

ROCK COUNTY, WISCONSIN
PUBLIC WORKS DIRECTOR

PUBLIC WORKS DEPT.
FAX (608) 757-5470
PHONE (608) 757-5463



**INVITATION TO BID #DPW-2021-3B2
TWO (2) TANDEM AXLE TRUCK 15' DUMP BODIES, PLOW, RIGHT HAND SHELVING
WING, SPREADER, 950 GALLON SLIDE IN ANTI ICE TANK, UNDERBODY BLADE AND
PRE-WET.
FOR ROCK COUNTY PUBLIC WORKS DEPARTMENT
JANESVILLE, WISCONSIN**

Bids due in Rock County Department of Public Works by:
November 9, 2021– 8:45 a.m. (local time)

Bids received after this date and time will be rejected.

Bids must remain in effect 60 days from due date:

Address Bid to: Neil Pierce, Shop Superintendent
Rock County Department of Public Works
3715 Newville Road
Janesville WI. 53545

*****MARK SEALED ENVELOPE: #DPW-2021-3B2
ONE (2) TANDEM AXLE TRUCK 15' DUMP BODIES, PLOW, RIGHT HAND SHELVING
WING, SPREADER, 950 GALLON SLIDE IN ANTI ICE TANK, UNDERBODY BLADE AND
PRE-WET.*****

Rock County reserves the right to accept or reject any or all bids; to waive any technicality or error in any bid or part therein, and to accept the same or combinations, in whole or in part, whichever is deemed to be in the best interest of Rock County.

Contracts are awarded to the lowest, most qualified, responsible and responsive bidder on the basis of the base bid and full consideration of any or all alternatives, as may be in the best interest of Rock County. In determining the award of contract, Rock County will consider the scope of the work involved, timeliness of delivery, competency of bidder, bidder's ability to render satisfactory service, and past performance. If two or more bidders submit identical bids, Rock County will make award to bidder of its choice and such decision will be final.

INSTRUCTIONS FOR BIDS

The bidder is required to submit **two (2) copies (one original marked as such and one copy)** of their bid in a sealed envelope marked **#DPW-2021-3B2** to Neil Pierce, Shop Superintendent, Rock County Department of Public Works, 3715 Newville Road, Janesville, WI 53545. All bids must be received by **November 9, 2021– 8:45 a.m. (local time)**. Any bid submitted after this date and time will be rejected. Vendors are responsible for ensuring that the above office receives their bid before the deadline. No faxed or electronic bids will be accepted.

Bid "packets" must be clearly labeled with vendor name, return address, bid title, date and the name of the vendor's primary contact for bid questions.

Bids shall be signed with named printed below signature. Where Bidder is a Corporation, Bid must be signed with the legal name of the Corporation followed by the legal signature of an officer authorized to bind the Corporation to contract.

INQUIRIES

All questions concerning this Invitation to Bid must be submitted **in writing** to Neil Pierce. Questions must be received by **October 11, 2021 at 12:00 noon (local time)**. Questions received after this date and time will not be answered. Questions may be faxed to (608) 757-5466 or e-mailed to francene.stimichael@co.rock.wi.us.

Bidders shall bring inadequacies, omissions or conflicts to Rock County's attention in writing by the question cut-off date and time. If necessary, answers to questions will be provided to all specification holders in the form of an addendum. Addendum will include a list of each question received and Rock County's response.

ADDENDA

All changes in or interpretations of the Bidding Documents prior to bid opening will be made by written addenda issued by Rock County to each recipient of the Bidding Documents on record. All addenda will be issued no later than 72 hours prior to bid opening. All addenda or notice of addenda will be posted on Rock County's website, www.co.rock.wi.us.

PROJECTED TIMETABLE

Issue Invitation to Bid	9/21/2021
Questions Due	10/11/2021 – 12:00 noon
Amendments Issued by	10/18/2021 – 12:00 noon
Bids Due	11/9/2021 – 8:45 a.m.
Evaluation of Bids	11/9/2021 – 11/16/2021
Governing Committee Approval	11/23/2021
Issuance of Purchase Order	11/23/2021

Vendors not involved in the final selection process will be notified in writing. The above schedule is for informational purposes only and is in no way binding upon Rock County.

VENDOR SUPPLIED DOCUMENTATION AND MATERIALS

All vendor-supplied materials, including the vendor's bid, become the property of Rock County. We will work with vendors to meet their confidentiality requirements, provided that they are within reason. All vendor confidential material must have each page clearly marked as confidential. Rock County's determination to treat matters as public or confidential under the Wisconsin Open Records Law shall be final.

BID AND PRESENTATION COSTS

Rock County will not be liable in any way for any costs incurred by the offerors in the presentation of their bid in response to this Invitation to Bid nor for the presentation of their bid and/or participation in any discussions or negotiations.

COMPLIANCE WITH INVITATION TO BID

Bid specifications submitted must be in strict compliance with the Invitation to Bid. Failure to comply with all provisions on the ITB may result in disqualification. Neglect of the above requirements will not be accepted as reason for the delay in the delivery.

IMPLIED REQUIREMENTS

Products and services that are not specifically addressed in this Invitation to Bid, but which are necessary to provide functional capabilities proposed by the offeror, must be included in the bid.

