
WEXFORD COUNTY ROAD COMMISSION

OUR MISSION IS TO IMPROVE AND MAINTAIN A SAFE AND EFFICIENT ROAD SYSTEM

The Wexford County Road Commission will be accepting sealed bids until 2:00 p.m., Friday, January 21, 2022 at their office at 85 W. M-115, Boon, MI 49618, on the purchase of the following:

Furnishing and installing the following equipment onto one (1) 2023 tandem axle Western Star 4900:

- a. Front Plow Hitch
- b. Plow Lights
- c. Para-glide Patrol Wing
- d. Hydraulic System
- e. Rexroth Bosch CS-550/150 spreader/joystick controller
- f. Combination Reservoir
- g. Lighting Package
- h. Tow Hooks
- i. Install County owned material: underbody, rear cross auger and RDS box
- j. Chassis Spray Bar System

Specifications and bid sheets can be obtained at the above address or by visiting www.wexfordcrc.org.

All bids must be submitted in a sealed envelope bearing the name of bidder, item being bid, and clearly marked as a sealed bid.

The Board reserves the right to reject any or all bids, waive any defect in the bids and make awards in any manner deemed to be in the best interest of the Wexford County Road Commission.

The Wexford County Road Commission, in accordance with Title VI of the Civil Rights Act of 1964, 78 Stat. 252, 42 USC 2000d to 2000d-4 and Title 49, Code of Federal Regulations, Department of Federally-assisted programs of the Department of Transportation issued pursuant to such Act, hereby notifies all bidders that it will affirmatively insure that in any contract entered into pursuant to this advertisement, minority business enterprises will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of gender, disability, race, color, or national origin in consideration for an award.

WEXFORD COUNTY ROAD COMMISSION

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Truck Equipment and Installation on one (1) 2023 tandem axle Western Star 4900.

Bids due Friday, January 21, 2022 at 2:00 p.m.

The following specifications are for equipment installed on one (1) 2023 tandem Western Star 4900. To be used as a highway maintenance vehicle, equipped with a heavy duty Radius Dump Body stainless steel spreader, tarp, underbody scraper, bidirectional cross auger, patrol wing, and related equipment. All components installed and in working order. THIS BID FORM MUST BE USED WHEN SUBMITTING A BID and any specification exceptions must be fully explained and will only be considered if advantageous to the Wexford County Road Commission. Please mark each item with “Yes” if it meets specifications or “No” if it doesn’t, and explained the deviation from the specifications. Equipment needs to be pre-qualified before bid. BID MUST BE SEALED AND CLEARLY MARKED ON OUTSIDE OF ENVELOPE AS A SEALED BID.

1. FRONT PLOW HITCH:

- a. Hustings style heavy duty 34” wide Quick Hitch, top of hitch shall be gusseted with 3/8” plate. Plunger pins shall have grease zerks and secondary locking tabs. Lift arm shall include pivoting booster arm with (3) ½ grab hooks. Plow cylinder shall be hydraulic double acting cylinder with the following specifications: 3” diameter bore and 10” stroke nitrated socatri 1000 shaft – Boss O-ring ports. Hitch shall be bolted to a heavy duty structural channel. 12” minimum 20.7 lb., front bumper with flare back and boxed ends. Hitch shall include upper and lower bracing. Hitch, bumper and bracing shall be installed with grade 8 nuts and bolts; to include extended brackets for hood cables & pull back support cable. Supply chain box approximately 8” tall X 8” wide X 12” ling, solid sides ¾” #9 expanded metal bottom. All to be epoxy. Primed and painted urethane black.
Yes_____ No_____ Deviations explained_____

2. PLOW LIGHTS:

- a. Auxiliary plow lights and turn signals. Nordic Truck Light model N520 hood mounted, custom built ¼” thick X 4” wide aluminum brackets with fiberglass in hood support plates, height to be determined at time of installation. Chassis manufacture to supply in-cab switch and harness.

Yes_____ No_____ Deviations explained_____

3. **UNDERBODY SCRAPER:** Cushion valve and relief to be supplied by truck builder.

