

# PRICE COUNTY HIGHWAY DEPARTMENT

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HIGHWAY COMMISSIONER Roger Petrick  
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SHOP SUPERINTENDENT Dan Heenan

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## EQUIPMENT REQUEST FOR PROPOSALS

September 8, 2022

Sealed proposals will be received by the Price County Highway Department for the furnishing and installation of the following pieces of equipment:

One (1) Tandem axle truck with Plow options.

One (1) dump body, hydraulic, winter plow package, and pusher axle.

Proposals can be combination Truck & Body package.

Proposals will also be accepted for Truck only or Body package only.

**Proposal envelopes must be sealed and marked "Tandem Axle Truck" and include the "Specifications and Proposal Form".**

Proposals will be received at the Office of the Price County Highway Commissioner until 10:00 AM, September 29, 2022, and opened publicly and read aloud at 10:00 AM, September 29, 2022.

Any questions can be directed to the department's Fleet & Facilities Superintendent, Dan Heenan, at [daniel.heenan@co.price.wi.us](mailto:daniel.heenan@co.price.wi.us) or by telephone at (715) 339-3081 ext.4.

The Price County Highway Department reserves the right to reject any or all proposals, or to accept any proposal they deem in the best interest of the Price County Highway Department.

**Minimum Specifications/Questionnaire Proposal Form**  
**One (1) Tandem Axle Truck with Plow Options**

Specify Chassis:      Make \_\_\_\_\_      Model \_\_\_\_\_      Year \_\_\_\_\_

	<u>Meets Specifications</u>		
	<u>Yes</u>	<u>No</u>	<u>Deviations</u>
<b><u>Engine:</u></b>			
• Diesel with minimum 470 HP 1650 Ft lbs.torque, 13 liter minimum	_____	_____	_____
Specify: Peak HP _____ @ _____ RPM _____ Ft lbs.torque    Make _____ Model _____			
• Engine block heater	_____	_____	_____
• Heavy duty air cleaner	_____	_____	_____
• Heavy duty cooling system	_____	_____	_____
• RH curved vertical tailpipe 11'6" height	_____	_____	_____
• Engine retarder	_____	_____	_____
• DEF tank mounted LH side. Minimum 6-gallon capacity.	_____	_____	Specify _____
• Exhaust after treatment mounted to provide maximum ground clearance for underbody scraper.	_____	_____	_____
• 12V heated fuel/water separator option	_____	_____	\$ _____
• Fuel tank high mounting forward most possible on the LH side frame rail, 100 gallon minimum, with steps incorporated into the fuel tank straps	_____	_____	_____
• Step arrangement under cab on driver's side providing maximum obtainable ground clearance.	_____	_____	_____
• Inside/outside air cleaner provision	_____	_____	_____
• Fuel priming pump	_____	_____	_____
• Plastic oil pan or equal	_____	_____	_____
• Front engine PTO provisions with 1350 adaptor flange	_____	_____	_____
• 39MT Delco starter with ECU software protection	_____	_____	_____
<b><u>Electrical:</u></b>			
• All exterior lights except headlights and taillights are to be LED	_____	_____	_____
• 160-amp alternator minimum.	_____	_____	Specify _____
• Three (3) Group31 800 CCA minimum threaded post batteries	_____	_____	Specify _____
• Battery box located in the cab beneath the passenger seat	_____	_____	_____
• Battery disconnect switch in the cab	_____	_____	_____
• External jump start provision	_____	_____	_____
• Individual gauge type instruments including speedometer, tachometer, oil pressure, coolant temperature, air pressure, voltmeter, fuel level, hour meter, transmission temperature and DEF level	_____	_____	_____
• Plow light switch in dash and wiring to hood for body builder installed plow lights	_____	_____	_____
• Additional speed sensor wire provided in cab for spreader control	_____	_____	_____
• Cruise control with minimum setpoint 0-20 mph.	_____	_____	_____
• Engine high idle capability with cruise switches or separate high idle switch (no timed shutdown)	_____	_____	_____
• Engine fan switch	_____	_____	_____
• Multi-function engine connector for body builder	_____	_____	_____
• Manual resettable or self-reset circuit breakers	_____	_____	_____
• CB installation provision, center mounted below header	_____	_____	_____
• One (1) dash mounted on/off switch wired to power for strobes	_____	_____	_____
• One (1) dash mounted on/off switch wired to power for HID's/work lights	_____	_____	_____
• One (1) dash mounted on/off switch wired to power for pusher axle Four (4) blank dash switches if available	_____	_____	_____