NON-DISCRIMINATION

In connection with the performance of work under this contract, the contractor agrees not to discriminate against any employee or applicant for employment because of age, race, religion, color, handicap, sex, physical condition, developmental disability as defined in s.51.01 (5)(a), sexual orientation, national origin, or military service as defined in §111.355(1), Wis. Stats. This provision shall include, but not be limited to the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor further agrees to take affirmative action to ensure equal employment opportunities. The contractor agrees to post in conspicuous places, available for employees and applicants for employment, notices to be provided by the contracting officer setting forth the provisions of the non-discrimination clause (Wisconsin Statutes S.16.765 (2)).

INDEMNIFICATION

The contractor to perform services for Rock County shall indemnify, hold harmless, and defend Rock County, its officers, agents, and employees from any and all liability including claims, demands, losses, costs, damages and expenses of any kind and description or damage to person or property arising out of or in connection with or occurring during the course of any agreement between the contractor and Rock County where such liability is founded upon or grows out of the acts or omissions of any agents or employees of the contractor.

REQUEST FOR CLARIFICATION

All requests by Rock County for clarification of bids will be in writing. Such requests shall not alter the offeror's pricing information contained in its bid.

MODIFICATION AND WITHDRAWAL

Bids may not be modified after submittal. Bidders may withdraw Bids at any time before the Bid opening, but may not resubmit them. No Bid may be withdrawn or modified after the Bid opening except where the award of Contracts has been delayed for more than 60 days from the day of the Bid opening.

DEVIATION AND EXCEPTIONS

Deviations and exceptions from terms, conditions, or specifications will be described fully under the bidder's letterhead, signed, and attached to the Bid. In the absence of such statements, the bid will be accepted as in strict compliance with all terms, conditions, and specifications and the bidder shall be held liable.

SUBSTITUTIONS

When substitutions are bid, they must be identified by manufacturer, stock number, and other descriptive information to establish equivalencies. Rock County shall be the sole judge of equivalency.

DISQUALIFICATION

Rock County reserves the right to disqualify Bids, before and after opening upon evidence of collusion with the intent to defraud or other illegal practices upon the part of the Bidder.

QUANTITIES

Quantities shown within the Invitation to Bid are based upon estimated needs. The County reserves the right to increase or decrease quantities to meet actual needs or availability of funds.

AWARD

Award will not be made to any Bidder in default of a Contract with Rock County, or to any Bidder having as its agent or employee, any individual previously in default or guilty of misrepresentation.

NOTICE TO PROCEED

Written notice of award to successful Bidder shall be in the form of a Purchase order from Rock County mailed or delivered to the address shown on the Bid and will be considered sufficient notice of acceptance of Bid, and "Notice to Proceed" with delivery.

CANCELLATION

Rock County reserves the right to cancel a purchasing contract in whole or in part without penalty due to the non-appropriation of funds or for failure of the contractor to comply with terms, conditions, and specifications of the contract. Any dispute arising as to quality and quantity is subject to arbitration as provided in Chapter 788, Wisconsin Statutes.

APPLICABLE LAW

All contracts are governed under the laws of the State of Wisconsin and are made at Rock County, Wisconsin, and venue for any legal action to enforce the terms of the agreement will be in Rock County Circuit Court.

ASSIGNMENT

No right or duty in whole or in part by the vendor under any purchasing contract may be assigned or delegated without the written consent of Rock County.

GUARANTEED DELIVERY

Failure of the contractor to adhere to the delivery schedule that is specified or to promptly replace rejected materials renders the contractor liable for all costs in excess of contract price if alternate procurement is necessary. Excess costs include administrative costs.

PATENTS

By accepting a purchase order from Rock County, the vendor guarantees that the sale or use of the items or goods being provided will not infringe any United States patent, and covenants that it will at its own expense defend every suit which may be brought against Rock County, (provided that such party is promptly notified of such suit, and all papers therein are delivered to it) for any alleged infringement of any patent by reason of the sale or use of such article or articles, and agrees that it will pay all costs, damages and profits recoverable in such suit. The party selling to Rock County guarantees that the items or goods being provided were manufactured in accordance with applicable federal labor laws.

QUALITY LEVEL

Unless otherwise indicated in the Invitation to Bid, all materials shall be first quality. Items which are used, obsolete, or which have been discontinued are unacceptable without prior written approval by Rock County.

SAFETY REQUIREMENTS

Materials, equipment and supplies provided to the County must comply fully with all safety requirements that are set forth by the Wisconsin Administrative Code, Rules of the Industrial Commission on Safety, and all applicable OSHA standards. When furnishing toxic or hazardous materials as defined in sub-part "Z" of the U. S. Occupational Safety and Health Standards, the

contractor must furnish OSHA Form 20, "Material Safety and Data Sheet", for each item provided. Further, during the course of performing the service necessary to satisfy the requirements of any Invitation to Bid, the contractor is fully liable for public and private protection while work is in progress or at any site exposed as a potential hazard. Contractor must provide warning devices and/or signs, which must be prominently installed and displayed, and be fully in compliance with safety regulations.

TAXES

Rock County is exempt from the payment of all federal excise taxes, registration no. 41407 (For tax-free transactions under Chapter 32 of the Internal Revenue Code. The certificate of exemption is on file with the District Attorney, U. S. Treasury Department, Internal Revenue Service Milwaukee, Wisconsin). Rock County is exempt from Wisconsin State and Local taxes on its purchases except Wisconsin excise tax as the Wisconsin Department of Revenue does not issue state exempt numbers to Counties per Wisconsin Statute 77.54 (9) (a). Contractors performing construction activities are required to pay state user tax on the cost of materials which they purchase. Rock County is required to pay an excise tax on Wisconsin beer, liquor, wine, cigarettes, tobacco products, motor vehicle fuel engine oil and aviation fuel.

