



# REQUEST FOR PROPOSAL

Tandem Axle Diesel Truck with  
Snowplowing/Sanding Equipment

Prepared by:  
The Corporation of the Township of Ryerson  
28 Midlothian Road, RR1  
Burks Falls, ON POA 1C0

## **1. Purpose of Request for Proposal**

The Township of Ryerson is inviting proposals to supply one (1) tandem plow unit. The proposals are to be based on the specifications contained in this document. The successful Respondent shall supply a “turn-key” operational unit by December 1, 2021.

## **2. Information and Instructions**

### **2.1 Background Information**

The Township of Ryerson is a single-tier municipality located in the District of Parry Sound. It is a small, rural community with a population of 648 as per the 2016 Census. The Township is located approximately 35 km north of the Town of Huntsville, west of the Village of Burks Falls and the Township of Armour and east of the Municipality of Magnetawan.

The Township is governed by a Mayor and four Councillors. Residents are provided all standard municipal services, with the exception of water and sewer services. Several of these services, including the Fire Department, Arena, and Landfill are provided through a Shared Services agreement with the Village of Burks Falls and the Township of Armour.

Additional information on the Township can be found on the municipal website:  
[www.ryersontownship.ca](http://www.ryersontownship.ca).

### **2.2 Submission of Proposals**

Proposals shall be submitted in the form and format specified in Section 4 and shall include a completed Form of Proposal attached as Appendix A to this document. A designated signing officer authorized to bind the Respondent to the provisions of their Proposal must sign the Form of Proposal. Any addenda issued by the Township of Ryerson in accordance with Section 2.5 must be acknowledged by the Respondent on the Form of Proposal.

Each Respondent is asked to submit one (1) hard copy of the Proposal. The hard copy of the Proposal must be signed, sealed, and delivered to:

The Township of Ryerson  
RR #1, 28 Midlothian Road  
Burks Falls, ON P0A 1C0

The front of the sealed envelope must indicate the Respondent’s full company name, the name of the lead contact, and be clearly marked ‘Request for Proposal- Tandem Plow’.

The hard copy of the Proposal must be received no later than 4:00 PM local time on Monday July 26, 2021.

It is the responsibility of the Respondent to ensure that the Township receives its Proposal prior to the submission deadline, in accordance with the submission process outlined above. Proposals received after the submission deadline will not be considered and will be returned unopened. Faxed or electronic submissions that are unaccompanied by a hard copy submission will not be accepted as a response to this RFP.

### **2.3 Lead Contact**

The Township of Ryerson has endeavoured to provide complete and correct information necessary for Respondents to properly assess and determine the scope and complexity of work prior to submitting a Proposal.

Respondents are solely responsible for determining if more information is required or if anything contained in this document appears incorrect or incomplete, and for contacting the Lead Contact identified below if they have any questions whatsoever prior to the closing date.

Information obtained from any source other than the Lead Contact is not official and may be inaccurate. The Township will not be responsible for any verbal statement, instruction, or representations.

All inquiries for this RFP must be directed by email to:

Lloyd Van Duzen  
Public Works Supervisor  
[roads@ryersontownship.ca](mailto:roads@ryersontownship.ca)

A Respondent may be disqualified if, during the period between the issuance of this Request for Proposal and the date of notification of the award, they contact any individual who is involved in this RFP process and who is not the Lead Contact. This is to ensure that all Respondents receive the same information and are treated equitably.

### **2.4 Required Review and Clarification**

It is the responsibility of each Respondent to carefully review this RFP. Questions concerning clarification of the contents of this document must be received by the Lead Contact by no later than 4:00 PM local time on Wednesday July 7, 2021. This is to allow time for the issuance of any necessary addenda.

In submitting a Proposal, the Respondent acknowledges that they have read, completely understand, and accept the terms and conditions of the RFP in full. The Township of Ryerson is not responsible for any misunderstanding of the RFP.

## **2.5 Amendments to the RFP**

The Township may issue addenda to clarify and/or modify certain aspects of the RFP prior to the submission deadline. Addenda shall be posted by 4:00 PM on Monday July 12, 2021 to [www.ryersontownship.ca](http://www.ryersontownship.ca) and shall be available in hard copy format at the municipal office.