SUPPLIED BY WEXFORD COUNTY ROAD COMMISSION

4. **WING PLOW, MONROE MODEL 9D FWMB PATROL BEHIND SCRAPER MOUNT, 9 FOOT:** (to include Ottawa County style clamp)

Monroe 9D FWMB Para-Glide Design

Make and Model bid: _____

- a. Wing shall be designed to mount behind the underbody blade, moldboard length shall be 113 inches at the top and 108 inches at the bottom, height shall measure 33" inboard and 33" outboard including cutting edge.

Yes_____ No_____ Deviations explained_____

- b. Moldboard shall be 3/16" A36 steel; top of moldboard formed into a 2-3/4" X 1" channel for additional strength. All seams and joints shall be 100% continuous welded.

Yes_____ No_____ Deviations explained_____

- c. Bottom angle shall be 4" X 4" X 3/4", reinforced between the cutting edge holes with ten (10) 3" X 3" X 1/2" gussets. Shall include six (6) 1/2" moldboard reinforcement ribs tapered from 4" at the bottom to 2-1/2" at the top.

Yes_____ No_____ Deviations explained_____

- d. There shall be two (2) horizontal reinforcement angles between the discharge end last two ribs, bottom 4" X 3" X 1/2" reinforcement angle shall have seven (7) evenly spaced 5/8" holes for pusharm adjustment, top 4" X 4" X 1/2" reinforcement angle shall have seven (7) evenly spaced 5/8" holes for pusharm adjustment.

Yes_____ No_____ Deviations explained_____

- e. Pivot pin shall be constructed of 1-1/2" steel. Front attachment pivot plate will be 1/2" steel, completely boxed and supported with 1/2" and 3/16" plate. Pivot tube for the 1-1/2" pivot bolt shall have a minimum .625" wall and be welded 100% to the inside of the 1/2" plate and outside of the moldboard.

Yes_____ No_____ Deviations explained_____

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- f. A ½” safety stop eyelet and a ½” centered lip loop shall be on the front of the moldboard.

Yes_____ No_____ Deviations explained_____

- g. Cutting edge shall be 9’ in length 5/8” thick X 8” tall AASHO punched recurved style. Moldboard shall be equipped with three (3) shoes. Shoes shall be bolted on with the cutting edge. One (1) shoe shall be installed on both the toe end and the heel end and one center mounted, and shall be heavy-duty cast iron construction. Cast iron shoes shall weigh approximately 75 lbs each. Bottom of shoe shall be cut at approximately 10 degrees to match attack angle of moldboard.

Yes_____ No_____ Deviations explained_____

- h. Shall have ½” X 4” X 6” cross tube passes behind the underbody blade circle and passing thru two (2) mounting plates, 36” tall X 12” wide X 1/2” for mounting the wing to the frame of the truck.

Yes_____ No_____ Deviations explained_____

- i. Para-Glide structure shall be no more than 24” high and 14” wide. Post weldment shall be manufactured with a .750” inside mounting plate and a matching .500” outer plate. A .375” Ex-Ten 50 front base plate will set the width of the post, support the .500” inner lower hinge brackets and the .750” bottom cylinder mounts. Internal reinforcement with a .500 HSLA radius plate shall be welded to both side plates and the front base plate. The post weldment will serve as anchor for three trailing link assemblies. The upper and lower link arms shall be .750” radius bar with a 1.750” machined hole on each end. The upper arm assembly will be reinforced with a 2.500” schedule 80 pipe at the front. The lower arm assembly will be reinforced with a 2.500” schedule pipe at the front anchor and .500 HSLA x 5.000 plate to the rear. The lift/float link will be .500” bar with a radius at the anchor end, reinforced with a 2.500” schedule pipe. The rear of the lift link will be 1.000” plate reinforced with .625” bar and will include two .625” upper cylinder mounts. The rear lift weldment shall have an outer 1.000” and inner .500” bar with radius ends and machined 1.750” holes. Bars shall be spaced and supported with two 2.500” schedule pipes and two .500” x 4.000” triangular gussets. The hinge shall consist of three 1.000” thick radius ears that have 1.438” machined holes, spaced evenly and reinforced with two .250” x 2.000” x 2.000” angles. All 1.750” machined holes will have Rc 50 hardened bushings. Hinge pins shall be 1.500” OD, case hardened to Rc 55-60. Hinge pins shall be retained with machine bushings and .250” roll pins. There shall be 10 grease zerks. Lift cylinder shall be a 3.000” ID x 5.000” stroke with a 1.500” industrial hard chrome rod. Hydraulic port(s) shall be .562-18 ORB. Cylinder shall be attached within the post with 1.000” stress proof pins, machine washers and roll pins. Prior to assembly, the post will be shot blasted, washed and prepped prior to power coating black.