WARRANTY

Unless otherwise specifically stated by the bidder, equipment purchases as a result of a request to bid shall be warranty against defects by the bidder for 90 days from date of receipt. The equipment manufacturer's standard warranty shall apply and the minimum must be honored by the vendor.

SPECIFICATIONS

The following specifications are to apply to the equipment offered in this bid. The equipment must be new and the latest type and model manufactured, and must equal or exceed these specifications. It is not our intention to write anyone out this specification. Please note all items that do not meet specifications on the sheet provided. Determination of comparable or equivalent equipment and features shall be at the sole discretion of Rock County.

	<u>Meets Specs</u>	Does Not <u>Meet Specs</u>
	Y	N
<u>I. BODY STRUCTURE : 15' STAINLESS STEEL:</u>		
A. 100% Stainless steel body, 7 GA. Min. w/ 201 S.S. AR400	___	___
B. Floor to be ¼ AR450 steel, box long member to be of steel construction	___	___
C. Unit shall be 100% continuously welded throughout, NO SKIP WELDING ACCEPTED	___	___
D. Body height to be 68” approx. at head sheet and slope to 52” at tailgate	___	___
E. Straight back tailgate design	___	___
F. Adjustable lower tailgate latches, air operated by an electric switch from cab	___	___
G. Radius corners on inside of body, 6” minimum, except if this causes interference with slide in. (NOTICE IS NEEDED)	___	___
H. Body interior to be smooth, horizontal bracing on exterior, boxed flat top rail	___	___
I. Tailgate to have a boxed perimeter and horizontal outside bracing with a smooth interior surface	___	___
J. Stainless steel 7ga. ½ Cab shield 24” approx. fully welded	___	___
K. Trunnion type body lift cylinder, telescopic design and self-bleeding	___	___
L. Double-acting cylinder with sufficient lifting capacity and adjustable down pressure.	___	___
M. Lifting cylinders to have a Melonized/Q.P.Q® running surfaces	___	___
N. Each rod or pin eye shall have grease line to accessible greasing manifold	___	___
O. Body Stabilizer: stabilizer shall be mounted to not be at full extension when box ram is at full height AND ALL MOVING POINTS SHALL BE GREASABLE WITH GREASE LINES	___	___
P. All points needing grease shall have a line to a central greasing manifold	___	___
Q. Heavy duty electric tarp system with tension bow and asphalt tarp, controls in cab. With grease lines for bearings extended down to be accessible from the ground	___	___
R. Mud flaps mounted on rear of body (removable)	___	___
S. Body props (2) to be OSHA AND ROCK COUNTY approved	___	___
T. Ladder mounted outside with placement, dimension and design per Rock County specs. Ladder to have grab handles per Rock County spec updated 6/2019	___	___
U. Front and rear factory tow hook must remain in place and easily accessible	___	___

	<u>Meets Specs</u>	<u>Does Not</u> <u>Meet Specs</u>
	Y	/ N
V. The box will be able to raise min. 45 deg. Sander, spinners and anti-ice components must have acceptable ground clearance per Rock County representative.	_____	_____
W. BOX STOP WILL BE DONE WITH A CHOKER CABLE AND VALVE THAT IS 5/16” STAINLESS STEEL, AIRCRAFT CABLE RUN THROUGH STAINLESS STEEL TUBING. THIS CANNOT BE CHANGED IN ANY FORM. Choker valve will have third port run directly back to tank to relieve excess pressure at end of stop	_____	_____

II. HYDRAULIC PUMP

A. Force American FASD60, 7.9 cubic inch pump, NO EXCEPTIONS	_____	_____
B. Pump shall be capable of 3000 PSI at 2500 RPM	_____	_____
C. Pump to have side ports to avoid multiple 90° bends in suction line, rear ports are not acceptable	_____	_____
D. Case/control drain must be directed back to tank without passing through filter	_____	_____
E. Automatic electric valve to shut off pressure side of hydraulic pump when low oil occurs, along with light being activated. Valve must be capable of handling full flow from hydraulic pump	_____	_____
F. Pump to be mounted as close to radiator as possible	_____	_____
G. Pump to be crankshaft driven using 1280-1310 driveline components	_____	_____
H. Pump driveline must be removable without removing pump	_____	_____
I. Driveshaft must be covered and cover must be removable	_____	_____

III. HYDRAULICS-VALVING MUST USE FORCE AMERICA 6100 GEN. 5 “HYDRAULIC FUNCTIONS OUTLINE”
HYD. OIL TANK AND VALVE BODY TO BE MOUNTED BETWEEN CAB AND DUMP BODY ALL SS COMPONENTS FUNCTIONS CONSIST OF. DUMP BODY, PLOW, RT SHELFING STYLE WING, BELLY BLADE, SPREADER, PRE WET, AND ANTI ICE.

