

Bidder agrees that the bid may not be withdrawn for a period of sixty (60) days from the actual date of the opening of the bid.

**TWO (2) HEAVY DUTY, DIESEL POWERED,
TANDEM AXLE TRUCKS, GVW - approx. 66,000#
Current Model Year 2015, to Be Equipped for Plowing
Snow - TOTAL COST**

\$ 240,000.00

Submitted by:


Signature

Grand Traverse Diesel Service, Inc
Company Name

Daniel J Walters President
Name and Title (Print)

194 Memorial SCommons
Company Address

231-943-4488
Phone Fax

Travese City MI 49685
City, State, Zip

Corporation
Sole proprietorship/partnership/corporation

Michigan
If corporation, state of corporation

REFERENCES: (include name of organization, address, contact person, daytime phone number, and length of time services have been performed).

1. Grand Traverse County Road Commission Tim Trudell
1881 La Franier 231-929-9290

2. Truck & Trailer Specialiës Butch Cone 231-549-3500
00399 US 131 Boyne Falls, MI

3. _____

SPECIFICATIONS: TWO (2) HEAVY DUTY, DIESEL POWERED, TANDEM AXLE TRUCKS, GVW - approx. 66,000#, current model year 2015, to be equipped with the following after being received by the City: Stainless Steel Dump Box, Underbody Scraper, Front Snow Plow Hitch, Hydraulics, and Misc. Equipment

Western Star 4700SB, or Equivalent

TRUCK - CAB AND CHASSIS

Note: Design of truck to allow an underbody swing blade with a one piece, 1" circle, at 20" minimum clearance for a 12' underbody blade.

BIDDER PROPOSES TO FURNISH

Make and Model of truck bid Western Star 4700SB
GVW: approx. 66,000#

✓

Wheelbase: approx. 196" with setback front axle. Wheelbase length MUST be suitable to accommodate a 12' underbody scraper. Due to the low transmission mounting position wheelbase may be affected on some makes/models of trucks. Truck bidder to confirm wheelbase length with body company for suitable installation of 12' underbody scraper.

✓

Frame: Straight full length heavy duty channel frame 1/2 x 3.64 x 11-7/8 steel 120,000 psi yield strength, partial frame reinforcement at front suspension.

✓

After Frame (AF): Approx. 70".

✓

Frame Extension: Straight through integral one piece frame extending 24" beyond front grill. No bolt on or welded extension shall be used. Front PTO provision – for hydraulic system-drive mounted under radiator.

✓

Frame fasteners: Hex headed grade 8. No huck bolts.

✓

Front bumper "delete" (Body Company to fabricate new bumper).

✓

C.T. approx. 132"

✓

**BIDDER PROPOSES
TO FURNISH**

Allow suitable distance between cab and dump box for fuel/hydraulic tank. Also truck Dealer to confirm C/T dimension with body company to allow for emission equipment.

✓

Conventional cab with super visibility fiberglass hood. Front clip to tilt, for easy access to engine compartment. Grill to be stationary, to allow opening clearance over the front snow plow hitch.

✓

Engine: There are various diesel engines available with 1,650 ft. lb. of torque, 450 horsepower. Please bid all available engines available with 1,650 ft. lb. of torque. Standard or lowest cost engine to be included in bid. Optional engines should include any up charge.

Engine make and model bid: DETROIT DD13 450 hp 1650 ft. lb. torque

Optional engines:

Engine make & model: _____ hp _____ ft. lb. torque

Additional cost: + or - \$ _____

Engine make & model: _____ hp _____ ft. lb. torque

Additional cost: + or - \$ _____

Engine make & model: _____ hp _____ ft. lb. torque

Additional cost: + or - \$ _____

Engine: Full Extended Warranty 7 years.

✓

"Jacobs" brand compression brake.

✓

1350 Adapter flange for front PTO provision.

✓

Engine to have composite or stainless steel oil pan. Please specify.

Composite

Automatic shutdown system, (with shutdown override) manufacturer's original equipment. System to shut down from loss of oil pressure, high coolant temperature, or low coolant. Bidder to indicate name and model of system bid:

DETROIT

To include "Virtual Technician with remote visibility," with web access.

