

CAROLE JONES,
CHIEF PURCHASING
AGENT

COUNTY OF HENRY, VIRGINIA
PURCHASING DEPARTMENT
<http://www.henrycountyva.gov/>

INVITATION
FOR BIDS
#19-05163-3061

MAY 1, 2019

THE COUNTY OF HENRY SOLICITS FIRMS TO SUBMIT SEALED BIDS, SUBJECT TO THE SPECIFICATIONS AND CONDITIONS CONTAINED HEREIN AND ATTACHED HERETO FOR **SUPPLY AND DELIVERY OF NEW ROLL-OFF TRASH TRUCK FOR HENRY COUNTY REFUSE. BIDS WILL BE RECEIVED IN A SEALED ENVELOPE UNTIL, BUT NOT LATER THAN, 3:00 P.M., LOCAL PREVAILING TIME, MAY 16, 2019, IN THE:**

PURCHASING DEPARTMENT, ROOM 210

HENRY COUNTY ADMINISTRATION BUILDING

P.O. BOX 7, COLLINSVILLE, VA 24078 (POSTAL SERVICE) OR

3300 KINGS MOUNTAIN ROAD, MARTINSVILLE, VA 24112 (UPS OR FEDEX)

AND THEN PUBLICLY OPENED AND READ AT THE SAME OFFICE.

EACH BIDDER SHALL SUBMIT HIS BID IN A SEALED ENVELOPE AND MARK OUTSIDE OF ENVELOPE WITH COMPANY NAME, SUBJECT, BID NUMBER AND CLOSING DATE OF BID. THE COUNTY SHALL NOT ACCEPT ANY MONETARY MODIFICATIONS TO THE BID, WHICH ARE WRITTEN ON THE OUTSIDE OF BID ENVELOPE. FACSIMILE AND/OR ELECTRONIC BIDS WILL NOT BE ACCEPTED. BIDDERS MUST SIGN COLLUSION STATEMENT OR BID MAY BE REJECTED.

IF UNABLE TO BID, PLEASE SIGN AND RETURN THIS FORM, ADVISING REASON FOR NOT SUBMITTING A BID. OTHERWISE, YOUR NAME SHALL BE REMOVED FROM OUR BIDDERS LIST AFTER THREE (3) NON-RESPONSES.

ANY BID RECEIVED LATE, WILL NOT BE CONSIDERED AND WILL BE RETURNED UNOPENED. **IF THE COUNTY CLOSES ITS OFFICES DUE TO INCLEMENT WEATHER OR FOR OTHER REASONS, SCHEDULED BID OPENINGS WILL BE EXTENDED TO THE FIRST OPEN BUSINESS DAY AT THE SAME TIME, UNLESS AN ADDENDUM IS ISSUED THAT STATES OTHERWISE.**

NOTHING HEREIN IS INTENDED TO EXCLUDE ANY RESPONSIBLE FIRM OR IN ANY WAY RESTRAIN OR RESTRICT COMPETITION. ON THE CONTRARY, ALL RESPONSIBLE FIRMS, LOCAL, FAITH-BASED, MINORITY-OWNED AND FEMALE-OWNED ARE ENCOURAGED TO SUBMIT A BID. THE RIGHT IS RESERVED TO REJECT ANY OR ALL BIDS, TO WAIVE INFORMALITIES, AND ALSO, TO PLACE THE ORDER WITH THE LOWEST RESPONSIVE AND RESPONSIBLE BIDDER WHERE IT APPEARS IT WILL BE TO THE BEST INTEREST OF THE COUNTY.

ALL QUOTED PRICES SHALL REMAIN FIRM FOR A PERIOD OF SIXTY (60) DAYS FROM DATE OF BID OPENING. **UNIT PRICE/VENDOR WORK WRITE-UP SHALL PREVAIL IN CASE OF VENDOR ERROR. IF YOU HAVE ANY QUESTIONS, PLEASE CALL MIKE AMOS AT 276-634-2503.**

