



# Antrim County Road Commission

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## NOTICE TO TRUCK BIDDERS

Sealed bids will be received for the purchase of one (1) current model year tandem axle truck until 1:00 PM, Monday, March 12, 2012, at which time they will be publicly opened and read. Bids shall be received at the office of the Antrim County Road Commission, PO Box 308, 319 E. Lincoln St, Mancelona, Michigan 49659-0308. Bids will be tabulated and a recommendation will be made to the Board of County Road Commissioners at their next regular meeting.

### General Description

These specifications are for one (1) current model year tandem axle cab and chassis having a GVWR of 66,000 pounds. This truck will be used as a heavy duty road maintenance vehicle and will be equipped with an underbody scraper, 12 foot all-purpose material spreader, front snow plow and a side mounted snow wing. This truck will also be equipped for trailer connection at the rear of the frame.

These are minimum specifications. Pricing shall include manufacturers' standard warranty. Extended warranty packages will be priced separately as an optional bid. Bidders may recommend options, indicating specifications and pricing for each.

### General Specifications

GVWR	66,000 pounds
Wheelbase WB	216 inches
Cab to Trunion CA	Approximately 132 inches, dependent on transmission
After frame EOF	70 inches
Bumper to Back of Cab BBC	110 inches
Front axle FA	Set back with a capacity of 20,000 pounds
Rear axle RA	46,000 pounds

All measurements are to be verified with the body builder before ordering

### Engine

Detroit Diesel, Model DD-13  
13 liter, 410 HP at rated RPM, 1550 lb/ft torque at rated RPM  
Must meet 2010 EPA/Carb emission regulations  
28 gallon DEF tank mounted on driver's side, aft of front fender  
12V, 160A pad mounted alternator  
19 CFM single cylinder air compressor  
Engine braking capabilities  
Air conditioning compressor

## **Engine (cont)**

Kysor air operated fan clutch  
1350 Adapter flange for front mounted PTO  
12V, 39MT starter  
Three (3) Group 31S 1000CCA batteries  
Winterized to -34F  
Radiator shall be sized to allow for crankshaft mount PTO  
Provisions for inside/outside air intake, selectable from dash mounted switch

## **Transmission**

Fuller FRO-15210B 10 speed manual transmission  
Input torque rating to be not less than engine output rating  
Heavy duty 15.5" ceramic faced clutch  
Must maintain 24" ground clearance  
Driveline to have all half-round u-joints

## **Frame**

Single rail frame  
Frame shall have these minimum specifications:  
Section modulus 27.0 in<sup>3</sup>  
RBM 3,000,000 inch pounds  
120 KSI  
20" integral front extensions, with frame reinforcement as necessary for front mount snow plow  
70" end of frame  
All items attached to the frame must maintain a 24" ground clearance

## **Front axle and suspension**

20,000 pound single front axle  
Iron, hub piloted, front hubs with vented hub caps, window and center plug  
Dual power steering gearboxes  
Synthetic 75W-90 front axle lube  
23,000 pound flat leaf front springs  
Heavy duty front shock absorbers

## **Rear axle and suspension**

46,000 tandem rear axle, RT-46-160 or equivalent  
Gear ratio compatible for 55 MPH  
Driver controlled power divider  
Iron, hub piloted, hubs  
Synthetic 75W-90 rear axle lube  
Hendrickson Haulmax rear suspension, 10.5" ride height  
Four (4) heavy duty shock absorbers, if needed

## **Braking System**

Standard air braking system  
Front brakes shall be Meritor 16.5x6" Q+ non-asbestos brake shoes  
Rear brakes shall be Meritor 16.5x7" Q+ non-asbestos brake shoes  
Dust shield on all wheels  
Wabco ABS 4S/4M controller  
All steel tanks, must maintain 24" ground clearance  
Wabco air dryer with governor and heater  
Rear brake geometry to allow for asphalt spreader

## **Trailer Connections**

Air connections with glad hand at rear of frame  
SAE J560 7 wire trailer receptacle at rear of frame

## **Chassis equipment and fuel tanks**

Omit front bumper  
Front mounted tow hooks  
No rear mud flaps or brackets  
Transit fuel tank only

## **Tires and Wheels**

Michelin XZY-3 318/80R22.5 20 ply front tires  
9.00 x 22.5 unimount 10 bolt severe duty wheels with two hand holes  
Michelin XDE M/S 11R24.5 16 ply rear tires  
8.25 x 24.5 unimount 10 bolt severe duty wheels with two hand holes

