

AUTOMATED 24 CUBIC YARD SIDE LOADING REFUSE PACKER

11/28/2012

City of Gallatin

1.0 Introduction

The City of Gallatin is seeking bids for **AUTOMATED 24 CUBIC YARD SIDE LOADING REFUSE PACKER** for the Public Works Department. Bids will be due on December 14, 2012 at 1:30 pm in a sealed envelope clearly marked: **AUTOMATED 24 CUBIC YARD SIDE LOADING REFUSE PACKER**.

1.1 Scope of Work

The City of Gallatin seeks to purchase an **AUTOMATED 24 CUBIC YARD SIDE LOADING REFUSE PACKER**.

2.0 Technical Requirements

See Attached Spec Sheet.

3.0 Vendor Requirement

Meet minimum Truck Requirements.

4.0 Evaluation of Proposals

The City of Gallatin will award the contract to lowest responsible and responsive bidder meeting specifications, quality, and performance standards pursuant to the Municipal Purchasing Act of 1983. Response will be based on the following factors;

- Completeness of response
- Cost
- Meeting Truck requirement specs.
- Quality of service
- Quality of product

5.0 Contract Award

The City of Gallatin reserves the right to reject any or all proposals and to waive any informality found therein. The City of Gallatin will award a contract based on evaluations described above. In the event that the lowest bidder is not available at the time of need, the city reserves the right to go with the next lowest bidder.

6.0 Question Submissions

Public Works Office
Attn: Dianna Johnson
641 Long Hollow Pike
Gallatin TN 37066
Telephone: 615-451-5909
Email: dianna.johnson@gallatin-tn.gov

7.0 Proposal Submission

ALL SUBMISSIONS MUST BE SEALED AND CLEARLY MARKED

AUTOMATED 24 CUBIC YARD SIDE LOADING REFUSE PACKER.

BID DUE DATE: December 14, 2012, 1:30 pm

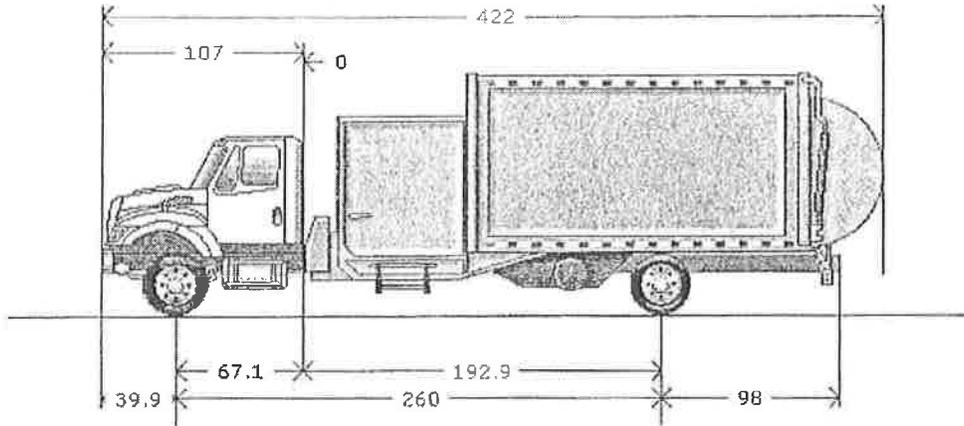
Proposals shall be directed to the attention of:
Finance Department
Attn: J.R.Smith, Jr
132 West Main Street
Gallatin, TN 37066
Telephone: 615-451-5963

PRICES

Unit for Truck \$ _____

Name of Company: _____
Address: _____
Telephone: _____
Signature: _____
Print Name: _____
Title: _____
Date: _____

Contractors License # _____



APPLICATION:	Packer - Manual Side Loader	
MISSION:	Requested GVWR: 42000. Calc. GVWR: 42000 Calc. Start / Grade Ability: 33.30% / 2.12% @ 55 MPH Calc. Geared Speed: 75.0 MPH	
FUEL ECONOMY:	N/A	
DIMENSION:	Wheelbase: 260.00, CA: 192.90	Axle to Frame: 98.00
ENGINE, DIESEL:	EPA 10, 300 HP @ 2000 RPM, 860 Ib-ft Torque @ 1200 RPM, 2200 RPM Governed Speed	
TRANSMISSION, AUTOMATIC:	{Allison 3500_RDS_P} 4th Generation Controls; Wide Ratio, 6-Speed, With Double Overdrive; Refuse/Mixer; Includes Oil Level Sensor, With PTO Provision, Less Retarder, With 60,000-1b GVW Max.	
CLUTCH:	Omit Item (Clutch & Control	
AXLE, FRONT NON- DRIVING	Wide Track, I-Beam Type, 16,000-lb Capacity	
AXLE, REAR, SINGLE:	Single Reduction, Standard Track, 26,000-1b Capacity, R Wheel Ends, Driver Controlled Locking Differential Gear Ratio: 5.63	
CAB:	Conventional	
TIRE, FRONT:	(2) 315/80R22.5 HSU2+ (CONTINENTAL) 481 rev/mile, load range L, 20 ply	
TIRE, REAR:	(4) 12R22.5 HDR (CONTINENTAL) 481 rev/mile, load range H, 16 ply	
SUSPENSION, RR, SPRING, SINGLE:	Vari-Rate; 31,000-lb Capacity; Includes (3) Torque Rods	
FRAME REINFORCEMENT:	Outer "c" Channel, Heat Treated Alloy Steel (120,000 PSI Yield); 10.813" x 3.892" x 0.312";	
PAINT:	(274.6mm x 98.9mm x B-Omm): 480,0" (12192rnm) Maximum GAL Cab schematic 100GN Location 1: 9219, Winter White (Std)Chassis schematic N/A	

Additional Specifications:

Base Chassis: 4X2 with 260.00 Wheelbase, 192.90 CA, and 98.00 Axle to Frame.
FRAME RAILS: Heat Treated Alloy Steel (120,000 PSI Yield); 10.125" x 3.580" x 0.312" (257.2mm x 90.9mm x 8.0mm); 480.0" (12192) Maximum OAL
FRAME REINFORCEMENT: Outer "C" Channel, Heat Treated Alloy Steel (120,000 PSI Yield); 10.813" x 3.892" x 0.312"; (274.6mm x 98.9mm x 8.0mm); 480.0" (12192mm) Maximum OAL
BUMPER, FRONT Full Width, Aerodynamic, Painted Steel; 0,189" Material Thickness; Includes: BUMPER, FRONT Powder Coated Gray (Argent) Color
CROSSMEMBER, REAR, AF
WHEELBASE RANGE 258~' (650cm) Through and Including 311" (790cm)
TOW HOOK, FRONT (2) Outside Rail, Frame Mounted, Includes Spacers to Clear Bumper Access Holes
BRACKET, CAB MOUNT Heavy Duty
AXLE, FRONT NON-DRIVING Wide Track, I-Beam Type, 16,000-lb Capacity
Notes: The following features should be considered when calculating Front GAWR: Front Axles; Front Suspension; Brake System; Brakes, Front Air Cam; Wheels; Tires.
SUSPENSION, FRONT, SPRING Parabolic, Taper Leaf; 16,000-lb Capacity; With Shock Absorbers Includes:: SPRING PINS Rubber Bushings, Maintenance-Free
Notes: The following features should be considered when calculating Front GAWR: Front Axles; Front Suspension; Brake System; Brakes, Front Air Cam; Wheels; Tires.
BRAKE SYSTEM, AIR Dual System for Straight Truck Applications
Includes
: BRAKE LINES Color and Size Coded Nylon
: DRAIN VALVE Twist-Type
: DUST SHIELDS, FRONT BRAKE
: DUST SHIELDS, REAR BRAKE
: GAUGE, AIR PRESSURE (2) Air 1 and Air 2 Gauges; Located in Instrument Cluster
: PARKING BRAKE CONTROL Yellow Knob, Located on Instrument Panel
: PARKING BRAKE VALVE For Truck
: QUICK RELEASE VALVE Bendix On Rear Axle for Spring Brake Release: 1 for 4x2, 2 for 6x4
: SLACK ADJUSTERS, FRONT Automatic
: SLACK ADJUSTERS, REAR Automatic
: SPRING BRAKE MODULATOR VALVE R-7 for 4x2, SR-7 with relay valve for 6x4
Notes
: Rear Axle is Limited to 23,000-lb GAWR with Code 04091 BRAKE SYSTEM, AIR and Standard Rear Air Cam Brakes Regardless of Axle/Suspension Ordered.
BRAKES, FRONT, AIR CAM 16.5" x 6", Includes 24 Sqli Long Stroke Brake Chambers
Notes
: The following features should be considered when calculating Front GAWR: Front Axles; Front Suspension; Brake System; Brakes, Front Air Cam; Wheels; Tires.
DRAIN VALVE Automatic; With Heater; for Air Tank
Includes: DRAIN VALVE Mounted in Wet Tank
BRAKE SHOES, REAR Cast
Notes
: Provides Rear Axle GAWR Up to 26,000-Lb.
: The following features should be considered when calculating Rear GAWR: Rear Axles; Rear Suspension; Brake System; Brakes, Rear Air Cam; Brake Shoes, Rear; Special Rating, GAWR; Wheels; Tires.
AIR BRAKE: ABS: Full Vehicle Wheel Control System (4-Channel)
AIR DRYER With Heaters Includes: AIR DRYER LOCATION Inside Left Rail, Back of Cab
BRAKE CHAMBERS, FRONT AXLE 24 Sqli
BRAKE CHAMBERS, REAR AXLE 30/30 Spring Brake 010 a