✓

**BIDDER PROPOSES
TO FURNISH**

Electronically governed engine.

Electronic accelerator and throttle.

Engine idle shut-down set for ten minutes.

Engine will require in-line check valve(s) and fuel shut off kit.

Fan Clutch: Manufacturer's standard.

110 volt engine heater.

Air Cleaner: Dry element type - with in-cab air restriction indicator.
Winter engine air intake shall be from under the hood and draw from
the driver's side of the truck. This is intended to provide dry engine
intake air during snow plowing operations.

Oil Filter: Full flow cartridge - or Spin-on
Engine mounted oil cooler.

Fuel Filter: Shall be remote and shall include a heated fuel water
separator.

Fuel Shutoff: For filter change w/o loss of fuel.

Fuel Tank: Shipping tank only. All valving shall be supplied in the
fuel system to allow for high mounted fuel tank. Equipment supplier
to install combination fuel/hydraulic tank between cab and body.

Magnetic Plugs/Traps - Located on engine and transmission drain,
and axles, fill and drain.

Transmission: Eaton Fuller 8LL Ultra Shift Plus.

Electronic transmission customer access connector, blunt cut, mounted
between driver and passenger seats.

Pedestal Mount Shifter.

"Synthetic" Transmission Fluid.

Transmission oil temperature gauge, backlit, dash mounted.

Transmission: Full Extended warranty: five years.

Heavy duty air or water to oil transmission cooler.

**BIDDER PROPOSES
TO FURNISH**

Front Axle: Heavy duty 20,000# Setback for maneuverability.	<u>✓</u>
Bidder to state (outside to outside) turning radius of truck:	<u>Attached</u>
Front Suspension: Front springs: Capacity - 23,000#	<u>✓</u>
Drag Link & Tie Rod ends - with grease zerks	<u>✓</u>
Heavy Duty Front Shock Absorbers	<u>✓</u>
Steering: Integral power steering with external cooler.	<u>✓</u>
Oil lubricated front wheel hubs. Scot seal oil seals. With fill plugs and windows.	<u>✓</u>
Rear Axle: Heavy Duty 46,000#, RT-46-160p or equiv.	<u>✓</u>
Traction Differential, driver controlled, air operated. Full locking (all wheels) Driver controlled in-cab air operated switches for the power divider and cross axle lock functions.	<u>✓</u>
Rear Axles to be geared: (to be determined after bid is awarded). Gear ratio bid: (approx. 6.14)	<u>✓</u>
Asphalt spreader clearance rear brake geometry.	<u>✓</u>
Drive Line: SPL250.	<u>✓</u>
Rear Suspension: Hendrickson HN462 - 46,000# capacity w/torque rods and four heavy duty shock absorbers.	<u>✓</u>
Brakes: Air (full) with 19 cu.ft. compressor.	<u>✓</u>
Anti-Lock Air Brake system-Wabco 6S/6M with traction control and switched shut off.	<u>✓</u>
S-Cam Brakes.	<u>✓</u>
Parking Brake: Air (Mfgr. standard).	<u>✓</u>
Automatic Moisture Ejectors.	<u>✓</u>
Low pressure warning light and buzzer.	<u>✓</u>
Air Dryer Bendix-Westinghouse AD-9 with heater.	<u>✓</u>
Haldex automatic slack adjusters.	<u>✓</u>
Front and Rear dust shields.	<u>✓</u>
Scottseal Rear Oil Seals.	<u>✓</u>
Rear brake chambers shall be "Haldex GoldSeal".	<u>✓</u>

