



**Capital Projects & Purchasing Department  
113 Mable T. Willis Blvd.  
Walterboro, SC 29488  
843.539.1968**

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**BID: FMD-15  
2019/2020 KENWORTH CAB AND CHASSIS WITH KNUCKLE BOOM  
TRASH LOADER AND DUMP BODY**

**DUE: Thursday, June 27, 2019 at 11:00am**

**MAIL RESPONSE TO:**

Capital Projects & Purchasing Department  
Attn: Kaye B Syfrett  
113 Mable T. Willis Blvd.  
Walterboro, SC 29488

**DELIVER RESPONSE TO:**

Capital Projects & Purchasing Department  
Attn: Kaye B Syfrett  
113 Mable T. Willis Blvd.  
Walterboro, SC 29488

## A. OVERVIEW

Colleton County, South Carolina (the "**County**") request bids from qualified, licensed Kenworth Truck Dealers for one (1) 2019/2020 Kenworth Cab and Chassis with 25' Knuckle boom Trash Loader and Dump Body. Dealers are to furnish all the specified requirements listed in the Exhibit "A" attached. The unit will be delivered to Colleton County Fleet Management located at 113 Mable T. Willis Blvd, Walterboro, South Carolina 29488.

Subject to the terms, conditions, provisions, and the enclosed specifications, responses to this solicitation will be received at this office until the stated date and time. After which, only the names of the respondents will be publicly announced. Responses received after the scheduled due date and time will be rejected. Proposals must be submitted in a sealed package marked on the outside with the Offeror's name, address, and the solicitation name and number.

This solicitation does not commit Colleton County to award a contract, to pay any costs incurred in the preparation of proposals submitted, or to procure or contract for the services. The County reserves the right to accept or reject or cancel in part, or in its entirety offers received as a result of this request if deemed to be in the best interest of the County to do so. Questions regarding this solicitation must be submitted via email to John Stieglitz, Capital Projects & Purchasing Director at [jstieglitz@colletoncounty.org](mailto:jstieglitz@colletoncounty.org) no later than 11:00am on Thursday, June 20, 2019.

## B. SCOPE OF WORK

Colleton County proposes to purchase one (1) 2019/2020 Kenworth Cab and Chassis with 25' Knuckle boom Trash Loader and Dump Body as specified in the appendix attached.

It is the responsibility of the Kenworth Truck dealer to coordinate the chassis delivery and installation of the requested knuckle boom and dump body.

### Product Specifications:

- See Exhibit "A"

## C. INSTRUCTIONS TO DEALER

1. Submittal must include **one (1) original bid** response clearly marked as original, and **one (1) complete copy** of the bid response along with a **completed W-9 form**. Responses must be in a sealed envelope/package containing the solicitation name and number. The individual signing the response must be an Agent legally authorized to bind the company.
2. Show solicitation number on the outside of mailing package. Colleton County assumes no responsibility for unmarked or improperly marked envelopes.
3. It is the dealer's sole responsibility to ensure that solicitation responses, amendments thereto or withdrawal requests are submitted by the scheduled due date and time.
4. The dealer must clearly mark as "Confidential" each part of their response, which they consider to be proprietary information that could be exempt from disclosure under Section 30-40(C) Code of Laws of South Carolina, 1976, Freedom of Information Act. Colleton County reserves the right to determine

whether this information should be exempt from disclosure and legal action may not be brought against the County or its agents for its determination in this regard.

5. RESPONSE FORM: All responses shall be printed in ink or typewritten. If required, additional pages may be attached. Bids written in pencil will be disqualified.
6. Subject to the terms, conditions, provisions, and the enclosed specifications, responses to this solicitation will be received at this office until the stated date and time. Responses received after the scheduled due date and time will be rejected. Proposals must be submitted in a sealed package marked on the outside with the vendor's name, address, and the solicitation name and number.
7. Bids shall remain good for 60 days from date of submission.

**A "No Response" qualifies as a response; however, it is the responsibility of the Vendor to notify the Procurement Office if you receive solicitations that do not apply.**

## D. SELECTION CRITERIA

It is the intent of Colleton County to award the purchase to a single qualified, licensed Kenworth Dealer with final approval by County Council. Following the award, a Purchase Order for the product will be issued to the awarded Kenworth truck dealer.

## E. SPECIFIC TERMS AND CONDITIONS

1. COMPETITION: This solicitation is intended to promote full and open competition. If any language, specifications, terms and conditions, or any combination thereof restricts or limits the requirements in this solicitation to a single source, it shall be the responsibility of the interested vendor to notify the Procurement Office in writing no later than five (5) business days prior to the scheduled due date and time.
2. RESPONDANTS QUALIFICATION: The County reserves the right to request satisfactory evidence of their ability to furnish services in accordance with the terms and conditions listed herein. The County further reserves the right to make the final determination as to the Vendor's ability to provide said item(s).
3. RESPONSE WITHDRAWAL: Any responses may be withdrawn prior to the established closing date and time, but not thereafter with proper approval from the Procurement Manager.
4. REJECTION: Colleton County reserves the right to reject any and all proposals, to cancel or withdraw this solicitation, and to waive any technicality if deemed to be in the best interest of the County.
5. WAIVER: The County reserves the right to waive any Instruction to Offerors, General or Special Provisions, General or Special Conditions, or specifications deviation if deemed to be in the best interest of the County.
6. RESPONSE PERIOD: All responses shall be good for a minimum period of 60 calendar days.
7. DEVIATIONS FROM SPECIFICATIONS: Any deviation from specifications indicated herein must be clearly pointed out; otherwise, it will be considered that items offered are in strict compliance with these

specifications, and successful offeror will be held responsible therefore. Deviations must be explained in detail on separate attached sheet(s). The listing of deviations, if any, is required but will not be construed as waiving any requirements of the specifications. Unidentified deviations found during the evaluation of the response may be cause for rejection.

8. AMENDMENTS: All amendments to and interpretations of this solicitation shall be in writing and issued by the Procurement Manager of Colleton County.
9. DEBARMENT: By submitting a qualification package, the dealer is certifying that they are not currently debarred from responding to any request for proposals by any agency or subdivision of the State of South Carolina or the United States Federal Government, nor are they an agent of any person or entity that is currently debarred from submitting proposals on contracts by any agency or subdivision of the State of South Carolina.
10. DEFAULT: In case of default by the Dealer, the County reserves the right to purchase any or all items in default in the open market, charging the Dealer with any excessive costs. Should such charge be assessed, no subsequent solicitation response of the defaulting Dealer will be considered in future RFB's until the assessed charge has been satisfied.
11. HOLD HARMLESS: All respondents to this RFP shall indemnify and hold harmless Colleton County Government and any of their officers and employees from all suits and claims alleged to be a result of this request for proposals. The issuance of this request of proposals constitutes only an invitation to present a proposal. Colleton County reserves the right to determine, at its sole discretion, whether any aspect of a respondent's submittal meets the criteria in this request for proposals. Colleton County also reserves the right to seek clarifications, to negotiate with any vendor submitting a response, to reject any or all responses with or without cause, and to modify the procurement process and schedule.
12. CANCELLATION: In the event that this request for proposals is withdrawn or the project canceled for any reason, Colleton County shall have no liability to any respondent for any costs or expenses incurred in connection with this request for proposals or otherwise.
13. COLLETON COUNTY PURCHASING ORDINANCE: The Request of Bids is subject to the provisions of the Colleton County Purchasing Ordinance and any revisions thereto, which are hereby incorporated into this request for proposals in their entirety except as amended or superseded within. This ordinance can be found at <https://www.municode.com/library/sc/colletoncounty/codes/codeofordinances> under Title 3 - Revenue and Finance.
14. FAILURE TO SUBMIT ALL MANDATORY FORMS: Failure to submit all the mandatory forms from this request of proposals shall be just cause for the rejection of the qualification package. However, Colleton County reserves the right to decide, on a case by case basis, in its sole discretion, whether or not to reject such a proposal as non-responsive.
15. CONTRACT AWARD:
  - a. This solicitation and submitted documents, when properly accepted by Colleton County shall constitute an agreement equally binding between the successful Offeror and the County. No oral statement of any person shall modify or otherwise change, or affect the terms, conditions or specifications stated in the resulting agreement. The County shall not be legally bound by any amendment or interpretation that is not fully executed by both parties in writing.
  - b. The successful Offeror shall be required to execute a formal agreement with the County's Procurement Office within ten (10) business days after issuance of the Notice of Award.