## **2.6 Opening of Proposals**

There will be no formal opening of proposals. Proposals will be evaluated, and a recommendation brought to Council at the August 3, 2021 regular meeting. Respondents are welcome to attend this meeting at their own cost.

## **2.7 Rights of the Township of Ryerson**

The Township of Ryerson reserves the right to:

- a) Make public the names of any or all Respondents and their quoted fees
- b) Verify with the Respondent or with a third party any information set out in their Proposal
- c) Disqualify any Respondent whose Proposal contains misrepresentations, any other inaccurate or misleading information, or any qualifications
- d) Disqualify any Respondent who has engaged in conduct prohibited by this RFP
- e) Make changes, including substantial changes, to this RFP provided that those changes are issued by way of addenda in the manner set out in this RFP
- f) Select a Respondent other than the Respondent whose Proposal reflects the lowest cost to the Township
- g) Cancel this RFP process at any stage
- h) Cancel this RFP process at any stage and issue a new RFP for the same or similar deliverables
- i) Accept or reject any or all Proposals in whole or in part
- j) Discuss with any Respondent different or additional terms to those contemplated in this RFP or in any Respondent's Proposal
- k) If a single Proposal is received, reject the Proposal of the sole Respondent and cancel this RFP process or enter into direct negotiations with the sole Respondent
- l) Enter into negotiations with the selected Respondent to obtain cost savings, additional services, or any other matter

These reserved rights are in addition to any other expressed rights or any other rights which may be implied in the circumstances.

## **2.8 Not Responsible for Costs**

The Township shall not pay any costs associated with the preparation, submission, or presentation of the Respondent's Proposal. The Township shall not be liable for any expenses, costs, or losses suffered by the Respondent or any third party resulting from the Township exercising any expressed or implied rights under this RFP.

## **2.9 Proposal Expiry Date**

Respondents hereby acknowledge that their Proposals shall be irrevocable for a period of 90 days after the submission deadline. Extensions to this period may be granted with the mutual agreement of the Township of Ryerson and the successful Respondent and may be initiated by either party.

## **2.10 Confidentiality and Ownership**

Any information provided to the Respondent by the Township before, during, or after the RFP is completed shall be treated as confidential and shall not be used or communicated by the Respondent or any third party in any way unless otherwise identified or permitted by the Township of Ryerson or under Federal/Provincial legislation. Information, reports, documentation, plans, etc. that are produced by the successful Respondent in response to this RFP shall become the exclusive property of the Township of Ryerson. However, intellectual property such as specific tolls, templates, and processes that the Respondent provides as part of the deliverables remains the property of the Respondent if so requested.

## **2.11 Freedom of Information**

Any personal information required in the Proposal is received under the authority of the Township of Ryerson. This information shall be an integral component of the submission. All written Proposals received by the Township become a public record. Once a Proposal is received by the Township and the contract has been awarded, all information contained in the Proposals may be available to the public, including personal information. Questions about the collection of personal information and the Municipal Freedom of Information and Protection of Privacy Act, 1989, R.S.O. 1990, as amended may be directed to the Lead Contact.

## **2.12 Invoicing**

The Bidder shall provide a single invoice for payment in full to the Township of Ryerson upon delivery of the selected unit. Invoices shall clearly state what has been supplied with a description of the unit. It should be noted that the Township of Ryerson's standard terms of payment are net 30 calendar days from the date of invoice.

## **2.13 Inspection Period**

Upon delivery of the unit to the Township of Ryerson, the Township of Ryerson shall have five (5) days to inspect and test the unit to ensure that it meets the specifications as listed in this RFP. If the unit does not meet the required specifications, the Respondent shall enter into a Penalty Period on the 6<sup>th</sup> day following the delivery date and shall meet the requirements of Section 2.14. The Township of Ryerson shall not be responsible for any costs associated with a unit that does not meet the specifications as outlined in the Respondent's Proposal.

**2.14 Penalty Period**

If the Delivery Date passes and the unit that fully meets the specifications of this RFP has not been delivered to the Township of Ryerson, the successful Respondent shall have five (5) days to provide the unit. On the 6<sup>th</sup> day following the delivery date, the successful Respondent shall enter a Penalty Period. A penalty of \$500.00 per day shall be charged to the successful Respondent, to be taken off the unit purchase price, for each day after the Delivery Date until a unit that is fully compliant with the specifications contained herein has been delivered. The Township of Ryerson shall not be responsible for any charges related to the transportation of the unit or a replacement unit to or from the Township yard.

