

# ROAD COMMISSION FOR IONIA COUNTY

170 E. Riverside Drive • P.O. Box 76 • Ionia, Michigan 48846 • Phone (616) 527-1700 • Fax (616) 527-8848

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Managing Director

PAUL A. SPITZLEY, P.E.  
County Highway Engineer

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## NOTICE TO BIDDERS

Sealed proposals will be received by the Board of Ionia County Road Commissioners until **10:30 a.m. on August 3, 2016** at which time they will be publicly opened and read in the Commission offices for the following:

**One Single Axle Dump Truck  
And  
One Tandem Axle Dump Truck  
12 Yard Capacity**

Further information upon which bids shall be based is available at the road commission office, phone (616) 527-1700 or [www.ioniacountyroads.org](http://www.ioniacountyroads.org) on the "Doing Business" page. All proposals are to be in sealed envelopes, plainly marked "Sealed Bid" and labeled as to the contents within and shall include the name and address of the bidder.

The Ionia County Road Commission reserves the right to reject any and all proposals or to waive irregularities therein, and to accept any proposals which, in their opinion, may be most advantageous and in the best interest of Ionia County.

BOARD OF COUNTY ROAD COMMISSIONERS  
OF IONIA COUNTY

Albert A. Almy - Chairman  
Karen D. Bota - Vice Chairman  
Charles G. Minkley - Member  
Kenneth L. Gasper – Member

**BOARD OF COUNTY ROAD COMMISSIONERS  
Of the County of Ionia**

**INSTRUCTIONS TO BIDDERS**

Sealed bids will be publicly opened at the offices of the Board of County Road Commissioners of the County of Ionia, State of Michigan, located at 170 E. Riverside Drive, Ionia, MI 48846.

Refer to the **NOTICE TO BIDDERS** for the exact timing and for the identification of the bids as related to furnishing materials, services, equipment, work and/or supplies with the terms, conditions, specifications, drawings, plans and special provisions as stated herein and hereto attached.

The Board's practice is to open and read the bids at the designated time and then refer the file to staff for tabulation and analysis. During this period, bid files are closed until presented to the Board of County Road Commissioners at their next regular meeting. Notifications of award, pending award, or other outcome, will be made in writing. The bid tabulation will accompany award, as is customary for item bid, or may be requested by phone at (616) 527-1700.

1. Bids must be submitted on the Board's blank form when provided. The bid shall be legibly prepared in ink or typewriter. The bidder must initial any erasures or alterations.
2. Specifications and plans should not be returned unless otherwise stated herein.
3. Bids shall be mailed or delivered. **Bids shall be in a sealed envelope and identified on the outside as to the bid concerned.** Bids will NOT be accepted by fax or email.
4. Bids will not be accepted after the time designated for the opening of the bids. The bidder shall assume full responsibility for delivery of bids prior to the appointed hour and shall assume the risk of late delivery or non-delivery regardless of the manner used for the transmission thereof. **Bids will be accepted at the Road Commission office** on behalf of the Board at any time during normal business hours only, said hours being 6:00 a.m. to 4:00 p.m., Monday through Thursday, with the exception of legal holidays.
5. It is understood that the Board of County Road Commissioners is a governmental unit and as such, is exempt from the payment of all State and Federal taxes, except as allowed by the regulatory agencies to be included in the cost of materials and services.
6. The bidder, as evidenced by the execution of the bid form, thereby declares that the bid is made without collusion with any other person, firm, or corporation and agrees to furnish all bid items in strict adherence with all Federal regulatory measures.
7. The Board reserves the right to reject any and all bids, to waive any irregularities therein, and to accept any bid which, in the opinion of the Board, may be most advantageous and in the best interest of the County. In case of error in the extension of prices in the bid or other arithmetical error, the unit prices will govern.

## Technical Specifications

### Single Axle Dump Truck

The specifications written below are meant to describe a single axle dump truck. Ionia County Road Commission understands that not all manufacturers have the exact same suppliers. Any deviations from the specifications listed below must be clearly noted. However, the Ionia County Road Commission reserves the right to award the bid in the best interest of the citizens of Ionia County.