16. CONTRACT ADMINISTRATION: Questions or problems arising after award of an agreement shall be directed to the Procurement Manager by calling (843) 782-0504. Copies of all correspondence concerning this solicitation or resulting agreement shall be sent to the Capital Projects & Purchasing Department, 113 Mable T. Willis Blvd, Walterboro, SC 29488.

## F. GENERAL CONTRACTUAL REQUIREMENTS

1. ABANDONMENT OR DELAY: If the work to be done under this contract shall be abandoned or delayed by the Offeror, or if at any time the County shall be of the opinion and shall so certify in writing that work has been abandoned or delayed by the Offeror, the County may annul the contract or any part thereof if the Offeror fails to resolve the matter within thirty (30) days of written notice.
2. OFFEROR'S COOPERATION: The Offeror shall maintain regular communications with the Purchasing Manager and shall actively cooperate in all matters pertaining to this contract.
3. RESPONSIBILITY: The Offeror shall at all times observe and comply with all federal, state, local and municipal laws, ordinances, rules and regulations in any manner affecting the purchase.
4. NON-APPROPRIATION / SUBSTITUTION PERMITTED: If the Colleton County Council fails to appropriate or authorize the expenditure of sufficient funds to make said purchase or if a lawful order issued in, or for any fiscal year during the term of the agreement, reduces the funds appropriated or authorized in such amounts as to preclude making the payments set out therein, the agreement shall terminate on the date said funds are no longer available without any termination charges or other liability incurring to County. Following any such non-appropriation, the master lease agreement shall contain no limitation on the County's ability to replace the equipment financed with any other equipment.
5. INDEMNIFICATION: Except for expenses or liabilities arising from the negligence of the County, the Dealer hereby expressly agrees to indemnify and hold the County harmless against any and all expenses and liabilities arising out of the performance or default of any resulting agreement or arising from or related to the Work as follows:

Dealer expressly agrees to the extent that there is a causal relationship between its negligence, action or inaction, or the negligence, action or inaction of any of its employees or any person, firm, or corporation directly or indirectly employed by the Dealer, and any damage, liability, injury, loss or expense (whether in connection with bodily injury or death or property damage or loss) that is suffered by the County and its employees or by any member of the public, to indemnify and save the County and its employees harmless against any and all liabilities, penalties, demands, claims, lawsuits, losses, damages, costs, and expenses arising out of the performance or default of any resulting agreement or arising from or related to the equipment. Such costs are to include defense, settlement and reasonable attorneys' fees incurred by the County and its employees. This promise to indemnify shall include bodily injuries or death occurring to Dealer's employees and any person, directly or indirectly employed by Dealer (including without limitation any employee of any subcontractor), the County's employees, the employees of any other independent contractor, or occurring to any member of the public. When the County submits notice, Dealer shall promptly defend any aforementioned action.

The prescribed limits of insurance set forth herein shall not limit the extent of the Dealer's responsibility under this Section. The terms and conditions contained in this Section shall survive the termination of any resulting agreement or the suspension of the Work hereunder. Additionally, the County will not provide indemnity to the successful DEALER. Failure to comply with this section may result in your request for bid to be deemed non-responsive.

6. **FORCE MAJEURE:** The Dealer shall not be liable for any excess costs if the failure to perform the resulting agreement arises out of causes beyond the control and without fault or negligence of the Dealer. Such causes may include, but are not restricted to acts of God or of the public enemy, acts of the Government in either its sovereign or contractual capacity, fires, floods, epidemics, quarantine restrictions, strikes, freight embargoes, and unusually severe weather; but in every case the failure to perform must be beyond the control and without the fault or negligence of the dealer.
7. **ARBITRATION:** Under no circumstances and with no exception will Colleton County act as arbitrator between the Dealer and any supplier and or sub-contractor.
8. **PUBLICITY RELEASES:** Dealer agrees not to refer to award of this purchase in commercial advertising in such a manner as to state or imply that the products or services provided are endorsed or preferred by the County. The Dealer shall not have the right to include the County's name in its published list of customers without prior approval of the County Administrator. With regard to news releases, only the name of the County, type and duration of any resulting agreement may be used and then only with prior approval of the County. The Dealer also agrees not to publish, or cite in any form, any comments or quotes from the County's staff unless it is a direct quote from the Procurement Manager.
9. **GOVERNING LAWS:** Any agreement arising from this solicitation shall be governed by the laws of the State of South Carolina and any and all disputes arising out of said agreement shall, if litigation is necessary, be litigated only in a Circuit Court for the Fourteenth Judicial Circuit sitting in Colleton County, South Carolina. The prevailing party shall be entitled to attorney's fees and all costs of said litigation.
10. **ASSIGNMENT:** The Dealer shall not assign in whole or in part any agreement resulting from this Request for Bids without the prior written consent of the County. The Dealer shall not assign any money due or to become due to him under said agreement without the prior written consent of the County.
11. **AFFIRMATIVE ACTION:** The successful Dealer will take affirmative action in complying with all Federal and State requirements concerning fair employment and treatment of all employees, without regard or discrimination by reason of race, color, religion, sex, national origin or physical handicap.
12. **FAILURE TO DELIVER GOODS IN ACCORDANCE WITH TERMS & CONDITIONS:** In case of failure to deliver goods in accordance with the purchase terms and conditions, Colleton County, after due oral or written notice, may procure substitute goods or services from other sources and hold the offeror responsible for any resulting additional purchasing and administrative costs. This remedy shall be in addition to any other remedies which Colleton County may have.
13. **TERMINATION OF PURCHASE:**
  1. Subject to the Provisions below, the Purchase of goods may be terminated by the Purchasing Department providing a thirty (30) days advance notice in writing is given to the Dealer.
    - a. Termination for Convenience: In the event that this Purchase of goods is terminated or canceled upon request and for the convenience of the County without the required thirty (30) days advance written notice, then the County shall negotiate reasonable termination costs, if applicable.
    - b. Termination for Cause: Termination by the County for cause, default or negligence on the part of the offeror shall be excluded from the foregoing provisions; termination costs, if any, shall not apply. The thirty (30) days advance notice requirement is waived and the default provision in this request for bids shall apply.