Yes_____ No_____ Deviations explained_____

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- j.** The bolt for retaining the moldboard shall be 1-1/2 – 6 X 7 G8 HHCS Zinc plated with castle nut and cotter pin. Bolt shall be drilled for the cotter pin.

Yes_____ No_____ Deviations explained_____

- k.** Lifting action for the heel end of the wing shall be a single 3” ID x 15” stroke, 2” nitrated rod, 3/4 - 16 ORB ports, polypak seals, double acting hydraulic cylinder. Heel cylinder shall be attached to the upper rear pusharm slide assembly.

Yes_____ No_____ Deviations explained_____

- l.** Wing shall be operated by hydraulic lift; no cables or chains shall be accepted.

Yes_____ No_____ Deviations explained_____

- m.** Rear wing mount shall be fabricated from 5” X 7” X 3/8” mild steel tubing, and shall include two (2) 28” X 18” X 1/2” frame attachment plates with 5” X 7” openings. Rear channel pusharm/cylinder mounting plate shall include two (2) 1/2” plates, flame cut with three (3) offset mounting holes to mount the rear pusharms and the heel lift cylinder. The rear upper pusharm shall be equipped with an external slide assembly to allow for mechanical float and attachment of the heel lift cylinder and the rear pusharms and heel lift cylinder shall be attached with 1-1/4” Bolts.

Yes_____ No_____ Deviations explained_____

- n.** There shall be two (2) rear wing heavy duty, 2-1/2” schedule 80, adjustable, spring cushioned lift arms including safety shear pins, 6’ long fully extended. Wing shall be capable of mounting with an overlap to the scraper discharge to prevent a window between the scraper and the wing moldboard.

Yes_____ No_____ Deviations explained_____

- o.** All fabricated components shall be shot blasted and washed prior to powder coating; mounting components shall be powder coated black, Moldboard shall be powder coated orange, with a minimum curing time of 25 minutes, at temperature of no less than 400 degrees.

Yes_____ No_____ Deviations explained_____

- p.** Mounting hardware shall include (3) schedule 80 pipe bracing, six (6) pipe balls, a flame cut 3/4” support plate, Grade 8 nuts, bolts and washers necessary for a complete installation.

Yes_____ No_____ Deviations explained_____

- q.** One (1) sequencing valve shall be supplied with the wing and shall be adjustable for both the up sequencing of the wing and the down sequencing of the wing. Lock valves shall be built into the sequencing valve to prevent both the toe and heel cylinder from drifting when in the stored position. The sequencing valve shall allow wing to hydraulically drift up when in the plowing position and shall be equipped with an adjustable metering valve to control the speed at which the blade drops when going from the stored position to the plow position.

Yes_____ No_____ Deviations explained_____

- r.** Installation shall also include:

1. Stainless steel quick couplers, caps and plugs
2. 3/8" Hi Test safety chain and grab hook
3. Stand Alone 60 Series LED strobe light and LED ICC light – both installed in a stainless steel 60 Series light box, mounted on discharge end of moldboard and to include in cab switch and weather pac for ease of removable.

Yes_____ No_____ Deviations explained_____

5. HYDRAULIC SYSTEM:

- a.** Front mounted piston pump, crank shaft driven load sense hydraulic system to operate a double acting front plow hoist, scraper up & down, scraper reverse, double function wing, double acting Dump Body, RDS rear discharge conveyor chain, bi-directional cross auger, spinner assembly. All capable of simultaneous operation

Yes_____ No_____ Deviations explained_____

- b.** Solenoid positive pump shut off with relay connected to low oil switch and in-cab momentary over ride switch.

Yes_____ No_____ Deviations explained_____

- c.** System shall consist of a 1300 Series Spicer driveshaft including slip yoke and proper angle. 8.9 minimum cubic inch load sense piston pump.