1. Gross Vehicle Weight
  - A. 46,000 LB. Minimum , Single Axle
2. Wheelbase
  - A. 172"/CA-120" from rear of cab to center of axle.
  - B. It is the responsibility of the truck manufacturer to communicate with the equipment installer to insure all dimensions are adequate for equipment to be installed.
3. Frame
  - A. Minimum 120,000 psi single, or double C channel to run from front to rear with no breaks in frame rails. 3,421,000 RBM.
  - B. Frame to be uniform the entire length
  - C. Continuous front extensions (no bolt-on's)
  - D. Ground clearance adequate to mount underbody scraper.
4. Engine
  - A. Detroit Diesel, Cummins or Paccar MX, 380 Hp. Engine, 1450 lbs. of torque. 11 liter.
  - B. Software and cable hook ups to perform engine diagnostics and trouble shoot engine codes. Training to use software.
  - C. Low oil pressure alarm, high water temp alarm, low coolant level.
  - D. 5 year 500,000 mile warranty. Include as option any extended warranty offers.
5. Engine Equipment
  - A. Tachometer, voltmeter, ammeter.
  - B. Optional in cab AGM batteries mounted under passenger seat with external jumper terminals.
  - C. All standard engine accessories, fuel filters and water filters.
  - D. One full flow oil filter and one bypass oil filter.
  - E. 2 speed clutch fan, on/off Horton type
  - F. Deliver with temporary fuel tank, may consider optional 50 gallon dual under cab fuel tanks provided it doesn't interfere with underbody scraper.
6. Transmission
  - A. RTO16908LL 10 Speed manual transmission with 15 ½" Heavy duty clutch and clutch brake.
  - B. Cast iron bell housing, pressurized.
  - C. Bid optional Allison 4500 RDS automatic transmission with temp gauge.

7. Rear Axle
  - A. Rockwell RS-30-185 rear axle with cab controlled traction lock.
  - B. Will consider RS-26-186 rear axle with cab controlled traction lock as an option.
8. Front Axle
  - A. Heavy duty 20,000 lb. capacity at ground.
  - B. Gear driven power steering pump with full power steering.
  - C. Front shocks.
9. Springs
  - A. Front 18,000 lb. capacity.
  - B. Rear 26,000 lb. capacity, auxiliary 4,500 lb. overload springs.
10. Brakes
  - A. Air brakes, S-cam type both front and rear.
  - B. 16.5 x 7 single anchor quick change, new style, with premium linings.
  - C. 28 cubic inch air compressor.
  - D. 30" anchor lock life seal brake chambers on rear axle with double diaphragm brake chambers, rear chambers for emergency and parking brake.
  - E. Automatic slack adjusters on all axles.
  - F. Air dryer Bendix Model ADIS-EP mounted away from underbody scraper. Heated.
  - G. Dust shields for all wheels.
11. Wheels and Rims
  - A. Front: Goodyear 16 Ply, G-291, 315R-22.5 tires on 22.5 x 9 inch heavy duty hub-piloted rims.
  - B. Rear: Goodyear G-124, 12R22.5, or Bridgestone M799 tires.
  - C. All wheels to be two hand holes, hub piloted, steel, H.D. rims. All valve stems shall be accessible.
12. Driveline
  - A. Heavy duty, compatible with GVW rating
13. Front Power Take off
  - A. For Live Power
  - B. Front pump bracket to be mounted between frame rails, forward of radiator.
  - C. Shield to be provided to eliminate grease from contacting radiator.
  - D. Front pump shaft must be grease able and have the ability to remove pump shaft without removing pump.
14. Radiator
  - A. Heavy duty with no cut-a-ways. PTO shaft shall not run through radiator.
15. Electrical
  - A. 12 Volt system, 135 amp Delco 33 Si or equivalent alternator.
  - B. Flaming River disconnect switch with 3 minute time delay.
  - C. 3, 93 amp hour 1950 CCA batteries.
  - D. All switches independent and labeled by equipment installer using a "Wired Right" switch box.

