

# CITY OF ROCK ISLAND

## SPECIFICATIONS

September 21, 2022

It is the intent of the City of Rock Island to receive Proposals on the outfitting of eight (8) 37,000 GVW Single Axle Truck Chassis's single axles with 10 foot dump bodies, front mount plows, side mount wing plows, front mount hydraulic pumps, and dual auger V box spreader systems with pre-wet systems. The truck chassis are being bid separately.

The proposed equipment shall be the manufacturer's latest production model, manufactured by American based companies which meet or exceeds the minimum specifications contained herein. The attached specification comparison sheet must be completed and returned with the proposal. Bidders who do not comply will be subject to disqualification. Bidders must enclose literature on all models of equipment being bid (For Comparison Purposes). The proposed specifications were written using BEAU-ROC Dump Bodies, Swenson V Box Spreaders, and Universal Truck Equipment Plows.

Proposals submitted shall be marked (**Wednesday October 19, 2022, Truck Chassis Outfitting Proposals**).

Proposals shall include all labor and materials necessary to complete the work specified and the delivery of fully functional units F.O.B. City of Rock Island, Public Works Facility, Fleet Services Division, 1309 Mill Street, Rock Island, Illinois. Payment will be made within thirty (30) days of formal acceptance of the equipment by the Fleet Services Manager. Award of the purchase contract will be based upon price, quality of product, and the delivery time. The delivery time shall be based on current industry conditions.

The successful bidder shall be responsible for picking up the truck chassis from the City of Rock Island, Public Works Facility, 1309 Mill Street, Rock Island, Illinois and delivering them to the body company.

Bidders shall provide at the time the bid proposal is submitted a copy of the manufacturer's standard warranty covering each component of the unit being bid.

Award of the purchase contract will be based upon price, quality of product, and the delivery time. The delivery time shall be based on current industry conditions.

The successful bidder shall furnish current service media, covering shop mechanical repairs, parts, wiring diagrams and component location for the equipment being proposed upon delivery.

The successful bidder shall warrant and guarantee that the proposed price will be the firm price and there will be no escalation of cost or price at time of delivery.

The City of Rock Island, reserves the right to accept or reject any or all proposals, decide what products meet, exceeds, or equal too, and waive any technicalities.

Any questions regarding the specifications or bidding procedures should be directed to Alan L. Vanderheyden, Fleet Services Manager at (309) 732-2252.

The City of Rock Island  
Single Axle Snow Equipment  
Minimum Specifications

**BEAU-ROC Model SSM1 – Dump Body Specifications**

**General:**

Each bidder must indicate on the following items whether their bid is in compliance or not with the stated specifications. Exceptions to the bid must be detailed. Bidder must supply literature of the model being bid. Successful bidder must consult with the supervisor on specifications before fabricating the body(ies).

**Make and Model:**

BEAU-ROC SSM1 (Clean side single panel, no posts, stainless steel)

**Dump Body Dimensions:**

Length: 10 Feet

Floor Width: 86" at the front of the body and 88" at the rear of the body.  
The body must be tapered to assist in load breakaway.

Side Height: 24"

Tailgate Height: 36"

Cab shield: 24"

**Dump Body Materials:**

Floor: ¼" Hardox 450 (180,000 psi yield strength and 215,000 psi tensile strength.)

Front: Minimum 7 gauge SS201 2B finish stainless steel (45,000 psi yield strength and 95,000 psi tensile strength).

Sides: Minimum 7 gauge SS201 2B finish stainless steel (45,000 psi yield strength and 95,000 psi tensile strength).

Tailgate: Minimum 7 gauge SS201 2B finish stainless steel (45,000 psi Yield strength and 95,000 psi tensile strength).

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**Body Understructure Design:**

Body shall be cross-memberless. Cross-member understructure not acceptable, no exceptions.

Longitudinals shall be I-Beam.

All seams shall be 100% fully welded.

Longitudinal Height: 10"

Body/Safety Prop: A single body prop that meets the OSHA requirement shall be provided with the body.

Floor Design: Shall be one-piece (no exceptions - multi-piece floors not acceptable). Floor sheet shall be formed such that the floor bends up at 57 degrees to join the side sheet forming a knee brace. The floor shall have a minimum flat width of 75" at front of the body and 77" at rear of the body. All seams shall be 100% fully welded.