Yes_____ No_____ Deviations explained_____

- d.** Rexroth, model M4-12 LSA, 9 - bank valve, EPC. With mid inlet feature, No Exceptions. (9th bank will be for future left wing up-fit).

Yes_____ No_____ Deviations explained_____

- e. 5 – Bank EPC all banks double acting, plow 13 GPM, scraper up/down, scraper reverse 16 GPM, wing function shall be 19 GPM, and Dump Body 34GPM. LS feature (Pressure limiting) on scraper down, dump body down.
Yes_____ No_____ Deviations explained_____

- f. 3 - Bank EPC, main chain 24 GPM single acting, cross auger 15 GPM double acting, spinner 8 GPM single acting.

Yes_____ No_____ Deviations explained_____

- g. Valves to be installed in a stainless steel enclosure, location to be determined at installation.

Yes_____ No_____ Deviations explained_____

- h. Cross auger to be ground speed triggered to start and stop with main conveyer Includes ground speed interrupt. Yes_____ No_____ Deviations explained_____

- i. Supply line from reservoir to pump shall be 2-1/2” minimum ID SS hard pipe with short hose assemblies at each end.

Yes_____ No_____ Deviations explained_____

- j. Piston pump – main pressure line shall be minimum 1” stainless steel pipe with 3,000 PSI rated jumper hoses with swivels each end.

Yes_____ No_____ Deviations explained_____

- k. Hoses, fittings and adaptors: All hose to have crimp type fittings and have abrasive resistant sleeve covering in high wear areas. All clamps to be lined with abrasive resistant sleeve. Routing of pressure hoses shall be on the left side of engine as to stay away from turbo heat, using proper Stainless Steel extension hangers and to leave room for service of engine filters.

Yes_____ No_____ Deviations explained_____

- l. Hydraulic System shall be filled with AW32 oil, pressures set and system tested.

Yes_____ No_____ Deviations explained_____

6. HYDRAULIC CONTROLS:

Plow, underbody up/down/reversing, wing, and dump box shall be Electronic Proportional Control, using Rexroth Bosch 150RC joystick controller NO EXCEPTIONS, Controls shall be mounted on an armrest pedestal, designed to also house tarp switch, air-Gate control, low oil light and momentary over ride switch

Yes_____No_____Deviations explained_____

7. SPREADER CONTROLS: Rexroth Bosch CS-550, No Exceptions

Open loop control system used for simultaneously controlling the spreading of Granular materials in conjunction with ground speed.

CS 550 features:

- Full CAN bus system.
- Ability to simultaneously control spreader and joystick functions:
 - Conv/Spinner /Auto Gate/Reverse
 - Conv/Spinner/Cross Conveyor
 - Conv/Spinner/Chute
 - Conv/Spinner/Airgate
- Display Screen.
 - Glass/film/glass 5-wire touch screen, hardness of 7H
 - 7" Wide VGA 800x480 pixels, 262144 colors
 - Adjustable backlight, brightness of 400 cd/m2
- 3 detented knobs, metal housing, stainless shaft rotation torque of 8 oz-in.
- USB encrypted security key for setup and data logging.
- Auto-null, Auto-Calibration, and Auto-Catch Test.
- Built in ground speed simulator.
- Supports infra-red temp sensors.
- All wiring harness have integrated molded diagnostic LEDs.
- All sensor inputs use M12 connectors with stainless steel housing.
- All valve outputs use AMP Junior Timer connectors.

Specifications:

- Proportional Outputs 6 channels
- Digital Outputs 2 channels
- Frequency Inputs 3 channels
- Switch Inputs 6 channels
- Analog Voltage Inputs 5 channels
- Analog Current Inputs 4 channels

All inputs protected and filtered.

Note: Shall include GPS and wi-fi antenna.

Yes_____ No_____ Deviations explained_____

8. FUEL AND HYDRAULIC COMBINATION RESERVOIR:

Tanks shall be designed to be installed in conjunction with a vertically mounted DPF/SCR exhaust system. The fuel hydraulic tanks shall be 7ga. 201SS construction. The Fuel Tank shall be 110 gal.capacity. The hydraulic tank shall be 40 gal. capacity. The fuel and hydraulic tanks shall be integrated into a single, integrally constructed unit. The mounting of the tank shall include four mounting pads and shall be equipped with rubber bushings and mounting bolts. Supports for the tanks shall be constructed of 4" 7.25 structural channel. The mounting brackets shall extend from the right frame rail and shall cantilever to the outside the left frame rail. Labels included.