- E. 12 volt power outlet for charging phones, or accessories.
  - F. Back up alarm
  - G. Factory headlight, plow light switch. Independent.
16. Exhaust System
- A. Muffler right rear of cab, vertically mounted with shields.
  - B. All exhaust pipes shielded where necessary.
17. Cab Accessories
- A. Conventional, air ride cab. With tilting fiberglass hood.
  - B. Deluxe Air ride driver seat with high back, dual arm rest, and lumbar support.
  - C. Individual drivers and passenger seats, 20" wide.
  - D. Standard interior trim with extra insulation in floor.
  - E. Dual heated, and motorized west coast mirrors on driver's and passenger's side. Mirrors shall be controlled via switch from driver's seat. Dual 5" spot mirrors on driver's and passenger's side. Mirror mounted on passenger door above window so that driver may view objects below passenger door.
  - F. Air horn mounted under hood.
  - G. Intermittent wipers/washers, self-cancelling turn signals.
  - H. AM/FM radio, Bluetooth compatible.
  - I. Air conditioning, with cab air filter.
  - J. Running boards with clearance for underbody scraper.
  - K. Dual hand grips right and left.
  - L. All required lights and safety items
  - M. Electric passenger window, controlled from driver's seat.
  - N. Under hood air intake for snow plowing conditions.
  - O. Auxiliary switch box mounted in cab for extra components supplied by the equipment installer. Switch box shall be a "Wired Right" switch system supplied by the equipment installer. Switches shall include: 1. Blade lights. 2. Box warning light. 3. Cab warning light. 4. Sander lights. 5. Rear amber/green warning lights. 6. Three position plow light switch, (off, low beam, high beam). 7. Tailgate trip switch. 8. Wing light. 9. Low oil over ride switch. 10. Cross conveyor switch, three position, left, right and center. Truck shall be equipped with box up indicator light and low hydraulic oil light.
  - P. Location of all relays, ABS controllers, wiring relay boxes etc. shall be located in cab unless clearly noted on bid sheet. Note the location of any electrical control box mounted outside of cab.
18. Other Specs
- A. Purchase without front bumper
  - B. Fan must not interfere with front pump shaft or hydraulic pump.
19. Safety
- A. Equipped to comply with all federal and motor vehicle safety standards
20. Paint
- A. Cab: School bus Yellow

- B. Frame: Centari 99a black or equivalent.
- C. May be shipped with temporary tank but must meet the requirements in item 26.

21. Miscellaneous

- A. A scraper mounting clearance between rear edge of front bumper and 40" rear of cab minimum of 24" of ground clearance. (Minimum ground clearance shall not be exceeded with a payload of 20,000 lbs.) All air tanks, batteries, driveline and exhaust shall meet the 24" minimum.
- B. Rexroth A10V085 load sensing pump driven by a Spicer 1310 series driveline. The hydraulic pump shall be mounted with shaft centerline parallel to the crankshaft centerline and at a level to create not more than a three degree angle on driveline. Pump mounting shall be incorporated with a bracket fabricated to mount in the extended frame rails of the truck.
- C. A one inch pressure hose from pump shall supply a Rexroth M4-12 hydraulic valve assembly of mobile design to withstand exposure to de-icing chemicals and severe weather conditions without the use of a watertight enclosure, but installed in a stainless steel box. Valve shall be of cast iron construction, horizontally stackable and serviceable without disassembly. Each section shall have a built in flow and pressure compensator to allow simultaneous operation regardless of any other system function. Sections for hoist, blade up and down, plow up and down, and swing blade left and right, wing up and down, shall be operable via remote air controls from inside cab.
- D. Spinner and auger sections shall be incorporated into main valve assembly. Both spinner and auger sections shall be piloted operated and have manual overrides. All valving shall be mounted in one valve assembly. Multiple valve assemblies are unacceptable.
- E. Automatic controller spreader control system shall be ground speed oriented to maintain pre-determined application rates regardless of vehicle speed. Control shall be by micro-processor for high control accuracy, automatic calibration and flexibility of programming. Upon delivery, the system shall be fully functional and calibrated to Road Commission specifications (including furnishing completed, accurate calibration cards matched to each truck by truck number).
- F. Controller shall be a Dicky John Control Point model and shall be capable of the following. Application of salt, sand, salt/sand mix pre-wetting of granular material, liquid anti-icing, zero velocity ground speed oriented spinner. Controller shall be capable of seasonal and storm data retrieval. Controller shall include the following, control console and remote switch controller, driver for liquid pre-wet, driver for granular and spinner, calibration key board, all necessary cables, sensors, flowmeters and necessary hardware to make the system operate. Vendor shall set up the variables in the program controller. System must also be capable of operating in ground speed oriented open loop, closed loop, and manual. A digital display shall enable operator to monitor either the real application rate in pounds per mile or

ground speed in miles per hour. The display shall enunciate error messages when micro-processor's self-diagnostic system detects any loss of control of accuracy. Control center shall have separate, easy to service cable connections for feedback sensors, speedometer signal, main power, and valve coils. The closed loop auger feedback sensor shall be an integral part of the White Roller Stator 24 CID motor. With built in sensor, to provide high performance operation when applying granular material.