Front Bulkhead shall be designed with 7.5" s x 7.5" 45 degree front corners for reduced wind resistance and to aid in avoiding exhaust interference issues.

**Cabshield Design:**

Minimum 10 gauge SS201 2B finish stainless steel (45,000 psi yield strength and 95,000 psi tensile strength). Cabshield must be 100% fully welded (stitch welding not acceptable).

**Sides Design:**

Fully formed, single piece side with one pressed-in horizontal side brace to increase rigidity.

Lower rub rail shall be formed and integral to the side sheet (weld-on rub rails Are not acceptable), dirt shedding and joined to the floor. It shall have an angle of 40 degrees and shall have a 90 degree end face of 2 5/8" high (rub rails that finish in a point or rounded edge are not acceptable).

4" x 3" top rail is formed and integral to the side sheet.

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**Notes:**

***Weld-on horizontal bracing is not acceptable due to inferior design, more weight, and decreased flexibility of the side.***

***Flat sided designs are not acceptable due to inferior rigidity and stability of the side plate.***

Each side shall consist of one front post, minimum 10 gauge SS201 2B finish stainless steel (45,000 psi yield strength and 95,000 psi tensile strength) and one rear post of one-piece construction and fabricated out of a minimum 7 gauge SS201 2B finish stainless steel (45,000 psi yield strength and 95,000 psi tensile strength).

Board pockets shall be 2.75" wide and fabricated with 7 gauge SS201 2B finish stainless steel.

**Tailgate Design:**

Tailgate wear surface shall be a single piece, fully formed, with one pressed-in horizontal brace to increase rigidity.

Tailgate outer frame shall consist of single, dirt shedding, formed 3/16" thick upper and lower brace. Outer side bracing shall be 3" x 4" x 3/16" structural tubing.

**Note:**

***Weld-on intermediate horizontal and/or vertical braces are not acceptable due to the decrease in tailgate plate's resistance to deformation.***

Top hardware will be top mount style with a minimum 3/4" thick hinge plate and 1.25" diameter x 3 3/4" length, stainless steel pin. The hinge shall have a stainless steel bushing for contacting the pin.

Top mount hinge shall have a 9" offset.

Bottom tailgate pins shall be a minimum of 1.25" in diameter and a minimum of 3" long.

Tailgate shall be double-acting.

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Sufficient length of 3/8" stainless steel Grade 70 chains for the full function of the tailgate.

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All tailgate hinge linkage must have grease zerks at all pivot points. The grease zerks must be recessed for protection.

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All body seams must be 100% fully welded.

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**Tailgate Locking Mechanism and Rear Bumper Design:**

Tailgate shall be manually operated.

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Tailgate control shall be designed to operate from the left front corner of the dump body. A minimum 1" round cross rod shall be used for the lever action at the front of the body. The cross rod shall be connected to the rear latches with a 3/4" connecting link fastened with pipe supports under the dump body floor and must not protrude below the rear body corners. All bearing blocks shall be constructed with enough clearance to eliminate the necessity for grease. The handle must have a molded hand grip and the handle must be operational from outside of the body (underneath not acceptable).

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Tailgate latching mechanism shall be of over-center design.

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Locking mechanism shall be zinc chromated (no exceptions to protect Against corrosion) and individually adjustable.

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Cross shaft shall be a minimum of 1.25" in diameter.

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Mechanism pivot bearings and locking device thread shall be greasable.

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Latch fingers shall be a minimum 5/8" stainless steel that seat into a latch holder of a minimum thickness of 3/8" steel.

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Locking mechanism pins shall be a minimum 1.25" in diameter and made of stainless steel.

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Entire mechanism shall be mounted to a 7 gauge SS201 stainless steel bumper.

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The bumper shall be full width and shall extend and span the width under the rear posts (no exceptions). The bumper shall be fully welded to the floor and rear post support extensions to form a high strength structurally sound unit.

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**Rear Post Design:**

Rear posts shall be one-piece construction and fabricated out of a minimum of 7 gauge SS201 2B finish stainless steel (45,000 psi yield strength and 95,000 psi tensile strength).

Rear posts shall be full depth.

Rear posts shall have a small access hole in bottom cap for electrical wire passage.

Light hole cutouts shall be enclosed and protected inside the post with Stainless steel light boxes.

**Welding:**

All body welds shall be 100% full and continuous.

**Dump Body Warranty:**

Minimum one-year parts and labor.

