

**REVISED BID PRICING FORM**

**FOB POINT**

The FOB Point, in terms of loss or damage, as well as where title to the goods is passed, shall be FOB - Destination.

**FREIGHT CHARGES**

Freight charges are to be included in the quoted price of the goods, rather than as a separate item unless otherwise noted.

**SPECIFICATIONS**

**Cab and Chassis**

	Minimum Specification	Does Not Meet Spec	Meets Spec	Exceeds Spec	Comments
<b>1</b>	<b>Engine</b>				
	Cummins ISL 9 engine, 350-370 HP, with current tier level requirements, <b>minimum 1150 torque</b>				
<b>2</b>	<b>Engine Equipment</b>				
	Engine shall be equipped with a dry type air cleaner				
	Engine shall be equipped with a 1250 watt, 120-volt block heater (minimum)				
	12V 150 AMP alternator (minimum)				
	2 -12V threaded stud batteries 1850 CCA minimum				
	Single battery box frame mounted LH under cab				
	Frame ground return for battery cables				
	Positive and negative posts for jumpstart mounted near/on battery tray/box				
	Electronic engine shutdown protection system				
	13.2 CFM minimum air compressor				
	Engine after treatment device, automatic over the road regeneration and dash mounted regeneration request switch				
	6 gallon diesel exhaust fluid tank				
	Exhaust appropriate for body configuration, up-fit and Federal regulations				
	Air operated fan clutch				
	Automatic control without dash switch				
	Aluminum radiator, 1200 sq inch minimum				
	Anti-freeze to -40F				
	Heavy duty coolant hoses				
	Air intake- pre-cleaner				
<b>3</b>	<b>Transmission and Equipment</b>				
	Allison <b>6-speed</b> 3000 RDS automatic transmission, with PTO provision				
	<b>WTEC-calibration-6 speed RDS/TRV</b>				
	Vehicle interface wiring and PDM with body builder connector back of cab w/ sealed connectors				
	Electronic transmission customer access connector firewall mounted				
	Water to oil transmission cooler, in radiator end tank				
	Indicator, low coolant level, with audible alarm				

	Minimum Specification	Does Not Meet Spec	Meets Spec	Exceeds Spec	Comments
	Magnetic plugs, engine drain, transmission drain, axles fill and drain				
	Push button, electronic shift control, dash mounted				
	Transmission oil check and fill w/ electronic oil level check; right side dipstick tube to accommodate PTO mounting				
	Synthetic transmission fluid				
<b>4</b>	<b>Front Axle and Suspension</b>				
	14,000 lb front axle (minimum)				
	16.5 x 5 Q+ cast spider cam front brakes				
	Non-asbestos front brake lining				
	Cast iron front brake drums				
	Standard spindle axle nuts for all axles				
	Automatic front slack adjusters				
	Power steering				
	14,000 lb front suspension leaf spring w/ maintenance free auxiliary rubber springs (minimum)				
	Heavy duty front shock absorbers				
<b>5</b>	<b>Rear Axle and Suspension</b>				
	23,000 lb rear axle (minimum)				
	23,000# flat leaf spring rear suspension with helper and radius rod				
	Driver actuated traction control, differential unlock with ignition off, active <5 MPH				
	Main driveline with half round yokes				
	16.5 x 7 Q+ cast spider cam rear brakes, double anchor				
	Brake cams and chambers on forward side of drive axle				
	Non-asbestos rear brake lining				
	Cast iron rear brake drums				
	Drive axle spring parking chambers				
	Automatic rear slack adjusters				
	6.14 rear axle ratio				
	Synthetic 75W-90 Rear Axle Lube				
<b>6</b>	<b>Brake System Equipment</b>				
	Air brake package				
	Cam type system				
	Air parking brake				
	Nylon air line, color and size coded				
	Standard brake system valves				
	Relay valve with 5-8 PSI crack pressure no rear-proportioning valve				
	AD-9 air dryer with heater, mounted inside frame rail				
	Pull cables on wet tank, petcocks on other air tanks				
	Front and Rear brake covers				
<b>7</b>	<b>Wheelbase and Frame</b>				
	Wheelbase sufficient for 14 foot chip box body				
	Square end of frame				