WITHDRAWAL OF BID DUE TO ERROR

A BIDDER FOR A PUBLIC CONSTRUCTION CONTRACT, OTHER THAN A CONTRACT FOR CONSTRUCTION OR MAINTENANCE OF PUBLIC HIGHWAYS, MAY WITHDRAW HIS BID FROM CONSIDERATION IF THE BID PRICE WAS SUBSTANTIALLY LOWER THAN THE OTHER BIDS DUE SOLELY TO A MISTAKE THEREIN, PROVIDED THE BID WAS SUBMITTED IN GOOD FAITH, AND THE MISTAKE WAS A CLERICAL MISTAKE AS OPPOSED TO A JUDGMENT MISTAKE, AND WAS ACTUALLY DUE TO AN UNINTENTIONAL ARITHMETIC ERROR OR UNINTENTIONAL OMISSION OF A QUANTITY OF WORK, LABOR OR MATERIAL MADE DIRECTLY IN THE COMPILATION OF A BID, WHICH UNINTENTIONAL ARITHMETIC ERROR OR UNINTENTIONAL OMISSION CAN BE CLEARLY SHOWN BY OBJECTIVE EVIDENCE DRAWN FROM INSPECTION OF ORIGINAL WORK PAPERS, DOCUMENTS AND MATERIALS USED IN THE PREPARATION OF THE BID SOUGHT TO BE WITHDRAWN. THE BIDDER SHALL GIVE NOTICE IN WRITING OF HIS CLAIM OF RIGHT TO WITHDRAW HIS BID WITHIN TWO (2) BUSINESS DAYS AFTER THE CONCLUSION OF THE BID OPENING PROCEDURE, AND SHALL SUBMIT ORIGINAL WORK PAPERS WITH SUCH NOTICE.

BID #19-05163-3061

IN COMPLIANCE WITH INVITATION FOR **BIDS #19-05163-3061**, AND SUBJECT TO ALL CONDITIONS THEREOF, THE UNDERSIGNED OFFERS AND AGREES TO FURNISH ANY OR ALL OF THE ITEMS UPON WHICH PRICES ARE QUOTED, AT THE PRICE QUOTED FOR EACH ITEM AND DELIVERED AS SPECIFIED.

MY SIGNATURE CERTIFIES THAT THE ACCOMPANYING BID IS NOT THE RESULT OF OR AFFECTED BY, ANY ACT OF COLLUSION WITH ANOTHER PERSON OR COMPANY ENGAGED IN THE SAME LINE OF BUSINESS OR COMMERCE, OR ANY ACT OF FRAUD PUNISHABLE UNDER TITLE 18.2, CHAPTER 12, ARTICLE 1.1 of THE CODE OF VIRGINIA, 1950, AS AMENDED. FURTHERMORE, I UNDERSTAND THAT FRAUDULENT AND COLLUSIVE BIDDING IS A CRIME UNDER THE VIRGINIA GOVERNMENTAL FRAUDS ACT, THE VIRGINIA GOVERNMENT BID RIGGING ACT, THE VIRGINIA ANTITRUST ACT AND FEDERAL LAW AND CAN RESULT IN FINES, PRISON SENTENCES AND CIVIL DAMAGE AWARDS.

I AGREE TO ABIDE BY ALL CONDITIONS OF THIS BID AND CERTIFY THAT I AM AUTHORIZED TO SIGN THIS BID FOR THE BIDDER.

COMPANY NAME _____

ADDRESS _____

SIGNATURE _____

NAME (TYPE OR PRINT) _____

OFFICIAL TITLE _____

DATE _____

TELEPHONE NUMBER _____

FAX NUMBER _____

BIDDERS SHALL REFERENCE THE CONTRACTOR LICENSE REQUIREMENTS OF TITLE 54, CHAPTER 11, OF THE CODE OF VIRGINIA 1950, AS AMENDED AND PROVIDE THE APPROPRIATE VIRGINIA CONTRACTOR NO., IF APPLICABLE BELOW.

LICENSED CLASS A VA CONTRACTOR NO. _____

LICENSED CLASS B VA CONTRACTOR NO. _____

LICENSED CLASS C VA CONTRACTOR NO. _____

**IMPORTANT - READ CAREFULLY BEFORE SUBMITTING BID
COUNTY OF HENRY, VIRGINIA PURCHASING DEPARTMENT
GENERAL TERMS, CONDITIONS, AND INSTRUCTIONS**

1. SUBMISSION AND RECEIPT OF BIDS:

- (a) BIDS, TO RECEIVE CONSIDERATION, MUST BE RECEIVED PRIOR TO THE SPECIFIED TIME AND DATE OF OPENING AS DESIGNATED IN THE INVITATION.
- (b) UNLESS OTHERWISE SPECIFIED, BIDDERS MUST USE THE BID FORM FURNISHED BY THE COUNTY. FAILURE TO DO SO MAY CAUSE BID TO BE REJECTED. REMOVAL OF ANY PART OF THE BID FORM MAY INVALIDATE THE BID.
- (c) ALL BIDS SHALL BE EITHER TYPEWRITTEN OR FILLED IN WITH INK IN ORDER TO BE CONSIDERED. ALSO, ALL BIDS MUST BE SIGNED IN INK IN ORDER TO BE CONSIDERED. BIDS FILLED IN WITH PENCIL WILL BE REJECTED.
- (d) BIDS CONCERNING SEPARATE BID INVITATIONS, MUST NOT BE COMBINED ON THE SAME FORM OR PLACED IN THE SAME ENVELOPE. BIDS SUBMITTED IN VIOLATION OF THIS PROVISION MAY NOT BE CONSIDERED.