**Underbody Hoist:**

Champion 820SF Hoist or Equivalent

Cylinder shall be double acting.

All pivot points shall be equipped with grease zerks.

Heavy Duty lift arms shall easily attach directly to the body using 4140 Grade, 1 1/2" hinge pivot.

The hoist shall be easily installed on the truck using extra heavy duty 4140 grade cast mounting brackets with 12 grade 8 bolts

The Hingers shall be cast from extra heavy duty 4140 grade steel to ensure Durability. Hinges shall be welded directly to the body's longitudinal.

The hoist shall be an NTEA Class 60 twin-arm underbody subframe hoist

Cylinder pressure requirements – 2000PSI

Cylinder diameter – 8"

Cylinder stroke – 20"

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**Painting:**

All stainless steel shall be left unpainted. Carbon steel shall be chemically cleaned and coated with a lead-free rust inhibitive primer and painted gloss black.

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**Ladder:**

A fold up stainless steel, 6 step style ladder shall be supplied.

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Ladder shall be mounted on driver side front corner of body.

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Ladder steps shall be constructed of 3 row safety steps with 2 internal steps.

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**Splash Guards:**

Rubber front mud flaps with "T" braces.

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Rubber rear mud flaps.

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**Walk rail:**

A 1-7/8" wide "grip strut serrated" walk rail shall be installed full length on both sides of body.

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Walk rail shall be mounted above lower rub rail and shall not increase the overall width of the body.

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**Lighting**

All lights shall be L.E.D. type.

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One pair ABL 3830-0080 LED plow lights mounted on stainless steel grill brackets.

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One pair Whelen "WHE-5GA00FAR" amber flashers recessed in cab shield facing forward.

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One Whelen "WHE-5V1A" 180-degree amber flasher recessed in each side of the cab shield.

One pair Whelen "WHE-5GA00FAR" amber flashers recessed in cab shield facing rearward.

One pair oblong LED STT lights recessed in cab shield facing rearward.

One pair Whelen "WHE-5GA00FAR" amber flashers recessed in each rear post.

One pair oblong LED STT lights recessed in each rear post.

One pair oblong LED "back up" lights recessed in each rear post.



One marker light on side of each rear post.  
One LED three light cluster recessed in rear hinge.

One ABL-2000-0018 Spinner light mounted outside driver's corner post  
side corner post.

Two ABL-2000-0018 Wing Lights mounted per customer guidance.

Whelen "WHE-WPLOWZ" wing flashers mounted on the discharge  
end of the wing moldboard.

Four 3" diameter red reflectors shall be provided.

Wiring shall be professional quality construction utilizing molded on  
connections with jacketed cable for increased durability and  
weather resistance.

**Rear Hitch:**

- Tri-State 1" fabricated carbon steel plate
- One PH30 pintle
- Two 4" round STT lights - recessed
- One 6" oblong back up light - recessed
- One 7 flat RV trailer plug
- One pair carbon steel D-rings

**Central Hydraulic System**

**Hydraulic Pump:**

The hydraulic pump shall be a U.S. manufactured  
variable displacement axial piston pressure and flow compensated  
load sensing type. The pump shall be cast iron constructed and rated  
to 5.98 cubic inches per revolution at maximum stroke which will  
deliver 24.7 GPM @ 1000 engine RPM. The pump shall have a 2-1/2"  
split flange suction, 1" split flange pressure port and SAE #12 case  
drain line plumbed directly back to the reservoir. The pump shall be  
rated for a maximum RPM of 3000 at standby pressure. The pump  
shall have a 1-1/4" keyed drive shaft and SAE 4-bolt type C mounting  
flange. The shaft must have a captured keyway and a flat opposite  
the key for the driveline set screw. The pump shall be Eaton 620  
series piston pump.

**Mounting:**

The hydraulic pump shall be mounted with shaft centerline  
parallel to the crankshaft centerline and at a level to create not more

than a three-degree angle and not less than a one-degree angle on the driveline. The pump mounting shall be incorporated with a bracket fabricated to mount in the extended frame rails of the truck.

**Drive Line:**

The hydraulic pump shall be driven directly off the engine crankshaft via a splined driveline to allow for movement. The driveline shall include grease fittings on both u-joints. Driveline shall be a Force America model 1310 series.