- c. The County shall be obligated to reimburse the Dealer only for those services rendered prior to the date of notice of termination, less any liquidation damages that may be assessed for non-performance.
2. Non-Appropriations Clause: Notwithstanding any other provisions of the Purchase Agreement, if the funds anticipated for the continued fulfillment of this Purchase Agreement are at any time. Not forthcoming, through the failure of the County Government to appropriate funds, discontinuance or material alteration of the program under which funds were provided, the County shall have the right to terminate the Purchase Agreement without penalty by giving not less than thirty (30) days written notice documenting the lack of funding. Unless otherwise agreed to by the County and the Dealer, the Purchase Agreement shall become null and void on the last day of the fiscal year for which appropriations were received.
14. GOVERNING LAWS: Any Purchase Agreement resulting from this request for proposals shall be governed in all respects by the laws of the State of South Carolina and any litigation with respect thereto shall be brought in the courts of the State of South Carolina.
15. BONDS: Payment and Performance Bonds are not required for this request for bid.
16. OWNERSHIP OF MATERIAL: Ownership of all data, material, and documentation originated and prepared for the County pursuant to this Purchase Agreement shall belong exclusively to the County.
17. TYPE OF PURCHASE AGREEMENT: The intent of this proposal is a resulting Purchase agreement whereby a Purchase Order will be issued for the requested goods. **Bid prices shall remain firm for 60 days.** If any reduction in price is announced after the issuance of a Purchase Order for the goods, the County shall receive the benefit of such reduction.
18. INSURANCE: Colleton County will require the following remain in force at all times through the life of the contract:

Workers' Compensation - \$100,000 – each accident  
Statutory Coverage and Employer's - \$100,000 each employee  
Liability - \$500,000 – policy limit  
Comprehensive General Liability - \$1,000,000 – bodily injury each occurrence  
\$1,000,000 – bodily injury aggregate  
\$1,000,000 – property damage each occurrence  
\$1,000,000 – property damage aggregate  
Products – Completed Operations - \$1,000,000 – aggregate  
Business Auto Liability – Same as Comprehensive General Liability  
Excess or Umbrella Liability - \$1,000,000

**Colleton County will be named as an “additional insured” party**



**2019/2020 KENWORTH CAB AND CHASSIS WITH KNUCKLE BOOM TRASH LOADER AND DUMP BODY  
DEALER'S CERTIFICATION**

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

\_\_\_\_\_  
**Authorized Signatory (As registered with the IRS)**

\_\_\_\_\_  
**Address**

\_\_\_\_\_  
**E-Mail Address**

\_\_\_\_\_  
**City, State, Zip**

\_\_\_\_\_  
**Fax Number**

\_\_\_\_\_  
**Telephone Number**

\_\_\_\_\_  
**Toll Free Number**

\_\_\_\_\_  
**Federal Tax ID Number**

\_\_\_\_\_  
**Sales Tax Number**

**THIS PAGE MUST BE COMPLETED AND SUBMITTED AS A PART OF YOUR BID**





COLLETON COUNTY

SOUTH CAROLINA

BID: FMD-15

**2019/2020 KENWORTH CAB AND CHASSIS WITH KNUCKLE BOOM TRASH LOADER AND DUMP BODY  
DEBARMENT**

The Dealer is certifying that they are not currently debarred from responding to any request for qualifications by any agency or subdivision of the State of South Carolina or the United States Federal Government, nor are they an agent of any person or entity that is currently debarred from submitting qualifications on contracts by any agency or subdivision of the State of South Carolina.

SAM's No. \_\_\_\_\_

Cage Code. \_\_\_\_\_

DUN's No. \_\_\_\_\_

\_\_\_\_\_  
Authorized Representative (Signature)

\_\_\_\_\_  
Date

\_\_\_\_\_  
Authorized Representative/Title (Print or Type)

**THIS PAGE MUST BE COMPLETED AND SUBMITTED AS A PART OF YOUR BID**



**BID: FMD-15**

**2019/2020 KENWORTH CAB AND CHASSIS WITH KNUCKLE BOOM TRASH LOADER AND DUMP BODY  
ADDENDA ACKNOWLEDGEMENT**

The Dealer has examined and carefully studied the Request for Bids and the following Addenda, receipt of all of which is hereby acknowledged:

Addendum No. \_\_\_\_\_

Addendum No \_\_\_\_\_

Addendum No. \_\_\_\_\_

Addendum No. \_\_\_\_\_

\_\_\_\_\_  
Authorized Representative (Signature)

\_\_\_\_\_  
Date

\_\_\_\_\_  
Authorized Representative/Title (Print or Type)

**Dealers must acknowledge any issued addenda. Bids which fail to acknowledge the dealer's receipt of any addendum will result in the rejection of the offer if the addendum contained information which substantively changes the Owner's requirements or pricing.**

**THIS PAGE MUST BE COMPLETED AND SUBMITTED AS A PART OF YOUR BID**



**2019/2020 KENWORTH CAB AND CHASSIS WITH KNUCKLE BOOM TRASH LOADER AND DUMP BODY  
INDEMNIFICATION**

The Dealer will indemnify and hold harmless the Owner, Colleton County and their agents and employees from and against all claims, damages, losses and expenses, including attorney’s fees, arising out of or resulting from the performance of the Work provided that any such claims, damages, loss, or expense is attributable to bodily injury, sickness, disease or death, injury to or destruction of tangible property, including the loss of use resulting there from, and is caused by any negligent or willful act or omission of the Bidder / Proposer, and anyone directly or indirectly employed by him/her or anyone for whose acts any of them may be liable.

In any and all claims against the Owner, Colleton County or any of their agents and / or employees by an employee of the Dealer, and anyone directly or indirectly employed by any of them, or anyone for whose acts any of them may be liable, the indemnification obligation shall not be limited in any way to the amount or type of damages, compensation or benefits payable by or for the Dealer under the Worker’s Compensation Acts, Disability Benefit Acts, or other employee benefit acts.

The obligation of the Dealer under this paragraph shall not extend to the liability of Colleton County or its agents and/or employees arising out of the reports, surveys, Change Orders, designs or Technical Specifications.

Dealer: \_\_\_\_\_

BY: \_\_\_\_\_

DATE: \_\_\_\_\_

TELEPHONE NO.: \_\_\_\_\_

**THIS PAGE MUST BE COMPLETED AND SUBMITTED AS A PART OF YOUR BID**



**BID: FMD-15**

**2019/2020 KENWORTH CAB AND CHASSIS WITH KNUCKLE BOOM TRASH LOADER AND DUMP BODY  
CERTIFICATE OF FAMILIARITY**

The undersigned, having fully familiarized him/her with the information contained within this entire solicitation and applicable amendments, submits the attached response, and other applicable information to the County, which I verify to be true and correct to the best of my knowledge. I further certify that this response is made without prior understanding, agreement, or connection with any corporation, Contractor or person submitting a response for the same materials, supplies or equipment, and is in all respects, fair and without collusion or fraud. I agree to abide by all conditions set forth in this solicitation and certify that I have signature authority to bind the company listed herein.