2. DELIVERY POINT:

ALL ITEMS SHALL BE DELIVERED F.O.B. DESTINATION, AND DELIVERY COSTS AND CHARGES INCLUDED IN THE BID PRICE.

3. BRAND NAMES:

UNLESS OTHERWISE PROVIDED IN THE INVITATION FOR BID, THE NAME OF A CERTAIN BRAND, MAKE OR MANUFACTURER DOES NOT RESTRICT BIDDERS TO THE SPECIFIC BRAND, MAKE OR MANUFACTURER NAMED; IT CONVEYS THE GENERAL STYLE, TYPE, CHARACTER, AND QUALITY OF THE ARTICLE DESIRED, AND ANY ARTICLE WHICH THE COUNTY IN ITS SOLE DISCRETION DETERMINES TO BE THE EQUAL OF THAT SPECIFIED, CONSIDERING QUALITY, WORKMANSHIP, ECONOMY OF OPERATION, AND SUITABILITY FOR THE PURPOSE INTENDED, SHALL BE ACCEPTED.

4. QUALITY:

ALL MATERIALS USED FOR THE MANUFACTURE OR CONSTRUCTION OF ANY SUPPLIES, MATERIALS, OR EQUIPMENT COVERED BY THIS BID SHALL BE NEW. THE ITEMS BID MUST BE NEW, THE LATEST MODEL, THE BEST QUALITY, AND THE HIGHEST GRADE WORKMANSHIP.

5. CODE OF VA CHAPTER 43 TITLE 2.2-4311: EMPLOYMENT DISCRIMINATION BY CONTRACTOR PROHIBITED; REQUIRED CONTRACT PROVISIONS. SEE VA CODE FOR DETAILED INFORMATION.

GENERAL TERMS, CONDITIONS, AND INSTRUCTIONS

6. BASIS FOR REJECTIONS AND AWARD:

THE COUNTY OF HENRY RESERVES THE RIGHT TO ACCEPT OR REJECT ALL BIDS OR PARTS OF BIDS, TO WAIVE INFORMALITIES AND TECHNICALITIES, AND TO REQUEST REBIDS. THE COUNTY ALSO RESERVES THE RIGHT TO AWARD THE CONTRACT ON SUCH MATERIAL THE COUNTY DEEMS WILL BEST SERVE ITS INTEREST. THE AWARD WILL BE MADE AND POSTED IN THE COUNTY/PSA PURCHASING OFFICE TO THE LOWEST RESPONSIBLE BIDDER WITH THE LOWEST RESPONSIVE BID WHICH IS IN ACCORDANCE WITH THE TERMS, CONDITIONS, AND SPECIFICATIONS OF THE BID AND IS IN CONFORMANCE WITH THE CODE OF THE COUNTY OF HENRY AND THE CODE OF VIRGINIA.

7. INTERPRETATION OF BID AND ADDENDUM:

IF ANY PARTY CONTEMPLATING THE SUBMISSION OF A BID ON THIS INVITATION IS IN DOUBT AS THE TRUE MEANING OF ANY PART OF THE BID, THEY SHOULD CONTACT **MIKE AMOS AT 276-634-2503**. ANY RESULTING CHANGE TO THE BID INVITATION DOCUMENT WILL BE MADE ONLY BY WRITTEN ADDENDUM DULY ISSUED TO EACH PARTY RECEIVING A BID INVITATION. THE COUNTY WILL NOT BE RESPONSIBLE FOR ANY CHANGES EXCEPT AS NOTED THROUGH A WRITTEN ADDENDUM OR SO STATED BY CHIEF PURCHASING AGENT FOR HENRY COUNTY. ALL ADDENDUMS MUST BE SIGNED AND RETURNED WITH YOUR BID AND ANY ADDENDUM THAT AFFECTS PRICE, QUALITY, QUANTITY OR DELIVERY SCHEDULE, THAT IS NOT RETURNED, WILL BE REJECTED.

8. RIGHT TO NEGOTIATION:

IF A BID FROM THE LOWEST RESPONSIBLE BIDDER EXCEEDS THE FUNDS AVAILABLE FOR SERVICES AND/OR MATERIALS REQUESTED, THE COUNTY OF HENRY RESERVES THE RIGHT TO NEGOTIATE. SUCH NEGOTIATIONS WITH THE LOWEST RESPONSIBLE BIDDER MAY INVOLVE DISCUSSION OF REDUCTION OF QUALITY, QUANTITY OR OTHER COST SAVING MECHANISMS.

9. REGISTERED SEX OFFENDER:

THE CONTRACTOR SHALL NOT SEND ANY EMPLOYEE OR AGENT WHO IS A REGISTERED SEX OFFENDER TO ANY SCHOOL BUILDING OR SCHOOL PROPERTY. QUARTERLY, THE CONTRACTOR SHALL CHECK THE REGISTRY TO DETERMINE IF THE EMPLOYEE IS REGISTERED.

