



## Newaygo County Road Commission

935 EAST ONE MILE ROAD  
WHITE CLOUD, MI 49349  
Phone (231) 689-6682  
Fax (231) 689-5994  
[www.newaygoroads.org](http://www.newaygoroads.org)

 Find Us On Facebook

### **NOTICE TO BIDDERS**

Sealed bids will be received by the Board of County Road Commissioners of Newaygo County, at their office at 935 East One Mile Road, White Cloud, MI 49349, on Wednesday, April 28, 2021, until 8:00 a.m. for the following:

- **One, new model year, 6 x 4 cab & chassis unit  
(dump body with slide in sander)**

Specifications and bid forms may be obtained by calling the Road Commission offices during regular business hours at 231-689-6682, by email [admin@newaygoroads.org](mailto:admin@newaygoroads.org) or online [www.newaygoroads.org](http://www.newaygoroads.org)

All proposals must be in sealed envelopes, plainly marked as to item bid and shall bear the name of the bidder. All bids shall be on Road Commission bid form.

The Newaygo County Road Commission hereby notifies all bidders that it will affirmatively insure that in any contract entered into pursuant to this advertisement, disadvantaged business enterprise will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of sex, race, color or national origin in consideration for an award.

The Board reserves the right to accept or reject any or all bids, to waive any irregularities in the bids and to make award in any manner they deem to be in the best interest of Newaygo County.

BOARD OF COUNTY ROAD COMMISSIONERS  
OF  
NEWAYGO COUNTY

William Gonyon, Chairman  
Douglas Harmon, Vice-Chairman  
Louis J. Meeuwenberg, Commissioner

## **SPECIFICATIONS – DUMP TRUCK**

Specifications for one, new model year, 6 x 4 cab & chassis unit to be equipped with a front mounted hydraulic pump, underbody scraper, frame mounted crysteel ripraptor dump body, 304 stainless steel V-box slide in spreader body, electronic groundspeed control, hydraulic pre-wetting system, side wing and front mounted snow plow hitch with high speed one-way snowplow. Vehicle to be complete and fully operational, standard factory equipped including, but not limited to the following;

GVWR – approximately 64,000 lbs.

WB – approximately 204 inches

CA –approximately 131 inches

AF - approximately 70 inches

ENGINE – Diesel, prefer minimum of 425 H.P. at 1800 R.P.M., 1350 lbs. ft. torque, 12.8L or larger, with engine compression brake. To be equipped with lube oil cooler, lube filter, fuel filter, and water filter.

AUTOMATIC TRANSMISSION - Allison HD4500RDS 6-speed wide ratio with water to oil cooler, dash mounted temperature gauge, TranSynd fluid, and a push button shifter.

FRAME –110,000-PSI yield strength straight frame with “C” channel reinforcements. Integral frame to extend 27 inches in front of grille with adequate front crossmember for mounting snowplow hitch. Cab to end of frame proper length for 13-foot dump body installed approximately 24 inches back of cab. Minimum of 24 inches ground clearance with full payload required for underbody scraper mounting. Option for single channel frame with similar specs. will be considered.

FRONT AXLE -20,000 lb. with oil type seals. Springs to be equal or exceed axle capacity. Heavy-duty front shock absorbers to be installed.

REAR AXLES - 46,000 lb. RT 46-160 Rockwell 5:38 ratio with driver controlled locking differentials, to disengage at approximately 25 M.P.H., in front and rear and driver controlled locking power divider, mounted with a 46,000 lb. air suspension with 54-55 inch axle spread, to include dual ride adjusting valves and air dump switch with engagement warning light.

DRIVE LINE – 1810HD Dana Spicer main driveline with half round yokes. 1710HD Dana Spicer interaxle driveline with half round yokes.

RIMS- Aluminum, heavy-duty hub piloted flanged nut metric mount 12.25” dc 22.5” for front (11,000 lb rating), 8.25” x 22.5” for rear (10,000 lb rating.)

TIRES FRONT - 385/65R22.5 18 ply steel radials

TIRES REAR - 12Rx22.5 16 ply mud and snow type steel radials.