Include: BRAKE CHAMBERS, SPRING (2) Rear Parking; WITH TRUCK BRAKES: All 4x2, 4x4; WITH TRACTOR BRAKES: All 4x2, 4x4; 6x4 & 6x6 with Rear Tandem Axles
 Less Than 46,000-lb. or GVWR Less Than 54,000-lb.
 SLACK ADJUSTERS, FRONT Automatic
 SLACK ADJUSTERS, REAR Automatic
 BRAKES, REAR, AIR CAM S-Cam; 16.5" x 7.0"; Includes 3~3/3~ Sq In. Long Stroke
 Brake Chamber and Spring Actuated Parking Brake
 Notes: The following features should be considered when calculating Rear GAWR: Rear Axles; Rear Suspension; Brake System; Brakes, Rear Air Cam; Brake Shoes, Rear; Special Rating, GAWR; Wheels; Tires.
 AIR COMPRESSOR {Bendix Tu-Flo 750} 16.5 CFM Capacity
 AIR TANK LOCATION (2) : Two Mounted Left Side BOC Under Battery Box
 BRAKE CHAMBERS, SPRING Forward of 4x2 for Reyco & Vari-Rate suspension for: Asphalt Spreader/Paver applications
 STEERING COLUMN Tilting .
 STEERING WHEEL 2-Spoke, 18" Diam., Black
 STEERING GEAR (2) {Sheppard *M-100/M-BO*} Dual Power 122/-3 119
 EXHAUST SYSTEM Single, Vertical Aftertreatment Device Frame Mounted Right Side; Includes Vertical Tail Pipe & Guard Includes: EXHAUST HEIGHT 10' Exhaust Height - Based on Empty Chassis with Standard Components (+ or - 1" Height) : MUFFLERfTAIL PIPE GUARD Non-Bright Finish
 ENGINE COMPRESSION BRAKE for MaxxFORCE 16 Engines; Electronically Activated
 RAIN CAP With Single Exhaust. Non-Bright Finish
 SWITCH, FOR EXHAUST 2 Position, Lighted & Latching, ON/OFF Type, Mounted in IP, Inhibits Diesel Particulate Filter Regeneration as Long as Switch is in ON Position
 ELECTRICAL SYSTEM 12-Volt. Standard Equipment
 Includes
 : BATTERY BOX Steel with Plastic Lid
 : DATA LINK CONNECTOR For Vehicle Programming and Diagnostics In Cab
 : FUSES, ELECTRICAL SAE Blade-Type
 : HAZARD SWITCH Push On/Push Off, Located on Top of Steering Column Cover
 : HEADLIGHT DIMMER SWITCH Integral with Turn Signal Lever
 : HEADLIGHTS (2) Sealed Beam, Round, with Chrome Plated Bezels
 : HORN, ELECTRIC Single
 : JUMP START STUD Located on Positive Terminal of Outermost Battery
 : PARKING LIGHT Integral with Front Turn Signal and Rear Tail Light
 : RUNNING LIGHT (2) Daytime, Included With Headlights
 : STARTER SWITCH Electric, Key Operated
 : STOP, TURN, TAIL & BIU LIGHTS Dual, Rear, Combination with Reflector
 : TURN SIGNAL SWITCH Self-Cancelling for Trucks, Manual Cancelling for Tractors, with Lane Change Feature
 : TURN SIGNALS, FRONT Includes Reflectors and Auxiliary Side Turn Signals, Solid State Flashers; Flush Mounted
 : WINDSHIELD WIPER SWITCH 2-Speed with Wash and Intermittent Feature (5 Pre-Set Delays), Integral with Turn Signal Lever
 : WINDSHIELD WIPERS Single Motor, Electric, Cowl Mounted
 : WIRING, CHASSIS Color Coded and Continuously Numbered
 CIGAR LIGHTER Includes Ash Cup
 ALTERNATOR Brush Type, 12 Volt 160Amp. Capacity, Pad.Mount
 BODY BUILDER WIRING To Rear of Frame, With Stop, Tail, Turn, and Marker Lights Circuits, Ignition Controlled Auxiliary Feed and Ground, Less Trailer Socket
 BATTERY SYSTEM {International} Maintenance-Free, (3) 12-Volt 1950CCA Total

RADIO } AM/FM Premium Stereo, With CD Player, Weatherband,
Clock, Front & Rear Aux Input, USB Port, and Multiple Speakers, Includes iPod
Command and Control

Includes

: SPEAKERS IN CAB (2) Coaxial with Deluxe Interior

: SPEAKERS IN CAB (4) Coaxial with Premium Interior

STARTING MOTOR 12 Volt; Less Thermal Over-Crank -Protection

BATTERY BOX Steel with Plastic Cover, 25" Wide, 2 or 3 Battery Capacity,
Mounted 36" Back of Cab on Left Rail

INDICATOR, LOW COOLANT LEVEL With Audible Alarm

CIRCUIT BREAKERS Manual-Reset (Main Panel) SAE Type III With Trip

Indicators, Replaces All Fuses Except For 5-Amp Fuses

INSULATION, UNDER HOOD for Sound Abatement

GRILLE Stationary, Chrome

INSULATION, SPLASH PANELS for Sound Abatement

FRONT END Tilting, Fiberglass, With Three Piece Construction

PAINT SCHEMATIC, Single Color, Design

Includes

PAINT SCHEMATIC ID LETTERS "GN"

PAINT TYPE Base Coat/Clear Coat, 1-2 Tone

SAFETY TRIANGLES

CLUTCH Omit Item (Clutch & Control)

OIL FILTER, ENGINE {Hudgins Model 960 Spinner}

PTO EFFECTS, ENGINE FRONT Less PTO Unit, Includes Adapter Plate on
Engine Front Mounted

BLOCK HEATER, ENGINE 120 Vol/1250 Watt Includes

BLOCK HEATER SOCKET Receptacle Type; Mounted below Drivers Door

ENGINE, DIESEL EPA 10, 300 HP @ 2000 RPM, 860 Ib-ft Torque@ 1200 RPM, 2200 RPM Governed
Speed

Includes: AIR COMPRESSOR AIR SUPPLY LINE Naturally-Aspirated (Air Brake Chassis
Only)

ANTI-FREEZE Red Shell Rotella Extended Life Coolant; -40 Degrees F/-40

Degrees C; for MaxxForce Engines

COLD STARTING EQUIPMENT Intake Manifold Electric Grid Heater with Engine
ECM Control

: CRUISE CONTROL Electronic; Controls Integral to Steering Wheel

: ENGINE OIL DRAIN PLUG Magnetic

: ENGINE SHUTDOWN Electric, Key Operated

: FUEL FILTER Included with Fuel/Water Separator

: FUEL/WATER SEPARATOR Fuel/Water Separator and Fuel Filter in a Single
Assembly; With Water-in-Fuel Sensor; Engine Mounted

: GOVERNOR Electronic

: OIL FILTER. ENGINE Spin-On Type

: WET TYPE CYLINDER SLEEVES

FAN DRIVE :Direct Drive Type, Two Speed, With Residual Torque Device for Disengaged Fan Speed

Includes

: FAN Nylon

RADIATOR: Aluminum, Cross Flow, Series System; 1228 SqIn Core and 648 SqIn
Charge Air Cooler and 342 Sq.In Low Temperature Radiator w/Surge Tank

HOSE CLAMPS, RADIATOR HOSES Gates Shrink Band Type; Thermoplastic
Coolant Hose Clamps

