank via the control rod linkages.		
2.51	The control knob locations are the same on both sides of the unit for operator convenience.		
2.52	The stabilizer and dump body controls are centered between the control stations for safety.		
2.53	The loader will be equipped with a 24" "walk-through" feature that allows the operator to pass between the two stations without having to step down off of the unit. The operator can access both stations from the chassis cab without having to ever touch the ground.		
2.54	The control linkage assembly consists of 5/8" CRR control rods, ½" CRR handles with threaded control knobs, and MD Nylon control rod bearing blocks. The control rods are yellow zinc plated for corrosion resistance.		
2.55	The valve bank is centered on the rear side of the turret base assembly. It is attached to the control station "Z" frame which is top-hinged, allowing access to the valve for service. The control station "Z" frame is constructed of 1/4" formed plate.		
2.56	Driver side step from cab will be designed so the driver can transition from cab to working platform without stepping off the truck and back on. There should be sufficient grab handles to ensure three points of contact at all times.		

Page 12 of 17 Revised: 11/17/16

Item Number	Description	Meet	Description/
2.57	The following control functions are located at both	specification?	Deviation
2.57	operator's stations:		THE PARTY OF THE P
	Throttle Advance: On / Off		
	Bucket: Open / Close		
	Bucket Rotation: CW / CCW		
	Tip Boom Extension: Out / In		
	Turret Swing: CW / CCW		
	Tip Boom: Retract / Extend		-
	Main Boom: Lower /Raise		
	Center CS Outrigger: In / Out		
	Center SS Outrigger: In / Out		
	Center CS Outrigger: Up / Down		
	Center SS Outrigger: In / Out		
Dump Bo	ody		
2.58	Dump Body shall be 18ft long with 48 inch sides and		
4147	42 inch headboard.		
2.59	The dump body long sills are 8" x 11.5 lb/ft structural		
	channel.		
2.60	The dump body crossmembers are 4" x 5.4 lb/ft		
	channel. Crossmembers are on 12" center spacing.		
2.61	The dump body floor is 1-Piece 3/16" plate steel,		
	continuously welded to the headboard and sides.		The state of the s
2.62	The dump body bottom side rails match the		
	crossmembers.		
2.63	The dump body top side rails are 3" x 4" x 3/16"		
	structural tubing.		
2.64	The dump body sides are 10 GA.		
2.65	The dump body side posts are 3" x 6 ½" x 10 GA,		
	formed channel, and are set on 24" centers. Each side		
	post has a bottom/side weep hole for moisture		
	control.		
2.66	The dump body rear corner posts are 3" x 6 3/4" x 1/4",		
	4-way bend, formed channel.		
2.67	The dump body headboard construction matches the		
	dump body side construction. There are (3) three		
~~~	posts on the headboard.		

Page 13 of 17 Revised: 11/17/16

ltem \		Meet	Description/
Number	Description	Specification?	
2.68	The dump body rear door has 3" x 4" x 1/8" tubular		
	framing with a single horizontal brace. Rear door		
	construction matches dump body side construction		
	and shall be a single panel. Twin swing doors are		
	NOT acceptable.		
2.69	The dump body rear barn door lock the positive type.		
	The door can be swung parallel to the side, and		
	chained open for the unloading operation. The door		
	has (3) greaseable hinges.		
2.70	The dump body rear door each has three (3) 1-1/16"		
	CRR hinge pins with grease zerts.		
2.71	The dump body tarp rails are 1 1/4" x 3/16" flat bar		
	welded down each side of the body.		
2.72	The dump body comes with a single safety prop.		
2.73	The dump body lights meet all federal highway		
	standards, and are "pop-in" style for easy		
	replacement. Lights are housed in a 12 GA formed		
	bumper, welded to the bottom of the dump body.		
	Surface-mount lights are not acceptable.		
2.74	The dump body comes with a fixed ICC bumper for		
A ###	underride protection.		
2.75	The dump body comes with a set of rear mud flaps.		
2.76	The dump body hoist is a single cylinder, scissors-		
	type, rated at 15 tons. It will achieve a minimum 45°		
	dump angle without the rear of the dump body		
	touching the ground.		
2.77	All L.E.D. body lights.		
2.78	Required reflectors and tape.		
2.79	Mounting to be done at the factory by certified, body-		
2.00	mount specialists.	****	
2.80	Any chassis sent to the factory that does not meet the		
0.01	minimum chassis requirements will not be mounted.		
2.81	The loader and dump body will receive one coat of a		
	automotive-grade, 2-part epoxy primer, followed by (2) coats of Sherwin Williams automotive-grade acrylic		
	urethane finished paint. The underside of the dump body		
	floor will be coated with Autobody Technologies,		
***************************************	Inc.TRANSTAR TR4361 Quick Dry Rubberized		
	undercoating or approved equal.		