**2.15 Delivery Date**

The successful Respondent is required to deliver a fully operational, “turn-key” unit by December 1, 2021 (the “Delivery Date”).

The Township of Ryerson understands that the ongoing COVID-19 pandemic has caused manufacturing delays for many suppliers. If a Respondent is aware, at the time of submitting their Proposal, that this Delivery Date cannot be met, it must propose an alternate Delivery Date in their Proposal. When reviewing the Proposals, the Township of Ryerson will, in its sole discretion, determine whether or not an alternative Delivery Date is acceptable. The successful Respondent will be bound by the Delivery Date in their Proposal. *No extensions will be provided.*

**2.16 Additional Requirements**

- a) The use of qualified sub-contractors by the Respondent to perform specific duties while under contract is permitted only if the Respondent declares such use in the Proposal or if the successful Respondent receives written approval from the Township.
- b) The successful Respondent shall ensure that all services and products provided in respect to this proposal are done so in accordance with and under the authorization of all applicable authorities, municipal, provincial, and/or federal legislation, including but not limited to WSIB and all applicable responsibilities under the Occupational Health and Safety Act.

**2.17 Proposed Timeline**

The timeline set out below is the Township’s best estimate of the schedule that will be followed. It is intended to be for guidance purposes only.

RFP Issue Date	June 21, 2021
Deadline for submission of questions (see Section 2.4)	July 7, 2021, 4:00 p.m.

Deadline for addenda to be posted on the Township website (see Section 2.5)	July 12, 2021, 4:00 p.m.
Submission Deadline	July 26, 2021, 4:00 p.m.
Recommendation taken to Council	August 3, 2021
Notification of Award	Within ten (10) calendar days following Council decision

### 3. Specifications and Requirements

The Township of Ryerson is looking to purchase one (1) tandem axle diesel truck with snowplowing/sanding equipment. Vehicle must be new, unused, free of defects or deficiencies in design, materials or workmanship; conforming to manufacturer's specifications. The vehicle must be properly pre-delivery serviced to ensure that the vehicle is ready for use with particular attention to lubes, fluids, filters, belts, all fasteners, lighting, electrical components, sensors and adjustable items. Dealer is responsible for hookup and testing of units prior to putting into service.

The following is a list of specifications based on a unit similar to one the Township is seeking to purchase. Respondents are asked to complete Schedules B and C, noting whether or not their proposed model conforms to the specifications contained therein, and list alternate specifications where deviations occur. Note that, as this is an RFP, the Township will consider alternatives put forth by a Respondent; the purpose of the schedules is to simplify the process of comparing various models being proposed.

#### 3.1 General Requirements

- Full Tow package
- Air lines to tow plate
- Primary receptacle for trailer wiring for lights
- Under mount exhaust
- Shock absorbers for all axles front and rear
- Air tank location perpendicular to the frame rail on passenger side
- Heated windshield and heated wipers
- Undercoating of truck and equipment
- Diesel Exhaust Fluid tank cover to be painted the same colour as truck
- 80-gallon fuel tank
- Insulated fuel lines
- Bright finished heated mirrors with LED lights LH/RH remote

#### 3.2 Engine

- DD13 12.8L 470 HP min @ 1625 RPM - 1650 LB/FT @ 975RPM

#### 3.3 Engine Equipment

- Onboard diagnostics
- Jacobs engine compression brake

- Engine mounted oil check and fill
- Engine PTO – Front Mount (Piston Pump)
- Side of hood air intake with firewall mounted air cleaner and inside/outside snow door driver side
- Minimum 160 amp alternator
- 19 CFM single cylinder air compressor with safety valve
- Electronic engine integral shutdown protection
- Automatic fan control
- Fuel/water separator with water-in fuel indicator
- 1500 square inch radiator with drain valve
- 1500 watt/115 volt block heater
- 60 degree extended life heavy duty coolant
- Full flow oil filter
- Magnetic oil pan drain plug
- Minimum three (3) batteries mounted under cab not to interfere with winter equipment
- Main battery disconnect inside the cab

