This attachment shall be considered a continuation of the call for bids, and by reference made a part thereof.

The Board of County Commissioners reserves the right to reject any or all bids, to waive irregularities, or to accept any bid they deem to be in the best interest of Dawson County.

BASIS OF THE AWARD shall be dependent on the most responsible bid submitted. Consideration will be given to purchase price, repurchase price, delivery date, equipment service guarantees, parts and service availability, parts and service facilities location, analyses and comparison of equipment specification details, and past experience of Dawson County with similar or related equipment.

No bid will be accepted without a five (5) year or five thousand (5000) hour full machine warranty.

**Machine(s) bid must be new factory order machines.**

Pursuant to the call for bids, the following minimum requirement shall be met:

A. Motor Grader shall meet OSHA requirements and specifications on the date of the bid opening.

B. No bid will be considered unless accompanied by a bid bond, in the amount of not less than ten (10) percent of the total amount of the bid.

C. Delivery shall be F.O.B. Dawson County Shop, Glendive, Montana.

D. The bid shall include all operating, service, parts, and technical repair manuals.

E. Bidders must specify delivery date.

F. Motor Grader shall be a 2022 advertised model, with all the latest changes and features offered as standard whether or not called for in the specifications; except where this specification requires a substitution in lieu of the manufacturer’s standard equipment.

G. Bids will not be considered that do not include a copy of the manufacturer’s literature/specification material and an incomplete specification portion of the bid sheets.

H. Motor Grader shall come with all hydraulics, electronics, controls, etc. to fully operate all functions stated or asked for in bid.
I. Bids will not be considered that do not include a GUARANTEED REPURCHASE PRICE-PER MACHINE AGREEMENT for the years 2 through 5.

Please indicate in the following if the machine offered can meet the desired configuration. Any “no” should be clarified on a separate sheet if the bidder desires support for an alternate specification. Failure not to do so may result in non-acceptance of the bid.

YES  NO

______  ____ Typical operating weight no less than 44,500 lbs.

______  ____ Automatic dual path hydrostatic six wheel drive. Separate left and right systems

______  ____ Engine and Transmission must be designed and built by machines manufacturer.

______  ____ Blade pull must be a minimum of 49,500 lbs at maximum operating weight.

ENGINE

______  ____ a. Minimum displacement of 9.0 L (548 cu.inch)

______  ____ Manufacturer ____________________

______  ____ b. Four stroke, six cylinder, direct injection, water cooled, turbo charged diesel engine.

______  ____ c. Low temperature starting system.

______  ____ d. Ether starting aid.

______  ____ e. Block heater, 120 volt.

______  ____ f. 110 gallon fuel capacity, minimum

______  ____ g. Pre-screener.

______  ____ h. Dry-type air cleaner with pre-cleaner, automatic dust ejector and air cleaner, silicone pre-cleaner. Air intake tube must be adjustable to extend above the cab roof for snow plowing applications.

______  ____ i. Cooling on demand, hydraulic-driven, variable speed fan with auto reversing, and swing out rear fan door and fold out coolers.

______  ____ j. Anti-freeze -35 degrees (Fahrenheit), extended life.

______  ____ k. Oil filter, cartridge.

______  ____ l. EPA final tier 4 compliant
m. Engine shall have variable horsepower starting in 1st with a net HP of 210, and ending in 7th gear with a HP of 275 or greater.

n. Engine will automatically increase idle speed to compensate for any voltage drop resulting from an extended idle time.

o. Fuel filter, cartridge.

p. Full engine side cover panels with lockable compartment doors.

q. Fueling shall be easily accessed from ground level.

r. All cartridge filters shall be easily accessed from engine compartment.

s. Left and right engine compartments must have factory installed lights for servicing and daily checks. Lights must automatically go off if voltage drops.

t. Net peak engine torque must be 1,014 lb.-ft or greater.

u. Net peak engine torque rise must be 55% or greater.