	<u>Meets Specifications</u>		
	<u>Yes</u>	<u>No</u>	<u>Deviations</u>
<b><u>Transmission:</u></b>			
• Allison 4500RDS 6-speed	_____	_____	_____
• Dash mounted push button shift control	_____	_____	_____
• Transmission temperature gauge	_____	_____	_____
• Top gear speed 68 MPH	_____	Specify MPH	_____
• Transmission ECU mounted in cab if available	_____	_____	_____
• Half round u-joints, no full rounds	_____	_____	_____
<b><u>Suspension:</u></b>			
• Front 20,000lb min flat leaf steer springs with HD shock absorbers	_____	_____	_____
• Rear 44,000lb min Tuftrac suspension or equivalent with HD shock absorbers	_____	_____	_____
<b><u>Power Steering:</u></b>			
• Heavy duty, dual steering gear, compatible with steer axle rating	_____	_____	_____
• Power steering cooler	_____	_____	_____
<b><u>Axles:</u></b>			
• 44,000 lb. min rear tandem drive with locking power divider.	_____	Specify	_____
• Front and rear drive wheel differential locks with individual dash mounted switches & dash indicator lights	_____	_____	_____
• Steer axle 20,000 lb. min set forward	_____	Specify	_____
• Front suspension components to be greaseable	_____	_____	_____
• Synthetic gear lube in front hubs and rear axles	_____	_____	_____
• Specify Gear Ratio	_____	_____	_____
<b><u>Brakes:</u></b>			
• Full air, all wheel drum brakes	_____	Specify	_____
• Stainless steel clevis pins	_____	_____	_____
• 4S4M ABS, no traction control	_____	_____	_____
• ABS ECU mounted in cab if available	_____	Specify	_____
• ABS blink code switch	_____	_____	_____
• Heated air dryer, Bendix model ADIP or equivalent mounted outboard LH rearmost of rail	_____	_____	_____
• Air compressor minimum capacity of 18 cfm.	_____	Specify	_____
• Air tanks mounted inside frame rail flanges	_____	_____	_____
• Front mounted 30/30 brake chambers on drive axles with auxiliary support brackets	_____	_____	_____
• Trailer package at rear of frame	_____	_____	_____
<b><u>Frame:</u></b>			
• Heavy duty, single, full channel, 3,000,000 in lbs. RBM per rail. No liners. Specify: rail thickness ___ in. height ___ in. RBM _____ in. lbs. per rail	_____	_____	_____
• Ground clearance of 24" for full underbody swing	_____	_____	_____
• Allow frame clearance for underbody scraper mounting	_____	_____	_____
• Provide OE installed front mounted frame rail extensions, min 24" for plow equipment, full parent rail	_____	_____	_____
• Rear tow hooks	_____	_____	_____
<b><u>Wheelbase:</u></b>			
• Minimum 144" Cab to Trunnion.	_____	Specify	_____
• Minimum 70" after frame/overhang (Measured from center trunnion to end of frame)	_____	Specify	_____
• Truck expected to be fitted with 16' dump box.	_____	Specify	_____
• 64,000 lb. GVW minimum.	_____	_____	_____
<b><u>Bumper:</u></b>			
• Chrome front one-piece full width.	_____	_____	_____

<u>Wheels and Tires:</u>	<u>Meets Specifications</u>		
	<u>Yes</u>	<u>No</u>	<u>Deviations</u>
• Hub pilot wheels	_____	_____	_____
• Steer wheels 22.5 x 12.25 powder coated white w/5hand steel with 425/65R22.5 load range L 20 ply tires	_____	_____	_____
• Rear wheels 22.5 x 8.25 powder coated white 8000 lb. w/2hand steel with 11R22.5 load range H 16 ply mud/snow tires	_____	_____	_____
• Accuride wheel protectors between wheels/drums & dual wheels	_____	_____	_____
• Specify turning radius outside _____ft	_____	_____	_____

