

CHIPPEWA COUNTY ROAD COMMISSION

Tandem Dump

It is the intent of these specifications to provide new equipment necessary to complete (6) six 2027 Peterbilt 567 tandem trucks for Chippewa County Road Commission; this shall include (6) dump bodies, (6) underbody scrapers, (6) plow hitches, (6) right hand patrol wings and related components and (6) front plows. These trucks and equipment are to be manufactured, installed and tested in accordance with all Federal, State and local laws and regulations in effect at the time of delivery; this includes but is not limited to ANSI A92.2 (2021/2022) and all OSHA/MIOSHA regulations. All equipment being bid must be field proven and have been in production for a period of not less than 5 years. All bidders must complete their installations of equipment in an approved installation and service facility, shall be turnkey and ready for operation when picked up.

All items referred to in this specification by the manufacturer's name, model number, or part number are referred to in this way to illustrate the minimum desired performance of the particular part. In all cases, products that equal or exceed the specification of the part listed will be considered as meeting the specification unless it is stated that no exceptions will be made for that particular part. The Chippewa County Road Commission must approve any substitutions prior to awarding the bid and will be the sole entity to determine equality of parts by manufacturers other than those specified. In order to approve alternate parts, the manufacturer's name, model number and part number **must** be included in the bid documents so that the Road Commission can obtain the specifications for that part and make the determination.

HYDRAULICS

- a. Transmission mounted, (selectable vs non-selectable) load sense hydraulic system to operate a double acting front plow hoist, scraper up & down, scraper reverse, single acting telescopic dump body hoist, double function wing, main conveyor chain and spinner assembly. All capable of simultaneous operation.

YES _____ NO _____

- b. System shall consist of a Load Sense 8.9 CIR piston pump. Direct mount automatic low oil shutdown system with a manual override.

YES _____ NO _____

- c. (6) Rexroth, model M4 12, 7-bank valve, 5-bank air shift and 2 bank EPC for dump bodies.

Must be able to operate front plow, unbody scraper (up/down/left/right), wing, box and main spinner.

YES _____ NO _____

- d. 5-banks air operated; plow 13 GPM, scraper, scraper reverse shall be 16 GPM. Dump body shall be 34 GPM and wing 19 GPM.

Option: One dump body unit shall have one additional bank for bi-directional front plow.

YES _____ NO _____

- e. (4) 2-bank EPC, Conveyor 16 GPM, single acting, spinner 7 GPM single acting.
(2) 2-bank EPC, Conveyor 24 GPM, spinner 7 GPM.

YES _____ NO _____

- f. Valves to be installed in a stainless-steel enclosure, mounted outside of the cab, location determined at installation.

YES _____ NO _____

- g. Plow/scrapper/scrapper reverse and wing shall be self-centering type controls, dump body control to include a lockout feature; controls shall be air proportional, configured for maximum clearance between handles by using 35/45/55-degree offsets, mounted on a custom-built pedestal between the seats.

YES _____ NO _____

- h. EPC valves, 2-bank – main conveyor, and spinner to be operated by a GST controller, with dash bracket, wire harness and valve cables.

YES _____ NO _____

- i. Chippewa County shall be consulted prior to installation of cab-mounted controls for placement and order of operation.

YES _____ NO _____

- j. Supply line from reservoir to pump, preferred stainless steel pipe, with short hose assemblies at each end, minimum 2- 1/2" I.D.

YES _____ NO _____

- k. Sander plumbing to the rear. Shall be stainless steel piping; (2) 1/2" and (1) 3/4", shall have jumper hoses each end rated minimum 3,000 PSI. And include (1) set of 3/4" and (2) sets of 1/2" stainless steel quick disconnects with caps and plugs.

YES _____ NO _____

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

YES _____ NO _____

m. Hydraulic system to be filled with AW32 oil, pressures set and system tested.

YES _____ NO _____

FUEL & HYDRUALIC COMBINATION RESERVIOR

- a. Tanks must be UL Certified, Meet FHWA requirements, 30 ft. drop and pressure tested. Tanks shall be combination Diesel & Hydraulic, two separate tanks, each constructed of 7-gauge steel mounted together using an angle iron carriage. Tanks are to set on neoprene cushion pads, including 1/4" retainers – total of ten; strapped in place using three spring loaded straps.