BRAKES - Rockwell, full air, cam type with spring loaded diaphragm type emergency brakes on rear. Maximum effective lining area. Front minimum 16.5 x 6 inch S-cam with type 24 chambers. Rear minimum 16.5 x 8.62 inch S-cam with type 30 chambers. Dust shields on all wheels. Meritor automatic slack adjusters on front and rear. Hub piloted drums. ABS, and front and rear extended brake package. Option: Full or front disc.

**AIR SYSTEM** - Minimum 18.7 CFM gear driven water-cooled compressor with air dryer. Air reservoirs with heated moisture ejectors. Dash mounted air gauges and low air warning device. All air tanks and plumbing, air dryer, etc. must be mounted so as not to interfere with above frame fuel tank, dump body and underbody scraper installation. Truck is to be equipped with a combination tractor/trailer valve, hand lever trailer brake valve, plumbed to glad hands at rear of frame.

**COOLING** -Heavy-duty radiator and charge air cooler, matched to engine and drive train. Antifreeze protection to -40 degrees F. Replaceable coolant filter. Silicone hose package with constant torque clamps and straight radiator hoses with metal sections and elbows desired. Also, include the manual override switch for engine cooling fan.

**CAB AND HOOD** - Full size, fully insulated aluminum cab (steel only as an alternate) with dark interior, and heavy duty, black insulated back, floor mat. Tilt type fiberglass hood with, stationary grille, with rock guard. Exterior assist handles on both sides. Dual arm rests and sun visors.

**ELECTRICAL AND GAUGING** - 3-12 volt, maintenance free batteries with sealed terminals. CCA to exceed the engine requirement. Minimum 100 Amp alternator. Color-coded wiring and conveniently located circuit breaker panel. Easy access, quick disconnects gauges and lights. Full gauging including mechanical oil pressure, electronic speedometer, odometer, and tachometer, hour meter, volt meter, water temperature, fuel level, and air pressure. Switch for power R.H. window. Backup alarm. Halogen headlights. Panel and interior lights. 12-volt power outlet. Low oil pressure and high temperature warning device and engine shutdown. All lights (LED), reflectors and accessories to conform to the laws of the State of Michigan, including flush mounted marker lights, backup lights and hazard switch. Truck is to be wired and equipped with a seven wire trailer plug to rear of frame for trailer hookup.

**EXHAUST SYSTEM** - Vertical muffler with cab mounted vertical stack mounted behind cab on right hand side, complete with guard and grab handles. To include automatic over the road regeneration and a dash mounted switch; outlet to be curved stack.

**AIR CLEANER** - Cartridge type, matched to engine, with restriction gauge. Capable of drawing air from inside or outside the hood, which is driver controlled.

**GLASS** – All glass shall be tinted. R.H. door glass to be self-defrosting and power controlled up and down by switch readily accessible to driver.

Option: heated windshield if available.

**HEATER, DEFROSTER AND AIR CONDITIONER** - High output deluxe fresh air type with dash-integrated air conditioning. Minimum cooling, 17,000 BTU/HR and heating 40,000 BTU/HR with manual speed, temperature and mode selection controls. Unit to have maximum airflow to heat or cool cab in adverse conditions. Defrosters should be capable of heating the door glass as well as the windshield. Silicone heater hose from engine to heater.

**MIRRORS** - Dual “West Coast” 7x16-inch heated, retractable mirrors, with 8-inch spot mirrors mounted below regular mirrors.

**SEAT** - Driver’s seat High Back 2000 National model 195, air ride. Cloth, not vinyl, seat must be at least 20 inches wide and securely anchored to floor with extra material if required. Excessive rocking or swaying of seat

assembly may be reason not to accept vehicle. Retractable, safety orange seat belts to be installed. Standard shock absorbing, fixed base, cloth, companion seat.

RADIO - AM/FM stereo, with clock and wx band. Mount for 2-way radio.

WINDSHIELD WIPERS - Dual, multiple speeds, electric with automatic type washers and intermittent feature.

AIR HORNS - Dual horns on single base mounted on L.H. side of cab.

THROTTLE - Capable of being locked in any position.

FRONT BUMPER - Heavy duty, minimum 40-inch straight center section with curved ends and step loops.