**MINORITY BUSINESS:** Are you a minority business?

▶ Yes \_\_\_\_\_ ( \_\_\_\_\_ Women-owned / \_\_\_\_\_ Disadvantaged) *If yes, please submit a copy of your certificate with your response.*

▶ No \_\_\_\_\_

\_\_\_\_\_  
Authorized Representative (Signature)

\_\_\_\_\_  
Date

\_\_\_\_\_  
Authorized Representative/Title (Print or Type)

**THIS PAGE MUST BE COMPLETED AND SUBMITTED AS A PART OF YOUR BID**

# Exhibit A

**BID: FMD-15**

## **2019/2020 KENWORTH CAB AND CHASSIS WITH KNUCKLE BOOM TRASH LOADER AND DUMP BODY**

### **Product Summary**

<b>Unit</b>		<b>Chassis</b>	
Model:	T880 Series Conventional	Fr Axle Load (lbs.):	20000
Type:	FULL TRUCK	Rr Axle Load (lbs.):	46000
Description:	Roll Off Spec X15	G.C.W. (lbs.):	66000
		Road Conditions:	
<b>Application</b>			
Intended Serv.:	Local pickup & delivery.	Class A (Highway)	85
Commodity:	Vehicles which haul	Class B (Hwy/Mtn.)	10
	General freight	Class C (Off-Hwy.)	05
		Class D (Off-Road)	00
<b>Body</b>			
Type:	Roll on/roll off		
Length (ft.):	20.0		
Height (ft.):	13.5		
Width (in.):	102		
Max Laden Weight (lbs.):	4000	Maximum Grade:	6
		Wheelbase (in):	254
		Overhang (in):	90
		Fr Axle to BOC (in):	74
		Cab to Axle (in):	180
		Cab to EOF (in):	270
		Overall Comb. Length (in):	392
		<b>Special Req. - U.S. Domestic Registry, 50-State</b>	

<b>Data</b>	<b>Code</b>	<b>Description</b>	<b>Weight</b>
<b>Model</b>			
0000810	O	<b>T880 Series Conventional</b>	
0070060	O	<b>T880</b>	
0080055	O	<b>CARB Idle Emissions Reduction Feature.</b> Cummins engines.	
0090000	O	<b>Non-Sleeper w/rear axle capacity less than 59K.</b>	
0091042	O	<b>General freight</b>	
0093005	O	<b>Local pickup &amp; delivery. Vehicles which haul</b> freight, typically operating within a 100-mile radius, on public streets & highways, & other paved surfaces, including limited Class C roads. Includes package & freight delivery, as well as fuel oil or petroleum distribution, etc. Road usage: minimum 3% Class B, do not code for Class D.	
0095010	O	<b>Knuckle boom with Dump Body</b>	
0098025	O	<b>U.S. Domestic Registry, 50-State</b>	
0123690	O	<b>Engine &amp; Equipment, X15 450 2017 450@1800 1650@1000</b> w/ Intebrake, Diagnostic Plug for data link, Oil Cooler, Aluminum Flywheel Housing. Vocational, Performance Series	

N09200 N205 68...Standard Maximum Speed Limit [LSL]  
 N09220 N207 0....Expiration Distance  
 N09240 P13 120...Hard Maximum Speed Limit  
 N09260 P14 65...Maximum Accelerator Pedal Vehicle Speed  
 N09300 P19 65...Maximum Cruise Speed  
 N09360 N203 252.Reserve Speed Function Reset Distance  
 N09380 N202 0....Maximum Cycle Distance  
 N09400 N206 10...Maximum Active Distance  
 N09420 N201 0....Reserve Speed Limit Offset  
 N09440 P11 YES...Engine Protection Shutdown  
 N09460 P06 NO... Gear Down Protection  
 N09480 P26 1400.Max PTO Speed  
 N09500 P02 NO... Cruise Control Auto Resume  
 N09520 P04 NO... Auto Engine Brake in Cruise  
 N09540 N209 0....Expiration Distance  
 N09560 P520 YES. Enable Idle Shutdown Park Brake Set N09580 P32 5....Timer Setting  
 N09600 P233 YES... Enable Impending Shutdown Warning N09620 P234 60...Timer for  
 Impending Shutdown Warning  
 N09640 P516 35...Engine Load Threshold  
 N09680 P33 NO... Idle Shutdown Manual Override  
 N09720 P230 YES...Enable Hot Ambient Automatic Override  
 N09740 P46 40...Low Ambient Temperature Threshold  
 N09760 P56 60...Intermediate Ambient Temperature Threshold N09780 P47 80...High  
 Ambient Temperature Threshold

1000155	O	<b>Prospector version 43.0</b> Replaces Prospector version 42.1
1000684	O	<b>Effective VSL Setting NA</b>
1000858	O	<b>Engine Idle Shutdown Timer Disabled</b>
1000859	O	<b>Enable EIST Ambient Temp Override</b>
1000860	O	<b>Enable EIST in PTO Mode</b> Use only with MX and Cummins engines
1000891	O	<b>Eff EIST NA Expiration Miles</b> Use only with MX and Cummins engines
1002080	O	<b>Air compressor: Cummins 18.7 CFM, Naturally</b> - Aspirated for Cummins X15 engines
1051200	S	<b>Air Cleaner: composite firewall mounted PACCAR or</b> - Cummins engines
1105220	O	<b>Fan Hub: Horton 2-Speed for X15</b>
1123555	S	<b>Cooling module: 1330 square inches.</b> Includes aluminum radiator core, aluminum charge air cooler, translucent surge tank and washer bottle, silicone hoses, and extended life coolant.
1160208	O	<b>Radiator bug screen mounted between hood &amp; grille.</b>
1247166	S	<b>EXH:2019/2020 EPA RH UNDER DPF/SCR W/ RH</b> - SIDE OF CAB VERTICAL TAILPIPE WITH DAYCABS, EXTENDED DAYCABS, OR MODULAR SLEEPERS
1290124	O	<b>Tailpipe: 5 in. single 30 in. 45 degree curved.</b>
1321125	O	<b>Fuel Filter: Davco 382</b> Fuel/Water Separator
1321200	O	<b>Run Aid: None</b> *For Fuel Filter
1321300	O	<b>Start Aid: None</b> *For Fuel Filter
1816260	S	<b>Alternator: PACCAR 160-amp, brush type</b>
1821210	S	<b>Batteries: 3 PACCAR GP31 threaded post (700-730)</b> 2100-2190 CCA dual purpose.
1836100	S	<b>Starter: PACCAR 12-volt electrical system. W/</b> - centralized power distribution incorporating plug-in style relays. Circuit protection for serviceability, 12-volt light system w/circuit protection circuits number & color coded.
1840005	O	<b>Battery disconnect switches 2, mounted on battery box.</b>