	Minimum Specification	Does Not Meet Spec	Meets Spec	Exceeds Spec	Comments
	Cab to axle = Must be compliant with body manufacturer requirements				
	Must be a clean CA chassis				
<b>8</b>	<b>Chassis Equipment</b>				
	One piece solid steel front bumper, w/ bumper mounting for license plate				
	<del>Mud flaps mounted to frame solid mount front and rear of rear wheels</del>				
	Grade Eight hex headed frame fasteners				
	Clear frame rails / <b>NO</b> protrusions outboard both frame rails BOC to front rear suspension bracket				
<b>9</b>	<b>Fuel Tank and Equipment</b>				
	50-gallon minimum rectangular aluminum fuel tank LH				
	Plain aluminum w/ painted bands				
	Fuel tank forward				
	Tank not to extend beyond rear of cab				
	Reinforced nylon fuel hose				
<b>10</b>	<b>Front Tires, Hubs, Wheels</b>				
	Two (2) – Michelin <del>11R22.5 – 16 ply</del> 315/80R22.5 18-ply tire				
	Cast iron front hubs				
	22.5x 8.25 10 stud- hub pilot steel disc front wheels				
<b>11</b>	<b>Rear Drive Tires, Hubs, Wheels</b>				
	Four (4) mud and snow rear Michelin 11R22.5 - 14 ply tires				
	Cast iron rear hubs				
	22.5x8.25 10 stud- hub pilot steel disc rear wheels				
<b>12</b>	<b>Cab Exterior</b>				
	Flat roof standard conventional cab				
	Cab air suspension				
	LH and RH exterior grab handles for three point contact				
	Dual electric horn				
	All locks keyed the same				
	Rear license plate mount at the end of frame				
	Integral headlight/marker assembly				
	(5) amber marker lights on cab, LED				
	Omit Stop/Tail/Backup lights and provide wiring with separate Stop/Tail/Turn/Backup light wires to 4' beyond end of frame				
	Standard front turn signal lamps				
	Dual heated West Coast mirrors with LH and RH remote, power adjustable 4-way				
	Door mounted mirrors				
	LH/RH 8" convex mirrors mounted under primary mirrors				
	Standard side/rear reflectors				
	Tinted rear window				
	Tinted door glass LH & RH with tinted non-operating wing windows				
	Manual door / window regulators				

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	Tinted windshield				
	Windshield washer fluid reservoir, 1 gallon minimum				
<b>13</b>	<b>Cab Interior</b>				
	Molded plastic door panels				
	Forward roof mounted console with upper storage compartments with netting				
	2-way radio compartment in overhead (radio will be installed locally)				
	Floor mats				
	(2) cup holders				
	2-1/2 lb. fire extinguisher				
	First aid kit				
	High output heater, defroster and air conditioner				
	Main HVAC controls with recirculation switch				
	Standard heater plumbing				
	High output air conditioning				
	Cab insulation				
	Circuit breakers-manual reset				
	Dome light with 3-way switch activated by left and right hand doors				
	Cab door latches with manual locks				
	LH and RH integral door panel arm rests				
	Bench Seat <b>with tool boxes underneath</b> - National, Cordura or equivalent, cloth, treated to resist stains				
	Driver's seat to be air ride <b>with box's underneath</b>				
	3 point fixed d-ring retractor driver and passenger seat belts				
	<b>Fixed Tilted</b> steering column				
	450MM (18") spoke steering wheel				
	Driver and passenger interior sun visor				
	Battery disconnect				
<b>14</b>	<b>Instrument Panel and Controls</b>				
	Low air pressure light and buzzer				
	Primary and secondary air pressure gauges. Intake mounted air restriction indicator without graduations				
	Back up alarm 97 db minimum				
	Cruise control, electronic, with switches on the dash/ steering wheel				
	Key operated ignition switch and integral start position; 4 position Off/Run/Start/Acc				
	4 keys required				
	ODO/Trip/Hour/Diagnostic/Voltage display				
	Diagnostic interface connector, <b>9-pin</b> , located below dash				
	Electric fuel gauge				
	Engine remote interface with park brake and neutral interlocks				
	Engine remote interface for remote throttle				
	Engine remote interface connector at back of cab				
	Electrical engine coolant temperature gauge				