REAR BUMPER AND HITCH- Bumper capable of 9,800 lbs. Vertical Load and 49,000 lbs. Gross Trailer Weight. A pintle hitch (Holland part#PH760), mounted at 31" center height. Two 5/8" D-rings, 7-way trailer connection socket, and glad hands.

COLOR - Omaha orange, base coat clear coat, on cab. Black enamel on bumper and frame.

FUEL AND HYDRAULIC TANKS - 120-gallon fuel tank, minimum 7 gauge steel. 30-gallon hydraulic oil tank, minimum 7 gauge steel, installed behind cab above frame. Depending on chassis exhaust configuration, tank dimensions may have to be modified in order to allow for proper exhaust clearance. Equipment vender will be required to submit a drawing for Newaygo County approval prior to installation. Tank mounting hardware shall be of heavy-duty construction bolted to truck frame and independent of all underbody and dump body equipment. Fuel tank must have adequate baffles and be securely welded at all seams and stress points. Fuel tank shall be equipped with an electronic gauge sender unit that will adequately display full range of tank capacity. Hydraulic tank mounted on right hand side with oil level indicator on tank. Hydraulic tank shall be equipped with a top mounted Zinga type, 10-micron, return line oil filter. Filter shall be equipped with a drop hose to discharge oil to within 6" of bottom of tank and shut-off valves on all other lines. Hydraulic tank shall also be equipped with an electronic low oil sensor with an indicator light mounted in cab console. Float type sensor will not be acceptable.

DEF TANK – Adequate size and capacity to be filled with every two tanks of fuel with cover that fully encases the tank for protection.

HYDRAULICS & GROUND SPEED CONTROL – Engine to be equipped with crankshaft adapter to receive a flange yoke of a Spicer 1300 series slip shaft and universal joint drive, which will drive a Rexroth load sense pump model or equivalent pump, 2" flange inlet, 1.125" outlet, mounted as close to grill as possible. The low oil sensor in the hydraulic tank shall be wired to a normally open solenoid shut down valve mounted on the pressure side of pump, with an on /off/momentary control switch in the cab, via a Bosch type relay. In a low oil situation, the pump shall be automatically neutralized. Low oil over ride shall be incorporated into the switch. The switch shall be three-position on/off/momentary on type. The momentary portion of the switch shall be wired to the low oil override system to allow the operator to engage the pump momentarily to stow equipment prior to transport. System shall be equipped with a Parker 30P-1-10Q-BM-25-5161 high pressure filter in the main pressure line between the pump and valves. A Compu Spread model CS430 open loop electronic groundspeed spreader control or equivalent along with a Rexroth M4-12 flow control valves or equivalent will be used. System to contain all necessary flow divider valves and controls for up and down pressure and swinging underbody scraper, up and down pressure of front mounted snow plow, dump body, side wing, pre-

wet, auger and spinner of slide in spreader body. Adjustable pressure reliefs pre-set at proper P.S.I. for operation. Pressure gauge for underbody scraper down pressure and all controls mounted in or on console in cab between seats. Hydraulic spool valves may be mounted to truck frame in a sealed stainless steel enclosure, with air controllers. System shall incorporate ball valves at tank and proper filters. System shall be capable of operating scraper, plow, wing, dump body and spreader individually or simultaneously without interfering with the efficiency of each other. Electrical wiring shall be run through conduit for the length of spreader body and use "Weather Pack" connectors for removable connections.

**UNDERBODY SCRAPER** - Complete 12 foot hydraulic scraper with cab controlled power reverse with standard equipment including 1 inch hanger board, full length solid hinge shaft, 1 inch x 20 inch x 12 foot moldboard with two 3.5 inch diameter double acting horizontal hydraulic cylinders with heavy duty spring-shock assemblies, two 4 inch power reversing cylinders, 1 inch solid circle with no lockpin notches, heavy duty circle hangers and required relief and check valves and mounting hardware. Bidders to include a complete and accurate description on unit offered.

**FRONT PLOW HITCH** - One Husting 34" quick hitch truck portion complete, will be mounted on front of truck so as not to impede servicing of hydraulic system and not to impede tilting of hood. Plow lights will be hood-mounted, with Dominion Automotive light kit #725548. Headlights to be wired and switched opposite of truck lights.