## **Cab Exterior**

Aluminum/galvanized steel air ride conventional cab  
Bolt on flexible front fender extensions  
Integral headlight/marker lights  
LED marker lights  
Integral stop/tail/turn/backup lighting with 7 feet additional wire at rear  
Auxiliary snow plow wiring harness to front of hood with cab mounted switch  
Tilt forward fiberglass hood with stationary front grille with fender extensions  
Dual roof mounted air horns  
Door locks and ignition keyed alike  
Furnish three (3) keys  
Grab handles on both sides  
Dual stainless steel heated west coast style mirrors, door mounted both sides  
Dual 8" convex mirrors mounted under primary mirrors, both sides

## **Cab Exterior (cont)**

Electric windows on both sides, controlled from drivers side  
Electric wipers with intermittent controls and washers on both sides  
Aluminum enclosure with integrated step on driver's side containing batteries and DEF tank  
Aluminum toolbox enclosure with integrated step on the passenger side

## **Cab Interior**

Deluxe soundproof interior with head and back wall liner  
Molded rubber floor mats  
Aluminum/stainless steel kickplates on both lower inner door panel  
Standard heater, defroster, air conditioner  
HVAC ducting to guard against snow infiltration on fresh air intake  
Bostrom Talladega 910 high back air suspension driver seat with armrests  
High back standard suspension passenger seat  
Firewall mounted suspended brake pedal  
Door operated dome light  
Orange seatbelts on both sides  
Interior sun visors on both sides  
No fire extinguisher or safety triangles

## **Instruments and Controls**

All standard gauges, including but not limited to speedometer, tachometer, odometer, ammeter, hour meter and engine coolant temperature with warning buzzers  
Dual air gauges with warning buzzer  
Electric fuel gauge with integrated DEF gauge  
Diagnostic interface connector, 9 pin, SAE J1939  
AM/FM radio with dual speakers with antenna mounted on left "A" pillar  
Solid state circuit protection and fuses  
12V, negative ground system  
Four (4) dash mounted auxiliary switches with indicator lights and fuses wired to chassis, one(1) switch cover to be blank the remaining three (3) switch covers are to be factory labeled as follows, strobe light, work light, fog light  
Switch for plow light package  
Pick up post for speedometer input in fuse panel  
Self canceling turn signal switch with dimmer and washer/wiper control  
NO battery disconnect switch (will be installed by the body builder)

## **Paint**

Cab and hood to be BC/CC Omaha Orange  
Frame to be black  
Wheels to be white

## **Documentation and Support**

Provide on-line access to parts and service manuals, including electrical diagrams  
Provide all current diagnostic software  
Provide on-site technician training as needed

## **Miscellaneous**

All warranty start dates will be after completion by the body builder and considered road ready by the Road Commission  
Pricing to be FOB Mancelona, MI

## **OPTIONAL BID #1**

### **Extended warranty packages**

Specify length of extended warranties and providers  
Itemize costs for all extended warranty packages

## **OPTIONAL BID #2**

Substitute Fuller 10 speed transmission with the following:

### **Automatic transmission**

Allison 4560RDS, programmed for five (5) speed operation  
All cab mounted warning lights and temperature gauges  
Transmission shall have a dash mounted push button controller  
Provisions for speedometer pick-up for ground speed controller  
Low speed capabilities of approximately 5 MPH at rated RPM without braking  
Top speed at rated RPM shall be 55MPH

## **OPTIONAL BID #3**

Substitute Fuller 10 speed transmission with the following:

### **Automatic Manual Transmission**

Eaton Ultrashift Plus Vocational Transmission  
All cab mounted warning lights and temperature gauges  
Transmission shall have a dash mounted push button controller  
Provisions for speedometer pick-up for ground speed controller  
Low speed capabilities of approximately 5 MPH at rated RPM without braking  
Top speed at rated RPM shall be 55MPH  
Coordinate with the Road Commission and Eaton representative for applicable model.

**OPTIONAL BID #4**

Substitute rear tires and wheels with the following;

**Tires and Wheels**

Michelin X-ONE XDN2, 455/55R22.5, load range L  
14.00x22.5 aluminum, 10 bolt mount, severe duty wheels

**OPTIONAL BID #5**

Add the following:

**Engine**

Include provisions for rear engine power take-off (REPTO)  
Delete provisions for front engine power take-off (FEPTO)

Antrim County Road Commission contact: Ron Chapman, Shop Foreman 231-587-8173 or  
E-mail (preferred) at [rchapman@antrimcrc.org](mailto:rchapman@antrimcrc.org)

The Antrim County Road Commission reserves the right to accept or reject any or all bids, to waive any irregularity or defect in a bid, or to accept the bid which in the opinion of the Road Commission is in its best interest.

Burt R. Thompson, P.E.  
Engineer-Manager