1840065	S	<b>12V low voltage disconnect for starter battery protection.</b>
1903020	O	<b>Decline Driver Performance Assistant (DPA)</b>
<b>Transmission &amp; Clutch</b>		
2016158		<b>Transmission: Allison 4500RDS 6-speed</b> - w/o retarder, w/PTO provision. 5th generation. For vocational applications. Includes shift control, transmission oil temperature gauge, oil level sensor & heat exchanger. Transynd transmission fluid is standard on all Allison 1000, 2000, 3000 & 4000 series transmissions.
2405425	O	<b>Driveline:3 Dana 1810 heavy-duty W/2 center bearings</b> *Heavy duty is 1810HD series.
2410018	O	<b>Torque converter included w/Allison Transmission.</b>
2410154	O	<b>Pushbutton control center console mounted.</b> Class 8 with Allison Transmission.
2410204	O	<b>Delete Allison Fuel Sense</b>
2429358	O	<b>Rear transmission support springs</b> for transmission PTO applications are required to ensure that engine flywheel housings are not overloaded when transmission PTO's are installed.
		<b>J1939 Park Brake Auto Neutral</b>
2429378	O	<b>Customer installed transmission PTO in the LH</b> Mounted position (8 o'clock) for Allison 3000 & 4000 transmissions. <b>Severe Service rear transmission support spring(s).</b> <b>Steel center bearing crossmember installed with</b> Heavy duty aluminum gussets replacing standard.
<b>Front Axle &amp; Equipment</b>		
2506181	O	<b>Meritor MFS20 Front Axle rated 20K</b> - 3.5 in. drop, standard track.
2621078	O	<b>Front Brakes: 20K Meritor Q-Plus 16.5x6 in.</b>
2690035	O	<b>Front Brake Drum: 22,000 lbs. 16-1/2x6 in. Cast.</b>
2702020	O	<b>Front Hubs Iron hub pilot 20,000 lbs. 10 Bolt</b> 16.5x6in. or 7in. or air disc brakes. 10 Bolt, 11-1/4 in. bolt circle. Consider Wheel guards (5850002) with aluminum wheels.
2741970	S	<b>ConMet Pre-Set Plus Hub package; front axle.</b>
2750001	S	<b>Hubcap: front vented.</b>
2765001	O	<b>Front Auto Slack Adjuster.</b>
2866020	O	<b>Front Springs: Taper leaf 20K w/ shock absorbers</b> w/maintenance-free elastomer spring pin bushings. Standard with rubber pins except for C500 which has threaded pins. W900S only. Not available on W900L. W900B use 2866021.
2895302	O	<b>Dual power steering gear: 16-22K Sheppard HD94.</b> Heavy duty. Not for use on T3.
2899336	O	<b>Power Steering Cooler: Radiator Mounted Air-to-Oil</b>
<b>Rear Axle &amp; Equipment</b>		
3142160	O	<b>Dual Meritor RT46-160 rear axle rated at 46K.</b> Tandem rear axles.
3200489	O	<b>Rear Axle Ratio - 4.89.</b>
3334004	S	<b>Dual Rear Brakes 16-1/2x7 in. to 46K</b> - Meritor Q-Plus-extended service S-cam.
3392005	S	<b>Dual Rear Brake Drums: cast.</b>
3407050	S	<b>Dual Rear Hubs: Aluminum hub pilot 46K</b> 11-1/4 in. bolt circle.
3441972	S	<b>ConMet Pre-Set Plus Hub package; dual rear axle.</b>
3465002	S	<b>Dual Rear axle automatic slack adjusters.</b>
3485209	S	<b>Spring Brake: 3030 high output dual.</b>
3495226	S	<b>Bendix 4S/4M anti-lock brake system.</b>
3500037	O	<b>Interaxle driveline:1 Dana 1710 Series</b>

3511420	O	<b>Driver Controlled Differential Lock (Cross lock)</b> for Meritor Axles 40K to 52K forward rear & rear axle. Under Speed Interlock is standard on T680.
3573111	O	<b>Separate switch for dual axles:</b> differential lock or cross lock.
3749203	O	<b>Rear suspension: Tandem Hendrickson RT 463 46K.</b> 54 in. axle spacing. High center of gravity application. Unladen Height: 11.3 in. Laden Height: 9.6 in.

#### Tires & Wheels

4077532	O	<b>Front tires: Bridgestone M864 425/65R22.5 20PR.</b> All position, On/Off highway, Wide-base tire.
4277491	O	<b>Rear tires: Bridgestone M799 11R22.5 16PR.</b> 42 in. diameter, drive. 19.5 in. SLR. Code is priced per pair of tires.
4900008	O	<b>Rear Tire Quantity: 8</b>
5045218	O	<b>Front wheel: Alcoa 82462 22.5x12.25 aluminum,</b> with Level One [TM] finish, hub pilot mount. 11000lb. maximum rating. 5.80 in. offset. Air disc brake compatible.
5242330	O	<b>Rear wheel: Accuride 51408 22.5X8.25 steel - ACCU-LITE.</b> Steel Armor [TM] powder coat, hub pilot mount. 7400lb. maximum rating.
5900008	O	<b>Rear Wheel/Rim Quantity: 8</b>

#### Frame & Equipment

6056400	O	<b>Frame Rails: 10-3/4 x 3-1/2 x 5/16in. Steel 337in.</b> to 416 in. Truck frame weight is 2.91 lb.-in. per pair of rails. Section modulus is 14.80, RBM is 1,776,000 in.-lbs. per rail. Frame rail availability may be restricted based upon application, axle/suspension capacity, fifth wheel setting, or component/dimensional specifications. The results of the engineering review may result in a change to the requested frame rail. If a change is required Kenworth Application Engineering will advise the dealer of the appropriate material specification for a substitute rail.
6141400	O	<b>Full Steel Insert: for 10-5/8 in. or 10-3/4 in.</b> Steel 337 in. to 416 in. or 2nd insert for 11-5/8 in. steel frame. Adds 1,149,000 in.-lb. to main rail RBM. Truck insert weight is 2.05 lb.-in. per pair of rails. Full frame insert length is equal to wheelbase plus rear frame cutoff plus dimension forward of front axle by model: T660, T680, T800, T880 = 21.26 in.; C500B = bumper setting minus 0.79 in.; W900B = 5.27 in., W900L = 1.50 in., W900S = 3.27 in.; T440/T470 50 in. bumper setting = 21.26 in., T470 73 in. bumper setting = 72.3 in.
6302361	O	<b>Bumper: Tapered polished aluminum channel</b> - Requires a bumper setting code.
6319485	O	<b>48.5 in. Bumper setting. Requires a bumper code.</b>
6324025	O	<b>Removable Front Tow Hooks: 2</b>
6400636	O	<b>Battery box cantilever aluminum BOC w/ fiberglass cover.</b>
6409902	O	<b>Battery box location: RH Side.</b>
6451090	O	<b>T470, C5, T6, T8 non-polished DPF/SCR or CNG cover</b> diamond plate w/ step. For use w/ 2010 or later exhaust systems. For T8, use extended length non-polished battery box on opposite rail to match the length of under cab components. End plates will be painted standard black frame color.
6721102	S	<b>Rear mud flap arms: Betts B-25 standard-duty,</b> straight. Includes B1732 mounting brackets as standard.
6722000	S	<b>Rear mud flap shields: White plastic anti sail w/ Kenworth logo.</b>
6742009	S	<b>Square end-of-frame w/ o crossmember; non-towing.</b>