- G. Installation to include painting of all control boxes, valves hydraulic tanks and pumps (black). Enclosure shall be a 304 stainless steel enclosure held in place by 4 heavy duty rubber latches. All plumbing to be external, directly into the bottom of valve manifold base.

## 22. Body

- A. A 304 Stainless steel body with a cab shield shall be versatile with the ability to be used as a dump body or a spreader to allow material to discharge through the tailgate onto a spinner assembly by the way of an integral center conveyor assembly. The body shall be 11' feet in length, top inside shall be 87", with the total outside width being 96". Side height of body shall be 44", with a tailgate height of 50". Box shall be complete with a fold down ladder for ease of checking loads. Total capacity shall be 6 cubic yards. Unit shall be continuously welded 100 percent throughout. The sides, front and tailgate shall be manufactured of 304 stainless steel. Top rail is box type. Body will include integral fenders to cover a single drive axle. Fenders shall be designed to accept 100 gallon poly pre-wet tanks on each fender. The front shall be sloped to accommodate a head lift cylinder with a partial doghouse and conform to the radius of the body and shall be 100 percent welded inside and out. The rear of the body shall be supported by two pieces of 3/16" stainless steel plate contoured to the radius of the body and welded 100 percent inside and out. Additional re-enforcement will be provided by a 3/16" formed box section, placed at the rear spreader body and tied to two rear posts formed from 3/16" stainless steel. Side supports shall be 3/16"x4x4 tube extended thru long members with 3/16" box section. Tailgate shall be a minimum of 6" higher than the sides. Tailgate shall be a double acting with a squared perimeter, having two horizontal braces of 10 gauge material full width of the tailgate. Material door shall extend 16" into the interior of the body to prevent material from escaping a partially open door over the conveyor. The opening shall be 21" in width by 8 1/2" in height and shall be manufactured of 1/4" stainless steel. Tailgate shall be operational via remote switch in dash. The tailgate shall have 1"x4" bar stock tailgate hardware with 1 1/4" hardened pins. Tailgate shall be 1" flame cut, with each latch being adjustable with a 3/4" threaded clevis and keeper pins. Latches shall be over center type. Body conveyor shall be 34" in width and shall have 28,000 lb. tensile strength per strand pintle chain, with 1 1/2 x 1/2" bar flights on 2 1/4" centers. Two 6:1 spur gear box and high torque low speed hydraulic motor shall drive conveyor with built in sensors for salting. There shall be 8 tooth sprockets with 2" idler shafts. Conveyor shall

have a heavy duty, dust sealing, self-aligning four bolt flange bearings. Conveyor motors shall be plumbed to an air operated series/parallel valve. There shall be grease line extensions from all greasable locations to a common grease manifold that is easily accessible from the side of the truck. All grease zerks to be identified, all grease lines to be high pressure type lines.

- B. The trunnion collar shall be oscillating. Provided with the body shall be the following: Two LED oval red stop, turn and tail lights with protective rubber grommets and ample wire to do repairs when necessary. Two LED oval clear back up lights with protective grommets, four 2" round LED red marker lights, one LED three light bar with (3) 2" round red markers. Manufacturer shall provide all caution labels, decals, and any warnings deemed necessary. Manufacturer shall supply their standard warranty statement. Mud flaps and backup alarm shall be installed.
- C. A hydraulic driven pre-wet system shall be installed and operational and shall include a 7 GPM gear type liquid pump with bronze gears. Pump assembly, and Dicky-John flow-meter shall be enclosed in a fiberglass enclosure. All the necessary wiring and hardware shall be included to operate the Dicky-John pre-wet system. System shall include two 100 gallon, rotationally molded poly liquid tanks with a 304 stainless steel brackets to mount the tanks in. System shall include a bulk fill kit and flusher kit with tank cross over hose adequate to keep tanks uniformly level. Spray nozzles to be mounted at discharge of box either at sander trough or cross conveyor intake. All clamps and hardware to be either stainless steel or plastic PVC. Cross conveyor/spinner assembly shall be bi-directional and shall be controlled by an air operated directional valve mounted at the rear of the body and controlled by a switch in the cab. Rear conveyor shall be equipped with hoses and quick connectors. Rear cross conveyor shall be mounted on two Reese type hitch tubes. The brackets shall swivel to allow a full angle dumping of the combination body without the removal of the cross conveyor. The cross conveyor shall include a center mounted spinner. Conveyor shall be made from 10 gauge 304 stainless steel. Conveyor shall also include an air cylinder controlled from the cab of the truck to allow flow of salting material to drop either on the spinner or the belt of the cross conveyor. Conveyor shall include drop chutes and doors at each end. Conveyor belt shall be 12" minimum width and a minimum of 3/8" thick and rated for 350 degrees. Spinner disc shall be 24". **Bid also with optional 9" cross auger with spinner and chute assembly.**