A. Hydraulic valve must be sectional style design and proportionally controlled	_____	_____
B. Valve must be compatible to pressure-compensating, load sensing type system	_____	_____
C. All valves shall be ADJUSTABLE flow compensating type	_____	_____
D. Hoist section must be capable of minimum 40 GPM and down pressure	_____	_____
E. Double-acting cylinder spool for hoist, 500 PSI downside relief spring to neutral	_____	_____
F. Broom section must be single acting capable of minimum 40 GPM	_____	_____
G. All other sections capable of minimum 20 GPM	_____	_____
H. Double-acting cylinder spool for snow plow lift and power down WITH FLOAT (THIS SHALL NOT BE DONE BY POWER PLOW OR ANY SIMILAR VERSION) , check with Rock County Rep. if clarification is needed	_____	_____

	Does Not	
	<u>Meets Specs</u>	<u>Meet Specs</u>
	Y	/ N
I. Double-acting cylinder spool for plow turn/reverse spring return to neutral	_____	_____
J. Double-acting cylinder spool for wing tow spring return to neutral	_____	_____
K. Double-acting cylinder spool for wing heel spring return to neutral	_____	_____
L. Double-acting cylinder spool for belly blade turn spring return to neutral	_____	_____
M. Double-acting cylinder spool for belly blade raise/lower spring return to neutral with adjustable down pressure from 500 psi.	_____	_____
N. Auger and spinner sections to be electro-hydraulic, individually pressure compensated, proportional flow type	_____	_____
O. 40 GPM at 2000 PSI for broom attachment plumbed to front of truck with quick couplers (STUCCHI 71Z0216G04C) mounted and plumbed to right side of plow frame. Lower hose is pressure on broom circuit, just be compatible with current broom setups. Contact Rock County with questions Rock County spec. revised 6/2019	_____	_____
P. 1” supply and return lines to front bulkhead HI pressure to lower port on coupler valve (for broom) and have electrical run per Rock County spec.	_____	_____
Q. Only JIC or SAE fittings, NO EXCEPTIONS unless otherwise noted or approved in writing	_____	_____
R. Suction part to have no 90° sweep type elbow to minimize restrictions	_____	_____
S. Number 20 hose or 1-1/4 to be used between pump and valve bank	_____	_____
T. Cab controls: Force America, four stick, dual function, electronic	_____	_____
U. Valve enclosure must be stainless steel and lid must be removable with the box down and without any obstructions. If it is mounted under box	_____	_____
V. Valve to stop box from raising further than 45° to be cable actuated and no less than 40° MUST BE ABLE TO RAISE FULLY WITH SANDER MOUNTED, WITHOUT ANY PULL OFF CABLE ALTERING AND MAINTAIN ADEQUATE SPINNER GROUND CLEARANCE	_____	_____
W. Broom valve section, 1” hydraulic lines to broom, WITH A SHIELDED ON/OFF SWITCH, NO EXCEPTIONS. Broom plumbing SHALL use Procedure laid out in Rock County spec, NO EXECPTIONS	_____	_____
X. High pressure line between pump and valve body must be 1-1/4”	_____	_____
Y. Valves must be sealed with a stainless steel enclosure from the weather, and when mounted behind cab, COVER CANNOT BANG, SQUEAK, OR RATTLE CAUSING DRIVER DISTRACTION OR DISTRESS. Also, must have removable cover approved by Rock County rep., with box down	_____	_____
Z. All long hyd. Line runs shall be done with stainless steel lines of correct size	_____	_____

	Does Not
<u>Meets Specs</u>	<u>Meet Specs</u>
Y	/ N

IV. FILTER/RESERVOIR

- | | | |
|---|-------|-------|
| A. Minimum 14 GA stainless steel construction | _____ | _____ |
| B. Reservoir to be mounted and of sufficient size (30 gal. min.) to supply enough head pressure and volume to operate spreader, plow, wing and wetting system when hoist is completely raised | _____ | _____ |
| C. Reservoir must have baffle | _____ | _____ |
| D. Tank mounted filter to be 10-micron screen w/ 1/14 N.P.T. port with 5# bypass condition | _____ | _____ |
| E. 100 mesh suction screen, 3 PSI bypass, 50 gal. rated | _____ | _____ |
| F. Pressure side hydraulic filter | _____ | _____ |
| G. Sight and temperature gauge | _____ | _____ |
| H. Bottom drain with magnetic drain plug | _____ | _____ |
| I. Side mount, pressurized filler breather. THIS IS ON TANKS, MOUNTED UNDER DUMP BODY. Filler to be located to permit easy adding of oil with box down regardless of tank location | _____ | _____ |
| J. Level switch to activate at 20 gal. level. Low level warning light to be mounted in cab and connected to automatic shut off valve in hyd pump | _____ | _____ |
| K. Reservoir to have ¼ turn ball style shut off valve and JIC fittings on both ends | _____ | _____ |
| L. Hoses and wire connection shall be via bulkhead connectors on front side of reservoir | _____ | _____ |
| M. First unit installation of hydraulic system, spreader, plow and wing Controls to be inspection by representative of Rock County | _____ | _____ |

