



Antrim County Road Commission

JEROME DOBRZELEWSKI, Elmira
FRED HUNT, Jr., Bellaire
GLENN PARADIS, Kewadin
BURT R. THOMPSON, P.E., Engineer-Manager
DALE E. FARRIER, Office Manager

December 17, 2015

NOTICE TO TRUCK BIDDERS

Sealed bids will be received for the purchase of two (2) current model year tandem axle trucks until 1:00 PM, Monday, January 11, 2016, 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 two (2) current model year tandem axle cab and chassis' having a GVWR of 64,000 pounds. These trucks will be used as heavy duty road maintenance vehicles and will be equipped with underbody scrapers, 13 foot all-purpose material spreaders with on board pre-wet capabilities, front snow plows and side mounted snow wings.

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	64,000 pounds
Wheelbase WB	205 inches
Cab to Trunion CA	Approximately 132 inches
After frame EOF	65 inches
Bumper to Back of Cab BBC	123 inches
Front axle FA	Set back with a capacity of 20,000 pounds
Rear axle RA	46,000 pounds

Exact specifications are to confirmed with the body builder prior to ordering

The Road Commission has awarded the 2016 bid for body building to Truck and Trailer Specialties of Boyne Falls, contact Butch Cone, 1-800-549-3500

Engine

Detroit Diesel Model DD-13 or Cummins Model ISX12
410 HP at rated RPM, 1550 lb/ft torque at rated RPM
Must meet 2010 EPA/Carb emission regulations
DEF tank and hoses, of sufficient length. to allow for relocation by body builder
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 AGM 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
Real time vehicle system monitoring software shall be installed and activated at the time of delivery, coordinate with the Road Commission for contact information

Aftertreatment device

If possible, the aftertreatment device is to be of a compact design
To be located vertically, behind the cab, on the passenger side

Transmission

Eaton Ultrashift Plus Vocational Transmission
Eaton-Fuller Model FO-16E308LL
All cab mounted warning lights and temperature gauges
Transmission shall have a pedestal mounted, T handle style controller
Vehicle speed sensor shall have dual leads, to allow for ground speed sander control connection without splicing
Low speed capabilities of approximately 5 MPH at rated RPM without braking
Top speed at rated RPM shall be 55MPH
Must maintain 24" ground clearance
Driveline to have all 1810 half-round u-joints

Frame

Single rail frame
Frame shall have these minimum specifications:
Section modulus 21.0 in³
RBM 2,500,000 inch pounds
120 KSI
Front frame extensions, 20" minimum
Front frame reinforcement as necessary for front mount snow plow
65" end of frame
Rear most cross member shall be tubular
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
Iron, hub piloted, hubs
Rear ends are to be of an axle lock design and shall be controlled from the cab
Synthetic 75W-90 rear axle lube
Hendrickson Haulmax rear suspension, 10.5" ride height
Four (4) heavy duty shock absorbers

Braking System

Braking system shall be air disc design
Heavy duty calipers with dual pistons
ABS to be 6S/6M with driver controlled ATS shut-off
All steel tanks, must maintain 24" ground clearance
Air dryer with governor and heater
Rear brake geometry to allow for asphalt spreader

Chassis equipment and fuel tanks

Omit front bumper
Front mounted tow hooks, coordinate with bodybuilder for placement
No rear mud flaps or brackets
Transit fuel tank only

Tires and Wheels

Michelin XZY-3 385/70R22.5 20 ply front tires
Michelin XDE M/S 11R22.5 16 ply rear tires
All wheels shall be steel and sized appropriately
All wheels shall be 10 bolt, hub piloted severe duty with two hand holes

Cab Exterior

Aluminum/galvanized steel air ride conventional cab
Bolt on flexible front fender extensions
Integral halogen headlights
All exterior lighting, with the exception of the headlights, are to be LED
Integral stop/tail/turn/backup lighting with 7 feet additional wire at rear
Auxiliary wiring harness to the front of the truck, to allow for plow and fog lights
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
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
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
Deluxe high back air suspension driver seat with lumbar support and armrests
Standard suspension passenger seat
Firewall mounted suspended brake pedal
Door operated dome light
All interior lighting to be LED
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
Electric 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, switches are to be on individual 20 amp circuits. Switches are to factory labeled as follows; one (1) switch cover to be blank, one (1) labeled "strobe light", two (2) labeled "work light"
Switch for plow light package
Switch for fog light circuit
Turn signal switch with dimmer and washer/wiper control
Factory installed battery disconnect, to located on the cab floor outboard of the driver's seat
When in the disconnect position, the switch shall disable all circuits
If necessary, the disconnect switch shall allow for an automatic delay for DEF system purging

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; contact the Road Commission for currently owned software.
Provide on-site technician training as needed
Provide on-site warranty repairs

Extended warranty packages

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

Miscellaneous

All warranty start dates will be after completion by the body builder and considered road ready by the Road Commission
Contact the Road Commission for review of order specifications prior to the truck being ordered

Bid Submission

Complete listing of specifications must be included with bid
Enclose informational brochures
Specify approximate lead time

Pricing to be FOB Mancelona, MI

Bids shall be placed in a sealed envelope and marked "**2016 CAB & CHASSIS BID**"

Antrim County Road Commission contact: Ron Chapman, Shop Foreman 231-587-8173 or
E-mail (preferred) at 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