**FRONT PLOW** - High speed slotted trip one-way snowplow with Husting 34" quick hitch. Moldboard length 14'4", 35" nose height, 64" discharge height, 5/8" x 8' x 11' center punch cutting edge, 108" push width, with slotted trip moldboard.

**RIPRAPTOR DUMP BODY** - Length 13', inside width 84", approximately 10 cu. yd. capacity. Dump body shall be fabricated from 3/16-inch high strength (145,000 psi. yield) steel with 26-inch radius to a 3/16" floor, incorporating a "Western" crossmemberless design with tubular longsills. Sides shall be 42" with 2" wide sideboard pockets and boxed top rail. Front shall be high enough to provide adequate cab clearance with 1/2 cab shield. Tailgate shall be vertical 54" high with fully boxed upper and lower rails, and slotted chain keepers with sufficient chain to allow tailgate to lay flat, with driver controlled, air actuated tailgate latch. Fenders shall be flat to accommodate 100/120 gallon, poly pre-wetting tanks. All welds shall be continuous. Dump body shall be primed and painted to match truck cab. Lights (LED) and reflectors shall meet Federal FMVSS No. 108 with stop/turn taillights (LED) to be recessed and mounted high in rear corner pillars. Front trunnion-mounted; telescoping, double acting, hoist cylinder shall have an operating pressure of 2000 PSI. To provide 39 tons of lifting capacity, NTA Class 110, to a 50-degree dumping angle with body props to support empty body weight. Option: Same specs. in stainless steel body preferred.

**SIDE WING** - Install 7' mid mount wing including the following, 7 ft moldboard length, 27" intake height, 28" discharge height. 4"x 4" x 3/4" bottom angle. A 4" x 10" toe cylinder, 3" x 10" heel cylinder. Moldboard will be 3/16" construction with 3/8", one piece ribs. Heavy duty, spring cushioned push arm with shear pin. Front cross tube with mounting plate. Safety chain shall be installed for transport. Wing Post shall be mounted just ahead of the front drive tire with the rear push arm mounted behind the rear drive tire. Wing Post shall be equipped with a u shaped support at the top of the wing post. Rear push arm is to be equipped with a 6" cushion spring. Rear push arm support brace shall be constructed of 4" x 6" x 1/4" tubing and shall be supported by both frame rails. Hydraulic circuit for the wing shall be equipped with a sequencing valve for proper operation of the wing. The sequencing valve shall have built in load checks to prevent the wing from drifting down when not in use. Sequencing valve shall have built in, manually adjustable flow controls. Wing is to be equipped with

hydraulic disconnects for easy removal. Wing will also be equipped with a cushioned rubber stop to prevent it from hitting the body when placed in the stored position. All welding on the moldboard shall be continuous. Wing components and moldboard shall be shot blasted and powder coated. Install work light on frame of truck to illuminate wing. Install poly light box mounted on the end of the wing with a red LED light. Install reverse curved steel cutting edge.

Option: paraglide mounting

SLIDE IN SANDER BODY - 13", 8 cu. yd. V-box, slide in sander shall be constructed of 304 stainless steel. Sides shall be 56 inches high with a slope not less than 45 degrees. Body shall be continuously welded and incorporate lift hooks at each corner. Conveyor shall be a 24" wide pintle type chain with 3/8" crossbars on 4-1/2" centers with replaceable floor and bolt in chain shields. Conveyor drive shall consist of a 50:1 gearbox, with a White hydraulic motor, turning 2" diameter shafts with 8-tooth sprockets riding in self-aligning flange bearings equipped with grease fittings. Chain tension adjusters and front bearing grease fitting shall be extended to rear of spreader for external adjustment and maintenance. Tailgate shall have a screw jack adjustable opening for conveyor discharge and a detachable chute assembly that contains an air operated, cab controlled, and diverting door to divert flow of material from either a 24" UHMW spinner or a road centerline delivery chute. Chute and centerline delivery chute are to be lined with UHMW material and centerline delivery chute to have hinged cover to prevent buildup of snow and ice in chute. Spinner shall rotate clockwise and be enclosed except for adjustable discharge opening, directed towards centerline of road. Spreader body and chute assembly hydraulic and air hoses to be equipped with quick disconnect couplers.