V. SPREADER-DUAL 4" AUGER with ability to spread at furthest of either end of spreader See attached pictures

- | | | |
|--|-------|-------|
| A. Spreader shall have disconnection of hyd. Lines and application rate sensor connections run to front of rear box upright support | _____ | _____ |
| B. Application rate sensor shall have a shield made of ½" solid stainless steel, subject to approval by Rock County rep. | _____ | _____ |
| C. Spreader pan shall have split in center, see Rock County rep. | _____ | _____ |
| D. Spreader pan will have lockout system as to NOT ALLOW EITHER SIDE TO BE OPENED WITH AUGERS TURNING, system to be Tamper-proof, as much as possible, to be approved by Rock County Rep | _____ | _____ |
| E. Tailgate shall have dog bone props with side plates attached to fill the gap to prevent side spillage | _____ | _____ |
| F. Spreader will have a single horizontal pin attachment for removal | _____ | _____ |
| G. Auger discharge openings shall be furthest most ends with spinners, NO REVERSE FLIGHTS ON ENDS OF AUGERS ACCEPTED | _____ | _____ |
| H. Spinners to be poly, angle to be adjustable to 45° rearward | _____ | _____ |

Does Not
Meets Specs Meet Specs
 Y / N

- I. Spinners to be mounted to spreader bottom pan and hang level, without leveling rods to truck, free swinging and to have adequate clearance when box raised to 45° with no alteration of choker cable _____ _____
- J. Spinners will be plumbed in series _____ _____
- K. All bearings on spreaders shall have grease lines run to a manifold on each side _____ _____
- L. The spreader will have a pre-wet system to spray on the spinners that is fed from the 950 gallon anti-ice tank _____ _____
- M. The system will be filled and emptied with a 2” coupler _____ _____
- N. The system will be equipped with an 5 gallon RV clean out tank plumbed into system _____ _____



VI. 950 GALLON ANTI-ICING SYSTEM

- A. Anti-ice system shall have two poly tanks wedge design equaling 950 gal. minimum. _____ _____
- B. Tank shall be mounted in a single all stainless steel frame as a slide in/out one piece unit. (all bolts and any hardware shall also be stainless steel) _____ _____
- C. The frame and tanks shall be able to slide out as without the need of lifting or removal of any parts or systems. And have drop down legs that are permanently mounted that are adjustable that when slid in or out height can be set to directly inserted or removed. _____ _____
- D. All connections shall be able to be performed from ground level **MUST BE ROCK COUNTY APPROVED** _____ _____
- E. An independent anti ice system spray bar system shall be added with a single lane spray bar application. This shall be able to deliver 20 GALLONS AT 30 MPH PER LANE MILE. IN CONJUNCTION WITH 200 LBS. OF SALT WITH PREWET WITHOUT DISRUPTIONS OR SLOW DOWNS when operating any other function or combination of functions. _____ _____

	Does Not	
	<u>Meets Specs</u>	<u>Meet Specs</u>
	Y	/ N

- | | | |
|---|-------|-------|
| F. A material pre wet system shall be used to spray onto the spreader spinners | _____ | _____ |
| G. The system will use a 2” coupler for filling and emptying | _____ | _____ |
| H. The system will be equipped with an 5 gallon RV clean out tank plumbed into system | _____ | _____ |

VII. SPREADER CONTROL (GROUND SPEED)

- | | | |
|--|-------|-------|
| A. It has been determined to be in Rock County's best interest to Standardize the use of Force America’s control system to Patrol Commander 6100 | _____ | _____ |
| B. (1) single axis control for dump box | _____ | _____ |
| C. (2 and 3) Joystick “+” pattern controls for plow | _____ | _____ |
| D. (4 and 5) Joystick “+” pattern controls for wing | _____ | _____ |
| E. (6 and 7) Joystick “+” pattern controls for belly blade | _____ | _____ |
| E. (8 and 9) Must be used for spreader and spinner | _____ | _____ |
| F. (10) Pre-wet switch/button on controller | _____ | _____ |
| G. Valve to change auger direction | _____ | _____ |
| H. Valves to be controlled by electrical DC current | _____ | _____ |
| I. Controls to be mounted beside the driver’s seat. The mount will NOT INTERFERE with any seat adjustment or movement, this includes the arm rest position. See Rock County rep. prior to installation | _____ | _____ |
| J. The Force America controls shall have built in GPS and ark road temp system will be added | _____ | _____ |

VIII. ELECTRICAL

- | | | |
|---|-------|-------|
| A. All electrical wire to be used must be of marine grade | _____ | _____ |
| B. All connections to be covered with heat shrink tubing | _____ | _____ |
| C. Grommets to be used wherever wires pass through metal | _____ | _____ |
| D. All lights to be recessed, rubber mounted and each light to have its own ground wire. All lights to be LED | _____ | _____ |
| E. All plug connections to be packed with dielectric grease | _____ | _____ |
| F. Cab mount, central switch box for controlling auxiliary lighting switches must be backlit for ease of use (Force America) | _____ | _____ |
| G. Auxiliary emergency lighting (lights to be provided by Rock County) installed and wired on its own individual relay | _____ | _____ |
| H. ALL LIGHTS TO BE CONNECTED WITH DEUTSCH CONNECTOR AT END OF PIGTAIL AND MAIN WIRE HARNESS | _____ | _____ |
| I. Tarp: individual 50 amp breaker, headlights: individual 40 am breakers box vibrator to have 120 amp individual breaker, pedestal to have individual 80 amp breaker | _____ | _____ |
| J. ALL BREAKERS AND RELAYS SHALL BE MOUNTED IN A SEPARATE, EASILY ACCESSIBLE, WATER TIGHT BOX AND ALL BRAKERS/RELAYS CLEARLY MARKED <u>(NOT WITH A PAINT MARKER)</u> , NOTHING WILL BE MOUNTED IN THE | _____ | _____ |