**Shutdown System:**

(Load Sense) A single normally open, two position, two-way, poppet style solenoid valve capable of stopping oil flow to the hydraulic system when actuated. The valve shall be mounted directly to the hydraulic pump discharge port. The valve assembly must also incorporate a high-pressure relief valve to protect the system from over pressurizing during system shut down. The system shall be designed with an enunciator in the cab that is on a control panel to alert the driver. The panel shall also contain warning lights for the body up light.

Force America Add-A-Stack "Pneumatic" controlled hydraulic valve to operate hoist, plow, wing, auger, spinner, and pre-wet functions.

Force America VT-35 stainless steel valve enclosure/ hydraulic tank

High pressure hydraulic filter

**Console:**

- Tri-State Truck Equipment custom console.
- APSCO "Pneumatic" air controls.
- Hoist-Single acting lever with interlock
- Plow lift-Single single acting lever
- Plow angle-Single acting lever
- Wing Heel-Single acting lever
- Wing Toe-Single acting lever

**Spreader Controller:**

Force America 5100EX Electric Spreader Controller - "Closed Loop"

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**GPS System:**

Precise IX-403. This mobile data collection system shall be fully integrated in all aspects with the Force America 5100EX and be supplied with each vehicle.

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**Camera System:**

Install 2 Camera system with 7" Monitor.

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**Plow Hitch**

**Universal Truck Equipment PNL-EXT-FDLA**

Hitch shall be designed to transfer the plowing forces directly to the truck frame.

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Unit shall be of a low-profile design to provide clearance for a tilt hood with stationary grill.

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Lift cylinder shall be a 3-1/2" x 10" double acting lift cylinder.

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The plow hook up shall feature a standard quick attach receiver with drop pin incorporated into the hitch and shall be welded into place.

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The lift arm shall have an optional telescopic lift arm collapsible by removing one pin.

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The lift arm can be folded down when not in use, and the cylinder shall be stowed behind the lift arm with clearance for accidental actuation.

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**Side Plates:**

Universal Truck portion hitch will be mounted using 1/2" x 12" full length side cheek plates.

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Side cheek plates will have 3" Angle Iron welded to inner cheek plate with top side flush with bottom of frame flange for extra sheer strength.

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1/2" x 12" plate will cap the front of truck frame and have 3" angle tying front into side cheek plate.

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The area between Universal hitch and Side cheek plates will be boxed in using 1/2" steel.

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The Lower portion of hitch will have a 4" x 4" x 1/2" angle welded to backside of hitch and to each side cheek plate.

All Welds must be continuous.

Side Cheek plates will be bolted on using (8) 3/4" grade 8 bolts on each side.

A DXV-50 cushion valve(1300psi) is to be installed on the plow hitch.

All components are to be painted gloss black.

**Snow Plow**

**Universal Truck Equipment CST-11-40L**

Moldboard shall be 11' and have a uniform height of 43" and be constructed out of 10 gauge steel.

Quick attach Loop to be installed on oscillating plate in lieu of standard fixed loop.

Plow push frame to be 102" in length with six pivot points and eight 1/2" ribs  
Push frame semi circle is 1/2" x 3-1/2" x 3-1/2" angle.

A-Frame Pivot Pin to be a minimum 1-3/4" pin with 1" x 5" x 11" stops.

Two heavy duty 4 x 10" power reversing cylinders with 2" nitrited rods.  
Cylinders are to be mounted above the push frame. Cylinder dead end ear to be 3/4" and angle braces are to be 1/2".

Heavy Duty 3/4" x 4" x 4" lower trip Cutting Edge with Individually replaceable torsion trip springs.

Moldboard trip/trip cutting edge combination (2-moldboard compression Type springs & 5-trip cutting edge torsion type springs. Springs must be Individually replaceable.

The cutting edge shall be 1" x 8" x 11' C1090 steel and shall have standard AASHO hole spacing that is to be top punched 1-1/2" from the top edge to the center of the hole.

The moldboard shall be equipped with a rubber flap kit. This shall include A 12" flap made from rubber belting and a stainless-steel strip with stainless Steel nuts and bolts.

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The plow shall be equipped with two 36" tall blaze orange bolt on plow markers.

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Unit shall be equipped with 5/8" thick rounded curb shoes. Curb show shall Mount to cutting edge with two bolts and match the cutting-edge height.

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The plow shall be equipped with one pair of mushroom type shoes with hard-faced pads.