### **3.4 Transmission**

- Eaton Fuller RTLO-18918B 13 SPEED

### **3.5 Transmission Equipment**

- Magnetic drain plug
- Zerk fitting with extension hose at clutch release bearing
- Water to oil transmission cooler in radiator end tank
- High amp PDM to be provided/supplied
- Synthetic lubricant
- Torque limiting clutch brake
- Self-adjusting clutch

### **3.6 Front Axle and Equipment**

- Minimum 22,000-lb capacity must be set forward axle.
- Front brake dust shields
- Automatic slack adjusters
- Oil/Air power steering cooler
- Brake stroke indicators
- Power steering cooler
- Non-asbestos front brake linings
- Front hub caps with window center and side plugs -oil
- Synthetic front axle lube

### **3.7 Front Suspension**

- Spring flat leaf; minimum 23,000-lb capacity
- Shock absorbers

### **3.8 Rear Axle and Equipment**

- Minimum 46,000-lbs capacity – Vocational Series RT-46-164
- Shock absorbers both axles
- 4.30 rear axle ratio
- Iron rear axle carrier with heavy duty axle housing
- Extended lube main driveline with full round yokes
- Extended lube interaxle driveline with half round yokes
- Driver controlled traction differential – both rear axles with indicator light
- Driver controlled differential lock forward-rear axle valve and rear-rear axle valve with indicator light
- Magnetic drain plugs
- Non-asbestos brake lining
- Rear brake dust shields
- Longstroke 2 drive axle spring parking chambers
- Automatic slack adjusters
- Brake stroke indicators
- Synthetic axle lube

### **3.9 Rear Suspension**

- Hendrickson HaulMaxx or Tufftrack @ minimum 46,000-lb capacity
- 54" axle spacing

### **3.10 Brake System**

- Air dryer frame mounted with integral air governor and heater
- Steel air brake reservoirs
- Reinforced nylon, fabric braid and wire braid chassis air lines
- Standard U.S. front brake valve
- Air connections to end of frame with glad hands for truck
- Dealer must ensure that air tanks are clear of future snowplow to be installed (discussion with equipment provider required)

### **3.11 Wheelbase and Frame**

- 135 CA – Dealer is to confirm all dimensions with the equipment provider
- C-channel inner frame reinforcement - Double Frame Reinforced
- Snowplow steel C-channel back of cab midship #1 OEM cross member from factory
- Heavy duty suspension cross member
- Front frame reinforcement for snowplow
- 24 inch integral front frame extension with insert
- 7/16X3-9/16X11-1/8 inch steel frame 120 KSI
- ¼ inch inner frame reinforcement full length
- Square end of frame
- MTO approved cross frame member behind truck cab

### **3.12 Fuel Tanks**

- Minimum 80 gallon
- 25-inch diameter
- High temperature reinforced nylon fuel line
- Painted same colour as the truck with stainless steel bands
- Mounting must not interfere with equipment or spreader

### **3.13 Tires (Summer and Winter)**

- Summer 2x of Front 425/65R22.5 20 ply radial XZY3 (mounted on aluminum rims)
- Winter 2x of Front 315/65R22.5 – XZY3 fully studded on Steel Rims 20 ply radial
- Rear 11R22.5 16 ply radial Michelin XDN2 (mounted)

### **3.14 Wheels**

- Front: 22.5 X 12.25 10-hub pilot 4.75 inset 10-hand aluminum disc
- Rear: 22.5X8.25 10-hub pilot 4.75 inset 2-hand HD steel disc

### **3.15 Cab Exterior**

- Front fender extensions (minimum 3 inch)
- Bug screen mounted behind grille
- Air cab mounts with check valve
- Fiberglass hood with access hatches
- LH and RH exterior grab handles
- Cab floor, toe board and firewall heat shield
- Dual polished aluminum air horns with shields
- Single electric horn
- LED marker lamps
- LH /RH door mounted heated mirrors
- LH/RH 8 inch convex mirrors mounted below primary mirrors
- LH/ RH 8 inch fender mounted convex mirrors with tripod bracket
- 102 inch equipment width
- Side reflectors
- Exterior sun visor
- Tinted Front Windshield and Door Glass