#### Fuel Tanks



7210100	S	<b>Fuel Tank: 100 US gallons 24.5in. aluminum under</b> replace. Class 8 fuel tanks w/ o locking caps include an anti-siphon device on the filler neck.
7722011	O	<b>Small round DEF tank. 11 gallons of</b> useable volume. The DEF tank will be located on the side you specified. If you have specific configuration or body builder concerns, please utilize the Custom Frame Layout option. Standard capacity is calculated by fuel capacity of the vehicle and will accommodate two diesel fill-ups for every DEF fill-up. For 1:1 DEF fuel fill ratio, add 7889204. <b>6 in. wide lower fuel tank step, for one 22 in. or 24.5 in tank LH.</b>
7889203	O	<b>Standard DEF to fuel fill ratio: 2:1 or greater.</b>
7889245	S	<b>Anti-siphon device swaged in place.</b> For any number of fuel tanks.
7889604	O	<b>DEF tank location is on the LH.</b>
7920100	O	<b>Location: 100-gal fuel tank LH under cab</b>
8025301	S	<b>Cab: Stamped aluminum cab with panoramic curved</b> glass windshield. Standard with stamped aluminum doors, heavy duty in-swinging hinges, and triple sealed doors. Manufactured using self piercing rivets and structural adhesive. Includes LED exterior marker lights and turn signals.
8090604	O	<b>Hood: T880 Standard Length with Mechanically Fastened Fenders.</b> 122.6-inch BBC.
8108011	S	<b>Cab HVAC - Day Cab and 40in Sleeper</b> System with Defrost, A/C, and 48,000 BTU/hr. Heater. Includes automatic temperature control with one touch defrost operation and dash mounted cab temperature and solar intensity sensors. Pleated fresh air filter and cabin recirculation air filter standard. The Kenworth HVAC system is designed to provide optimal heating and cooling in all operating environments without need for additional insulation. Cab HVAC without sleeper heater AC is available with 40in sleeper.
8201013	S	<b>Steering wheel: 18 in. 4-spoke.</b> <b>Column Mounted Retarder Control, RH side</b>
8201200	O	<b>Adjustable telescoping tilt steering column.</b> <b>5 sets of keys. Replaces standard 2 sets of keys.</b>
8205177	O	<b>Dash Switch: 1st Allison-mounted PTO.</b> Electric switch and wiring are factory-installed to control the 1st Allison Trans mounted PTO. <b>Two spare switches: Wired to power.</b>
8225658	O	<b>Gauge: Axle oil temperature, dual-drive axle.</b> (2 gauges) w/integral warning light.
8282007	S	<b>Kenworth Driver Performance Center:5in Full Color</b> high resolution Thin Film Transistor (TFT) active matrix display with advanced driver information including fuel economy performance, outside air temp, clock, odometer and trip, engine hour meter, ignition timer, engine RPM, general truck information, diagnostics, and gear display. All Highline functionality is accessed via the Kenworth MCS providing intuitive control at the driver's fingertips. Also includes Dark Cabin functionality. When activated, the only interior light that will function when a door is opened is the door courtesy lamp.
8282013	S	<b>Kenworth instrumentation and control package with</b> 9 standard easy-read gauges: includes speedometer, tachometer, fuel gauge, engine coolant temp, engine oil pressure, voltmeter, dual air pressure, air application pressure and DEF gauge. All accessory controls utilize electronically activated solenoids that include advanced vehicle protection interlocks.

8300008	S	<b>Interior color: Slate Gray</b>
8330102	S	<b>Interior package: Vantage Day cab</b> Includes durable headliner and vinyl sidewalls with geometric patterned trim and anodized aluminum accents throughout. Convenient overhead storage cubbies, full size glove box, two center console cup holders, and large door pad map pocket. Standard LH/RH power windows, electric door locks, interior LED lighting, nighttime-friendly red ambient lighting for dash and foot well, and door mounted courtesy light. Includes two standard 12V power outlets. Driver sun visor includes strap.
8390634	S	<b>Rubber floormat</b>
8410194	S	<b>DR Seat: GT701 HB with Vinyl material.</b> The GT701 is standard with a single air bag, scissor linkage seat suspension. It includes a single chamber lumbar support, 10in Fore/Aft adjustment, 7in Up/Down adjustment, 2.5in pan extension, 51-degree seat back recline, and 16-degree full seat tilt. Includes 3-point matching seat belts. DR seat standard w/ dual armrests.
8480100	O	<b>RD Seat: GT701 IB with Vinyl material.</b> The GT701 is standard with a single air bag, scissor linkage seat suspension. It includes a single chamber lumbar support, 10in Fore/Aft adjustment, 7in Up/Down adjustment, 2.5in pan extension, 51-degree seat back recline, and 16-degree full seat tilt. Includes 3-point matching seat belts. RD seat standard w/ LH armrest.
8490187	S	<b>Seat color: Slate Gray with Gray stitching.</b> <b>Airline fitting: At driver seat.</b> Customer installed air chuck.
8601421	O	<b>Kenworth Radio with AM/FM/WB/USB and Bluetooth</b>
8698974	O	<b>Base Level Audio System - Day cab: High Performance</b> Door Speakers.
8699926	O	<b>CB installation kit: Center mounted of header.</b> w/header mounted quick release CB mount. One red power post & one black ground post. Includes dual antenna leads located on the mirror brackets. Includes dual antenna & separate speaker.
8700168	S	<b>Non-self-cancelling turn signal: w/column-mounted</b> headlight dimmer switch & intermittent wiper control.
8700663	O	<b>Kenworth Truck Tech+</b> The Kenworth Remote Diagnostics system provides the World's Best reporting of engine and after treatment fault codes, as well as enhanced support for the truck owner through rapid communication of fault severity and recommended actions. This option is Standard on all Kenworth's with an MX engine. <b>Grab handle: LH, Exterior, Side of Cab – Ergonomic</b> Grab handle mounted to the left-hand exterior of the cab for entry and exit.
8800402	S	<b>Dual Cab Interior Grab handles: A Pillar Mounted - Dash Wrap and B Pillar Mounted</b> Grab handles
8832113	S	<b>Kenworth Day-lite Door with standard LH/RH</b> electric door locks and LH/RH electric window controls.
8841618	O	<b>Dual rectangular air horn 23 in. LH &amp; RH top of roof.</b> Includes air horn covers.
8850139	S	<b>Look-Down, Pass. Door, Black 11x6</b>
8865002	S	<b>Aero Mirror: Dual Kenworth Aerodynamic Motorized</b> heated mirrors, 7in X 13in with cab color mirror shell and black mirror arms. Also includes LH/RH heated 6in X 7in convex mirrors. Mirror brackets set for 8-1/2 ft. load width. Mirror controls located on driver side door pad.
8871446	S	<b>Rear cab stationary window 19in x 36in</b>
8890101	S	<b>One-piece bonded-in windshield with curved glass.</b> Standard.