Does Not
Meets Specs Meet Specs
 Y / N

BATTERY BOX, ROCK COUNTY REP. TO HAVE FINAL APPROVAL.
 ALL BREAKERS FOR THE FORCE SYSTEM AND LIGHTING WILL HAVE
 BREAKERS EASILY ACCESSIBLE. FORCE CONTROLS AND AUXILIARY
 LIGHTING WILL BE ON SEPARATE RELAYS

IX. PLOW (UNIVERSAL OR SIMILAR TO MONROE SINGLE TURN RAM DESIGN)

- A. Moldboard 12' width, 42" height full integral design _____
- B. Moldboard to be full trip, shoeless design, with 4 adjustable return springs _____
- C. Moldboard cutting blade edge shall have AASHO punching _____
- D. Plow shall be delivered with carbide cutting edge and a cover blade _____
- E. Cutting edge shall come with left and right carbide curb guards mounted _____
- F. Plow to be reversible by use of a double acting, single ram of sufficient capacity to eliminate the need for a locking device (or equivalent) _____
- G. Plow shall be a Universal or Monroe single turn ram design with a pin and loop hitch mount _____
- H. All welds shall be 100 percent continues NO SKIP WELDING AND WELDED ON BOTH SIDES WHEN POSSIBLE _____
- I. Plow shall lift with two chains, lifting point for plow shall be directly above the plow turn pivot point, and when plow is turned it must stay level with ground and when swinging left and right, _____
- J. Plow lift chains shall be adjustable and attached to a single clevises that allows both chains to be disconnected by a single pin. _____
- K. Plow lift, double acting ram with power down and swivel connections _____
- L. Plow lifting structure to be of sufficient length to vertically lift plow _____
- M. Hydraulic hoses to turn ram to have quick couplers, PARKER #4050-4P and 8010-4P, pop it style, on truck right turn coupler will be male _____
- N. Plow shall have a cushion valve that is mounted to the truck _____
- O. Plow shall raise to have a min. clearance of 12" with no obstructions at all times that includes full turn radius _____
- P. Plow shall have a cranking style jack that is removable to keep hitch Up for mounting and dismounting and shall not need any blocking to Operate correctly _____
- Q. D ring hitch pin shall be able to be locked open and closed _____
- R. A rubber snow deflector flap shall be installed on the upper edge of the moldboard _____
- S. Plow frame shall be powder coated BLACK, moldboard to be Mack Red _____



Does Not
Meets Specs Meet Specs
 Y / N

X. WINGS-9' 40" SHELVING/ BENCHING STYLE

WHEN MOUNTING ANYTHING ONTO THE TRUCK THE TRUCK STEERING STOPS OR ANY OTHER TRUCK ADJUSTMENTS SHALL NOT BE PERMITTED IN ANY WAY OR FORM

- | | | | | |
|--|--|-----|--|-----|
| A. Wing to be 40" shelving or benching ability x 9' long | | ___ | | ___ |
| B. Wing to be mounted to right side of tandem trucks | | ___ | | ___ |
| C. Wing must have the ability to fold close to the trucks for transport | | ___ | | ___ |
| D. The truck steering stops shall not be moved or altered in any way | | ___ | | ___ |
| E. Wing to be 100% welded for strength and sealing | | ___ | | ___ |
| F. Moldboard to be made a minimum of 3/16" steel | | ___ | | ___ |
| G. Moldboard to be double formed and is an integral design | | ___ | | ___ |
| H. Kennametal carbide blade and cover blade to be mounted when delivered | | ___ | | ___ |
| I. Moldboard to be punched A.A.S.H.O. | | ___ | | ___ |
| J. Front and rear wing posts shall have double acting vertical lift cylinders | | ___ | | ___ |
| K. Wing to have dual push arm trip style design | | ___ | | ___ |
| L. Wing will come with two cast moldboard shoes mounted, inner and outermost ends | | ___ | | ___ |
| M. Moldboard able to float with a return spring | | ___ | | ___ |
| N. Front wing posts to be mounted to front removable hitch so hood may be opened without moving wing | | ___ | | ___ |
| O. Heel lift cylinder to be mounted to front wing post | | ___ | | ___ |
| P. Toe lift cylinder to have hydraulic locking device | | ___ | | ___ |
| Q. Hydraulic wing toe support shall be spring cushioned adjustable double acting with adjustable relief pressure | | ___ | | ___ |
| R. Wing tube support beam must have gusset to frame | | ___ | | ___ |
| S. Height sight gauge for wing | | ___ | | ___ |
| T. Push tube shall have Rock County detach design and ALL MOUNTING BOLTS SHALL BE EASILY ACCESSIBLE OF BOTH BOLTS AND NUTS FROM THE OUTSIDE WITH AN IMPACT WRENCH AND IMPACT SOCKET. The mount shall have a wing raise stop welded to the mount, the stop shall be all steel NO RUBBER BUMPER ROCK COUNTY SHALL APPROVE THE DESIGN | | ___ | | ___ |
| U. Hydraulic manifold with JIC fittings to be mounted near wing post TRUCK SIDE HEEL RAISE MALE, TOE EXTEND OUT MALE CONNECTOR | | ___ | | ___ |
| V. All grease points shall have grease lines run to a single accessible manifold and have clearance through full range of motion | | ___ | | ___ |