**BIDDER PROPOSES
TO FURNISH**

- Air Tanks shall be mounted inside/between truck frame rails. ✓
- Air Tanks, mounting brackets and straps. ✓
- Air and electrical lines suspended away from frame members. ✓
- Alternator: 160 amp - 12 volt system. ✓
- Batteries: 3 - group 31, absorbed glass mat, mounted under passenger seat. ✓
- Battery box mounted under passenger seat and vented to outside of cab. ✓
- Wire ground return for battery cables with additional frame ground return. ✓
- All wiring to be laser etched and color coded. Numbered every 4 inches
- Marine grade in-cab switches. ✓
- Exhaust: Vertical exhaust system with configuration so as not to interfere with the mounting of combination tanks, dump body, and underbody scraper. System to have a minimum of 24" ground clearance. Equipped with 90 degree outlet(s). Stainless steel heat shields shall cover exposed vertical piping. There shall be a minimum of 3" clearance maintained between the truck frame, cab, and exhaust piping. ✓
- Engine after treatment device. Automatic over the road regeneration, and dash mounted regeneration request switch. ✓
- R H outboard frame mounted vertical after treatment system w/top stack. ✓
- Thirteen gallon diesel exhaust fluid tank. ✓
- Bidder to provide warranty information for the exhaust/emission system proposed.
Warranty: 5 year 100,000 miles,
- Directional Signals: Steering column mounted, non-self-canceling type, with four way hazard flashers, and heavy duty turn signal flasher. ✓
- 2-1/2 # fire extinguisher mounted outboard of driver's seat. ✓

**BIDDER PROPOSES
TO FURNISH**

Interior Color / Cab Trim: Color to be charcoal / graphite. High level, to include, but not limited to: cloth head liner, carpeted rear cab panel and lower doors, molding around doors, windows, and B-pillar, arm rests and sun visors (both sides). Deluxe sound suppression cab insulation pkg. Flooring: Black rubber mat, double insulated.

✓

Ignition and door keys shall be the same, all chassis ordered at the same time shall be keyed the same, there shall be four (4) keys supplied for each chassis. All Trucks to be keyed the alike.

✓

Conventional cab to include:

Severe service galvanized steel construction.

✓

Air cab mounts.

✓

Stainless steel sill plates.

✓

Passenger Door lower visibility window.

✓

Fender extensions.

✓

Cab mounted front anti-spray mud flaps.

✓

Grab handles, RH and LH (interior and exterior).

✓

Tinted windows, All.

✓

Air Conditioning.

✓

Cab fresh air intake to be filtered.

✓

Heater/Defroster: Hi Output.

✓

Dual Air horns, cab roof mounted, with shields.

✓

Electric Horn, manufacturer's standard.

✓

12 volt power point - dash mounted.

✓

Radio: AM-FM with digital clock and Blue Tooth, Factory installed.

✓

Four in-cab radio speakers.

✓

Power windows LH and RH with controls on driver's side.

✓

Interior dome light to operate when either door is opened.

✓

Sun Visors, LH and RH.

✓

Beverage Holder.

✓

Tilt, Steering Column.

✓

Seatbelts: 3 point adjustable D-ring retractor, LH and RH,
High visibility orange.

✓

Diagnostic interface connector (see pg. 3).

✓

Body Builder wiring provision passing through the cab to the rear of cab.

✓

**BIDDER PROPOSES
TO FURNISH**

Seating: Bostrom 915 wide ride hi-back, air suspension driver's seat with (2) air adjustable lumbar support. Companion seat to be manufacturer's standard. Both seats to be cloth covered. Seat placement to allow for mounting of hydraulic controls, etc. between seats.

_____ ✓ _____

Exterior Color: "School Bus" Yellow or equiv. Color to be approved upon bid award. Frame shall be black.

_____ ✓ _____

Mirrors: LH and RH Heated Stainless Steel, 6x16 west coast type with LH and RH 8" auxiliary convex type mirror, mounted below primary mirrors.

_____ ✓ _____

Gauges: Instruments to be Line Haul gauges with circuit breakers, Back lighted; to include, but not limited to: Air pressure, Oil pressure, Engine Water Temperature, Fuel, Tachometer, Speedometer, Odometer, Volt/Amp, Transmission Oil Temperature, Fault code readout.

_____ ✓ _____

Speedometer to have standard vehicle speed sensor with additional signal for customer use located between driver and passenger seats.

_____ ✓ _____

Hour Meter, ignition activated, mounted in-dash. Stand alone meter.

_____ ✓ _____

Snow Plow light wiring provision to the front of the truck.
Shall include both plug halves to wire into aftermarket plow lights.
Wiring and Switch. (marker and head light).
Windshield wipers: Electric, two speed, with intermittent feature.
Windshield washers: Electric with outside of cab reservoir.