8890135	O	<b>Exterior stainless-steel sun visor.</b>
8890300	O	<b>Fender close-out: Below headlamp, behind bumper. *NOT available with 3-piece bumper.</b>
8890349	O	<b>Wheel well Fender Extension: 2.5 Inches</b>
8890876	S	<b>Kenworth Cab/Sleeper Air Suspension.</b>
<b>Lights &amp; Instruments</b>		
9010553	S	<b>Headlamps: SAE Dual Halogen Complex Reflector</b>
9022137	S	<b>Marker Lights: Five, rectangular, LED</b>
9030016	S	<b>Turn Signal Lights: Flush mounted LED mounted at top of fender wheel arc</b>
9030052	S	<b>LED Stop, Turn, Tail: With Two LED Backup Lights and With an LED License Plate.</b>
9090039	S	<b>Marker Lights: Interrupter Switch.</b> Included in Turn Signal for All Models Except T3. The T3 Switch Is in The Dash.
		<b>Electronic Backup Alarm: Meets SAE J994 &amp; OSHA requirements</b>
9090849	O	<b>Poly-switches replacing fuses. Switch will automatically reset after removal of excess load.</b>
<b>Air Equipment</b>		
9101235	O	<b>Air Dryer: Bendix AD-IS Extended Purge heated. with Pura-Guard</b>
9108001	S	<b>Moisture ejection valve w/ pull cable drain.</b>
9140020	S	<b>Nylon air tubing in frame &amp; cab, excluding hoses</b> subject to excessive heat or flexing.
920021	S	<b>Standard Warranty – 12 months/100,000 miles</b>
<b>Extended Warranty</b>		<b>Engine:</b> PP1-5 yr./300K mileage, After treatment-5 yr./300K mileage <b>Transmission:</b> ETC-5 yr./unlimited mileage <b>Rear:</b> ETC-5 yr./unlimited mileage
<b>Miscellaneous</b>		
9409852	O	<b>GHG Secondary Manufacturer: Does Not Apply</b>
9490206	O	<b>Warning triangle reflector kit: Shipped loose.</b> Kit consists of 3 triangles in plastic carrying case. Not floor mounted.
9490417	O	<b>One 5 lb. dry chemical type fire extinguisher</b> mounted inboard of driver seat. Class ABC.
		<b>CECU/VECU Electronics Architecture</b>
<b>Paint</b>		
9700000	O	<b>Paint color number.</b> N97020 A - L0006 WHITE N97200 FRAME - N0001 BLACK
9943004	O	<b>Bumper Unpainted</b>
9943050	O	<b>Day Cab Standard Paint</b>
9944820	O	<b>1 - Color Paint - Day Cab - Color will be White if no other color is specified.</b>
9965510	S	<b>Base coat/clear coat.</b> The Kenworth Color Selector contains additional instructions, as well as information on Kenworth paint guidelines and surface finish applications. Kenworth is standard with Dupont Imran Elite paint.

## **KNUCKLE BOOM TRASH LOADER AND DUMP BODY DESCRIPTION**

**MISSION:** It is the intent of these specifications to describe a hydraulically operated, telescoping knuckle boom trash loader to be used in the collection of oversize trash items such as discarded appliances, furniture, brush, leaves, building materials, etc. In this configuration, the loader is intended to be rotating top mount seat mounted on a long wheelbase cab chassis, along with a trash dump body. This arrangement provides a complete, one man operated, turn-key system.

**PEDESTAL ASSEMBLY:** Must be an open A-frame type to allow flexing under repeated load shocks. Boom rotation to be accomplished by a ring and pinion gear. Motor type shall be Geroler (M&S) with maximum torque of 317,580 in-lb. The gearbox ratio is to be rated at 131.5:1 (Reggiana Riduttori). Boom rotation must be continuous. Slewing ring gear teeth are to be external with a ring size of 2.875" thick by 27.9 outer diameter. 36 Top and 36 lower mount bolts shall be ¾" thick grade 8 bolts. Pinion gear shaft is to be 5" in diameter.

**BOOM CONSTRUCTION:** Main boom must be comprised of 8 in. x 10 in. x 5/16th in. thick high tensile steel tubes connected to each other only at their center line to allow a shock absorbing flexing action of the boom. Main boom must have a minimum of 1200 PSI down pressure on the main boom for compacting loads. Tip boom to have an extendible/retractable telescopic section controllable from the operator's platform. Must have mechanical stops to prevent cylinder stress. The inner and outer sleeves of the telescopic section must be separated by replaceable cast nylon wear blocks on all sides to prevent metal-to-metal wear. Hydraulic hoses for the telescopic section must be enclosed in steel box for protection. No exposed tip extension hoses shall be permitted. Boom length, with tip boom fully extended, shall be 25'.

**LIFTING CAPACITIES:** Boom radius is measured from the center of rotation to the center of the bucket. Capacities shown must not exceed 85% of vehicle tipping moment, with machine level and outriggers fully extended. Weight of bucket and/or attachments to boom must be subtracted from lift capacities shown. (Bucket should weigh approximately 1,000 lbs.)

### **BOOM RADIUS LIFT CAPACITY:**

- 10 ft. 9,000 lbs.
- 15 ft. 5,700 lbs.
- 20 ft. 3,060 lbs.
- 25 ft. 2,700 lbs.

**BOOM CONNECTION POINTS:** Boom connection points must be equipped with replaceable cast nylon or bronze bushings and a 2 in. bolt with castellated nut to prevent spreading of the connection pivot point.

**TRASH BUCKET:** The bucket shall be capable of continuous rotation with no need for physical stops. Bucket rotation to be accomplished by a continuous rotation bucket motor. The bucket must be at least 4 ft. long with an opened width of at least 5 ft. between pickup blades. These blades must be high impact, tempered steel that form a reverse curve in the closed position to help prevent "scalping" and digging of grass lawns. No hydraulic hoses below bucket rotator will be allowed.

**POWER SOURCE:** To be a transmission mounted power take off coupled directly to the hydraulic pump (no drive shafts). For vehicles with an automatic transmission, the power source shall be a "Hot Shift" PTO. "Hot Shift" automatically disengages the PTO when the truck is placed in gear, and reengages when the truck is placed back in neutral (ready for hydraulic operation). This eliminates the possibility of damage to the hydraulic components that could result if the operator drives the vehicle with the PTO in gear. Also provides for smooth engagement of PTO with no gnashing or grinding of gears. Must be equipped with over speed protection (with the exception of a manual transmission). Over-speeding the pump causes the hydraulic fluid to overheat. Over speed protection prevents damage to engine, hydraulic system, and major system components resulting from over-speeding the engine. All electrical connections are to be chassis manufactures specifications.

**HYDRAULIC COMPONENTS:** Reservoir: 60-gallon baffled tank with return filters and cutoff valves for easy servicing. Includes a sight gauge with a thermometer and a vent filter.

**CYLINDERS:** Double acting with chromed rods and aluminum pistons.

Main Boom: 5 in. x 36 in. with a 2 ½ in. shaft.

Tip Boom: 5 in. x 32 in. with a 2 ½ in. shaft.

Tip Extension: 2 in. x 48 in. with a 1 ¼ in. shaft.

Bucket: 4 in. x 12 in. with a 2 in. shaft.

Control Valves: Parker VP120 load sense directional valve.

**SAFETY LOCKING VALVES:** Counter balance valves to be installed on boom and outrigger cylinders and check valves on outrigger cylinders to prevent a leak down or collapse in case of a hydraulic hose rupture.

Pump: 75cc variable displacement.

**CONDUCTORS:** Steel tubing and high tensile steel wire braided hoses, 4,000 PSI, 16,000 PSI minimum burst. Pressure: Main relief set at 3,100 PSI maximum.