<u>Cab:</u>	<u>Yes</u>	<u>No</u>	<u>Deviations</u>
• Conventional day cab style with tinted glass	_____	_____	_____
• Heavy duty cab air ride	_____	_____	_____
• Tilting hood with stationary grill and bug screen	_____	_____	_____
• Air ride, high back, lumbar adjustable, dual armrest, dark cloth driver’s seat	_____	_____	_____
• Dark cloth companion passenger seat	_____	_____	_____
• Heavy duty heater, air conditioner, and defroster	_____	_____	_____
• Electric intermittent wipers	_____	_____	_____
• Largest windshield wash tank available	_____	_____	_____
• Dual rectangular air horns with covers	_____	_____	_____
• AM/FM radio, 4 speakers	_____	_____	_____
• Weather-band, Bluetooth, and Aux functions	_____	_____	_____
• Separate AM/FM antenna RH A pillar mounted	_____	_____	_____
• Dual stainless 7” heated west coast style mirror w/stainless cowl mounted brackets	_____	_____	_____
• Manual driver & power passenger mirror	_____	_____	_____
• Dual stainless 8” heated round convex mirrors mounted below regular mirrors on stainless brackets	_____	_____	_____
• Manual driver & power passenger window	_____	_____	_____
• Left- and right-hand side grab handles mounted on outside of cab	_____	_____	_____
• Adjustable telescoping tilt steering column	_____	_____	_____
• Ball valve installed in heater hose to shut hot water off during Summer months	_____	_____	_____
• Heated windshield	_____	_____	_____
• Sound deadening cab provision with added insulation	_____	_____	_____
• External sun visor	_____	_____	_____
• Suspended, not floor mounted, brake pedal	_____	_____	_____
• Under dash console with dual cup holder and 12V cigar lighter outlets	_____	_____	_____
• One (1) rear stationary window	_____	_____	_____
• Heavy duty removable floor mats	_____	_____	_____

<u>Paint:</u>			
• Viper Red	_____	Specify _____	
• Cab & Chassis Rustproofing/Undercoating option	_____	\$ _____	

<u>Software</u>			
• Provide current engine diagnostic software	_____	Specify _____	

<u>Manuals</u>			
• Provide parts manuals-printed or electronic	_____	Specify _____	
• Provide complete diagnostic and maintenance manuals-printed or electronic	_____	Specify _____	
• Provide operators manual	_____		
• Min two (2) hours tech training provided to shop staff	_____		
• Min two (2) hours training provided to operators	_____		

	<u>Meets Specifications</u>		
	<u>Yes</u>	<u>No</u>	<u>Deviations</u>
<b><u>Standard Warranty</u></b>			
• Must be furnished in writing or in printed material	_____	_____	_____
<b><u>Extended Warranty</u></b>			
• Must be furnished in writing or in printed material	_____	_____	_____
• 5 year extended full truck (bumper to bumper) warranty w/towing included	_____	_____	_____
• Dealer responsible for cost of pickup, delivery & towing	_____	_____	_____
• 5 year warranty price included in total cost of truck(s)	_____	_____	_____
• If extended warranty options are available past 5 years please include the info with your proposal.	_____	_____	_____
<b><u>Taxes</u></b>			
• No Federal or State taxes are to be included in proposal	_____	_____	_____
<b><u>Registration, Title, License</u></b>			
• All registration, title, license fees are included	_____	_____	_____
• Application for registration, title, and license (municipal) sent in by dealer	_____	_____	_____
<b><u>Delivery</u></b>			
• Delivery date shall be determined by submitter and indicated on a later form. The County will have the option to make a decision based on cost, parts availability, service, and timeliness of delivery.	_____	_____	_____
<b><u>Performance Bond</u></b>			
• The successful submitter will be required to deposit a certified check or a performance Bond equal to five (5) percent of the net proposal, Payable to Price County to guarantee equipment is received "as proposed" as specified in proposal. Certified Check or Performance Bond is to be forfeited to Price County if proposed specifications are not met	_____	_____	_____

**TOTAL COST  
(outright)**

**FOB Phillips, WI.....**

**Total Cost for One (1) Tandem Axle Truck with Plow Options w/ 5 year warranty**

\$ \_\_\_\_\_  
(Written Amount)

**Delivery Date** \_\_\_\_\_

\_\_\_\_\_  
**Submitter Signature**

**Submitter Name** \_\_\_\_\_ **Address** \_\_\_\_\_

**Phone Number** \_\_\_\_\_ **Fax Number** \_\_\_\_\_

**Contact** \_\_\_\_\_ **Email Address** \_\_\_\_\_

**SPECIFICATIONS AND PROPOSAL FORM  
FOR FURNISHING HIGHWAY EQUIPMENT  
INSTRUCTIONS TO SUBMITTERS**

Proposals will be received by the Price County Highway Department for the furnishing and installation of the following pieces of equipment:

**One (1) Dump Body, Hydraulic, Winter Plow Package, and Pusher Axle**

EQUIPMENT DELIVERY - Delivery of the equipment shall be FOB to the Price County Highway Shop located at 704 North Lake Ave, Phillips, WI 54555. Delivery charges, if any, shall be included in the price shown on the proposal form. A delivery date shall be given in the appropriate blank in the proposal form.