TRANSMISSION

a. Power shift with electronic automatic shift, direct drive

b. Transmission to provide eight speeds forward and eight speeds reverse.

c. Single lever for both direction and speed changes.

d. Auto differential lock/unlock shall be electro-hydraulically controlled

e. Transmission will be such that machine won’t move even if engine is started with transmission engaged.

f. Electronically controlled over speed protection.

g. Minimum top speed 28 mph or greater.

h. Transmission filter, cartridge

i. Precision mode must be standard in gears 1-3.
FINAL DRIVE

YES  NO

____  ____  a. Inboard-mounted planetary sealing in cooled, filtered oil.
____  ____  b. Minimum distance between center of tandem wheels shall be 60 inches.

BRAKES, WHEELS & TIRES

____  ____  a. Service – brakes shall be multi-disc, oil cooled and completely sealed, tandem mounted.
____  ____  b. Parking brake - multiple oil disc, spring applied, hydraulically released, adjustment free, sealed, and integrated into the transmission
____  ____  c. Tires - Michelin X - Sno Plus radial tires, 17.5 x R25
____  ____  d. Rims –three piece steel, interchangeable between all six wheels
   If rims are not interchangeable, include price of spare rim and tire.
   Front 3 piece rim and Michelin tire $_______________
   Rear 3 piece rim and Michelin tire $_______________
____  ____  e. Engagement of parking brake control lever shall neutralize transmission

STEERING, FRONT AXLE & WHEELS

____  ____  a. Front wheels shall have 47.5 degrees left or right minimum steering range.
____  ____  b. Steering shall be hydraulic.
____  ____  c. 24 ft. maximum turning radius outside front tires.
____  ____  d. Front axle, height to center not less than 22.5 inches ground clearance.
____  ____  e. Hydraulic leaning front axle minimum 20 degrees right or left.
(Steering, front axle & wheels cont.)
YES  NO

f. Front axle shall have not less than 32 degrees total oscillation, 16 degrees up, 16 degrees down.

g. Main frame shall be articulated.

h. Due to safety reasons in snow plowing applications, unit must have a steering wheel.

ARTICULATION JOINT

a. Articulation joint with mechanical lock.

b. Frame angle to be minimum of 22 degrees.

c. Articulation indicator in operator’s compartment.

d. Bottom joint must have double taper roller bearings.

HYDRAULICS

a. Full hydraulic controls.

b. Hydraulic system shall be closed center, load sensing design, with variable displacement, axial piston type pump.

c. Separate hydraulic lock valves shall be provided in each hydraulic circuit in all control valves

d. Hydraulic tank shall be non-vented, separate of power train oil.

e. Industry standard lever style hydraulic controls. Must have additional valves And levers to operate ripper, front hitch, and snow wing. Plus an additional valve & lever for all auxiliary functions (6 aux. valves).

f. Implement valves shall be proportional priority pressure compensating for consistent response when multi-functioning any combination of implement controls.

g. All blade controls obtainable from operator’s seat.

h. Hydraulic plumbing, etc. which is compatible with front lift groups, rear rippers, snow wing, etc.
YES  NO

i. Hydraulic filter, cartridge.

k. Float position on blade lift, rear ripper, front lift group, and snow wing hydraulics.

CIRCLE AND DRAWBAR

a. Circle shall be supported by the drawbar with at least six support shoes.

b. Circle construction shall be heat treated, welded and machined steel.

c. Circle must be capable of 360 degrees rotation and be adjustable for wear.

d. Circle drive shall be adjustable slip clutch shall be standard.