10. PIGGY BACK CLAUSE: ACCORDING TO THE STATE OF VA PUBLIC PROCUREMENT ACT ANY OTHER STATE, LOCAL OR GOVERNMENT AGENCY MAY USE THIS BID AS A BASIS FOR PROCURING SUCH ITEMS.

11. ADDITIONAL PRODUCTS/SERVICES: THE COUNTY/PSA RESERVES THE RIGHT TO BUY/HIRE FOR ADDITIONAL PRODUCTS/SERVICES OF SIMILARITY FROM AWARDED VENDOR OF THIS CONTRACT WITHOUT GOING THROUGH THE BIDDING PROCESS FOR ONE (1) CALENDAR YEAR FROM THE DATE OF THE NOTICE OF AWARD FROM THIS CONTRACT, UNLESS STATED OTHERWISE WITHIN THIS BID.

12. BONDS:

A. BID BOND- (BID GUARANTEE):

THIS PROJECT **SHALL NOT** REQUIRE A BID BOND TO ACCOMPANY THE BID.

WHEN SUBMITTING A BID BOND TO THE COUNTY/PSA, THE VENDOR SHALL DO SO BY SUBMITTING A BOND UNDERWRITTEN BY A SURETY COMPANY WHICH IS LEGALLY AUTHORIZED TO DO BUSINESS IN VIRGINIA **OR** A CASHIERS/CERTIFIED CHECK. BOTH TYPES OF BID GUARANTEES SHALL BE WORTH 5% OF THE VENDORS OVERALL BID.

B. PERFORMANCE BOND AND PAYMENT BOND:

AFTER AWARD OF CONTRACT, FOR ALL PROJECTS VALUED AT \$100,000 OR MORE, VENDOR SHALL EXECUTE AND SUBMIT BOTH A PERFORMANCE BOND AND A PAYMENT BOND PRIOR TO START OF WORK. EACH BOND SHALL BE CONDITIONED UPON FULL AND COMPLETE PERFORMANCE OF THE CONTRACT, UNDERWRITTEN BY A SURETY COMPANY WHICH IS LEGALLY AUTHORIZED TO DO BUSINESS IN VIRGINIA AND IN THE AMOUNT OF 100% OF THE CONTRACT.

13. LIQUATED DAMAGES:

LIQUATED DAMAGES SHALL NOT APPLY TO THIS BID.

14. ILLEGAL ALIENS:

VENDOR PROMISES THEY WILL NOT HIRE ILLEGAL ALIENS. BY SIGNING THIS BID DOCUMENT THE VENDOR CONFIRMS THIS PROMISE.

15. PERMITS/LICENSES:

VENDORS SHALL BE RESPONSIBLE FOR ACQUIRING ALL THE PROPER PERMITS/LICENSES REQUIRED BY LOCAL AND STATE AUTHORITIES IN CONJUNCTION WITH THIS BID. BID PRICES SHALL INCLUDE THESE FEES AND NO ADDITIONAL COST ARE TO BE ASSESSED TO THE COUNTY/PSA. BIDDER'S ATTENTION IS DIRECTED TO THE REQUIREMENTS OF TITLE 54, CHAPTER 11, OF THE CODE OF VIRGINIA PERTAINING TO REGISTRATION OF CONTRACTORS.

BID #19-05163-3061

THE 2007 SESSION OF THE VIRGINIA GENERAL ASSEMBLY, PASSED THE HB 1707/SB 1346 BILL, EFFECTIVE ON JULY 1, 2007. HENRY COUNTY IS REQUIRING ALL VENDORS TO ABIDE BY THE FOLLOWING NEW LEGISLATION.

HB 1707/SB 1346

PROVIDES THAT AS A CONDITION OF AWARDING A CONTRACT FOR THE PROVISION OF SERVICES THAT REQUIRE THE CONTRACTOR OR HIS EMPLOYEES TO HAVE DIRECT CONTACT WITH STUDENTS ON SCHOOL PROPERTY DURING REGULAR SCHOOL HOURS, THE SCHOOL BOARD MUST REQUIRE THE CONTRACTOR TO PROVIDE CERTIFICATION THAT ALL EMPLOYEES WHO WILL HAVE DIRECT CONTACT WITH STUDENTS HAVE NOT BEEN CONVICTED OF A FELONY OR ANY OFFENSE INVOLVING THE SEXUAL MOLESTATION OR PHYSICAL OR SEXUAL ABUSE OR RAPE OF A CHILD. THE BILL ALSO PROVIDES THAT THE REQUIREMENT BE WAIVED IN EMERGENCY SITUATIONS WHEN IT IS REASONABLY ANTICIPATED THAT THE CONTRACTOR OR HIS EMPLOYEES WILL HAVE NO DIRECT CONTACT WITH STUDENTS.