_____ ✓ _____

_____ ✓ _____

_____ ✓ _____

_____ ✓ _____

_____ ✓ _____

Lighting: FMVSS #108 compliant. LED lighting requested for all lights. Lights to be rubber mounted, shock resistant, with weather-pak or waterproof connections. Rear lighting for transportation purposes only. Body company to install rear lighting.

_____ ✓ _____

NO MULTI-PLEX WIRING-No exceptions.

_____ ✓ _____

Four extra ignition controlled switches in cab, 20 amp, w/indicator lights.

_____ ✓ _____

Tires: front - *Michelin XDN2 315/80R 22.5

_____ ✓ _____

rear - *Michelin XDN2 315/80r 22.5

_____ ✓ _____

If the above tires are not available, please contact the City for an acceptable alternative.

BIDDER PROPOSES TO FURNISH

Wheels:

Front: Heavy duty Aluminum - ten (10) hole disc Hub Piloted.

✓

Rear: Heavy duty Aluminum - ten (10) hole disc hub piloted unimount 9".

✓

Hubs, steel, painted black, Rims white.

✓

Cooling System:

SCA or OAT Extended Life Coolant (100,000 change interval)

set to -34 deg. F.

OAT

Heavy duty radiator, design to provide sufficient cooling and allow for the extension of the crankshaft under the radiator and the mounting of a pump in front of the radiator. There shall be a minimum of 4" clearance in alignment to the crankshaft and engine slant.

✓

Steel lower radiator and oil pan guards.

✓

"Blue Stripe" hoses.

✓

Constant tension hose clamps for coolant hoses.

✓

Coolant Recovery system, with steel reservoir.

✓

NOTE: It is the responsibility of truck cab & chassis bidder to coordinate with body supplier. If the body/equipment supplier has to make modifications the truck bidder will be charged time and materials to correct problem. City must approve dealers "order confirmation sheet" before final order is submitted. Successful bidder to provide "line sheet" and "cab electrical schematic" at time of delivery.

✓

Warranty: Full warranty, seven (7) years with \$0 Deductible.

✓

Warranty to begin on the in-service date of each truck.

✓

Truck Dealer: Please indicate a local authorized repair facility where warranty service, if needed, may be performed. GRAND TRAVEL DIESEL SERVICE, INC

If dealer does not have a local authorized repair facility can/will you contract with someone locally to do warranty repairs if necessary? N/A

Bidder to include detailed information on each component of the warranty.

**BIDDER PROPOSES
TO FURNISH**

WARRANTY WORK: The City of Traverse City may, with prior approval, perform any minor warranty work within the warranty period. City of Traverse City to be reimbursed "time and material" for this warranty work. If major work is to be performed, it will be the responsibility of the successful bidder to pick up, repair as necessary, and deliver the vehicle back to the City of Traverse City, at NO cost to the City.

_____ ✓

One copy of operation manual as well as complete electrical and hydraulic schematics, including part numbers and wire/line sizes. Shop and Parts Manuals to be provided for everything (including all installed items.) This shall be furnished at time of delivery.

_____ on line

All items to be painted, installed, and fully operational. All phases of installation to be reviewed with Dave Courtad prior to installation. Pre-paint inspection required.

_____ ✓

Completed unit and all equipment to be in compliance with all applicable State, Federal, ANSI, and OSHA regulations in effect at time of manufacture.

_____ ✓

Bidders must also submit, with their bid, a copy of the manufacturer's published literature, on all the equipment (and accessories) they propose to furnish.

_____ ✓

INSTRUCTIONS TO BIDDERS:

All bids must be submitted through a truck dealer. Truck dealer will be the one receiving the purchase order for the completed vehicle. If an equipment dealer wishes, they may submit a bid utilizing their equipment and a truck dealer's truck. In so doing they will receive the purchase order and be responsible for the completed vehicle. Only one purchase order will be issued and payment will be made after vehicles are satisfactorily delivered.

IF YOU HAVE ANY QUESTIONS, PLEASE CALL MR. DAVE COURTAD, 231-922-4900, EXT. 111. Questions should be asked BEFORE the bid is submitted.