BLADE

a. High carbon moldboard with hydraulic side shift.

b. Size 14' x 27" x 1" with standard highway bolting, and hydraulic tilt, ¾ inch cutting edge bolting.

c. Depth of cut maximum 29 inches.

d. Lift above grade minimum 19.3 inches.

e. Blade lift accumulators.

f. Moldboard shall have a high bank angle of at least 90 degrees to both sides

g. Moldboard side-shift cylinder shall be left-hand side.

h. Blade lift and center shift cylinders shall have replaceable wear inserts in the ball sockets with removable shims.

i. Moldboard end bits reversible overlay.

k. Moldboard slide shall have quick change replaceable wear inserts and quick-adjust jack screw adjustment.
<table>
<thead>
<tr>
<th>YES</th>
<th>NO</th>
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<tbody>
<tr>
<td></td>
<td>a. ROPS cab with heater, defroster, and air conditioning. Heater 40,000 BTU.</td>
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<td>b. Glass laminated safety tinted –front, rear and doors</td>
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<td>c. Inside mounted rear view mirror.</td>
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<td></td>
<td>d. Exterior glare proof convex mirrors. heated (approx. 66 sq.inches).</td>
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<td>e. Doors lock shut and latch open.</td>
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<td>f. Air-ride adjustable contour series suspension (cloth) seat fore and aft with seat belt and arm rest.</td>
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<td></td>
<td>g. Electric wiper/washer front, rear, bottom and side with intermittent control.</td>
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<td>h. AM-FM-weather band radio with speakers, antenna, and installed noise suppression filter to eliminate strobe or beacon interference.</td>
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<td></td>
<td>i. Cab shall be sound suppressed and pressurized with a filter. 75 DB (A) maximum.</td>
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<td>j. Front and rear auxiliary defroster fans.</td>
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<td>k. Low profile cab</td>
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<td>l. Lunch box storage, mug holder, and coat hook.</td>
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<td>m. Toolbox</td>
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<td>n. Front and rear sun shades</td>
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<td>o. High-resolution rearview camera with dedicated monitor must be included.</td>
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<td>YES</td>
<td>NO</td>
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<td></td>
<td>a. Heavy Duty 200 amp hour, 1400 CCA batteries.</td>
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<td>b. High and low bar headlights with front turn signals</td>
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<td></td>
<td>c. LED mid-frame toe lights shall be installed to illuminate moldboard and surrounding area.</td>
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<td>d. LED heel work lamps mounted underneath the cab.</td>
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<td>e. LED ripper work lamps.</td>
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<td>f. LED front mounted cab lights.</td>
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<td>g. LED roof mounted on the right-hand side of car roof bar to illuminate a snow wing. Dealer must supply machines with all the lights that are factory available.</td>
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<td>h. An instrument cluster shall be provided that includes a speedometer, tachometer, coolant temperature, fuel and articulation angle gauge.</td>
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<td>i. Incandescent white reversing lamps and LED stop lamps</td>
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<td>j. Back-up light and sounding alarm standard when reverse gears are selected.</td>
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<td>k. Interior cab lights and engine compartment service lights.</td>
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<td>l. 200 amp alternator.</td>
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<td>m. 24 volt direct electric start.</td>
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<td>n. A 24V to 12V convertor with 30 amp capacity with circuit to turn on and off with ignition switch.</td>
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<td>o. A yellow strobe light installed.</td>
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<td>p. Electronic throttle control –cruise control</td>
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<td></td>
<td>q. Electronic inching control</td>
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### OTHER FEATURES

<table>
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<tr>
<th>YES</th>
<th>NO</th>
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<tr>
<td>a.</td>
<td>Rear ripper shall have five ripper shank holders and 3 included shanks, 9 scarifier shank holders and 9 scarifier shanks included, and rear tow hitch.</td>
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<td>b.</td>
<td>Balderson style lift group included.</td>
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<td>c.</td>
<td>A snow wing frame ready option shall be included</td>
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<td>d.</td>
<td>New Capital I Industries 12’ postless, 2 function snow wing must be included and installed by the successful dealer.</td>
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<td>e.</td>
<td>New Little Falls Machine V90 v-plow. 9’8” cutting width, installed and delivered with each machine.</td>
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<td>f.</td>
<td>Front and rear fenders shall meet ISO-3457 requirements and shall not interfere with the ability to fully open any cab or engine enclosure, or service access doors.</td>
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<td>g.</td>
<td>Factory installed extendible engine air intake tube that can be raised higher for snow plowing applications.</td>
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</table>