YES _____ NO _____

Fuel Tank:

- Mounted on street side, approximately 100-gallon capacity.
- Two evenly spaced baffles.
- Brass fuel cap.
- 1/2" supply.
- 1/2" return port, both supply and return, to include 1/2" - 1/4" turn ball valve top of tank mounted.
- Threaded moisture drain plug.
- ISSPRO Electric fuel sending unit.

YES _____ NO _____

Hydraulic Tank:

- Mounted on curb side, approximately 40-gallon capacity.
- AB screened fill cap.
- Oil sight tube.
- 3" flange to accept and to include 2" suction strainer, part # 2030-3.
- Top of tank flange to accept and to include return filter with RE-409-10 micron element.
- 1/2" low level port.
- 2- 1/2" - 1/4 turn full flow ball valve installed at the reservoir outlet supply line.
- 3/4"- 1/4 turn full flow ball valve installed at the reservoir outlet case drain line.

YES _____ NO _____

Note: Combination tanks may have to be designed to fit chassis selected; need to match capacities.

Accessories:

- Decals as to the contents, "Diesel Fuel" or "Hydraulic Oil".
- Low oil light and alarm system installed in the cab.
- Low oil monitor

- Momentary over-ride switch installed in the cab.

YES _____ NO _____

Fuel / Hydraulic Reservoir Installation:

- It should be installed behind the cab, keeping tanks as low as possible and including proper clearance for an extended back window.
- Tank should be rubber bushing mounted using grade 8 hardware.

YES _____ NO _____

STORAGE TOOL BOX

- Aluminum tool box, 18" X 18" X 18", door shall be manufactured of .125 aluminum tread bright, body to be manufactured of .125 smooth aluminum, shall be installed under driver side fuel tank in an angle iron frame with poly isolation strips and using stainless steel hardware. Tool box supports strong enough to hold weight of tow chains, jack and etc.

YES _____ NO _____

DUMP BODY

Crysteel Model HD Tipper or Chippewa County Road Commission approved equal

- Heavy Duty 7 gauge 304 Stainless steel dump body, 10 to 12 yard capacity, 168" long X 87" wide, 42" headboard, 34" sides, 42" tailgate height; all are inside dimensions. Note 87" width needed for slip in sander, **No Exceptions.**

YES _____ NO _____

- Body shall have a boxed top rail 304 non-rusting stainless steel with a reverse bend.

YES _____ NO _____

- Front / rear full depth corner pillars; front shall be 8-1/2" wide with 4" radius, rear 18" wide, both sloped to shed dirt, all manufactured of 7 gauge non-rusting 304 stainless steel.

YES _____ NO _____

- Double acting tailgate; top brace shall be inverted V, plus all horizontal braces shall be sloped to shed dirt, gate shall be manufactured of 7 gauge non-rusting 304 stainless steel.

YES _____ NO _____

- Tailgate hardware shall consist a minimum of:

- 1-1/2" thick 304 SS upper hinge.
- 1-1/4" diameter 304 SS upper and lower tailgate pins.
- Four 3/8" thick 304 SS chain slot brackets.
- Double ear lower tailgate latch sockets 304 SS.
- Rear pillar cap assembly 3/8" thick 304 SS.
- Tailgate lift loop 304 SS.
- 3/8" Hi Test galvanized chain sufficient length to allow tailgate to lay flat.
- All tailgate linkage including upper pins shall have greaseable zerks.
- Everything above the floor shall be non-corrosive stainless steel.

YES _____ NO _____

- f. Custom Cab-shield shall be 3/16" thick 304 SS 18" coverage, installed behind and below the cab-mounted strobe light welded 100% inside and out.

YES _____ NO _____

- g. Floor shall be minimum 1/4" thick, 1 piece AR400 180,000 PSI Tensile Strength with 6" front to floor radius and 6" side to floor radius- Radius built of A1011 Hi Tensile Steel.

YES _____ NO _____

- h. Understructure shall be I-beam construction, crossmember less.

YES _____ NO _____

- i. Telescopic Direct Mount, three stage single acting cylinder, 113" stroke, 7" base diameter, active stages shall be 6" – 5" – 4", chrome plated.