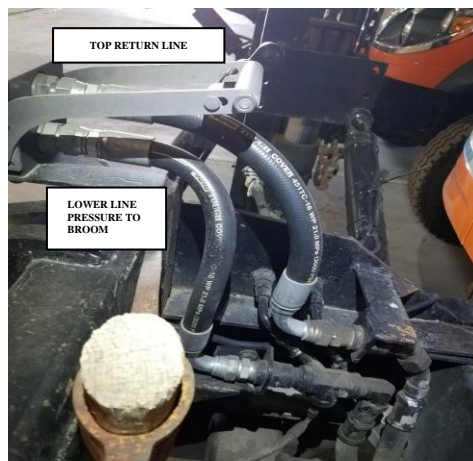
Does Not
Meets Specs Meet Specs
 Y / N

XI. UNDERBODY BLADE

- | | | |
|--|-------|-------|
| A. Underbody plow blade to be 12' in length | _____ | _____ |
| B. Blade to both curl up and down and swing to right and left hydraulically | _____ | _____ |
| C. Moldboard to be punched A.A.S.H.O. | _____ | _____ |
| D. Down pressure to be sufficient to scrape ice from roadways | _____ | _____ |
| E. All grease points shall have grease lines run to a single grease manifold and take grease in a full range of motion and blade curl shall be fully greasable and have grease lines that cannot be broken off and have adequate shielding per Rock County rep. approval | _____ | _____ |

XII. BROOM CONNECTOR AND WIRING

- | | | |
|---|-------|-------|
| A. For hydraulic coupling hookup, STUCCI coupler part #71Z02161604C | _____ | _____ |
| B. Fed with 1" inlet and 1" outlet | _____ | _____ |
| C. The valve section will be VDM 12, 40 GPM, 12 series C17037 min. | _____ | _____ |
| D. The STUCCI valve will have pressure bleed off that runs to the plow turn bleed off | _____ | _____ |
| E. Coupler mounted right side of plow frame | _____ | _____ |
| F. All hoses must be attached with JIC fittings | _____ | _____ |
| G. On coupler lower hose hi pressure feed, upper hose return | _____ | _____ |
| H. The wires in loom will extend out to below hyd coupler that will be energized when broom switch is turned ok. This wire is used to turn on the fan for the hyd. oil cooler that is on the broom | _____ | _____ |
| I. The plug is a Metropack M-P480 <u>FEMALE BODY 22-150</u> | _____ | _____ |
| J. The wires are to be 10 gauge <u>2 TERMINALS NO. 22-145</u> | _____ | _____ |
| K. The power wire will be fed through a 35 amp resettable breaker, nothing else will go through that breaker. The breaker will be mounted in the switch panel near the broom switch. See Rock County rep. | _____ | _____ |
| L. In the electrical plug the red positive will go to the A. position, the black ground goes to the B. position, the ground wire will be grounded in the force panel in the cab. | _____ | _____ |
| M. The broom circuit will have its own relay | _____ | _____ |



**PRESSURE BLEED OFF
LINE TO PLOW, TURN
BLEED OFF**



Does Not
Meets Specs Meet Specs
Y / N

XIII. LIGHTING

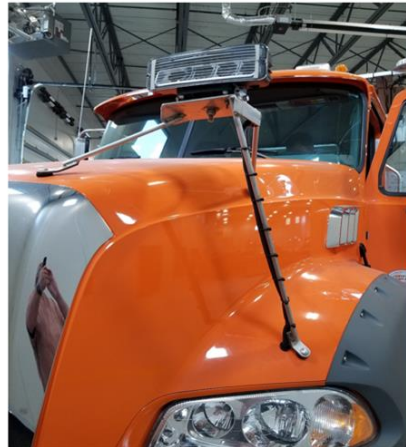
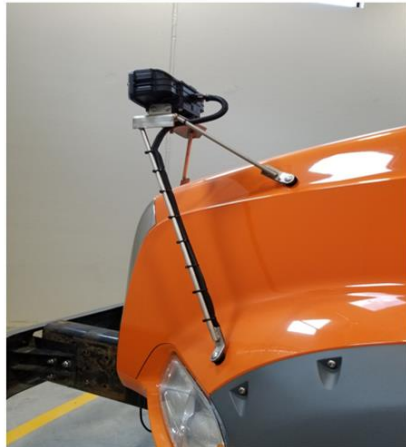
- A. Lights will be furnished by Rock County _____
- B. Plow lights (2) will include two plow light headlights to be installed on hood with stainless steel brackets approved by Rock County at a height of 80 inches to the bottom of the light. Plow lights are to be wired into the factory plow light wiring, 12 Volt LED with heated lens _____
- C. Box strobes (2) will be mounted on headache rack as far forward as is practical on a self-leveling bracket. Lights to have unobstructed view at 50 feet from rear of vehicle. 12 Vole LED with protective guards (see photo) _____
- D. Wing light to be installed on mirror, aimed down at wing. 12 Volt LED flood light. _____
- E. Wing strobe light (1) to be installed at end of wing. 12 Volt LED strobe _____
- F. Sander lights (2) to be installed on vehicle pointing down on spinners. 12 volt LED flood _____
- G. Rear tail lights, back up lights and box strobes to be installed in rubber grommets. Lights and grommets to be provided by Rock County _____
- H. Additional back up lights (2) to be installed on side of box. 12 Volt LED _____
- I. Scraper lights (2) to be installed pointing down approximately at the mid point of scraper travel. 12 Volt LED flood _____
- J. Mirror lights (2) to be installed on top of mirror bracket facing forward. 12 volt LED spot _____
- K. Go-Light to be installed on roof with a 6" riser under light and as far forward as is practical on the roof _____



