

**GENERAL BID SPECIFICATIONS
CITY OF MINOT, ND 58701**

The City of Minot is exempt from state and federal excise and sales taxes and no amount for such taxes are to be included in the bid price. The attached bid proposal form shall be used in submitting the bid.

The City Council reserves, to itself, the right to reject any or all bids and to award the contract as it deems necessary and in the best interest of the City of Minot.

Delivery of equipment or services contained in the proposal shall be made to the Minot Landfill, and the price shall be FOB, Minot, North Dakota. The delivery date shall be specified on the bid.

All envelopes must be sealed and marked plainly

**"Bid for One (1) Industrial Snowplow"
"Project #4744"**

Bids will be opened in the office of the City Clerk at the Civic Center, 515 2nd Ave. S.W., Minot, North Dakota at 11:00 a.m. on Tuesday, November 29, 2022. Bids received after this time will be returned, unopened, to the bidder. Bidders are invited to be present at the opening of bids.

**CITY OF MINOT SPECIFICATIONS
ONE (1) INDUSTRIAL SNOWPLOW
STREET DEPARTMENT
NOVEMBER 2022**

GENERAL

The unit described in these specifications shall be a **Metal Pless Maxxpro PRO1048-20 Live Edge** or preapproved equal. Should any supplier be unable to meet all of the items in this specification, they may bid the unit with the items that can be supplied. Any deviations from the specifications shall be clearly explained and attached to the bid proposal. Specification deviations will be considered in relation to the effectiveness and cost of the machine.

The snowblade shall have the following specs:

- 10` main mouldboard width
- Wings 60" deep made of CHT400 steel or better
- 48" high mouldboard
- A lifting point shall be available on the center rib for ease of loading & unloading
- Moldboard shall angle by two cylinders with a 3½" bore diameter and 20" stroke
- Moldboard shall angle 30 degrees
- Wings operated by two hydraulic cylinders per wing with a 3½" bore diameter and 7½" stroke
- Three cross-over relief valves
- Adjustable lateral floating of the blade
- Moldboard shall be fabricated by 3/16" thick steel and consist of 6 crimps at 5 degree angles allowing a smooth curve of the moldboard
- Moldboard shall also be strengthened by five ribs 3/8" thick of CHT400 steel or better

- Wings made of 1/2" heavy duty CHT400 steel or better
- Infinite wing adjustment from 0°-180°
- Soft Drive heavy duty mechanical steel trip edge on the wings. Each wing shall be able to allow the bottom 8" to trip backwards when hitting an obstacle
- Self-levelling skid shoes on the wings made of CHT400 steel or better
- Self-levelling skid shoes on the wings must have carbide inserts along the entire wing
- Each wing shall be mounted to main mouldboard by a 1¼" pin 36" long
- Baked powder paint
- Red steel markers installed on wings to increase visibility
- Snowplow must include Live Edge technology

Live Edge specs:

- Cutting edge shall be divided into 24" sections and include carbide inserts
- Cutting edge shall have rust protection
- Each cutting edge section shall float within a cutting edge holder trip system, also called Live Edge
- Live Edge holder trip system shall be manufactured by four guide plates 5/8" thick manufactured using CHT400 steel and reinforced with two steel rods 1" thick joining the four guide plates together
- Trip system shall be capable of tripping backwards 28 degrees past vertical. 48 degrees total.
- Each 24" Live Edge trip system shall consist of two compression coil springs incorporated in the mouldboard's tubular main frame
- The trip's coil spring shall be 3/8" wire, 3" outside diameter. 10 1/2" free length.

- The trip's coil springs shall be guided by a ½" thick CHT400 steel plate assembly welded to the superior 1" steel rod joining the guide plates, and locked above the tubular beam by a cross style assembly
- Live Edge holder trip system shall allow cutting edge to float vertically 3" within the trip system as well as 2" horizontally
- The cutting edge shall receive down pressure by two coil springs, also called Live Edge springs
- The Live Edge springs shall be ¼" wire, 1 7/8" outside diameter. 8 1/2" free length

Loader Attachment Specs

- The front attachment plow hitch to the loader shall be a loader type quick attach and shall be fitted to a John Deere 644K loader that utilizes Balderson Coupler attachments. It shall allow easy interchange of the plow and other attachments. It shall be hydraulically operated for plow lift, swing, and cup. The plow moldboard, push frame, swing, lift, and cup must be capable of being completely removed from or attached to the loader. All components of the plow shall be on the plow side of the quick coupling.
- It is the responsibility of the bidder to verify coupler dimensions.
- Controls and Wiring shall be provided and shall be constructed to operate with a John Deere 644K loader.
- Controls and wiring shall be installed and tested on machine by winning bidder.

**CITY OF MINOT BID PROPOSAL
ONE (1) INDUSTRIAL SNOWPLOW
STREET DEPARTMENT
NOVEMBER 2022
PROJECT #4744**

The City of Minot is a municipal government and is tax exempt. Proposals shall not include sales tax or other applicable taxes. The tax-exempt number is E4351.

Bid for One (1) Industrial Snowplow \$ _____

Make/Model _____

In submitting the proposal, it is understood that the contract will be awarded on the basis of lowest and best proposal, that the right to reject any and all proposals is reserved by the owner, and it is agreed that this proposal may not be withdrawn within 60 days after actual date of the opening.

The dealer hereby certifies: (a) that this proposal is genuine and is not made in the interest of or on behalf of any undisclosed person, firm or corporation and is not submitted in conformity with any agreement or rules of any group, association, organization or corporation; (b) that he has not directly or indirectly induced or solicited any other bidder to put in false or sham bid; (c) that he has not solicited or induced any person, firm or corporation to refrain from bidding; and (d) that he has not sought by collusion or otherwise to obtain for himself any advantage over any other bidder or over the owner.

Signature

Address

Company Name

Phone Number

Date

Delivery Date

Email Address