Page 14 of 17 Revised: 11/17/16

Item Number	Description	Meet	Description/ Deviation
2.82	The loader lifting capacities are:	Specification?	Beviation (188)
2.02	9,785# @ 08 Feet	And the second s	
	8,155# @ 10 Feet		
	6,355# @ 12 Feet		
	5,455# @ 14 Feet		
	4,555# @ 16 Feet		
	3,955# @ 18 Feet		
	3,535# <u>@</u> 20 Feet		
	3,365# <u>@</u> 20 Feet 8 Inches		
	Note: All capacities are GROSS WEIGHTS, which		
	include the weight of the bucket, and are based upon		
	level, hard surfaces, with the stabilizers at their		
***************************************	maximum extension.		
2.83	"Boom over height" In-cab light and alarm.		
2.84	"Stabilizers down" In-cab light and alarm.		
2.85	Dual upper rear barn door strobe lights, amber.		
2.86	Dual upper rear barn door brake lights, red.		
2.87	All strobe lights.		
2.88	An integrated tool box approx. 18"x24"x96" shall be		
	integrated in front of trash body. Frame or loader		
	platform mounted tool boxes unacceptable. No		
	exceptions.		
2.89	Body to be equipped with a DOT rear bumper. Rear		
	bumper should not hit the ground when body is		
	dumped to its fullest dump angle. CHEVRON-type		
	striping to be applied to both sides, rear of body and	7	
	completely across rear side of bumper. Color to be		
	chosen by City of Knoxville.		

### 3. MINIMUM SPECIFICATIONS – TRAINING

ltem Number		Meet Description/ Specification? Deviation
3.1	Minimum of eight (8) hours of operator orientation for safety, proper operation and operator daily maintenance.	
3.2	Minimum of eight (8) hours of technical and diagnostic orientation for mechanics/technicians.	

16

Item Number	Description	Meet Description/ Specification? Deviation
3.3	Training shall be conducted by a qualified	
	Manufacturer's Representative at purchaser's	
	location (Knoxville, Tennessee).	
3.4	Certificate of completion of orientation shall be	
	provided for all operators who successfully	
	complete the training.	
3.5	Winning bidder shall provide a current model	
	Panasonic Toughbook laptop. All diagnostic	
	software shall be PC based and pre-loaded on to	
	laptop. Software is to be the newest and most	
	advanced version available. It shall include engine	
	diagnostic software, body control diagnostic	
	software, ABS diagnostic software. Any	
	subscriptions to software shall be paid by winning	
***************************************	bidder for a minimum of one year with the ability	
	for the City to continue subscription. Any cables,	
-	USB interface, etc. required to use diagnostics	
	shall also be provided.	

#### 4. <u>DELIVERY</u>

Item Number	Description	Meet Specification?	Description/ Deviation
4.1	Vehicle shall be delivered complete, fully serviced, inspected for safety and safe operation, and ready to perform the work for which they are being purchased, with no less than 1/4 tank of fuel.		
4.2	Vehicle shall be serviced, inspected, and delivered from the successful bidders nearest service facility. Factory direct deliveries are not acceptable.		
4.3	Delivery Location: City of Knoxville Fleet Services 1400 Loraine St. Knoxville, TN 37921		
4.4	Contact Information: Contact Mr. Jeff Johnston to schedule delivery date and time. (865-951-3620)	NA	

Page 16 of 17 Revised: 11/17/16

Documer	ntation	
4.5	Winning bidder shall provide the manufacturer's	
	statement of origin (MSO) when vehicle is	
	delivered. The payment process will <b>not</b> begin	
	until the vehicle is delivered, accepted and actual	
	MSO has been received.	
4.6	The successful bidder shall supply two sets of	
	operator's manuals, service manuals, parts books,	
	wiring diagrams and applicable technical	
	information for each machine purchased. CD	
	versions are acceptable.	
4.7	Provide one "build sheet" per vehicle listing all	
	parts used in assembling each vehicle. (If	
	available)	
4.8	Provide manufacturer's on-line access to technical	
-	service bulletins, service information and recall	
	notices throughout the service life of the vehicle.	
Miscellar	neous	
4.9	No dealer emblems, decals, or other form of	
	advertisement or identification shall be attached to	***************************************
	the vehicle.	
4.10	Please state if a 12-month price lock would be	
	honored to allow City of Knoxville to possibly	
	purchase additional equipment.	

#### 5. <u>INVOICING</u>

Mail or deliver invoice to:

City of Knoxville Fleet Services Attn: Keri Collins 3409 Vice Mayor Jack Sharp Road Knoxville, TN. 37914

Page 17 of 17 Revised: 11/17/16