PLEASE INDICATE APPROPRIATE BOX BELOW.

_____ I AGREE TO ABIDE BY THIS LEGISLATION HB 1707/SB 1346.

_____ THIS LEGISLATION DOES NOT APPLY TO THIS SOLICITATION.

THE AWARDED VENDOR MAY BE REQUIRED TO PROVIDE ADDITIONAL PAPERWORK BUT ONLY A SIGNATURE IS NECESSARY AT THIS TIME.

AUTHORIZED VENDOR SIGNATURE

DATE

COMPANY NAME

PRINTED NAME AND TITLE

Subcontractor Information

Must fill form out completely even if no subcontractors are being used.

You must check appropriate box below and list any subcontractors that will be used for this **BID #19-05163-3061 for SUPPLY AND DELIVERY OF NEW ROLL-OFF TRASH TRUCK FOR HENRY COUNTY REFUSE.**

_____ I will be using subcontractors. (See list below)

_____ I may or may not be using subcontractors. Not sure at this time. If you are the awarded vendor, you are responsible for contacting Commissioner of Revenue's Office at (276-634-4691) with subcontractor information. Payment of invoices is contingent upon receiving required information.

_____ I will not be using subcontractors.

1.) Subcontractors Company Name _____

Contact Person _____ Telephone # _____

2.) Subcontractors Company Name _____

Contact Person _____ Telephone # _____

3.) Subcontractors Company Name _____

Contact Person _____ Telephone # _____

4.) Subcontractors Company Name _____

Contact Person _____ Telephone # _____

5.) Subcontractors Company Name _____

Contact Person _____ Telephone # _____

6.) Subcontractors Company Name _____

Contact Person _____ Telephone # _____

Bidders Company Name _____

Bidders Authorized Signature _____ **Date:** _____

Bidders Telephone # _____ **Federal ID #** _____

***Note- Add a separate sheet if you need additional space for subcontractors**

SPECIFICATIONS

The Henry County Refuse Department request bids for a New Roll-Off Trash Truck. Please see minimum specifications below.

Vehicle Configuration

114SD Conventional Chassis
2019 or greater Model Year Specified
Set back axle – truck
Straight truck Provision
LH Primary Steering location

General Service

Truck Configuration
Domiciled, USA (excluding CA. and Carb OPT-in States)
Refuse Service
Government Business Segment
Dry Bulk Commodity
Terrain/Duty 100% (all) of the time, in Transit, is spent on paved roads.
Maximum 8% Expected grade
Freightliner Level Warranty
Expected Front Axle (s) Load: 20000.0 Lbs.
Expected Rear Axle (s) Load: 44000.0 Lbs.
Expected Gross Vehicle Weight Capacity 64,000.0 Lbs.

Truck Service

Roll Off/Roll on Body

Engine

Detroit DD13 12.8L 410 HP @ 1625 RPM, 1900 GOV RPM, 1650 LB/FT @ 975 RPM

Electronic Parameters

75 MPH Road Speed Limit
Cruise control Speed Limit same as road speed limit

Electronic Parameters, Cont.

1650 RPM/18 MPH limit for low gears, 1650 RPM/44 MPH limit for middle gears,
1650 RPM/45 limit for high gears

PTO Mode Engine RPM Limit – 900 RPM

PTO brake override – service brake applied or park brake not applied

PTO RPM with cruise Set Switch – 600 RPM

PTO RPM with cruise resume switch – 600 RPM

PTO Mode cancel vehicle speed – 5 MPH

PTO Mode RPM Increment – 25 MPH

PTO Governor Ramp Rate – 250 RPM per second

One remote PTO speed

PTO speed setting – 900 RPM

PTO Minimum RPM – 600

Engine Equipment

2016 Onboard diagnostics/2010 EPA/Carb/Final GHG 17 configuration

2008 Carb Emission Certification-Clean IDLE (includes 6x4 inch label on lower
forward corner of driver door)

Standard Oil Pan

Engine mounted oil check and fill

Side of hood air intake with Donaldson high capacity air cleaner with safety
element. Firewall mounted

DR12V 160 AMP 36-S1 Brushless Quadramount Pad Alternator with remote
Battery Volt Sense

(3) Alliance Mosel 1231XOE, group 31, 12 volt Maintenance free 3375 CCA
threaded stud batteries

Battery box with aluminum cover mounted short side to rail

Standard battery jumpers

Single battery boss frame mounted LH side back of cab

Wire grounded return for battery cables with additional frame ground return

Non-polished Battery Box cover

Cab auxiliary power cable

Eaton Advantage 15-1/2 inch self-adjusting clutch

Torque limited clutch brake

Zerk fitting with extension hose at clutch release bearing

Engine Equipment, Cont.