The fuel tank shall include ball valve shut off valves on both the supply and the return fuel lines to facilitate changing of fuel filter. The proper fuel gauge sending unit shall be installed. The vent for the tank shall conform to the engine manufactures specifications. The tank shall also be equipped with a magnetic drain plug.

The hydraulic tank shall include a 3" supply port with a Zinga top of the tank mounting flange. The filter shall be equipped with an internal drop tube and an anti-siphon device. A solid state, low oil sending unit shall be installed in the side of the tank. A float type sender will not be acceptable. A 5" sight/temperature gauge shall be installed on the side of tank. The tank shall be full of AW32 hydraulic oil.

Yes_____ No_____ Deviations_____

a. Hydraulic Tank also includes:

- Top of tank 1 ½" return with drop pipe.
- Zinga suction strainer, part # 2030-3.
- Zinga return filter, RF1215-S-1 with RE-409-10 micron element.
- 2 ½" -¼ turn full flow ball valve installed at the reservoir outlet.

Yes _____ No _____ Deviations _____

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b. ACCESSORIES:

- 201 Stainless Steel Serrated grate steps, drivers side end of mounting saddle, size and location to be determined at installation.
- Decals as to the contents, “Diesel Fuel” or “Hydraulic Oil”.
- Low oil light and alarm system installed in the cab.
- Momentary over-ride switch installed in the cab.

Yes _____ No _____ Deviations explain _____

WIRING: All wiring from rear of cab to rear of the RDS spreader to be run in PVC pipes, then into an 18 pin Betts junction box mounted on left rear corner of spreader. From the junction box, all wiring to be run through air brake line with brass fittings including all lights and back-up alarm.

Yes _____ No _____ Deviation explain _____

9. LIGHTING:

Heated LED work lights to include (Maxxima MWL-19-A-MH); Two (2) blade work lights, installed to shine on blade, lead and discharge. 1 (one) spinner work light installed to shine on spinner. Work lights to be connected to in-cab switches, one for each light. Exact location of lights to be determined at installation.

Yes _____ No _____ Deviation explain _____

Front strobes; Soundoff #ELB45BCHOGG, installed forward of the tarp system with lense guard and shall be visible from 360 degrees. To include (2) corner mount single oval 304SS enclosures with (2) 60 series; LED Strobes # EOVBREBZA.

Yes _____ No _____ Deviation explain _____

NOTES: All lights, number of switches, and arrangement will be determined at installation.

10. REAR TOW HOOKS:

Extra Heavy Duty, Safe working load of 44,600 each. Installed, one each side of frame. All bolted, using grade 8 hardware. Beware of wing cross tube and brackets. May have to incorporate into reinforced wing side plates.

Yes _____ No _____ Deviations explain _____

12. FRONT TOW HOOKS:

Extra Heavy Duty, Safe working load of 44,600 each.
Installed, one each side of frame; mounted to minimum 1” thick X 10” wide;
extended below front bumper. To include 4” minimum channel cross member
reinforcement, all bolted using grade 8 hardware.

Yes _____ No _____ Deviations explain _____

Note: The county road commission will furnish a Monroe model RDS-168-56-96 HD material spreader and rear bi-directional rear mounted cross auger sander. Delivering to the builder.

Any needed maintenance and/or repairs to the RDS will not be a part of this installation, but will be handled under a separate agreement.

13. Install County Owned RDS, to include the following:

- New Mailhot Telescopic Hoist system complete, cylinder, upper and lower trunion blocks, hoist saddle cradle.
- Complete new rear hinge system, paddles, and pins, and grease-able.
- Supply necessary wire, connectors and loom to existing lights.
- Replacing all carbon steel piping with stainless steel, including extra lines needed for cross conveyor and wing functions. Also to include 3,000 PSI jumper hoses each end.
- Install new air operated Series parallel valve.
- Supply and install all new hoses, fittings and adaptors, from Series parallel valve to the SS piping and from the SS piping to the dual main conveyor drive, cross auger and spinner.
- Upgrade manual tail gate system to air operated including in cab control, mac air solenoid and switch.
- Roll-Rite tarp system model 6416, shall be fully automatic, 4 spring system, wind deflector, tarp spool, aluminum tension and tarp bows, in-cab switch, indicator light and circuit breaker, 20 ft. heavy duty mesh tarp, complete and installed.
- Between the frame rail cover plate. 2 pc 10 gauge stainless steel to include lifting handles – installed to protect chassis components, air valves, brake canister, air tanks, etc.