### ALL WHEEL DRIVE

<table>
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<th>YES</th>
<th>NO</th>
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<tr>
<td>a.</td>
<td>All wheel drive system – Each front wheel shall be powered utilizing a dedicated variable axial piston pump and variable axial piston motor. Both pumps and motors shall be infinitely variable to provide maximum torque in every gear.</td>
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<td>b.</td>
<td>All wheel drive system shall automatically vary individual front wheel speeds by up to 50% during a turn, improving front wheel traction and reducing turning radius.</td>
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<tr>
<td>c.</td>
<td>All wheel drive system shall provide a hydrostatic mode neutralizing the transmission for precise low-speed performance. The ground speed shall be infinitely variable between 0 and 5 mph.</td>
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</table>
Please list explanations to any “no” answers to specifications below.
BIDDERS CERTIFICATION

It is hereby understood that Dawson County (owner) has the right to evaluate this bid upon many bases of criteria, and the trade-in machines are available for appraisal at their present work site.

The County Commissioners reserve the right to hold the bids for a period of not to exceed 30 days.

Upon acceptance of any bid, the Dawson County Road Department shall withhold ten (10) percent of the bidder’s net bid for at least thirty days after the delivery of said bid item to insure compliance with all agreed upon specifications.

Machine will be available for delivery on the ______ day of __________________, 202__.

We hereby certify that the foregoing is a responsible bid. Any variations from the specifications are noted or attached. Copies of machine warranty guarantees are attached along with the required bid bond for the machine bid.

Dated this _____ day of __________________, 2021.

Dealer Name

Telephone

Fax

Representative Signature

Address

City, State, Zip
MACHINE WARRANTY & AVAILABILITY GUARANTEE

The intent of this clause is to guarantee the cost of repairs and downtime to Dawson County. Therefore, all bidders shall include with their bid:

Machine bid must have a full machine warranty for five (5) years or five thousand (5,000) hours of operation, whichever occurs first from date of delivery. This warranty is to include travel time and mileage. The only exclusions are to be wear items such as tires, cutting edges, wear slides, glass, etc.

All service and/or replacement for final tier 4 aftertreatment system components including the DOC and DPF will be covered by the dealer at no cost to Dawson County for the 5 year/5,000 hour period.

Annual machine inspection and adjustments as prescribed in the maintenance guides shall be performed in the field, unless convenient prior arrangements are made, and all costs covered by the dealer.

Warranty related machine transport costs to the repair facility or travel time and mileage will be provided by the dealer for 5 years or 5,000 hours.

Ninety-five (95) percent guaranteed machine availability (computed on a 2000 hour work year). After any continuous downtime greater than 40 work week hours, a replacement comparable machine shall be provided or an hourly assessment of $75 per hour shall be charged to the dealer to cover a replacement rental machine. $200 per day shall be charged the dealer at the anniversary date for downtime in excess of 5%.

Dawson County will make the machine available for repairs and inspections as requested by the successful dealer.
BID PROPOSAL

Manufacturer ________________________________________________

Model _______________________________________________________

PURCHASE ONLY

Net purchase Price per Unit, No Trade $__________________________

Trade Values:

2006 John Deere 772D S/N 606843 $__________________________

2006 John Deere 772D S/N 607016 $__________________________

GUARANTEED RE-PURCHASE PRICE - PER MACHINE
BASED ON 1000 HOURS / YEAR

Year #2 ______________________________________________________

Year #3 _____________________________________________________

Year #4 _____________________________________________________

Year #5 _____________________________________________________