Zhydraulic Clutch control

BW LK-862 650CC 34.8 CFM dual cylinder air compressor

Electronic engine integral shutdown protection system

Jacobs Compression brake

RH outboard under step mounted horizontal after treatment system assembly with RH-8 pillar mounted vertical tailpipe

Engine after treatment device, automatic over the road regeneration and dash mounted regeneration request switch

10 foot by 06 inch (126 inch +o/-5.9 inch) exhaust system height

RH curved vertical tailpipe B-pillar mounted routed from step

13 gallon diesel exhaust fluid tank

100 percent diesel exhaust fluid fill

Standard diesel exhaust fluid pump mounting

LH medium duty standard diesel exhaust fluid tank location

Standard diesel exhaust fluid tank cap

Aluminum after treatment device/muffler/tailpipe shields

Borg Waqrner (Kysor) rear air on/off engine fan clutch

Automatic fan control without dash switch, non-engine mounted

DDC supplied engine mounted fuel filter/fuel water separator with water-in-fuel indicator

Full flow oil filter

1500 square inch aluminum radiator

Antifreeze to -34F OAT (nitrite and silicate free) extended life coolant

Gates blue strip coolant hoses or equivalent

Constant tension clamps for coolant hoses

HDEP fixed ratio coolant pump and radiator drain valve

Phillips-temro 1500 watt/115 volt block heater

Black plastic heater receptacle mounted under LH door

Mitsubishi 12V Mod 3.175-DP60 Starter with integrated magnetic switch

Transmission

Eaton Fuller RTO-1690BII Transmission

Transmission Equipment

Vehicle interface wiring connector with POM and no blunt cuts at back of cab
Aluminum clutch housing
Customer installed Chelsea 442 series PTO
PTO mounting RH side of main transmission
Magnetic plugs, engine drain. Transmission fill and drain, axles(s) fill and drain
Painted shift lever, solid linkage
Water to oil transmission cooler in radiator end tank
Synthetic Transmission lube

Front Axle and Equipment

MFS-20-133A 20,000# FL1 71.0 inch KP113.74 inch drop single front axle
Meritor 16.5X6 Q + cast spider cam front brakes, double anchor fabricated shoes
Non-Asbestos Front brake lining
Conmet cast iron front brake drums
Front oil seals
Vented front hub caps with window center and side plugs-oil
Standard spindle nuts for all axles
Meritor automatic front slack adjusters
Standard king pin bushings
TRW THP-60 Power steering with RH Ram power steering pump
4 quart power steering reservoir
Oil/air power steering cooler
Synthetic 75w-90 Front axle lube

Front Suspension

20,000# flat leaf front suspension
Graphite bronze bushings with seal front suspension
No front shock absorbers

Rear Axle and Equipment

MT-44-14x44, 000# R-series Tandem rear axle
4.11 rear axle ratio
Iron rear axle carrier with standard axle housing
MXL 18T meritor extended lube main driveline with half round yokes

Rear Axle and Equipment, cont.

MXL 17T meritor extended lube interaxle driveline with half round yokes
Driver controlled traction differential- both tandem and rear axles
1 interaxle lock valve, 1 driver controlled differential lock forward-rear and rear-rear axle valve
Blinking lamp with each interaxle lock switch, interaxle unlock default with ignition off
Blinking lamp with each mode switch, differential unlock with ignition off, active<5MPH
Meritor16.5x7 Q+cast spider cam rear brakes, double anchor, fabricated shoes
Non-asbestos rear brake lining
Standard brake chamber location
Conmet cast iron rear brake drums
Rear oil seals
Bendix Eversure longstroke 2-drive axles spring parking chambers
Haldex automatic rear slack adjusters
Synthetic 75W-90 rear axle lube
Standard rear axle breathers

Rear Suspension

Hendrickson RTE463 @ 46,000# rear suspension
Hendrickson RT/RTE – 7 19” saddle
Standard axle seats in axle clamp group
52 inch axle spacing
Steel beams and bronze center bushings with bar pin adjustment end connections
Fore/aft control rods

Brake System

WABCO 4S/4M ABS without traction control
Reinforced nylon, fabric braid and wire braid chassis air lines
Fiber braid parking brake hose
Standard brake system valve
Standard air system pressure protection system
STD U.S. front brake valve
Relay valve with 5-8 PSI crack pressure No rear proportioning valve

Brake System, cont.