GENERAL - Submitters are encouraged to submit multiple proposals on an item if they have more than one model which will satisfy the specification. The Department will consider any proposal submitted. Proposals may be awarded individually or lot total. The selection process will include consideration of price and valuation of trade, adherence to specifications, warranty package, references, inspection of pieces of equipment, maintenance and service prospects, meeting requirements for intended use and delivery time. Low proposal price will not be the limiting factor to award.

FORM OF PROPOSAL - The submitter must submit their proposal on the form furnished and here unto attached. All writing shall be done in ink.

REQUIREMENTS FOR SIGNING PROPOSAL - The full name and business address of each submitter must be entered in any and all proposals submitted. Each proposal shall be signed in the space provided therefore by written signature of the person or persons properly authorized to sign it.

SUBMISSION OF PROPOSAL - The proposal shall be placed in an envelope or separate envelopes which shall be sealed. On the envelope or envelopes shall be plainly written "**Tandem Axle Truck**". Such envelopes shall be addressed and delivered to the Office of the Price County Highway Commissioner, P. O. Box 169, 704 North Lake Avenue, Phillips, WI 54555, before the time specified in the official notice for opening proposals.

WITHDRAWAL OF PROPOSALS - Any submitter may withdraw their proposal at any time prior to the scheduled time for the receipt of proposals provided the request is communicated to the Highway Commissioner's Office before the time set for opening proposals.

REJECTION OF PROPOSALS - The Price County Highway Department reserves the right to reject any and all proposals or to accept any proposal deemed for the best interest of the Highway Department and waive any formalities or irregularities in the proposal.

TIME - All proposals must be submitted to the Office of the Highway Commissioner by **10:00 AM, September 29, 2022**. The Department will consider and award proposals in a timely manner, not to exceed 30 days from date of opening.

TRADE-IN INSPECTIONS - Inspection of the trade-in equipment (if any) can be made by appointment anytime at the County Highway Shop.

MANUFACTURER'S SPECIFICATIONS - Each proposal shall be accompanied by manufacturer's specifications and literature on the model being proposed.

PURCHASE PRICE - Each submitter shall give an outright purchase price and a trade-in allowance in the appropriate blanks (if applicable). The Price County Highway Department will be considering proposals with a trade-in and without, (if applicable) so the purchase price given should be an outright price with discounts calculated in.

REPAIR MANUAL / DIAGRAMS - All equipment shall come with a repair / installation manual and parts diagram / list, both electronic and paper formats.

BOND/PENALTY - The Price County Highway Department will require the successful submitter to submit a surety bond/deposit in the amount of no less than 20% the value of the proposal to guarantee the delivery of equipment by the date stated on the proposal form. The bond or deposit will be made out to Price County. **Delivery date will be a considered factor in the awarded proposal as well as price. At this time Price County will not be charging a fee for missed delivery dates so long as specific delays have been communicated in advance to a County representative .**

**Price County Highway Department  
Equipment Specifications and Installation of:**

**One (1) Dump Body, Hydraulics, Winter Plow Package, and Pusher Axle**

The following equipment will be mounted on a supplied chassis to be determined. The equipment listed must be new, the latest type and model manufactured, and meet or exceed the following specifications. Body company will be responsible for relocation of any chassis equipment to accommodate the installation of the proposed equipment. Body company is also responsible for any wiring, hoses, steel, etc. necessary to install all equipment listed. Pusher axle and underbody scraper are to be mounted in a way for easy seasonal removal and installation. Body company will have mounted, at time of delivery, either the underbody scraper or pusher axle after consulting with Price County. Plow, unmounted axle or scraper, truck, and any removed equipment (fuel tank, bumper, etc.) will be delivered to the Price County Highway Shop, Phillips WI FOB.

Successful body company and County personnel will have a prebuild meeting to review equipment placement. Body company will submit a line-item invoice for payment. Price County will provide the 2-way radio, plow/scraper cutting edge and pusher axle tires/rims.