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The plow is to be primed and painted orange.

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**Mid-Mount Wing**

**Universal Truck Equipment AHW/PDJM/NLA**

No Lift Arm Post Assembly

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Moldboard overall length shall be a minimum of 8' with a 3/4" x 6 x 8' cutting edge. Moldboard shall be 27" tall - straight with a 3/16" moldboard thickness and constructed with (5) 3/8" ribs.

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Trip Cutting edge with torsion type trip springs. Lower trip edge angle 1/2" x 3" x 4".

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Slide assembly to be 3/4" thick x 6" wide and 27-1/2" long and bolts directly To the Toe Lift Cylinder with a 1-1/4" x 7" grade 8 bolt.

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3-1/2" x 11" double acting toe cylinder with 2" Nitrited Rod (2-1/4" OD & 1-1/4" ID x 4-1/4" long pipe assembly welded to the top of the toe cylinder For slide assembly to be bolted directly to the toe cylinder rod.

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3" x 10" double acting "Decel" heel cylinder with 1-1/4" Nitrited Rod.

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Includes rubber/steel mount pad for the dump box cushion.

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27" Red cable type end marker for discharge end only.

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Two flow control valves to adjust the speed of the wing up & down. Safety

Chain at the toe, safety chain with rear stop.

Wing shall have 7-1/2" of mechanical float at the toe.

**V-Box Spreader**

**Swenson EV Select Dual Auger Stainless Steel V-Box Spreader or  
Hi-Way E2020A2 Dual Auger Stainless Steel V-Box Spreader**

**General:**

This specification shall describe a V-box material spreader capable of hauling and spreading free flowing granular materials from a minimum width of four (4) to forty (40) feet.

This unit shall consist of a hopper, discharge/feed conveyor, spinner disc, power drive, and all components necessary to make a complete operating unit.

All stainless steel used in the production of this unit shall be corrosion resistant, non magnetic stainless steel.

The manufacturing and production of this unit shall be of the best commercial practices and only materials of the finest quality are to be used.

Bidders must submit with their bid complete specifications on the unit they propose to furnish.

**Body:**

The spreader hopper shall be constructed of 12 gauge stainless steel with a 2" double crimped top edge forming for greater rigidity.

The hopper body length shall not be less than 10 feet with 24" longitudinals overhung for supporting the spinner assembly.

The hopper shall not be more than 82" outside width with the side height of 65".

The capacity of the hopper shall be 8.3 cubic yards water level full.

The body sides shall have not less than a forty five degree slope to insure free flow of material to conveyor.

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The body longitudinals shall be manufactured of 10 gauge stainless steel.

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The formed cross sills shall be 3.25" x 1.75" formed stainless steel that ties the lower edge of the longitudinals to each side support.

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These cross supports shall be wide enough to allow the hopper box to be mounted on various width truck frames or slide into a dump body.

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A 6" stainless steel box beam will be elevated 3" above the top edge of the hopper, thus providing a longitudinal brace and hinge point for the top screens.

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There shall be a 5.75" x 2.375" stainless steel formed channel welded under the box beam to each side for additional side support.

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The body and conveyor longitudinals shall be electrically welded into a rugged solid unit.

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There shall be formed stainless steel side supports that extend the full angle height spaced on approximately two (2) foot centers, matching the material of the hopper.

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A heavy duty stainless steel lift hook shall be provided at each corner.

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A mounting kit shall be provided to safely secure the hopper to the truck.

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**Auger System:**

The "dual augers" system shall be twin augers 7" in diameter running longitudinally with the body, feeding material the full length of the hopper.

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The augers shall consist of a 4" O.D. pipe with a 2" cold roll end shaft and fliting continuously welded the full length.

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The fliting shall be 1/2" thick The fliting shall have three (3) different pitches so the hopper will unload evenly from the front, middle and rear.

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The augers shall be driven by an 18 H.P. hydraulic motors directly coupled by a spline shaft coupling.

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The coupling shall be equipped with a grease fitting so that the motor spline and coupling can be lubricated.

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The idler end of the auger shall be supported by a 4 bolt flange, heavy duty, dust sealed, self-aligning ball bearing.

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This bearing must be able to be lubricated from the rear of the dump body.

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Both the auger drive and idler end plate shall be manufactured from 7GA. stainless steel.