SCRAPER LIGHT AND MIRROR LIGHT



HEADLIGHTS AND BRACKETS



BOX TOP STROBES AND GUARDS
VERTICAL BARS ANGLED TOWARD REAR TO
DEFLECT BRANCHES



GO LIGHT ON ROOF AND LIGHTS ON MIRRORS



SANDER LIGHT, TAIL LIGHTS IN BOX, BACK UP
LIGHTS AND REAR STROBE LIGHTS



	Does Not
<u>Meets Specs</u>	<u>Meet Specs</u>
Y /	N

XIV. INSTALLATION

- | | | |
|--|-------|-------|
| A. All equipment to be installed and to function correctly | _____ | _____ |
| B. Assembled unit must meet and exceed all regulatory agency requirements | _____ | _____ |
| C. First unit installation of body, hydraulics, spreader and plow must be Inspected by a Rock County representative as work proceeds | _____ | _____ |

XV. MISCELLANEOUS

- | | | |
|--|-------|-------|
| A. Air bag leveling system to be mounted on front right and leaf spring with controls in cab NON SELF LEVELING. Air bags shall not interfere with the front tires turning, steering stops shall not be changed. Controls to have on/off switch not done through regulator knob | _____ | _____ |
| C. Operational and Service training to be provided for operators and Mechanics (on-site) | _____ | _____ |
| D. Training for hydraulic system and diagnosis procedures for spreader control for mechanics | _____ | _____ |
| E. The successful bidder shall furnish two (2) service and parts manuals for all equipment | _____ | _____ |



WARRANTY

All warranty work shall either be done at the Rock County Highway Repair Shop at Janesville, or the bidder shall be responsible for the pick-up and return of unit to be serviced. There shall be no travel charges.

Pictures of Rock County examples are provided with the bid invitation. More pictures can be provided upon request during the question period.

The successful bidder shall include photos, drawing or diagrams portraying examples of completed products reflected within the bid. These shall be included with the original sealed bids.

WARRANTY SHEET

Successful bidder shall furnish Warranty covering the Dump Bodies, spreaders, plows and wings, complete as contained in this proposal and as bid. Warranty to cover and protect Rock County against faulty material and workmanship covering any and all parts on all equipment in this bid.

Bidders shall state here the number of days or hours of operation the Warranty will be in effect following the date of delivery to the County of the Dump Body Central Hydraulic System.

Number of Days _____

Number of Hours _____

What parts of the Dump Body's and Central Hydraulic System and complete equipment as delivered will not be covered by such a Warranty: _____

Does Warranty cover replacement Parts only? yes no (A) does warranty cover just the replacement of parts F.O.B. Rock County Garage, Janesville, WI? Yes No

(B) Does Warranty cover the replacement of the parts and all labor to make such replacements on the Dump Body's and Central Hydraulic System at no cost to Rock County? Yes No . If such replacement parts and all labor necessary for making such replacement are covered in the Warranty at no cost to Rock County will such work be performed by the bidder's mechanics in the Rock County Garage, Janesville, WI? Yes No If not, give the name and address of the location of such service that will be made by the bidder. _____

GENERAL REMARKS pertinent to conditions of Warranty given.

NAME AND LOCATION OF (24 HOUR PARTS) - SERVICE

**ROCK COUNTY, WISCONSIN
DEPARTMENT OF PUBLIC WORKS**

**HIGHWAY DEPARTMENT
FAX (608) 757-5470
PHONE (608) 757-5450**



#DPW-2021-3B2

TWO (2) TANDEM AXLE TRUCK 15' DUMP BODIES, PLOW, RIGHT HAND SHELVING WING, SPREADER, 950 GALLON SLIDE IN ANTI ICE TANK, UNDERBODY BLADE AND PRE-WET.

**FOR ROCK COUNTY PUBLIC WORKS DEPARTMENT
JANESVILLE, WISCONSIN**

BID FORM

BASE BID	BID PRICE
TWO (2) TANDEM AXLE TRUCK 15' DUMP BODIES, PLOW, RIGHT HAND SHELVING WING, SPREADER, 950 GALLON SLIDE IN ANTI ICE TANK, UNDERBODY BLADE AND PRE-WET	\$
ALL OPTIONS LISTED ON SPECIFICATION SHEETS	\$
TRAINING, SUPPORT, DELIVERY AND SET UP	\$
TOTAL BASE BID COST	\$
OPTIONAL ACCESSORIES ROCK COUNTY MAY OR MAY NOT PURCHASE THESE OPTIONS	
EXTENDED WARRANTY	
ESTIMATED DELIVERY DATE AFTER DATE OF ORDER	DAYS

List any deviations or additional information to your bid on company letterhead.

BID PREPARED BY: _____

SIGNATURE _____

PRINT NAME & TITLE _____

COMPANY: _____

ADDRESS: _____

PHONE NUMBER: _____

E-MAIL ADDRESS: _____