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	Transmission oil temperature indicator light				
	Power outlet on dash				
	Test exterior lights- flashes exterior lights in sequence for driver pre-trip inspection				
	Engine and trip hour meters				
	Electric engine oil pressure gauge				
	Standard AM/FM radio; (2) radio speakers (cab only)				
	Electronic MPH speedometer with secondary KPH scale, without odometer				
	Electronic tachometer				
	Ignition controlled engine stop				
	Single windshield wiper motor with delay				
	Marker light switch integral with headlight switch				
	Self-cancel turn signal switch with dimmer, washer/wiper in handle				
	<b>Circuit Boss—Circuit Isolator # 70207 (7 circuits); Painless is the current product line we use configured as follows: Circuit 1-3—constant power Circuit 4-7—ignition powered Exact connection to particular component will be determined with successful bidder</b>				
	Integral electronic turn signal flasher				
<b>15</b>	<b>Paint Designs</b>				
	Paint: one solid color				
	Cab color Bright White from manufacturer standard color sheets, premium paint, base coat, e-coat, clear coat				
	Chassis: black, high solids polyurethane				
	Front wheels: powder coated white front wheels/rims, to resist corrosion				
	Rear wheels: powder coated white rear wheels/rims, to resist corrosion				
<b>16</b>	<b>Manuals</b>				
	Hard copy manuals; to include shop, parts, and operators manual for ALL systems, CD if available				
<b>17</b>	<b>Warranty</b>				
	Warranty will be the standard cab and chassis truck warranty provided by the truck manufacturer				
<b>18</b>	<b>Filter Log</b>				
	Successful bidder will provide a list of all filters used on the completed unit; list will indicate type of filter and part number				

### **Chipper Body**

	Minimum Specification	Does Not Meet Spec	Meets Spec	Exceeds Spec	Comments
<b>1</b>	<b>Body</b>				
	171”L x 72” inside H x 96” W Mod Body with front cutout, Arbortech L Chip Box with removable roof				

	Minimum Specification	Does Not Meet Spec	Meets Spec	Exceeds Spec	Comments
	chip box				
	10 gauge minimum steel floor				
	56" H non-removable side walls with bottom gussets to floor, sides are 12 ga galvaneal outer and inner panels with formed channel inside supports				
	Two (2) 48"L x two (2) 36"L x 16H removable roof sections				
	30" H double panel 16 ga galvaneal swing to side tailgate with cam latch (270 degrees) with 4" HD hinges with grease zerks, hinged on curb side				
	Coal tar epoxy interior in chip load space				
	3" structural channels at 4.1 lb/foot				
	5" structural channel long sills at 9 lb/foot				
	12" H formed light boxes with light pockets and license plate recess street side				
	Undercoating				
	Rear ID light bar				
	Two (2) LED 4" round st, t and t lights at rear				
	Two (2) 4" LED round back up lights				
	Two (2) LED front marker lights				
	Two (2) LED side marker lights				
	One (1) license plate light				
	Four head LED amber flashing light system; Four (4) LED 4" round LED amber flashing lights, two installed in front bulkhead and two in lower rear lights boxes of body				
	Steps installed to enter the box with grab handles				
	Two (2) wheel chock holders				
	Two (2) rubber wheel chocks				
	20,000 lbs. capacity tow package with built in ICC under ride and T-60 pintle hook				
	5 lb fire extinguisher with mounting bracket				
	One roadside triangle kit				
	Pintle hitch				
	Circuit Boss – Circuit Isolator # 70207 (7 circuits), Painless is the current product line we use configured as follows: Circuit 1-3 – constant power Circuit 4-7 - ignition powered <b>Exact connection to particular component will be determined with successful bidder</b>				
<b>2</b>	<b>L Shaped Compartment with Two (2) 24" Underbody Boxes</b>				
	C/S vertical compartment 51" H x 24" W x 22" D with eight (8) swivel rope hooks with attached 48" L x 22" H x 22" D underbody box				
	S/S compartment 51" H x 24" W x 22" D with attached 48" L x 22" H x 22" D underbody box				
	37" H x 24" H pass thru compartment C/S to S/S vertical compartment, including two (2) hi-spangle galvanized adjustable shelves				
	Undercoating				