PRE-WETTING SYSTEM – A hydraulic driven, positive displacement bronze gear pump rated at 7 GPM shall be installed inside a sealed enclosure. Also included in the prewet system shall be a manually adjustable proportional flow divider that provides the selected gallons per ton ratio. Control valve shall include a normally open solenoid valve for system on/off. Also included shall be a cab mounted on/off switch and low liquid light. The prewet system shall be driven off the exhaust flow of the main conveyor. Two 100/120 gallon liquid reservoir tanks, to be mounted on dump box fenders. Spray nozzles shall be installed in spinner chute to pre-wet materials just before reaching spinner. Pump enclosure, liquid reservoir, nozzles, and mounting hardware should be of heavy-duty construction, and readily removable for summer storage. Electrical wiring shall be run through conduit for length of frame and use "Weather Pack" connectors for removable connections.

TARP SYSTEM - Rollrite model RR503 electric tarp system will be installed on dump box.

EXTRA LIGHTING – Top, green strobe light with guard, to be mounted on tarp box on cab shield. Alternating flasher light system to be incorporated into rear of dump body, consisting of Trucklite model 60 S/T (LED) or equivalent and a 537-flasher unit. Sander light to be directed toward spinner discharge area. A work light, taillight, and clearance light shall be mounted for the wing. Extra lighting shall be driver controlled with switches mounted on console between cab seats.

MISCELLANEOUS - Vehicle batteries shall be isolated from system by a master disconnect switch, on the negative or ground side of circuit, mounted inside the left rear corner of cab. Tow hooks shall be mounted on rear of chassis. Front tapered bumper shall include, treadplate, filler plates on each end, and have stirrup steps on each side.

WARRANTY – Bidders shall include the minimum coverage on the following:

- Basic Vehicle 1 Year or 100,000 miles
- Brightwork 1 Year or 100,000 miles
- Cab Corrosion 5 Years or 300,000 miles
- Cab Structure 5 Years or 300,000 miles
- Cab Paint 1 Year or 100,000 miles
- Chassis Paint 1 Year or 100,000 miles
- Chassis Corrosion 1 Year or 100,000 miles
- Crossmembers 5 Years or 300,000 miles
- Frame Rails 5 Years or 300,000 miles
- Driveline 2 Years or 200,000 miles
- After treatment 5 Years or 200,000 miles
- Engine 5 Years or 300,000 miles
- Transmission 5 Years or 300,000 miles
- Rearends 5 Years or 300,000 miles
- Hydraulics 1 Year or 100,000 miles
- Underbody Blade 1 Year or 100,000 miles
- Sander/Box 1 Year or 100,000 miles
- Pre-wetting System 1 Year or 100,000 miles

Bidder to include a complete and accurate description of unit bid. It shall be the responsibility of the successful bidder to make pre-delivery inspection of all mechanical operations of the vehicle for completeness and quality of workmanship. Successful bidder to supply diagnostic software and data link, service manual, operator’s manual, and parts manuals for truck, transmission, engine, chassis, hydraulic system, underbody scraper, dump body, spreader body, and pre-wetting system. Charges for title, registration, pre-delivery service, and all other such charges shall be included in bid. Bidder will supply delivery date. Please feel free to offer alternates or options with quotes.

After the bid is awarded, both the truck dealer and the equipment dealer will be required to attend a specification review and preconstruction meeting to be held at the Newaygo County Road Commission in order to assure the proper integration of both chassis and equipment components.

The Board reserves the right to reject or accept any or all proposals, or any part thereof, and to make award in any manner they deem to be in the best interest of the Newaygo County Road Commission.

# BID FORM

DUE BY 8:00 a.m. on Wednesday, April 28, 2021

Submitted to:

*Newaygo County Road Commission  
935 East One Mile Road  
White Cloud, MI 49349*

- **One model year "new" cab & chassis unit** \$ \_\_\_\_\_  
Per specifications
  
- **Upfit of cab & chassis  
(dump body with slide in sander)** \$ \_\_\_\_\_  
Per specifications

**DELIVERY DATE** \_\_\_\_\_

*Submitted by:*

Company: \_\_\_\_\_

Name: \_\_\_\_\_

Street Address: \_\_\_\_\_

City: \_\_\_\_\_

State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

Email: \_\_\_\_\_