RADIATOR HOSES Premium, Rubber

FEDERAL EMISSIONS: meets all requirements

AIR CLEANER Dual Element, With Integral Pre Cleaner

Includes

GAUGE, AIR CLEANER RESTRICTION Air Cleaner Mounted

THROTTLE, HAND CONTROL Engine Speed Control for PTO; Electronic,

Stationary Pre-Set, Two Speed Settings; Mounted on Steering Wheel

ENGINE CONTROL, REMOTE MOUNTED Provision for; Includes Wiring for Body

Builder Installation of PTO Controls; With Ignition Switch Control for MaxxFlex

post 2007 Emissions Electronic Engines

EMISSION COMPLIANCE Federal, Does Not Comply With California Clean Air Idle Regulations

AUTOMATIC NEUTRAL Allison WT, Transmission Shifts to Neutral When Parking Brake is Engaged

TRANSMISSION, AUTOMATIC;4tl1 Generation Controls; 185/49 234

Wide Ratio, 6-Speed, With Double Overdrive; Refuse/Mixer; Includes Oil Level

Sensor, With PTO PrOVision, Less Retarder. With 60,000-lb GVW Max.

Includes

: OIL FILTER, TRANSMISSION Mounted on Transmission

: TRANSMISSION OIL PAN Magnet in Oil Pan

OIL COOLER, AUTO TRANSMISSION {Modine} Water to Oil, for Allison or

CEEMAT Transmission

TRANSMISSION SHIFT CONTROL {Allison} Push-Button Type; for Allison 3000

& 4000 Series Transmission

13WLP TRANSMISSION OIL Synthetic; 29 thru 42 Pints 13WUJ ALLISON SPARE INPUT/OUTPUT

for Rugged Duty Series (RDS); Front LoadersRear Loaders, Recycling/Packer Trucks

SHIFT CONTROL PARAMETERS Allison Performance Programming in Primary and Allison Economy Programming in Secondary

14ASA AXLE, REAR, SINGLE {Meritor RS-26-185} Single Reduction, Standard Track, 26,000-lb

Capacity, R Wheel Ends, Driver Controlled Locking Differential. Gear

Ratio: 5.63

Includes

REAR AXLE DRAIN PLUG (1) Magnetic, For Single Rear Axle

Notes

: The following features should be considered when calculating Rear GAWR: Rear

Axles; Rear Suspension; Brake System; Brakes, Rear Air Cam; Brake Shoes, Rear;

Special Rating, GAWR; Wheels; Tires.

: When Specifying Axle Ratio, Check Performance Guidelines and TCAPE for Startability and

Performance

SUSPENSION, RR, SPRING, SINGLE Vari-Rate; 31,000-lb Capacity; Includes (3) Torque Rods

Notes:

The following features should be considered when calculating Rear GAWR: Rear

Axles; Rear Suspension; Brake System; Brakes, Rear Air Cam; Brake Shoes, Rear;

Special Rating, GAWR; Wheels; Tires.

FUEL TANK Top Draw; 0 Style, Non Polished Aluminum, 80 U.S. Gal., 303 L -

Capacity, 23.0" Tank Depth, Mounted Left Side Under Cab

CAB Conventional Includes

: ARM REST (2) Molded Plastic; One Each Door

: CLEARANCE/MARKER LIGHTS (5) Flush Mounted

: COAT HOOK, CAB Located on Rear Wall, Centered Above Rear Window

: CUP HOLDERS Two Cup Holders, Located in Lower Center of Instrument Panel

: DOME LIGHT, CAB Rectangular, Door Activated and Push On-Off at Light Lens,

Timed Theater Dimming, Integral to Console, Center Mounted

: GLASS, ALL WINDOWS Tinted

: GRAB HANDLE, CAB INTERIOR (1) "A" Pillar Mounted, Passenger Side

: GRAB HANDLE, CAB INTERIOR (2) Front of "6" Pillar Mounted, One Each Side

: INTERIOR SHEET METAL Upper Door (Above Window Ledge) Painted Exterior Color

: STEP (4) Two Steps Per Door

GAUGE CLUSTER English With English Electronic Speedometer

Includes

GAUGE CLUSTER (6) Engine Oil Pressure (Electronic), Water Temperature (Electronic), Fuel (Electronic), Tachometer (Electronic), Voltmeter, Washer Fluid Level ODOMETER DISPLAY, Miles, Trip Miles, Engine Hours, Trip Hours, Fault Code

Readout

WARNING SYSTEM Low Fuel, Low Oil Pressure, High Engine Coolant Temp, and Low Battery Voltage (Visual and Audible)

GAUGE, OIL TEMP, ALLISON TRAN

GAUGE, AIR CLEANER RESTRICTION {Filter-Minder} With Black Bezel Mounted in Instrument Panel

CLUSTER DISPLAY On Board Diagnostics Display of Fault Codes in Gauge Cluster

SEAT, DRIVER {National 2000} Air Suspension, High Back With Integral Headrest, Vinyl, Isolator, 1 Chamber Lumbar, With 2 Position Front Cushion Adjust, -3 to +14 Degree Angle Back Adjust

Includes

SEAT BELT 3-Point, Lap and Shoulder Belt Type

SEAT, PASSENGER {National 2000} Air Suspension, High Back With Integral Headrest, Vinyl, Isolated, 1 Chamber Lumbar, 2 Position Front Cushion, Adjustment, -3 to +14 Degree Back Adjust

Includes

SEAT BELT 3-Point, Lap and Shoulder Belt Type

MIRRORS (2) {Lang Mekra} Styled; Rectangular, 7.09" x 15.75" & Integral Convex Both Sides, 102" Inside Spacing, Breakaway Type, Heated Heads Thermostatically Controlled, Power Both Sides, Clearance Lights LED, Bright Finish Heads & Brackets