WABCO system saver HP with integral air governor and heater

Air dryer mounted inboard on LH rail

Steel air brake reservoirs mounted inside rail

Clear frame rails from back of cab to front suspension brackets, both rails outboard

Pull cables on all air Reservoirs

Trailer Connections

Upgraded chassis multiplexing unit

Wheelbase and Frame

252 inch wheelbase

7/16x3-9/16x11-1/8 inch steel frame (11.11 MMx282.6MM/0.437x11.13 inch)

120KS

¼ inch (6.35MM) c-channel inner frame reinforcement

1425MM (56 inch) rear frame overhang

Frame overhang range 51 inch to 60 inch

Calculated back of cab to rear susp. C/L (CA) 186.45 inch

Calculated effective back of cab to rear suspension C/L (CA) 183.45 inch

Calculated frame length overall 338.22

Calculated space available for deckplate 186.45 inch

Calculated frame space LH side 89.77 inch

Calculated frame space RH side 137.62 inch

Square end of frame

Rear tow hooks

Front crossing crossmember

Standard weight engine crossmember

Standard Midship #1 crossmember

Standard rearmost crossmember

Heavy Duty suspension crossmember

Chassis Equipment

14 inch painted steel bumper

Removable front tow hooks stored on chassis frame

Chassis Equipment, cont.

Bumper mounting for single license plate

Grade 8 threaded hex headed frame fasteners

Fuel Tanks

70 gallon/264 liter aluminum fuel tank-LH

23 inch diameter fuel tanks

Plain Aluminum/painted steel

Fuel/hydraulic tanks with painted bands

Fuel tanks forward

Plain step finish

Fuel tank caps

DAVCO 487 fuel/water separator with ESOC

EOUIFLO inboard fuel system

No natural gas vehicle fuel tank vent line/stack

High temperature reinforced nylon fuel line

Fuel cooler

Tires

Michelin XZU-S2 315/80 R 22.5 20 Ply radial front tires

Michelin XDN2 11R22.5 14 ply radial rear tires

Hubs

Conmet preset plus premium iron front hubs

Conmet preset plus premium aluminum rear hubs

Wheels

Accuride 29039 22.5x9.00 10-hub pilot 5.25 inset 5-hand steel disc front wheels

Accuride 28828 22.5x8.25 10-hub pilot 2-hand steel disc rear wheels

Cab Exterior

114 inch BBC flat roof aluminum conventional cab

Air cab mounting

Non-removable bug screen mounted behind grille

Front fenders set-back axle

Cab Exterior, cont.

Bolt-on molded flexible fender extensions
LH and RH grab handles
Stationary black grille
Black hood mounted air intake grille
Fiberglass Hood
Dual 24 inch round polish aluminum air horns roof mounted
Single electric horn
Dual horn shields
Door locks and ignition switch keyed the same
Rear license plate mount end of frame
Halogen composite headlamps with black bezels
5 amber marker lights
Daytime running lights-low beam only
Integral stop/tail/backup lights
Standard front turn signals lamps
Dual west coast molded-in color heated mirrors
Door mounted mirrors
102 inch equipment width
LH and RH 8 inch molded in-color convex mirrors mounted under primary mirrors
RH down view mirror
Standard side/rear reflectors
RH aftertreatment system cab access with steel shielding
63/14 inch tinted rear window
Tinted door glass LH and RH with tinted operating wing windows
Manual door window regulators
Tinted windshield
2 gallon windshield washer reservoir without fluid level indicator, frame mounted

Cab Interior

Opal grey vinyl interior
Molded plastic door panel without vinyl insert with aluminum kick plate lower door
Black mats with single insulation
Dash mounted ash tray without lighter

Cab Interior, cont.

Forward roof mounted console with upper storage compartment without netting

2 cup holders LH and RH dash

Gray/charcoal wing dash

Smart switch expansion module

5 lb. fire extinguisher

Heater, Defroster and air conditioner

Standard HVAC ducting

Main HVAC controls with recirculation switch

Standard heater plumbing

Denso heavy duty air condition compressor

Binary control, R-134a

Standard insulation

Solid-state circuit protection and fuses

12V negative ground electrical system

LH and RH door activated dome light with 3-way switch and courtesy lights mounted on all doors

Cab door latches with manual door locks

1 12 volt power supply in dash

Triangular reflectors without flares

Basic high back air suspension driver seat with mechanical lumbar and integrated cushion extension

Basic high back non suspension passenger seat

Dual driver seat armrest, on passenger seat arm rest

LH and RH integral door panel armrests

Vinyl with **cloth** insert driver seat

Vinyl with **cloth** insert passenger seat

Black seat belts

Adjustable tilt and telescoping steering column

4-spoke 18 inch (450mm) steering wheel

Driver and passenger interior sun visors

Instrument and Controls

Gray driver instrument panel

Gray center instrument panel

Instrument and Controls, cont.