**ENGINE CONTROL:** Engine is to be programmed for the proper RPM level and activated by a heavy-duty switch at the operator's station.

**OPERATOR CONTROLS:** Rotating top mount seat attached with pilot hydraulic joystick controls. Foot pedal on operator platform for boom swing. Operator platform shall have 360-degree continuous boom rotation. Operator platform shall also be equipped with toggle switches for outrigger controls.

**EMERGENCY SHUT DOWN:** The operator station shall have a remote engine cut off switch to be accessible to the operator while seated. A safe guard shall be placed around or cover the switch to prevent accidental activation of the switch.

**OUTRIGGER STABILIZERS:** Outriggers to be constructed with hydraulically powered telescoping rectangular tubing to prevent side loading and bending of cylinder shafts. Outriggers to be equipped with large steel pads to minimize damage to street. Outriggers must telescope out and down to reach a horizontal distance of 11 ft. 8 in. between outer edges. Outward stabilizer movement of each stabilizer to be powered by a hydraulic cylinder with a bore of 2 in. and a stroke of 20 in. The housing that accomplishes this outward movement must be separated by cast nylon bushings on all four sides to prevent metal-to-metal wear and to allow a greater area for grease. Downward movement to be powered by two hydraulic cylinders with a bore of 3 in. and a stroke of 22 in. These cylinders must be fully enclosed for protection. Outriggers shall have white flashing LED lights to warn oncoming traffic from front and rear of truck when outriggers are down and cut on / off from cab with same switch as front and rear LEDs.

**PAINT:** Loader must receive 1 coat of high-grade primer and 2 coats of high-grade enamel (Color to be determined from standard factory color selection and approved by owner prior to order)

**MISCELLANEOUS:** Includes boom up sensor with indicator light and audible alarm (light in cab with audible alarm warns the driver of excessive boom height), tail pipe extended past operator platform and back-up alarm.

One safety parts/service manual to be included.

One-hour training videotape for operators/mechanics must be included.

22 FOOT, 45 CUBIC YARD HIGH TENSILE TRASH DUMP BODY

**BODY FLOOR:** Body floor to be a single sheet of 3/16 inch Hardox HX450 steel plate to resist dents. Floor to be 96-inch-wide and 22 ft. long, continuously welded to the sides and headboard. Multiple floor panels welded together are not acceptable. Includes 3/16-inch x 10-inch-wide steel reinforcement continuously welded between floor and each body side.

**HEADBOARD:** Headboard to be 10-gauge steel, 54 inches high, continuously welded to the floor and body sides. Top rail to be a formed 3-inch x 5-inch 1/4-inch steel plate.

**SIDES:** Sides are to be 7' in height at the rear sloping to 4' at the front of the bed. Sides to be 1/8-inch Hardox HX450 steel sheet to resist dents & reduce side flare out. The two side sheets must be connected with an overlapped joint, a butt joint will not be acceptable. Side construction must incorporate a bend near the base of

the side for rigidity. The base of the side must have a 90-degree bend that wraps under the floor sheet. No 90-degree angles on bottom of exterior body sides. Top rail to be a formed 3-1/4-inch x 7-inch 1/8-inch Hardox HX450 steel plate to resist dents & reduce side flare out.

**VERTICAL REINFORCEMENT:** Side posts are not acceptable; the intent of this specification is to reduce weight, have a cleaner appearance with a smooth side and to allow the high tensile side material to flex and reduce dents. Rear corner post is to extend below the floor plate and connect to a beam that connects both of the corner posts to add rigidity to the back of the body so the door will not jam when the body is fully loaded.

**CROSS MEMBERS:** No cross members on the floor will be acceptable. The intent of this specification is to reduce weight and have a cleaner appearance. The rear corner posts are to incorporate a beam under the floor that connects the base of the two corner posts to add rigidity to the back of the body so the door will not jam when the body is fully loaded.

**LONGITUDINAL BEAMS:** Longitudinal beams to be 10-inch structural channel with 1/4-inch plate along the outer length of the beam.

**BARN DOORS:** Rear doors to be fitted on the rear of the body with a provision to swing completely around to the side and latch open for dumping. Doors to match side height. Each must have 3 hinges, with each hinge consisting of 3 steel plates, 2 ea. 5/8-inch plate welded on body, 1 each 3/4-inch plate welded on door, all connected with a 3/4-inch steel pin. A positive lock shall be provided at the top and bottom for locking doors closed. Door skins to be fabricated from 1/8-inch Hardox HX450 steel sheet and must have an all-around outside frame with braces in the center of the door.

**HYDRAULIC HOIST:** Hoist to be Scott LL-3000 scissor type, dual cylinder with 37-ton capacity. Telescopic dump hoist not acceptable. Hoist must raise the body to a minimum 45-degree dump angle without the rest of the body touching ground.

**LIGHTS, REFLECTORS, AND MUD FLAPS:** Lights, reflectors, and mud flaps must meet federal standards. There is to be an additional set of brake, stop and turn lights mounted on the upper rear corner post. Clearance lights are to be grommet mounted and shock resistant. There is also to be a set of white led flashers in upper rear corner post to warn oncoming traffic when operating and cut on / off from cab with same switch as front and outrigger LEDs. There is to be additional LED lighting on the street and curb side of the truck illuminating work areas beside truck.

**PAINT:** Paint outside of body with 1 coat of high-grade primer and 2 coats of high-grade enamel. Inside of body must receive 1 coat of high-grade primer and 1 coat of high-grade enamel (Color to be determined from standard factory color selection and approved by owner prior to order)

**WARRANTY:** Three year major structural and one year hydraulic for loader and body.

**MISCELLANEOUS:** Safety bumper and body prop shall be provided.

**DELIVERY:** The unit shall be delivered completely assembled, serviced, and ready to operate. The bidder shall have a qualified service representative in attendance with the truck during startup operations to make any adjustments needed and to give operator instruction on the proper operation of the overall truck configuration.

**\*ANY EXCEPTIONS TO THESE SPECIFICATIONS MUST PROVIDE COMMENTS REFERENCING TO WHAT SECTION AND EXACT SPECIFIC SPECIFICATION THAT AN EXCEPTION IS BEING REQUESTED AND WHY.**



**BID: FMD-15**

**2019/2020 KENWORTH CAB AND CHASSIS WITH KNUCKLE BOOM TRASH LOADER AND DUMP BODY  
BID FORM**

**Base price to include:** One (1) 2019/2020 Kenworth Cab and Chassis with Knuckle boom Trash Loader and Dump Body as specified, all applicable fees, delivery and other charges. Prices shall remain firm for **60** days.

Proposed Knuckle boom Trash Loader Manufacturer and Model: \_\_\_\_\_

List exceptions to Knuckle boom Trash Loader Specs, if any: \_\_\_\_\_

Proposed Dump Body Manufacturer and Model: \_\_\_\_\_

List exceptions to Dump Body Specs, if any: \_\_\_\_\_

**Base Price: \$** \_\_\_\_\_

**Sales tax: \$** \_\_\_\_\_

**Total Bid: \$** \_\_\_\_\_

=====  
**Please print the following information:**

**Kenworth Dealer:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**City:** \_\_\_\_\_ **State:** \_\_\_\_\_ **Zip:** \_\_\_\_\_

**Authorized Representative:** \_\_\_\_\_