	Minimum Specification	Does Not Meet Spec	Meets Spec	Exceeds Spec	Comments
	Four (4) double panel, recessed doors with 3-point all stainless steel T-handle latches and automotive door seal				
	Each door with slide-in security rods when body is in raised position				
	Gas shock door stays				
	Paint: White				
<b>3</b>	<b>Trailer Brake Controller</b>				
	Electric brake controller shall be mounted left of the steering wheel				
	Electric brake controller shall be wired to the trailer light plug mounted in the rear hitch				
	All wires shall be routed behind dash using heat shrink connectors and corrugated plastic split loom				
<b>4</b>	<b>Hoist</b>				
	Hoist to be a <b>minimum 18-ton Champion CS620F 6"</b> cylinder scissor hoist with mounting kit; hydraulic with direct mount to PTO, gear pump				
<b>5</b>	<b>Mud Flaps/Fenders</b>				
	<b>Replaceable mud flaps in front of and behind rear wheels, frame mounted to chassis frame Rear poly fender</b>				
<b>6</b>	<b>Manuals</b>				
	Parts, service and operation manuals required for all components installed; books or CD if available				
	Build sheet for chassis to be provided by chassis dealer				
<b>7</b>	<b>Training</b>				
	The successful vendor, at a time mutually acceptable with the City, shall provide a minimum of three (3) hours of training to operators and mechanics covering the operation and maintenance of equipment				
<b>8</b>	<b>Hydraulic Controls</b>				
	PTO driven hydraulic system for operation of dump body/hoist with <b>air</b> controls in the dash; hydraulic system must be sized appropriately				
<b>9</b>	<b>Electrical Connections (all connections must met this standard minimum)</b>				
	All lighting used shall be, at a minimum, a two (2) wire light grounded through a wired connection to the battery system				
	Wiring shall be run in loom where exposed, and have grommets or other edge protection where wires pass through metal				
	Exterior exposed wire connectors shall be positive locking, and environmentally sealed to withstand elements such as temperature extremes, moisture and automotive fluids				
	Electrical wiring and equipment shall be installed utilizing the following guidelines: All wire ends not placed into connectors shall be				

	Minimum Specification	Does Not Meet Spec	Meets Spec	Exceeds Spec	Comments
	sealed with a heat shrink end cap. Wires without a terminating connector or sealed end cap shall not be allowed				
	All holes made in the roof shall be caulked with silicon (no exceptions)				
	Corrosion preventative compound shall be applied to non-waterproof electrical connectors located outside of the cab or body. All non-waterproof connections shall require this compound in the plug to prevent corrosion and for easy separation of the plug.				
	Any lights containing non-waterproof sockets in a weather-exposed area shall have corrosion preventative compound added to the socket terminal area				
	Rubber coated metal clamps shall be used to support wire harnessing and battery cables routed along the chassis frame rails				
	Heat shields shall be used to protect harnessing in areas where high temperatures exist. Harnessing passing near the engine exhaust shall be protected by a heat shield				
	For ease of identification, battery cables shall be color coded. All positive battery cables shall be red in color or wrapped in red loom the entire length of the cable. All negative battery cables shall be black in color.				
	Wire connections shall be made using crimp style heat shrink butt splice connectors or soldered connection covered with heat shrink. If crimp style connector is used, crimping tool Westward 13H876 or equivalent must be used to prevent piercing heat shrink. Solder sleeve butt splice type connectors shall not be allowed.				

Description	Firm fixed price
Price for one (1) single axle Arbor L body truck per the specifications in the bid documents	\$

Single axle chassis manufacturer \_\_\_\_\_ Model Year \_\_\_\_\_

Is chassis dealer authorized by the manufacturer to sell, warrant and service equipment as bid  Yes  No

Arbor L body manufacturer \_\_\_\_\_

Is Arbor L body dealer authorized by the manufacturer to sell, warrant and service equipment as bid  Yes  No

Descriptive literature included with the bid submittal  Yes  No

Warranty information included with the bid submittal  Yes  No



Estimated Delivery Time Upon Receipt of Purchase Order \_\_\_\_\_ Calendar Days

Dealer Name \_\_\_\_\_

Dealer Representative Signature \_\_\_\_\_ Date \_\_\_\_\_

<b>DELIVERY ADDRESS</b>	<b>BILLING ADDRESS</b>
Joy Huber Fleet Services Division 500 15 <sup>th</sup> Ave SW Cedar Rapids, IA 52404	Finance Department – Accounts Payable City of Cedar Rapids 101 1 <sup>st</sup> St SE PO Box 2148 Cedar Rapids, IA 52406-2148