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An adjustable height stainless steel inverted vee shall be provided to keep material load off the auger for easier auger start-up.

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A protective carbon steel grate shall be placed over the exposed auger outside the hopper.

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The spreader shall be equipped with a safety interlock device to positively prevent power from reaching the auger motor when the auger cover and top screens are opened beyond the normal operation position.

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**Spinner Assembly:**

The distributor disc shall be at least 18" in diameter of 7 ga steel and have six replaceable formed 7 ga carbon steel fins.

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This disc shall be mounted on a cast iron replaceable hub and connected directly to the hydraulic motor.

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The material shall be guided from the auger to the disc by means of three adjustable, internal, stainless steel deflector.

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These deflectors shall control the spreader pattern from right to left by controlling where the material drops on the disc.

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Two-piece adjustable chute assemblies shall have one material deflector in the upper portion and two opposing deflectors in the lower portion for greater spread pattern control.

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The entire spinner assembly shall be manufactured of not less than 12 gauge stainless steel, and shall be adjustable in height to accommodate either the slip-in V-box or to chassis mounted V-box.

There shall be four (4) spinner baffles, one front fixed, two side and one rear adjustable without the use of tools.

The spinner disc shall be driven by an independent low speed high-torque "orbital type" motor.

This motor shall be directly coupled to the spinner hub thus eliminating any extra extension shaft or bearings.

The entire spinner assembly shall be capable of repositioning without the use of special tools to allow for cleaning, storage, and unloading from the conveyor without the interference from the spinner assembly.

**Top Screens:**

The top screens shall be constructed of 3/8" rods welded to form a 2.5" square mesh which is framed by a combination of 1/4" x 1 1/2" flat steel with the edge supports reinforced by 1/4" x 1.5" flat steel bar. Top Screens must be hot dipped galvanized.

The screens shall be manufactured in sections not over 45" wide.

Each section shall be easily removable by using the "drop n loc" type hinge.

Screen utilizing hardware that may vibrate loose is unacceptable.

**Painting:**

All stainless steel shall be left unpainted. Carbon steel components shall be chemically cleaned and coated with a lead free rust inhibitive primer and painted with lead free black enamel.

**Nylon Strap Hold Down Kit:**

It shall include four (4) ratchet nylon straps that are 2" x 5' with a minimum load rating of 10,000 lbs.

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This kit shall also include four (4) weld on channels and four (4) reinforcing plates for attaching the straps to the dump body and the spreader.

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**Tailgate Latch Kit:**

The tailgate latch will be used for additional support in securing the v-box spreader into the dump body.

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An angle iron of 4" x 4" and of sufficient length to reach the tailgate latches will be furnished along with 1 1/4" x 10" shafting.

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Shall be available in both Stainless Steel and Carbon Steel

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**Grease Extensions:**

An anodized 6061T6 aluminum grease manifold block shall be mounted at the rear of the body incorporating the front bearing grease extension tubes, rear bearing grease fittings, and feedgate screw jack from a single convenient location.

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Other fittings shall be placed at convenient location for normal maintenance.

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The anodized 6061T6 aluminum grease manifold block shall have a minimum of six (6) ports tapped to accept three (3) 1/8 inch straight grease zerks and three (3) 1/8 inch grease Parflex hoses to provide for adequate one location greasing of the front and rear bearings and feedgate screw jack.

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All hoses incorporated into the grease manifold block system shall be Parflex hose manufactured by Parker Hannifan Corporation or equal, and shall have an inside diameter of 1/8 inch, a maximum working pressure of 2500 psi and a minimum burst pressure of 10,000 psi.

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The hoses used shall be held in place by a sufficient number of rubber cushioned hose clamps.

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**Rubber Spill Shields:**

Mounted on both sides of the Hopper for overflow.

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**Winch Kit:**

1300 lb. winch for horizontal pulling applications.

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High carbon steel gears, permanently lubricated bearings, ergonomic handle grip

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Zinc TUFFPLATE finish for added rust resistance

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**Leg Stand Kit:**

The spreader shall come equipped with a storage stand system designed to be welded directly to the v-box.

\_\_\_\_\_

This skid type arrangement shall be constructed entirely of formed stainless steel

\_\_\_\_\_

The main frame on which the hopper will mount shall be constructed of formed stainless

\_\_\_\_\_

There shall be sufficient lateral bracing

\_\_\_\_\_

The forward "leg" shall be constructed of 3" x 4" x 1/4" formed tubing and shall be designed to fold up as the vehicle backs underneath the stand.