### 23. Hoist

- A. Maillot hoist CS100-4.5-3DA. The hoist shall be designed to operate up to 2500 psi. and be self-bleeding. The hoist shall have a 1/4" wall construction with bronze glands and pistons to assure a smooth and durable bearing surface. The glands shall each be continuous cast bearing, SAE 660 bronze with a tensile strength of 44,000 psi. The cylinder head and piston shall be of a ductile continuously cast iron with a tensile strength of 60,000 psi. Each cylinder shall be internally sealed, the inside seals shall have a U-cup design made of nitril packing. The cylinder shall have a melonized/QPD

running surface. The melonized surfaces shall have a nitride cover over the entire surface of the cylinder. The cylinder rod shall be C1045/C1050 Steel with a tensile strength of 80,000 to 100,000 lbs. The cylinder tubing shall be DOM and shall have tensile strength of 70,000 lbs. The tube surface shall have a Rockwell hardness of 80. The cylinder shall dismantle easily and overlap between stages for greater stability. Each rod and pin shall be greaseable.

#### 24. Underbody Scraper

- A. Monroe series 4500 12'x20" moldboard with double reverse cylinders and 1" moldboard and circle. Scraper shall be modified/rolled forward so that the blade cylinders push on lower portion of moldboard. Top of moldboard shall be notched so that the board clears the circle. Scraper shall include heavy duty springs. Scraper shall include remote grease line manifold kit that allows grease to be applied to centralized locations outside of the frame chassis. Grease line kit shall incorporate all 15 grease points on the scraper. Blade pressure shall be set at 850 lbs.

#### 25. Front Plow Hitch

- A. One Husting 34" quick hitch complete. Hitch to be made so that hood of truck can be tilted most of the way open. Brackets to be fabricated for hood of truck to allow the mounting of plow lights. Plow lights shall clear the top of the plow for visibility during night time plowing.

#### 26. Fuel and Hydraulic Tanks

- A. 100 gallon fuel tank and 30 gallon oil tank with shutoff valves to permit changing of filters. Both tanks are to be pressure tested and UL approved. Both tanks are to be vented. Fuel tank shall have sender for fuel gauge in dash and hydraulic tank shall have vertically mounted 8" sight glass mounted as flush as possible so that oil level may be viewed. Tanks are to be mounted above frame behind the cab. Painted Black.

#### 27. Front Tow Hooks

- A. Front bumper to be made from 12" channel, 8 feet long, to be mounted in front of front frame extension. Bent on both ends so that a Vee plow can be hooked up. Front bumper shall be designed and mounted in a way as to not interfere with the truck headlights when front plow is not used. Two front tow hooks and two rear tow hooks to be mounted on each side of the front and rear frame. Hooks shall be of adequate size for the GVW of the truck.

#### 28. Side Mounted Wing

- A. Monroe 7' mid mounted right side wing. 27" height at the toe and 28" height at the heel. 3/16" steel construction with 7' steel cutting edge.

#### 29. Lights

- A. Two (2) amber LED type lights mounted on rear of box and hooked up so that they will alternate from one side to another when on. Two (2) green LED type lights run just above the amber lights mentioned above hooked up so that they will alternate side to side lights to be on their own fuse and switch. Two LED white sander lights mounted on rear of truck pointing down so that material coming off cross conveyer

can be viewed. One amber LED blade light mounted under the driver's rear corner of cab pointed down toward the end of moldboard. One white LED wing blade light mounted on passenger side for wing blade viewing. All lights to be LED style lights.

- B. One Star 2464 LED light bar shall be mounted on cab of truck with an independent fuse and switch. One Star 24" LED light bar shall be mounted on left front corner of cab protector, light bar shall be on a swivel bracket with protection from tree limbs. Vendor shall provide adequate wiring so that repair can be made when necessary.
- C. Plow lights shall be on a fabricated bracket mounted on hood with sufficient height to clear a front mounted plow. Plow lights shall be halogen type with high beam, low beam, and turn signals. Switches for plow lights mounted in dash.

30. Tarp system

- A. One Roll rite electric tarp system, or equivalent, to fit 11' box. System must have its own wiring system, controlled via switch in cab.