	<u>Meets Specifications</u>		
	<u>Yes</u>	<u>No</u>	<u>Deviations</u>
<b><u>Dump Body</u></b>			
• 16' dump body with asphalt taper, of unibody design (no crossmembers), smooth side, traditional style, steel dump box	_____	_____	_____
• Minimum 84" inside dimension, maximum 96" outside dimension	_____	_____	_____
• Approx. 52" sidewall height at tailgate with walls tapering up to height of the hydraulic hoist doghouse	_____	_____	_____
• Minimum ¼" AR 450, one piece, steel floor and tailgate, 3/16" AR 400 steel sidewalls, 7- or 8-gauge balance	_____	_____	_____
• Rear box corners constructed of 201 stainless steel or equivalent	_____	Specify	_____
• ½ cab protector continuously welded with reinforced side webs	_____	_____	_____
• Sloped rub rails, fenders, and horizontal tailgate members	_____	_____	_____
• Continuously welded box top rail, side horizontal brace, rear bolster, and I-beam understructure, no skip welding	_____	_____	_____
• No board pockets	_____	_____	_____
• Dual box props	_____	_____	_____
• Rear bolster is full width with asphalt style tapered apron, 16"-18" body overhang from rear of tires to end of floor. Constructed of 201 stainless steel or equivalent	_____	Specify	_____
• Openings for 6" oval grommet style stop/turn/tail, backup and strobe lights and 3/4" grommet style bullet side marker lights shall be incorporated into rear corner posts	_____	_____	_____
• Flip down ladder, with slip resistant rungs, will be welded to the box above the rear axle on the left side and steps inside.	_____	_____	_____
• Steps with slip resistant rungs to be welded to front left outside of box to view material	_____	_____	_____
• Minimum 1 shovel holder welded to RH front corner of box	_____	Specify	_____
• Stainless steel air deflectors for rear box lights	_____	_____	_____
• Body hinge will be greaseable if not bushed, and a minimum 40-ton hinge	_____	Specify	_____
• Body mounted in such a manner to provide enough room behind the cab for a combination: minimum 30 gal. hydraulic and minimum 100 gal. diesel fuel tank	_____	_____	_____
• Body to be sandblasted, primed, and painted with a minimum of 2 coats of viper red	_____	_____	_____
• The underside of the body, including I-beams, shall be protected against rust by undercoating	_____	_____	_____
• Backup camera mounted on passenger side hooked to Ultra 6100 controller	_____	_____	_____
• Removable mud flaps, with anti-sail brackets mounted behind rear drive and storage brackets in front of pusher axle.	_____	_____	_____



**Meets Specifications**

**Yes**                      **No**                      **Deviations**

- Tow hooks mounted on rear of frame
- Trailer package, minimum 1” pintle plate, minimum 45- ton rigid pintle hitch, plumb air lines & electrical provided by truck manufacturer
- 2” receiver tube mounted flush to pintle plate below pintle hitch, height to be determined by Price County
- DOT tape downside of box

_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

**Tailgate**

- Poor man, tipped in approx. 5 degrees, self-closing, with a minimum of 2 horizontal members (3 panel)
- Minimum ¼” AR 450 steel panel
- Tailgate latches will be positioned above the body floor
- Pins shall be 1 ¼” minimum
- All tailgate pins and latch cross pivots will be greaseable with mounted grease hose extensions where available
- 3 ½” heavy duty air trip cylinder with a stainless-steel shaft
- Electric over air trip cylinder hooked to Ultra 6100 controller
- Trip cylinder will be mounted directly to cross shaft at center of box
- Tailgate chain locks will be mounted approx. 10” above body floor
- D ring mounted at inside center for easy removal
- DOT tape on rear of tailgate

_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	Specify	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

**Electrical**

- Cougar DC 3200 box vibrator or equivalent installed according to manufacturer, all cable ends will be soldered on and protected with shrink tube
- Stop/Turn/Tail, backup, clearance and 12v Green/Amber strobe lamps will be installed. In box, 6“oval taillights and 3-light bar will be installed below box inside frame rail
- All lights will be LED
- Connections for lights will be in a sealed junction box inside truck frame rails, placed forward of front drive axle, angle mounted for easy access
- Install back-up alarm
- 12v Green/Amber cab strobe lamps will be mounted to an aluminum light bar mounted to the cab gutter or roof.
- Light bar will be approx. 12” above cab and extend to mirror width
- All connections outside of cab will be soldered and protected with shrink tube
- HID and plow lights will be mounted to the front of the hood at lowest point possible on stainless steel mounts in such a manner to adequately shine over the plow, design and mount location will be approved by Price County before lights are mounted
- Plow lights shall be Meyer Saber II or equivalent
- HID lights shall be Nordic N400 HID 35W Flood or equivalent
- Plow, sander, wing, underbody lights and box vibrator switches with mounting to be controlled from the operator station with controller labeled switches
- All plug-in connections will have dielectric grease
- Two-way radio will be provided by Price County and installed by vendor with antenna mounted on center portion of cab roof