YES _____ NO _____

- j. Rear hinge assemble shall be heavy duty grease-able and removable rear hinge pins minimum 2-3/8" diameter.

YES _____ NO _____

- k. All pivot points, cylinder pins top and bottom and rear hinge shall be grease-able.

YES _____ NO _____

- l. Both Hoist and Body shall have a 5 year warranty; 3 year full warranty and remaining 2 years to have a 50/50 parts and labor plan.

YES _____ NO _____

m. Dump Box Accessories:

- Electronic back-up alarm.
- Two (2) grease-able body safety props.
- Heavy Duty ½" thick rubber mud flaps (anti-sail type) installed ahead and behind the drive axles, total of 4 flaps.
- Ladder style steps installed using 1-1/4" square tube up rights and 2 grip strut steps – complete ladder made of 304 non-rusting stainless steel – exact location to be determined at installation.
- One shovel holder installed left front corner of dump body, made of 304 non-rusting stainless steel.
- Inside Step. (304SS)

YES _____ NO _____

TARP SYSTEM

- a. (3) ROLL-RITE MODEL 6416, fully automatic aluminum system to include double arm system tarp and tension bows, four springs per side, aluminum tarp spool with aluminum wind deflector, direct mount motor and gear box, 30 degree cast aluminum elbows to give maximum clearance for loader, in-cab switch, light and reset-able circuit breaker and 20' heavy duty mesh tarp.

YES _____ NO _____

- b. 20' Heavy duty mesh tarp for summer use.

YES _____ NO _____

- c. For winter use, remove 20' mesh tarp and replace with 18-oz vinyl which has 12" flaps that fold out on each side, a ¼" rubber bungee woven in the 24" spaced grommets, and an 8" flap on the rear.

YES _____ NO _____

LIGHTING

- a. Front Strobes – (2) Amber/Green LED; installed one each side on chassis supplied stainless steel brackets.
- b. Rear strobes – (2) Amber/Green LED oval 60 Series: installed in rear corner post, one each side.
- c. Rear Back up Lights – (2) Clear LED Oval 60 Series, installed in rear corner post, one each side.
- d. Rear corner post shall have internal deflector to keep mud and snow from pulling wiring and connections apart.
- e. Federal 108 Led rubber shock resistant clearance lights and reflectors.

- f. Stop/tail/turn lights – (2) Maxxima model M90061R LED 7”, installed one each outside of the rear corner post of dump body in stainless steel brackets and a 3/8” X 1 1/2” rectangular frame manufactured of 304SS.
- g. Work lights – 4” LED, total of 4:
 - o (2) - 1 each side to shine on drag blade.
 - o (2) – 1 on each back rear corner. RR wired for reverse & LR wired for work light.
- h. All wiring to have heat shrink connectors, heat shrink tubing and to be routed through PVC for maximum protection
- i. Wiring to be terminated in a Betts Dri-Seal model 35104 junction box with waterproof choke seals.
- j. Rear corner post shall have internal removal poly deflector to keep mud and snow from pulling wiring and connectors apart.
- k. County to specify at time of installation, location and heights on all lights, junction box, and routing of wiring and switch arrangements

YES _____ NO _____

PAINT

- a. All carbon steel accessories, body props, cylinder, cylinder mount, etc, that are not 304 SS shall be primed and finish painted urethane black
- b. Complete underside of dump body floor and complete understructure, cross members, long sills, etc, shall be primed, painted black and under coated with 1001 Rust Free Undercoating

YES _____ NO _____

WING PLOW, BEHIND SCRAPER MOUNT, 9 FOOT:

(6) right hand mount

- 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” Scraper Mount, inboard and 33” outboard including cutting edge.

YES _____ NO _____

- 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 _____

- 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 _____

- 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 push arm adjustment, top 4" X 4" X 1/2" reinforcement angle shall have seven (7) evenly spaced 5/8" holes for push arm adjustment.

YES _____ NO _____

- 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 _____

- f. A 1/2" safety stop eyelet and a 1/2" centered lip loop shall be on the front of the moldboard.