31. Miscellaneous

- A. Steel mesh to be installed in front of radiator. Truck shall include back up alarm, and a box up light to notify the operator when the box is in the air.
- B. A cross member shall be mounted and the end of the frame rails to allow the mounting of a pintle style hitch. It shall be as deep as the frame rails and shall be continuously seam welded along vertical ends of frame rails.
- C. Full set of parts, service and operators manuals for trucks and equipment.
- D. Desired delivery date August 1, 2017.
- E. The Ionia County Road Commission will consider payment of cab and chassis in April of 2017 provided the equipment installer has reviewed the vehicles and determines that the vehicles meet all the required bid specifications. The balance will be paid upon delivery.
- F. Bidder shall provide financing options on a 5 year lease purchase.
- G. The Ionia County Road Commission reserves the right to award the bid to the vendor that supplies the best value to the citizens of Ionia County.

Bid Sheet (1) One Single Axle Dump Truck

1. Gross Vehicle Weight. \_\_\_\_\_
2. Wheelbase.  
\_\_\_\_\_  
\_\_\_\_\_
3. Frame.
  - A. \_\_\_\_\_
  - B. \_\_\_\_\_
  - C. \_\_\_\_\_
  - D. \_\_\_\_\_
4. Engine.
  - A. \_\_\_\_\_
  - B. \_\_\_\_\_
  - C. \_\_\_\_\_
  - D. \_\_\_\_\_
5. Engine equipment.
  - A. \_\_\_\_\_
  - B. \_\_\_\_\_
  - C. \_\_\_\_\_
  - D. \_\_\_\_\_
  - E. \_\_\_\_\_
  - F. \_\_\_\_\_
6. Transmission.
  - A. \_\_\_\_\_
  - B. \_\_\_\_\_
  - C. \_\_\_\_\_
7. Rear Axle.
  - A. \_\_\_\_\_
  - B. \_\_\_\_\_
8. Front Axle.
  - A. \_\_\_\_\_
  - B. \_\_\_\_\_
  - C. \_\_\_\_\_
9. Springs.
  - A. \_\_\_\_\_
  - B. \_\_\_\_\_
10. Brakes.
  - A. \_\_\_\_\_
  - B. \_\_\_\_\_
  - C. \_\_\_\_\_

- D. \_\_\_\_\_
- E. \_\_\_\_\_
- F. \_\_\_\_\_
- G. \_\_\_\_\_

11. Wheels and Rims

- A. \_\_\_\_\_
- B. \_\_\_\_\_
- C. \_\_\_\_\_

12. Driveline.

- A. \_\_\_\_\_
- \_\_\_\_\_

13. Front Power Take-off

- A. \_\_\_\_\_
- B. \_\_\_\_\_
- C. \_\_\_\_\_
- D. \_\_\_\_\_

14. Radiator.

- A. \_\_\_\_\_

15. Electrical.

- A. \_\_\_\_\_
- B. \_\_\_\_\_
- C. \_\_\_\_\_
- D. \_\_\_\_\_
- E. \_\_\_\_\_
- F. \_\_\_\_\_
- G. \_\_\_\_\_

16. Exhaust system.

- A. \_\_\_\_\_
- \_\_\_\_\_
- B. \_\_\_\_\_

17. Cab Accessories.

- A. \_\_\_\_\_
- B. \_\_\_\_\_
- C. \_\_\_\_\_
- D. \_\_\_\_\_
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18. Other Spec's.

A. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

19. Safety,

A. \_\_\_\_\_

20. Paint.

A. \_\_\_\_\_

21. Miscellaneous.

A. \_\_\_\_\_  
\_\_\_\_\_

B. \_\_\_\_\_  
\_\_\_\_\_

C. \_\_\_\_\_  
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D. \_\_\_\_\_  
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E. \_\_\_\_\_  
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F. \_\_\_\_\_  
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G. \_\_\_\_\_  
\_\_\_\_\_

22. Body.

A. \_\_\_\_\_  
\_\_\_\_\_

B. \_\_\_\_\_  
\_\_\_\_\_

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C. 

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23. Hoist.

A. 

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24. Underbody Scraper.

A. 

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25. Front Plow Hitch.

A. 

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26. Fuel and Hydraulic tanks.

A. 

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27. Front Tow Hooks.

A. 

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28. Side Mounted Wing.

A. 

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29. Lights.

A. 

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B. 

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C. 

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D. 

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30. Tarp System

A. 

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B. 

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C. 

---

31. Miscellaneous.

A. 

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B. 

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C. 

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D. 

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