ACCESS, CAB Driver & Passenger Sides, With Two Temporary Steps on the Passenger side, for Conventional Cab

CONTROLS, CENTER PANEL Includes Ignition Switch, Headlights and Power Mirror Controls Located in Center Panel

AIR CONDITIONER: With Integral Heater & Defroster Includes

HEATER HOSES Premium

HOSE CLAMPS, HEATER HOSE Constant Tension Clamps

REFRIGERANT Hydrofluorocarbon HFC-134A

INSTRUMENT PANEL Center Section, Flat Panel

HVAC FRESH AIR FILTER

FRESH AIR FILTER Attached to Air Intake Cover on Cowl Tray in Front of Windshield Under Hood

CAB INTERIOR TRIM Deluxe

Includes

"A" PILLAR COVER Molded Plastic

CAB INTERIOR TRIM PANELS Cloth Covered Molded Plastic, Full Height; All Exposed Interior Sheet Metal is Covered Except for the Following: with a Two-Man Passenger Seat or with a Full Bench Seat the Back Panel is Completely Void of Covering

CONSOLE, OVERHEAD Molded Plastic; With Dual Storage Pockets with Retainer Nets and CB Radio Pocket

DOOR TRIM PANELS Molded Plastic; Driver and Passenger Doors

FLOOR COVERING Rubber, Black

HEADLINER Soft Padded Cloth

INSTRUMENT PANEL TRIM Molded Plastic with Black Center Section

STORAGE POCKET, DOOR (1) Molded Plastic, Full-Length; Driver Door

SUN VISOR (2) Padded Vinyl with Driver Side Toll Ticket Strap, Integral to Console

CAB REAR SUSPENSION Air Bag Type

WHEELS, FRONT DISC; 22.5" Non-Polished Aluminum, 10-Stud (285.75MM BC)
Hub Piloted, Flanged Nut, Metric Mount, 9.00 DC Rims; With Steel Hubs

Notes

: Aluminum Wheels not Painted or Coated

: Compatible Tire Sizes: 12R22.5, 295/75R22.5, 295/80R22.5, 315/80R22.5

28DRN WHEELS, REAR DUAL DISC; 22.5" Painted Steel, 5 Hand Hole, 10-Stud (285.75MM BC) Hub
Piloted, Flanged Nut, Metric Mount, 8.25 DC Rims; With .472"

Thick Increased Capacity Disc and Steel Hubs

Includes

:PAINT IDENTITY, REAR WHEELS White

Notes

: Compatible Tire Sizes: 11 R22.5. 12R22.5, 255/70R22.5, 255/80R22.5,

265/75R22.5, 275/70R22.5. 275/80R22.5, 295/75R22.5, 295/S0R22,5

7392155406 (4) TIRE, REAR 12R22.S HDR (CONTINENTAL) 481 rev/mile, load range H, ply

7792545416 (2) TIRE, FRONT 315/80R22.5 HSU2+ (CONTINENTAL) 481 rev/mile, load range L, 20ply

The weight calculations included in this proposal are an estimate of future vehicle weight. The actual
Weight may be different from the estimated weight.

Dual sit down drive option required including:

1. Dual steering with integral column and shaft guards
2. LH tilt steering is retained
3. RH tilt steering is included
4. Dual OEM accelerator, brake, and turn signal controls
5. Automatic transmission shifter and headlight switch relocated to center of dash
6. RH auxiliary OEM instrument panel
7. Dual center mounted cup holders

*Please note these are minimum specifications for the unit to be purchased.

YES NO OFFERED

1- Body capacity

The minimum capacity of the body, excluding hopper area is:	20 cu.yd	<input type="checkbox"/>	<input type="checkbox"/>	_____
The capacity of the tailgate is:	4 cu.yd	<input type="checkbox"/>	<input type="checkbox"/>	_____
Hopper capacity is:	6.5 cu.yd	<input type="checkbox"/>	<input type="checkbox"/>	_____

2- Body dimensions

The body is rounded to permit a maximum capacity.		<input type="checkbox"/>	<input type="checkbox"/>	_____
The body is taper to facilitate the unloading of the material and to increase compaction ratio.		<input type="checkbox"/>	<input type="checkbox"/>	_____
The total taper dimension of the body sides is:	7.325 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
The inside body width at front is:	78 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
The inside body width at rear is:	85.325 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
The outside body width is:	96 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
The inside body height at front is:	89 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
The inside body height at rear is:	91.625 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
The height tapering is:	2.625 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
The outside body height above frame is:	103 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
The overall length including hopper is:	256 in	<input type="checkbox"/>	<input type="checkbox"/>	_____

3- Floor construction

The hopper floor is made of abrasion resistant steel.		<input type="checkbox"/>	<input type="checkbox"/>	_____
The hopper floor steel grade is:	Hardox 450	<input type="checkbox"/>	<input type="checkbox"/>	_____
The hopper floor thickness is:	1/4 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
The hopper floor yield strength is:	175,000 psi	<input type="checkbox"/>	<input type="checkbox"/>	_____
The body floor is rounded.		<input type="checkbox"/>	<input type="checkbox"/>	_____
The body floor thickness is:	0.157 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
The body floor steel grade is:	Hardox 450	<input type="checkbox"/>	<input type="checkbox"/>	_____
The body floor yield strength is:	175,000 psi	<input type="checkbox"/>	<input type="checkbox"/>	_____
The body long sills dimensions are:	HSS tubing 8 x 2 x 3/8 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
The body long sills yield strength is:	50,000 psi	<input type="checkbox"/>	<input type="checkbox"/>	_____
The hopper sump box volume is:	30.7 gal	<input type="checkbox"/>	<input type="checkbox"/>	_____
The hopper sump box dimensions are:	14 X 6 X 87 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Crossmember thickness is:	0.250 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Crossmember steel grade is:	CSA G40.21 50W	<input type="checkbox"/>	<input type="checkbox"/>	_____
Crossmember dimensions are:	6 5/16 x 2 15/16 x 6 5/1 in	<input type="checkbox"/>	<input type="checkbox"/>	_____