YES _____ NO _____

- 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 _____

- h. Shall have 1/2" 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 _____

- 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 _____

- 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 _____

- 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, poly pak seals, double acting hydraulic cylinder. Heel cylinder shall be attached to the upper rear push arm slide assembly.

YES _____ NO _____

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

YES _____ NO _____

- 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 push arm/cylinder mounting plate shall include two (2) 1/2" plates, flame cut with three (3) offset mounting holes to mount the rear push arms and the heel lift cylinder. The rear upper push arm shall be equipped with an external slide assembly to allow for mechanical float and attachment of the heel lift cylinder and the rear push arms and heel lift cylinder shall be attached with 1-1/4" stress proof pins for quick attach and detach.

YES _____ NO _____

- 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 _____

- 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 _____

- p. Mounting hardware shall include (3) schedule 80 pipe bracing, six (6) pipe balls, a flame cut $\frac{3}{4}$ " support plate, Grade 8 nuts, bolts and washers necessary for a complete installation.

YES _____ NO _____

- 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 a adjustable metering valve to control the speed at which the blade drops when going from the stored position to the plow position.

YES _____ NO _____

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 pack for ease of removable.

YES _____ NO _____

UNDERBODY SCRAPER

Monroe model HD 4500 or Michigan Scraper model TMS201-12 Server Duty

(Minimum Requirements)

- a. HANGERBOARD: Designed and engineered for optimum strength. $\frac{1}{2}$ " formed plate reinforced by $\frac{1}{2}$ " X 7-1/2" flat plate to make full 1" thickness. 3.25"X .344" mechanical tube outer hinge tubes. $\frac{3}{4}$ " bar reinforced full length of the hinge. $\frac{3}{4}$ " thick trunnion arms. Outer trunnion arms shall be bolted to hanger board. Welded on is unacceptable. Shall include a Manifold bracket for the grease line kit, one installed each side of the hanger board.

YES _____ NO _____

- b. HINGE SHAFT: 2-1/2" OD X 96" long with (4) grease points and (3) hinge points. The two (2) outer hinges are 3-1/4" OD X 6" long with .344 wall thickness. Each outer hinge has (1) $\frac{1}{2}$ " wrap – around gusset, center hinge shall

be 3 1/4" OD X 10 3/4" long with .344 wall and have (2) 1/2" thick wrap – around gussets, including thrust bearing wear plates to prevent side to side shifting of moldboard.

YES _____ NO _____

- c. MOLDBOARD: 1" thick X 20" high X 12' long moldboard. Heat treated 1045 steel, 185 Brinell hardness, 89 ksi tensile. Integral pressed in lower offset. Rolled formed or fabricated moldboards will not be considered where the cutting edge bolts to the moldboard. 1/2" X 6" double beveled cutting edge with standard highway punched.

YES _____ NO _____

- d. SHOCKS & HOUSINGS: Cushioned by two (2) extra heavy duty spring housings, allow 600 PSI down pressure. Two (2) 1/2" thick flange retaining plates held by (4) 5/8" bolts with prevailing lock nuts. Housings to be slotted to relieve contaminants. Grease-able trunnion mount bushings are 2-3/4" OD with a .344" wall mechanical tube trunnion mount pins are 2" solid rod, bolt in removable and replaceable design.

YES _____ NO _____

- e. ACTUATING CYLINDERS: Shall be 3-1/2" bore X 10" stroke with 2" socatri 1000 piston rods, with poly pak seals and cast steel heads, 1/2" hoses and piping (supported with poly clamps) to be externally mounted for easy access. Prince in-line relief valve shall be supplied.

YES _____ NO _____

- f. CIRCLE: Shall be 1" solid one piece with infinite plowing positions (no notches), minimum cut out for power reverse cylinder travel and full front circle ears as to have clamps in full contact of circle at 45 degree angle for maximum circle bearing surface. 5" ID X 6.5" OD X 1" hardened center pin bushing.

YES _____ NO _____

- g. CENTER PIN: Heavy Duty 5" diameter, hardened center pin, zinc coated. Grease-able with 3 port grease journal and 5/16" wide X 3/16" deep grease groove around pin. Center pin is piloted into the hanger board.

YES _____ NO _____

- h. CLAMPS: 20.5 long X 7" deep X 1" thick. Shaped to follow the contour of the circle. 3/8" UHMW wear pads. Entire clamps must remain fully on the circle throughout the entire rotation of the scraper.