Above to be installed as specified

Yes _____ No _____ Deviation explain _____

15. Rear mounted cross auger sander: Supplied by Wexford County Road Commission

Monroe MS 9669-DD-DD-SL

This sander is currently mounted on RDS box that will be supplied to builder.

Any needed maintenance and/or repairs to the sander will not be a part of this installation, but will be handled under a separate agreement.

Some Modification to Cross Auger and Spinner assembly may be needed
Consult Wexford County on the mounting of this assembly.

NOTES: All mounting bracketry and hardware for cross auger and spinner assembly to be non-rusting 201/304SS.

17. Chassis in Frame spray Bar System:

Consisting of 1 1/4" schedule 80 PVC main run. Approximately 14 nozzles, adjustable style. Clamped in place using stainless steel hardware. To include cam lock and necessary fittings for complete installation. This is to be installed under the stainless steel cover plate. Wexford County would want to be involved in lay out of this system.

Yes _____ No _____ Deviation explain _____

OPTION:

18. Cameras (2)

One camera to be located on rear of box for backing purposes and another camera to be located in front of box for inspecting amount of material in the box with 7" LED color monitor. Using compressed air and washer solvent from TRUCK system to keep lenses clean.

19. Left wing provision

Option to have hydraulic system plumbed for later installation of a Monroe left hand wing with paraglide system, 9' FWMB patrol style at a later date.

NOTES:

1. Successful bidder shall consult with County prior to installation of components for placement and order of operation.
2. Bid form must be used when submitting a bid and any specifications and / or exceptions must be fully explained. Please mark each item “YES” if it meets specifications or “NO” if it doesn’t and explain the deviation from the specification.
3. The Board of Road Commissioners of Wexford County reserves the right to accept or reject any and all bids, to waive any irregularities in bids and to make the award of the bid in the best interest of the County. Special consideration will be given to a bidder based on past performance with regard to ability to stock and supply parts and components. The speed in which parts and components are received from suppliers, location of the facility to ship and deliver is very important.
4. County wants to be invited to the installation shop to go over all phases of placement and installation of equipment and hydraulics.
5. The successful body vendor shall provide hands-on training for the service personnel and operators of the County Road Commission.

The intent of these bids is for a turn key operational truck. Direct any questions to Travis Smith, Wexford County Road Commission, (616)-862-3043.

The undersigned certifies that all above specifications and conditions will be equaled or exceed and all requested information has been completed.

Bid cost: _____

Completion date (after cab & chassis have been delivered to body builder) _____

Company Name: _____

Address: _____

Phone: _____

Printed name and title: _____

Signature: _____

Bidders must provide four (4) reference organizations, contact name and phone numbers / email address, for which similar work has been completed:

1. _____
2. _____
3. _____
4. _____

* Items advertised as standard equipment in manufacturer's current literature, but not included in the above specifications, must be furnished as standard equipment.

* Grader and all attachments must be delivered together as a complete package No exceptions

*Vehicle bid must meet all Federal, State & local safety standards.

*All bids must be submitted in a sealed envelope bearing the name of bidder, on this document, and marked as a sealed bid.

Tax exemption certificate will be signed upon request.

Total bid price for new unit according to above specifications:

Terms _____

The undersigned hereby certifies that he/she has examined, and has the authority to submit, this Bid Proposal and is fully informed as to the nature of the equipment to be furnished, and that all above conditions will be equaled or exceeded, and all requested information has been completed.

Company Name:

Submitted By (signature):

Address:

Name (typed or printed):

City, State, Zip:

Title (typed or printed):

Telephone:

Proposal Date:

Please contact Travis Smith, Fleet and Facilities Manager, at (231)775-9731, with any questions regarding these specifications.