YES NO OFFERED

6- Hopper

Hopper depth curbside is:	56 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Hopper depth streetside is:	70 ½ in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Hopper length is:	69 ½ in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Hopper width is:	66 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Follower panels thickness is:	3/16 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Follower panels steel grade is:	AR200	<input type="checkbox"/>	<input type="checkbox"/>	_____

7- Rear tailgate

The rear tailgate is hydraulically operated, bustle type with an automatic lock mechanism and hydraulic safety locks.		<input type="checkbox"/>	<input type="checkbox"/>	_____
The tailgate is operated by 2 cylinders.		<input type="checkbox"/>	<input type="checkbox"/>	_____
Tailgate hydraulic line is equipped with flow restrictor to prevent sudden descent.		<input type="checkbox"/>	<input type="checkbox"/>	_____
A rubber seal is installed on the tailgate to prevent liquid leakage and banging on back of body.		<input type="checkbox"/>	<input type="checkbox"/>	_____
The tailgate pivot around a fixed point preventing seal damage.		<input type="checkbox"/>	<input type="checkbox"/>	_____
A cab mounted audible alarm is provided to indicate when the tailgate is unlocked.		<input type="checkbox"/>	<input type="checkbox"/>	_____
A manual control with safety lock is installed in the cab to prevent accidental activation.		<input type="checkbox"/>	<input type="checkbox"/>	_____
Tailgate safety prop is provided.		<input type="checkbox"/>	<input type="checkbox"/>	_____
Tailgate length is:	33 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Tailgate side and rear thickness is:	12 ga	<input type="checkbox"/>	<input type="checkbox"/>	_____
The tailgate side and rear steel is:	ASTM A1011 GR 80	<input type="checkbox"/>	<input type="checkbox"/>	_____
The tailgate side and rear yield strength is:	80 000 psi	<input type="checkbox"/>	<input type="checkbox"/>	_____
Tailgate cylinders are:	Chrome-plated	<input type="checkbox"/>	<input type="checkbox"/>	_____
Tailgate cylinders bore diameter is:	2½ in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Tailgate cylinders rod diameter is:	1¾ in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Tailgate cylinders stroke is:	39 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Tailgate cycle time at idle is:	55 sec	<input type="checkbox"/>	<input type="checkbox"/>	_____
Tailgate side framing steel is:	AR200	<input type="checkbox"/>	<input type="checkbox"/>	_____
Tailgate side framing thickness is:	0.188	<input type="checkbox"/>	<input type="checkbox"/>	_____
Tailgate side framing is:	2 x 5 x 2 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Tailgate top framing steel is:	HSS tubing	<input type="checkbox"/>	<input type="checkbox"/>	_____
Tailgate top framing is:	4 X 4 X 3/16 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Tailgate bottom framing steel is:	HSS tubing	<input type="checkbox"/>	<input type="checkbox"/>	_____
Tailgate bottom framing is:	7 X 3 X 1/4 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Tailgate hinge pins diameter is:	1 1/4 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Tailgate rubber seal height is:	30 in	<input type="checkbox"/>	<input type="checkbox"/>	_____

YES NO OFFERED

8- Packer

The packer is 24" high providing 75 400 lbs of force on material, ensuring efficient packing.		<input type="checkbox"/>	<input type="checkbox"/>	_____
The packer is unitized, integral with body.		<input type="checkbox"/>	<input type="checkbox"/>	_____
Packer is operated by 2 cylinders.		<input type="checkbox"/>	<input type="checkbox"/>	_____
Packer is reinforced with a combination of structural members for maximum rigidity.		<input type="checkbox"/>	<input type="checkbox"/>	_____
Packer controls consist of start, retract and emergency stop.		<input type="checkbox"/>	<input type="checkbox"/>	_____
Emergency red button is provided to stop packer ram movement at any time.		<input type="checkbox"/>	<input type="checkbox"/>	_____
One complete set of packer controls located in cab is provided.		<input type="checkbox"/>	<input type="checkbox"/>	_____
Control buttons are heavy duty, industrial type, color coded, corrosion proof and weather resistant.		<input type="checkbox"/>	<input type="checkbox"/>	_____
The packer is guided by 2 rails in which wear plates are made of steel grade:	Hardox 500	<input type="checkbox"/>	<input type="checkbox"/>	_____
Wear plates thickness is:	1/4 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Rail dimensions are:	3 1/2 x 2 3/16 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Packer wear shoes steel grade is:	Hardox 450	<input type="checkbox"/>	<input type="checkbox"/>	_____
Packer wear shoes thickness is:	3/8	<input type="checkbox"/>	<input type="checkbox"/>	_____
Packer cylinders rods are:	Chrome-plated	<input type="checkbox"/>	<input type="checkbox"/>	_____
Cylinder bore diameter is:	4 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Cylinder rod diameter is:	2 1/2 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Cylinder stroke is:	40 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Maximum operation pressure:	2000 psi	<input type="checkbox"/>	<input type="checkbox"/>	_____
Maximum compaction of refuse is:	650 lbs/cu.yd	<input type="checkbox"/>	<input type="checkbox"/>	_____
Packing force:	66,750 lbf	<input type="checkbox"/>	<input type="checkbox"/>	_____
Cylinder force:	75,400 lbf	<input type="checkbox"/>	<input type="checkbox"/>	_____
Inside width of packing ram is:	65 1/2 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Inside height of packing ram is:	24 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Packing ram stroke is:	52 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Packing ram top steel grade is:	CSA G40.21 100QT	<input type="checkbox"/>	<input type="checkbox"/>	_____
Packing ram top thickness is:	1/4 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Packing ram top yield strength is:	100000 psi	<input type="checkbox"/>	<input type="checkbox"/>	_____
Packing face plate steel grade is:	CSA G40.21 100QT	<input type="checkbox"/>	<input type="checkbox"/>	_____
Packing face plate thickness is:	1/4 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Packing face plate yield strength is:	100,000 psi	<input type="checkbox"/>	<input type="checkbox"/>	_____
Packing ram swept volume is:	1.75 cu.yd	<input type="checkbox"/>	<input type="checkbox"/>	_____
Penetration of the ram into body is:	6 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Packer ram cycle time @1200rpm is:	14 sec	<input type="checkbox"/>	<input type="checkbox"/>	_____
Packer length (including following panels)	55 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Red packer buttons diameter is:	2 3/4 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Others packer buttons diameter is:	1 9/16 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Packer pins diameter is:	1 1/4 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Packer pins steel grade is:	HR 1045	<input type="checkbox"/>	<input type="checkbox"/>	_____