_____	Specify	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	Specify	_____
_____	Specify	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

**Tarp**

- Powered tarp system controlled from the operator station
- Aluminum arms mounted to body as to not interfere with rear mounted wing

_____	_____	_____
_____	_____	_____

**Meets Specifications**

<u>Yes</u>	<u>No</u>	<u>Deviations</u>
_____	_____	_____
_____	_____	_____

- Hot asphalt compatible
- All electrical connections will be soldered and protected with shrink tube

**Pusher Axle**

- Axle shall be an air lift/down, frame mounted, removable for winter maintenance
- 13,000 lb. capacity minimum
- Weight less than 1000 lbs.
- Cast 10 bolt hub for hub piloted disc wheels
- Cast 15” drums
- 12” minimum axle travel
- Steerable with stabilizers
- Electric over air controlled with factory mounted switch in cab
- Auto raise in reverse
- The axle will use 11R22.5 tires installed by Price County

_____	_____	_____
_____	Specify	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

**Reservoir**

- Combination: minimum 30 gal. hydraulic and minimum 100 gal. diesel fuel tank, mounted behind cab above frame rails in a way that debris cannot collect around bottom of tank
- Basket type hydraulic filler/breather, fuel will have a separate breather from the filler
- Magnetic drain plug, easily accessible for both sides
- Fuel fill on cab left hand side, hydraulic fill on cab right
- 2” minimum hydraulic suction line with screen filter
- Separate return port for control drain line
- Level/temperature gauge on outside of hydraulic tank
- Low oil sensor with cab warning light/buzzer
- Step and hand hold mounted for operator to fill fuel tank
- In tank mounted return filter with bypass, with 10-micron element and filter restriction gauge
- A shut off valve will be located at tank for hydraulic suction and fuel suction line
- Hydraulic oil will be compatible with Schaeffer’s 112 HTC
- The fuel suction will be off the top with a stand tube, not off the bottom
- Fuel level sending unit compatible with factory gauge

_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	Specify	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

**Box Hoist**

- Telec telescopic, trunnion mounted, non-inverted, double acting, cylinder
- Two (2) box height limit switches, one for summer use and the other for winter use, winter switch adjusted so the spinner motor does not contact the ground
- Body up warning light

_____	_____	_____
_____	_____	_____
_____	_____	_____

**Hoses/Piping**

- All hoses will be Gates M3K Mega Tuff or equal
- All fittings will be of the JIC type where applicable
- Stainless steel lines will be used to run from back of cab to rear of vehicle
- All hoses and lines will be adequately supported and protected against abrasion with mounting fasteners to be of stainless steel
- Hoses and lines will be rated for pressures determined by pump manufacturer
- Suction and main pressure line will be of adequate size for the pump and system
- JIC bulkhead fittings will be used at the disconnect locations of the plow, wing, spreader and underbody hoses