YES _____ NO _____

- i. REVERSE CYLINDERS AND HARDWARE: (2) 4" double – acting cylinders containing 1/2" #8 SAE ports, 2" socatri 1000 rods, poly pak seals, and cast steel

heads. 3" OD – 2" ID anchor pivots, 2" hardened zinc coated with spiraled grease groove removable pivot pins (grease-able at each end). Prince Cross over relief valve set at 2200 PSI to protect reversing cylinders from shock impacts.

YES _____ NO _____

- j. MOUNTING PLATES: ¾" thick custom tapered 35 X 26 X 22 full plate steel construction. With 7" X 7" cut out for ease of cleaning. Attached to the truck using ¾" grade 8 bolts, SAE washers and prevailing lock nuts that are electronically plated for corrosion resistance.

YES _____ NO _____

- k. PAINT: Shot-blasted, washed and powder coat paint TGIC polyester black. All parts are powder coated prior to assembly of scraper. Outer 12" of moldboard ends painted high visibility yellow.

YES _____ NO _____

- l. SERRATED GRADE SAFETY STEP: 12" x 12" welded to outer end of the moldboard on drivers side, optional 45 degree angle cut passenger side end of moldboard.

YES _____ NO _____

- m. GREASE LINE KIT: Remote grease kit that allows grease to be applied at centralized locations outside of the chassis frame. Grease hoses shall be SAE 107 Hytron hose rated at 3000 psi. Grease line kit will incorporate all 15 grease points on the scraper.

YES _____ NO _____

FRONT PLOW HITCH

- a. Front plow hitch shall be Husting's HD 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. Plow cylinder shall be hydraulic double acting cylinder and the following specifications: 3" bore and 10" stroke 2" socatri 1000 rod.

YES _____ NO _____

- b. Hitch shall be bolted to a heavy-duty structural channel, 10" minimum front bumper with flare back and boxed ends. Hitch shall include ½' X 2" bar stock upper bracing and 1" X 4" lower bracing. Lower bracing shall extend back between front spring hangers and bolt to truck frame rails. Hitch bumper and bracing shall be installed with grade 8 hardware. Unit shall be primed and painted urethane black. Install minimum ¾" X 3" "X" bracing on push arms. If factory bumper is used there will be an applied credit to the County for 10" fabricated structural channel bumper.

YES _____ NO _____

- c. Hitch installation shall include extended brackets from hood cables and pull back support cables.

YES _____ NO _____

PLOW LIGHTS

- a. Auxiliary LED plow lights and turn signals, hood mounted, custom built 1/4" thick X 4" wide aluminum brackets with fiberglass in hood support plates, height to be determined at time of installation to include in-cab 6-way switch and wire harness.

YES _____ NO _____

TOW HOOKS

- a. Two hooks shall be rear frame mounted, extra heavy duty minimum 44,000 lb rating, installed using 3/4" grade 8 hardware.

YES _____ NO _____

REAR PINTLE HITCH –option:

- a. Heavy Duty forged steel swivel type pintle hitch, 12,000lbs maximum vertical, 60,000lbs gross trailer weight, mounted to 3/4" full plate with reinforcements. Shall include two 3/4" safety chain D-rings 26,500lbs rated breaking strength. Body installer to relocate 7-prong trailer connector and air glad hands supplied by truck manufacturer. Height of pintle hitch and lay-out of D-rings, 7-prong connector and glad hands to be decided at installation by Chippewa County Road personnel.

YES _____ NO _____

NOTES:

- 1. Successful bidder shall consult with Chippewa County prior to installation of all 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 Chippewa 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 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 of ship and deliver is very important and will be highly considered.**
- 4. Chippewa 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 Chippewa County Road Commission.**

BID PER SPECIFICATION: _____

OPTION: ADD FOR OPTIONAL PINTLE HITCH: _____

**IF FACTORY BUMPER IS USED
CREDIT FOR CHANNEL BUMPER:** _____

EXPECTED DELIVERY DATE: _____

COMPANY: _____

ADDRESS: _____

PHONE: _____

SIGNATURE & TITLE: _____

DATE OF BID: _____