YES NO OFFERED

10- Cart lifting mechanism "RIGHT-HAND" 32 to 95 gal

Arm is attached under body to ease chassis serviceability.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Arm grease points allows easy and reliable automatic greasing system (grabber pivots, horizontal roller bearings).		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Extension rails are activated by 2 cylinders.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Extension rails cylinders are clevis mounted at base.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Two leveling rods ensure stable displacement and rotation above hopper.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Leveling rods have spherical bushing at both ends for better durability.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Leveling rods are adjustable in length to modify grabber angle.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Grab clamps shall be actuated by two hydraulic cylinders and shall use high friction rubber replaceable blocks on grab leaf to enable loading of a wide range of wheeled carts:		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Arm valves are three position type. Arm valves are on the side of the body for more protection than on side of chassis.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Holding valves are installed to prevent any uncommanded moves.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Grabber has an automatic closing when dumping to prevent cart slipping and collision with hopper.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Arm has two limit switches for hopper/side cameras automatic switching		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Arm and grabber are painted safety yellow.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Joystick has three functions to control each arm movement, Joystick will also control chute position if equipped and has a deadman switch for additional safety.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Arm C-rail extension steel is:	A709	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Arm C-rail extension yield strength is:	36000 psi	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Arm I-rail extension steel is:	ASTM A36	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Arm I-rail extension yield strength is:	100000 psi	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Arm lift frame steel is:	A709	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Arm lift frame yield strength is:	36000 psi	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Extension rails cylinders diameter is:	1.5 in	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Extension rails cylinders rod diameter is:	1 in	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Extension rails cylinders stroke is:	54 in	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Extension rails cylinders rod are 2 axles mounted and are:	Chrome-plated	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lifting cylinder diameter is:	3 in	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lifting cylinder rod diameter is:	1.5 in	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lifting cylinder stroke is:	16 in	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lifting cylinder rod is:	Chrome-plated	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lifting chains type & lacing are:	Leaf, 3x4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Main arm shaft diameter is:	2.5 in	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Inner tube wear pads are:	UHMW	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Grabber cylinders diameter is:	1.5 in	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Grabber cylinders rod diameter is:	1 in	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Grabber cylinders stroke is:	5 in	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Grabber cylinders rods are:	Chrome-plated	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lifting device minimum bin size is:	36 gal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lifting device maximum bin size is:	95 gal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Maximum lifting capacity of arm at maximum reach is:	600 lbs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Maximum lifting capacity of arm at minimum reach is:	600 lbs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

		YES	NO	OFFERED
Dump height is:	107-7/8 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Maximum horizontal reach (center of cart) is:	144 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Minimum horizontal reach is:	0 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Arm swing out effect is:	40-11/16 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Dump cycle time of arm at minimum reach is:	10 sec	<input type="checkbox"/>	<input type="checkbox"/>	_____
Dump cycle time of arm at maximum reach is:	20 sec	<input type="checkbox"/>	<input type="checkbox"/>	_____
Arm and valve stack weight (w/o oil and grabber) is:	1950 lbs	<input type="checkbox"/>	<input type="checkbox"/>	_____
Arm maximum operating pressure is:	2000 psi	<input type="checkbox"/>	<input type="checkbox"/>	_____
Grabber maximum operating pressure is:	1200 psi	<input type="checkbox"/>	<input type="checkbox"/>	_____
Extension and lifting arm valves are:	Proportional	<input type="checkbox"/>	<input type="checkbox"/>	_____
Grabber valves are:	On/Off type	<input type="checkbox"/>	<input type="checkbox"/>	_____
Arm is controled by:	Joystick	<input type="checkbox"/>	<input type="checkbox"/>	_____
Arm and cylinders warranty is:	1 Year	<input type="checkbox"/>	<input type="checkbox"/>	_____
Arm safety valve (relief valve) pressure setting is:	2100 psi	<input type="checkbox"/>	<input type="checkbox"/>	_____

