



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

February 20, 2012

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 in³
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

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