\_\_\_\_\_

Machined steel caster wheels with lubeable bronze bushing bearings shall be mounted at the front of the main frame to allow the unit to roll into the vehicle.

\_\_\_\_\_

Rear "legs" shall be of a self storing telescopic design.

\_\_\_\_\_

The lower "leg" shall be constructed of 3 1/2" x 3 1/2" x 3/16" tubing, and shall telescope inside the upper "leg" that is constructed of 4" x 4" x 3/16" tubing for storage.

\_\_\_\_\_

The rear bumper shall extend beyond the spinner assembly to help protect the spinner assembly from accidental damage.

\_\_\_\_\_

A complete operating/instruction manual shall be provided.

\_\_\_\_\_

**Painting:**

All stainless steel shall be left unpainted.

\_\_\_\_\_

**Hydraulic Pre-Wet System, General:**

Closed loop hydraulic system with (2) two 100-gallon polyethylene tanks, Integrated power unit, plumbing with crossover kit, and stainless steel Mounting straps with hardware for v-box spreader.

\_\_\_\_\_

The system shall come complete with the liquid spray pump hydraulic drive motor, cab controls, nozzle kit, spray reservoir(s), and necessary hoses, and fittings to make the system complete.

\_\_\_\_\_

This spray system shall be capable of spraying calcium and magnesium chloride, glycol, liquid urea, and other deicing chemicals.

\_\_\_\_\_

**Tanks:**

Spreader shall be equipped with dual liquid tanks, one on each side of the hopper.

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Each tank end shall have an upper and lower hose barb.

\_\_\_\_\_

Both tanks shall include a liquid level sight gauge with marker at the rear of the spreader.

\_\_\_\_\_

Tanks shall be supported by the hopper cross channels and shall be fastened to the hopper sides with 2" wide stainless steel straps.

\_\_\_\_\_

Tanks shall be vented via air vents mounted at the top of the tanks.

\_\_\_\_\_

Tank size to include: 200 gal (2x100)

\_\_\_\_\_

**Hydraulic Pump:**

9 GPM corrosion resistant positive displacement pump driven by 5 GPM Hydraulic motor. Unit includes 12 pulse polypropylene rotary flow meter With cabling.

\_\_\_\_\_

The connector between the hydraulic motor, and the product pump shall be a flexible coupling.

\_\_\_\_\_

Drive components shall be protected in weather-proof polypropylene housing And the wiring harness shall be sealed and have a weather pack plug.

\_\_\_\_\_

**Plumbing:**

The non-corrosive plumbing kit shall include 1-1/2" quick fill port, ball valve Shut-off, inline strainer and relief valve.

\_\_\_\_\_

**Hydraulic Spray System, Controls:**

Hydraulic spray system to be controlled with the in cab 5100EX Electric Spreader Controller.

\_\_\_\_\_

A one piece harness with sealed "weather-pack" connectors and disconnects shall be included with the system.

**Nozzels:**

There shall be two (2) brass spray nozzles equipped with cores, discs, and mounting hardware located to spray prewet materials at the discharge end of the hopper auger for mixing with granular material.

**Painting:**

All stainless steel shall be left unpainted. Carbon steel components shall be chemically cleaned and coated with a lead free rust inhibitive primer and painted with lead free black enamel.

**Bid Price for Snow Removal Equipment per Bid Specifications**

Bid Price: \_\_\_\_\_

Final Cost: \_\_\_\_\_

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

Signed: \_\_\_\_\_

Title: \_\_\_\_\_

**Exceptions**

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**CITY OF ROCK ISLAND**  
**Public Works Department / Fleet Services Division**  
**1309 Mill Street, Rock Island, Illinois**

October 3, 2022

To: All Bidders on the 37,000 GVW and 58,000 GVW Cab & Chassis, and All Bidders on the Outfitting of the proposed chassis.

**CLARIFICATION**  
**ADDENDUM**

This addendum is to clarify that the City of Rock Island requires the chassis dealer and the body installer work together on the truck outfitting to ensure for the proper clearances needed for all the proposed equipment that is to be installed. The city must be represented during these meetings.

If there any questions regarding this change, please contact me at (309) 732-2252.

Alan L. Vanderheyden  
Fleet Services Manager