		YES	NO	OFFERED
cylinders. Cylinders diameter shall be:	1.5 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Extension cylinder rod diameter shall be:	1 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Extension cylinder stroke shall be:	54 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Extension cylinders shall be mounted on a single pivot at the cylinder end and tripple pivot at the rod end:	Nitrated	<input type="checkbox"/>	<input type="checkbox"/>	_____
Lifting cylinder diameter shall be:	3 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Lifting cylinder stroke shall be:	16 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Lifting cylinder rod diameter shall be:	1½ in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Lifting chains type & lacing are:	Leaf, 6x6	<input type="checkbox"/>	<input type="checkbox"/>	_____
Main arm shaft diameter is:	4 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Inner tube wear pads are:	Nyloil	<input type="checkbox"/>	<input type="checkbox"/>	_____
The grab clamps cylinders diameter shall be:	1½ in	<input type="checkbox"/>	<input type="checkbox"/>	_____
The grab clamps cylinders stroke shall be:	5 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
The grab clamps cylinders rods diameter shall be:	1 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
The grab clamps cylinders rods shall be:	Chromed	<input type="checkbox"/>	<input type="checkbox"/>	_____
Minimum bin size of the lifting mechanism shall be:	36 gal	<input type="checkbox"/>	<input type="checkbox"/>	_____
Maximum bin size of the lifting mechanism shall be:	300 gal	<input type="checkbox"/>	<input type="checkbox"/>	_____
Maximum lifting capacity at maximum reach shall be:	1 000 lbs	<input type="checkbox"/>	<input type="checkbox"/>	_____
Maximum lifting capacity at minimum reach shall be:	1 000 lbs	<input type="checkbox"/>	<input type="checkbox"/>	_____
Vertical dump height shall be:	107-7/8 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Maximum horizontal reach from side of vehicle to center of cart shall be:	144 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Minimum horizontal reach from side of vehicle to front of cart shall be:	0 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
The swing-out of container while lifting shall be:	41 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Cycle time at minimum reach shall be:	10 sec	<input type="checkbox"/>	<input type="checkbox"/>	_____
Cycle time at maximum reach shall be:	20 sec	<input type="checkbox"/>	<input type="checkbox"/>	_____
Arm weight, including hydraulic valve shall be:	1 850 lbs	<input type="checkbox"/>	<input type="checkbox"/>	_____
Maximum arm hydraulic pressure shall be:	2 500 psi	<input type="checkbox"/>	<input type="checkbox"/>	_____
Maximum grab operating pressure shall be:	2 100 psi	<input type="checkbox"/>	<input type="checkbox"/>	_____
Length of warranty on arm shall not be less than:	1 year	<input type="checkbox"/>	<input type="checkbox"/>	_____
Hydraulic system pressure relief valve for the arm shall be:	2 500 psi	<input type="checkbox"/>	<input type="checkbox"/>	_____
The dump angle of container shall be:	47 deg	<input type="checkbox"/>	<input type="checkbox"/>	_____
The hopper door dimensions shall be:	26¼ X 41¼ in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Packer cycle time, engine at idle, with arm in operation shall be:	20 sec	<input type="checkbox"/>	<input type="checkbox"/>	_____

11- Body lifting mechanism

The hoist cylinder is front mounted with outer cover and bottom lifting for greater stability of the tipped body.	<input type="checkbox"/>	<input type="checkbox"/>	_____
Safety prop is supplied to support the body in the raised position.	<input type="checkbox"/>	<input type="checkbox"/>	_____
Body is raised by one single acting front mounted			

YES NO OFFERED

telescopic cylinder with:	4 section	<input type="checkbox"/>	<input type="checkbox"/>	_____
Cylinder has a stroke of:	150 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Body cylinder bore diameter is:	6 1/2 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Body cylinder is:	Salt bath Nitriding	<input type="checkbox"/>	<input type="checkbox"/>	_____
Body dump angle is:	45 deg	<input type="checkbox"/>	<input type="checkbox"/>	_____

12- Crusher panel

Optional

A crusher panel is installed on the front wall of the body to optimize the compaction of the material and to facilitate the transfer into the body.

Crusher panel steel grade is:	A-569	<input type="checkbox"/>	<input type="checkbox"/>	_____
Crusher panel thickness is:	3/16 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Crusher panel dimensions for standard body are:	54 x 38 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Crusher panel dimensions for split body are:	36 x 18 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Crusher panel is operated by 1 cylinder.		<input type="checkbox"/>	<input type="checkbox"/>	_____
Crusher panel cylinder rod is:	Chrome-plated	<input type="checkbox"/>	<input type="checkbox"/>	_____
Crusher panel cylinder bore diameter is:	2 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Crusher panel cylinder rod diameter is:	1 1/2 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Crusher panel cylinder stroke is:	14 1/2 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Hydraulic protection is supplied to prevent packing on top of the ram.		<input type="checkbox"/>	<input type="checkbox"/>	_____
Crusher panel cylinder pins steel is:	Cold-roll Stressproof	<input type="checkbox"/>	<input type="checkbox"/>	_____
Crusher panel cylinder pins diameter:	1 in	<input type="checkbox"/>	<input type="checkbox"/>	_____

13- Electrical/Pneumatic systems

All stop, directional, tail and clearance lights are led lights, Truck-Lite Easy Seal, recessed mount and watertight or equivalent.

All lights are provided following FMVSS #108.	<input type="checkbox"/>	<input type="checkbox"/>	_____
Rear lights are integrated to tailgate structure.	<input type="checkbox"/>	<input type="checkbox"/>	_____
Back-up alarm is provided.	<input type="checkbox"/>	<input type="checkbox"/>	_____

Limit switches are heavy duty, industrial type, water tight with adjustable arm and overtravel to prevent damage.

<input type="checkbox"/>	<input type="checkbox"/>	_____
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All circuits are properly fused and wiring is color coded and numbered.

<input type="checkbox"/>	<input type="checkbox"/>	_____
<input type="checkbox"/>	<input type="checkbox"/>	_____

Wiring conforms to SAE J1128.

Wiring connections with shrink tube and at some places, blue crimp sealed with epoxy.

<input type="checkbox"/>	<input type="checkbox"/>	_____
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All wiring run in plastic loom.

<input type="checkbox"/>	<input type="checkbox"/>	_____
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Electrical/Pneumatic control valves are installed if present in a separate box on the side of the body to protect them from tree branches and weather conditions.

<input type="checkbox"/>	<input type="checkbox"/>	_____
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