_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

	<u>Meets Specifications</u>		
	<u>Yes</u>	<u>No</u>	<u>Deviations</u>
<b><u>Hydraulic Pump/PTO</u></b>			
• Front engine driven and mounted hydraulic pump	_____	_____	_____
• Standard driveline kit with 533 yokes and a 479-flange yoke	_____	_____	_____
• Load Sense Pump, sized adequately for system requirements	_____	Specify	_____
• A 12V DC Pump shutoff valve	_____	_____	_____
<b><u>Valves</u></b>			
• Modular manifold design, Force Add-A-Fold valves or equivalent	_____	Specify	_____
• 12v heavy duty continuous coils with manual override	_____	_____	_____
• Adjustable stroke limiter flow control for each function	_____	_____	_____
• Valve sections will be of adequate size to supply proper GPM to hydraulic functions.	_____	_____	_____
• Valve sections arranged as follows	_____	_____	_____
• Hoist, double acting	_____	_____	_____
• Plow lift, double acting	_____	_____	_____
• Plow turn, double acting	_____	_____	_____
• Wing toe, double acting with holding valve	_____	_____	_____
• Wing heel, double acting with raise relief at 1000psi	_____	_____	_____
• Scraper curl, double acting with float	_____	_____	_____
• Scraper turn, double acting	_____	_____	_____
• Reversible auger	_____	_____	_____
• Spinner	_____	_____	_____
• Prewet	_____	_____	_____
• Pressure gauge mounted in manifold turned to be easily readable	_____	_____	_____
<b><u>Valve Enclosure</u></b>			
• 12-gauge, 304 stainless steel weather tight enclosure	_____	_____	_____
• Valves to be mounted so all ports either come out the bottom or the back of enclosure	_____	_____	_____
• Cover is to be retained by 4 rubber latches	_____	_____	_____
• Enclosure will be just large enough to accommodate valves needed	_____	_____	_____
• Mounting to be beneath driver side of cab or other practical location	_____	_____	_____
<b><u>Controller</u></b>			
• Force America Ultra 6100 floor mounted with integrated SSC6100 ground speed spreader control mounted conveniently for operator	_____	_____	_____
• Adjustable height and swing for controller	_____	_____	_____
• Joysticks on controller from left to right; plow (dual axis), wing (dual axis), underbody (dual axis), hoist (with safety interlock)	_____	_____	_____
• Switches on controller from left to right; Vibrator (momentary on, off). Tarp (momentary open, off, momentary close); Float (on, off). Low Oil Override (momentary)	_____	_____	_____
• Spreader to control auger (with reverse), spinner, and prewet operable in manual and closed loop mode	_____	_____	_____
• Precise road/air temp sensor, installed as part of hydraulics, on left mirror bracket and linked by wire to Ultra 6100 and display	_____	_____	_____
<b><u>Plow and Hitch</u></b>			
• Fixed, right discharge, one-way plow to work in conjunction with a mid-mounted wing, heavy duty construction	_____	_____	_____
• Curb shoes on both sides	_____	_____	_____
• Quick hitch attachment system, two chain lift	_____	_____	_____

	<u>Meets Specifications</u>		
	<u>Yes</u>	<u>No</u>	<u>Deviations</u>
• Hitch shall be bolted to truck frame and reinforced as specified by manufacturer	_____	_____	_____
• Truck hood shall fully open with plow in raised position	_____	_____	_____
• Moldboard shall be 3/16" thick with an integral over shield extending 30% over the normal radius of the moldboard, full curl design to discharge large amounts of snow	_____	_____	_____
• Cutting edge width: 13'	_____	_____	_____
• Inlet height: 27"-32"	_____	Specify	_____
• Discharge height: 55"-60"	_____	Specify	_____
• Moldboard ribs minimum 1/2" steel continuously welded	_____	_____	_____
• Push frame to be constructed of rectangular tubing with continuously welded joints, frame height 20"-21"	_____	_____	_____
• Full trip moldboard with a minimum 3 slide brackets and 3 return springs which must return moldboard back to plowing position after tripping	_____	Specify	_____
• Adjustable moldboard pitch	_____	_____	_____
• Bottom angle minimum 4" x 4" x 3/4" with gussets between each bolt hole	_____	_____	_____
• Cutting edge to be AASHO punched, 3/4" x 6"	_____	_____	_____
• Rubber snow flap	_____	_____	_____
• Plow lift cylinder 3 1/2" diameter double acting	_____	_____	_____
• Plow to be fully sand blasted and powder coated gloss black	_____	_____	_____
• Factory front bumper shall be able to be remounted after removal of the plow hitch	_____	_____	_____
• One adjustable parking leg	_____	_____	_____
• Toolbox mounted on LH frame rail and behind front bumper	_____	_____	_____
• Plow markers on both sides	_____	_____	_____
• Price County will supply cutting edge	_____	_____	_____

**Patrol Wing**

• 8' right side, mid mounted wing to work in conjunction with underbody scraper to leave no windrow of snow	_____	_____	_____
• Curb shoe on outside	_____	_____	_____
• Para-Glide wing post or equivalent for mid wing mounting	_____	_____	_____
• Dec ell heel cylinder	_____	_____	_____
• 3/16" minimum moldboard with fully welded 1/2" reinforcing ribs	_____	_____	_____
• Minimum 1 1/4" main pivot bolt	_____	_____	_____
• 8' cutting edge, AASHO pattern, 3/4" x 8"	_____	_____	_____
• Approx. 27" moldboard height	_____	Specify	_____
• Sufficient travel to allow wing heel to extend approx. 8" below ground level	_____	_____	_____
• Moldboard bottom angle minimum 4" x 4" x 3/4" with gussets between each cutting edge bolt hole	_____	_____	_____
• Wing shall fold as close to dump body as possible, with contact protection as needed, to give maximum visibility to the rear when raised	_____	_____	_____
• Wing post mounting shall not interfere with underbody scraper mounting and be removable as to not interfere with pusher axle mounting or function	_____	_____	_____
• All wing mounting will be bolted to truck frame not welded	_____	_____	_____
• Push arm(s) are to be heavy walled, spring loaded, with a shear pin	_____	_____	_____
• Must be able to raise box with wing in the up position	_____	_____	_____
• Adjustable hydraulics to control wing speed	_____	_____	_____
• Height adjustment chain at toe, safety chain to hold wing in the up position	_____	_____	_____
• Wing to be sandblasted and powder coated gloss black; mounting to be sandblasted, primed and painted 2 coats gloss black	_____	_____	_____
• Rubber mounted LED wing strobe light for in use position, wired to strobes switch	_____	_____	_____