Engine remote interface with park brake interlock

Black gauge Bezels

Low air pressure indicator light and audible alarm

2 inch primary and secondary air pressure gauges

Dash mounted air restriction indicator with graduations

Electronic cruise control with switches on auxiliary gauge panel

Key operated ignition switch and integral start position 4 position

off/run/start/accessory

ICU3s, 132x48 display with diagnostics 28 led warning lamps and data linked

Heavy duty onboard diagnostic interface connector located below LH dash

2 inch electric fuel gauge

Fuel filter restriction indicator

Engine remote interface with preset fast idle

Engine remote interface connector at back of cab

Electrical engine coolant temperature gauge

2 inch transmission oil temperature gauge

Engine and trip hour meters integral within driver display

1 dash mounted PTO switch with indicator lamp

Electric engine oil pressure gauge

Am/FM/WB world tuner radio with CD player, Bluetooth, IPOD interface, USB and auxiliary inputs, J1939

Dash mounted radio

2 radio speakers in cab

Am/FM antenna mounted on forward LH roof

Power and ground wiring provision overhead

CB wiring only to roof/overhead console, no mounting provision

Electronic MPH speedometer with secondary KPH scale without odometer

Standard vehicle speed sensor

Electronic 3000 RPM tachometer

VT-Hu connectivity platform hardware

2 year Detroit connect base package virtual technician, Detroit connect portal access for VT-HU connectivity platform

Ignition switch controlled engine stop

Pre-trip lamp inspection all outputs flash with smart switch

Instrument and Controls, cont.

Digital voltage display integral with driver display

Single electric windshield wiper motor with delay

Marker light switch integral with headlight switch

One valve parking brake system with warning indicator

Self-cancelling turn signal switch with dimmer washer/wiper and hazard in handle

Integral electronic turn signal flasher with hazard lamps overriding stop lamps

Design

Paint one solid color (White is requested)

Color

Cab color A lood6eb white elite BC

Black, high solids polyurethane chassis paint

Powder white (N0006ea) front wheels/rims pkwht21 tkwht21. W.tw

Standard black bumper paint

Standard coat/undercoating

**ROLL OFF HOIST FRAME
OUTSIDE RAIL & COVER SYSTEM
SPECIFICATIONS**

Frame Galbreath Model U5 or 174 or an approved equal (Dempster hoist system not acceptable as is not compatible with existing equipment) 60,000 lb. rate (1500 Grade C Tubing) 183" cab to axle.

Contoured, fitted plastic full fenders with supporting brackets

Rear hold downs— $\frac{3}{4}$ " plate steel (located for standard containers)

Hinge Shaft – 2.5" Solid Steel

Structure Sub frame to house all hydraulic lines (A500 Grade C Tubing) 4" O.D. outside rollers.

Paint Black enamel finish

Rear Bumper Two bumpers are required. An extra heavy duty bumper with recessed lights and two work lights hoist to include an automatic fold up ICC bumper.

Front Stops – 1 $\frac{1}{2}$ " steel plate

Manuals/keys Parts and service manuals required. Two (2) complete sets delivered with unit. Two (2) sets of keys shall come with vehicle.

Hydraulic System Pump

Gear type 35 G.P.M. at 1500 RPM Air controlled hot shift, with clutch pack, direct mount to pump.

PTO over-speed to be controlled by engine electronics to include clutch pack PTO.

Hydraulic System Must control engine rpm with transmission engage. Operating pressure 1850 psi.

Double acting lift cylinders with 2 ½" shafts

Double acting independent working winch cylinders.

50 Gal. Capacity oil reserve with shut-off valve.

Outside air operating controls.

Control Valve – 2 spool, 45 gallon capacity.

Screen fill filter

**Open to Box
Cover System**

K Pac Iron man series tarp system or an approved equal
For 20, 30 or 40 yard containers.

The roll off hoist frame and cover system must be mounted on
truck chassis and ready for use when delivered to landfill.

Other Features

Factory installed grease fittings on all working points unless
equipped with non-greasable fiber bearings.

Automatic spring loaded containers locking system.

Hoist prop for servicing (Required)

Tool Box

Aluminum 18" deep, 18" wide 4' long

BID SHEET

Truck and Hoist (Hook) will be delivered as one (1) complete Unit. Delivery cost shall be included in "Complete Truck and Hoist (Hook) Unit Cost".

Vehicle Warranty

(Please indicate what warranty comes with Vehicle)

-Complete truck bumper to bumper Yrs. _____ Miles _____

-Engine and Drive Train Yrs. _____ Miles _____

-Cab Yrs. _____ Miles _____

-Frame & Suspension Yrs. _____ Miles _____

Option #1:

Extended Warranty Complete Vehicle Yrs. _____

(Please attach what the extended warranty will include)

Cost of Extended Vehicle Warranty: \$ _____

Hoist (Hook) Warranty

(Please indicate what warranty comes with Hoist)

Warranty of Complete Hoist System Yrs. _____

Option #2:

Extended Warranty Complete Hoist System Yrs. _____

(Please attach what the extended warranty will include)

Cost of Extended Hoist (Hook) Warranty: \$ _____

Complete Truck and Hoist (Hook) Unit Cost:

\$ _____

Estimated Delivery Date: _____

Date: _____

Vendor Name: _____

Authorized Signature: _____

Print Name: _____