**Meets Specifications**

**Yes**                      **No**                      **Deviations**

- Operated on a closed loop with the SSC6100 spreader control \_\_\_\_\_
- Brine to be sprayed on spinner \_\_\_\_\_
- DOT tape on rear of brine tank \_\_\_\_\_
- Brine fill to be accessible to driver from ground level \_\_\_\_\_
- Brine fill connection to be Banjo 2” male cam lock with LH side mounting \_\_\_\_\_

**Option**

- One (1) 16’ Corrosion Resistant 201 Stainless Steel Modular V-Box \_\_\_\_\_
- Minimum Four (4) lifting loops for installation and removal \_\_\_\_\_
- Minimum 7-gauge 201 Stainless steel long-sills \_\_\_\_\_
- 10gauge hopper shell with 45 deg. Sides 18 deg. front slope and 9deg.rear slope. Continuously welded inside seams. Minimum 62” side height. \_\_\_\_\_
- Floor to be 201 Stainless steel 7-gauge and replaceable \_\_\_\_\_
- 8-tooth cast iron sprockets keyed to drive and idler shafts \_\_\_\_\_
- Minimum 3/8”x1-1/2” bar flighting mounted on every link \_\_\_\_\_
- Chain shields to be bolted in place and replaceable \_\_\_\_\_
- 2” drive shaft and 2” spring loaded idler shaft with min. 4” of adjustment using two min. 5/8 stainless steel threaded adjusters \_\_\_\_\_
- Front idler grease tubes extended to the rear for easy greasing \_\_\_\_\_
- Tailgate trunnion and V-Box mounting kit supplied but not permanently welded in place \_\_\_\_\_
- Self-locking screw jack for rear door adjustment \_\_\_\_\_
- Conveyor and spinner to be hydraulically driven motors \_\_\_\_\_
- Mounted 300-gallon UV stabilized poly liquid brine side tank plumbed with hydraulic powered brine pump, 30 GPT maximum output \_\_\_\_\_
- Tank secured with all Stainless-steel materials \_\_\_\_\_
- LH ground level fill connection to be 2” male cam lock, w/cap \_\_\_\_\_
- Minimum 20” poly spinner disc \_\_\_\_\_
- Operated on a closed loop with the 5100ex spreader controller \_\_\_\_\_
- DOT Conspicuity tape on rear of V-Box to meet requirements \_\_\_\_\_

Specify \_\_\_\_\_

**V-Box will not be an installation on this truck but rather furnished as a complete usable package delivered to Price County Highway**

PRICE COUNTY HIGHWAY DEPARTMENT  
 PROPOSAL FORM FOR SUPPLY AND INSTALLATION OF PATROL TRUCK EQUIPMENT

Body Company \_\_\_\_\_  
 Address \_\_\_\_\_  
 Phone \_\_\_\_\_  
 Email \_\_\_\_\_  
 Authorized Rep \_\_\_\_\_  
 Signature \_\_\_\_\_ Date \_\_\_\_\_

Delivery Date \_\_\_\_\_  
 Warranty \_\_\_\_\_

Please indicate the make, model, and price of the following equipment

Dump Body	_____	\$
Tarp	_____	\$
Pusher Axle	_____	\$
Mild Steel Reservoir	_____	\$
Hoist	_____	\$
Hydraulic Pump	_____	\$
PTO	_____	\$
Valve Bank	_____	\$
Controller	_____	\$
Plow/Hitch	_____	\$
Wing	_____	\$
Underbody	_____	\$
Spreader	_____	\$
Prewet	_____	\$
Equipment not listed above	_____	\$
Installation of above equipment	_____	\$
Total	_____	\$
V-Box Spreader- Option	_____	\$

Meets all Price County specifications: Yes No

Variations from spec:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
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