### **3.16 Cab Interior**

- Air Conditioner and Heating
- Forward roof mounted console
- Dome light with 3-way switch activated by LH and RH doors
- 2 12 volt power receptacles mounted in dash
- Premium High back heated air suspension driver's seat with lumbar support
- Cloth non suspension passenger seat
- Tilt steering column

- Driver and passenger interior sun visors
- 18 inch steering wheel
- Floor mats
- 3 point driver and passenger seat belt retractors
- Power passenger window
- Aluminum kickplate lower door
- Premium insulation
- Cup holder

### **3.17 Instruments and Controls**

- Fuel gauge
- Fuel filter restriction indicator
- Engine coolant temperature gauge
- Primary and secondary air pressure gauge
- Engine oil temperature gauge
- Engine oil pressure gauge
- KPH speedometer
- Tachometer
- Voltmeter gauge
- Dash mounted AM/FM radio with Bluetooth & Hands Free
- Outside air temperature gauge
- Cab marker light and headlight switch with separate switch and terminals for customer Furnished snowplow lights and turn signals
- ODOMETER DISPLAY; kilometers, trip kilometers, engine hours, trip hours, fault code readout
- WARNING SYSTEM; low air pressure, low fuel, low oil pressure, high engine coolant temperature, and low battery voltage (visual and audible), backup alarm
- Air cleaner restriction gauge
- Must have additional four (4) switches in dash for bodybuilder use

### **3.18 General**

- Truck to be received with complete set of shop and parts manuals, on-line access of all electrical manuals.
- Truck must have rust proofing applied before delivery.
- Truck cab must be white and box and equipment must be yellow similar to existing fleet.

### **3.19 Sander/Plow Specifications**

Please see the attached as Schedule C, to be completed and submitted with this Proposal.

## **4. Submission Requirements**

Respondents are asked to submit a proposal which contains all of the information detailed below.

### **4.1 Format**

For the Township of Ryerson to evaluate proposals fairly and consistently, Respondents should follow the format set out herein and provide all of the information as requested. Failure to provide all required information as detailed in this RFP may result in the Respondent being disqualified or scoring poorly in the evaluation. Respondents are encouraged to provide any additional information not specifically outlined in this RFP that they believe would be of value in evaluating their Proposal.

### **4.2 Specification Sheets and Warranty**

Only ONE (1) specification sheet shall be submitted by the Respondent. The completed specification sheet must be legible and shall not be restricted by any attached sheets or documents of any kind unless requested in this RFP.

A “YES” answer indicates 100% compliance with the entire statement. The Respondent’s bid may meet or exceed stated specifications unless otherwise quantified.

If the question is “YES” or “NO” and requires specification, circle the corresponding answer and enter the specification beside the answer (e.g., when answering with a wheeled excavator machine weight of 16 tonne, circle “YES” and enter “16 tonne” beside the word “YES”.)

If the question is a simple yes or no, circle the corresponding answer only (e.g., when answering DEF question, circle “YES” if the quoted machine requires DEF and circle “NO” if it does not.)

If a question is answered “NO”, please still list the specification where required. A “NO” answer may cause the proposal to be scored lower in the evaluation process.

A question may be answered with N/A if the specification does not apply to the proposed unit.

### **4.3 Company Background and References**

The Respondent shall provide a description of their Company, including but not limited to the company name, contact person(s), contact title, company address, phone number, email address, and a brief description of the number of years in business and the services provided.

The Respondent shall provide references for at least two (2) municipalities to which they have provided similar units in the past five (5) years. Respondents may provide manufacturer literature.

The Respondent shall provide a description of the nearest fixed support location(s), including but not limited to the distance(s) to the Township of Ryerson shop, a description of mobile support available and the associated rates shall be provided, including mileage.

#### **4.4 Costs and Fees**

Respondents are required to state their total tender price on the Schedule A- Form of Proposal.

As part of this process the Township may, at its discretion, elect to trade in its 2005 Volvo plow that is scheduled for replacement. Respondents are required to quote a trade-in value for this truck as part of their Proposal. The Township will, at its sole discretion, determine whether or not to accept the trade-in price as part of the proposal. Meetings to inspect the truck may be arranged through the Lead Contact.

Respondents are also asked to separately quote an extended warranty, if available, and provide details on both the regular warranty included in the Tender Price and any extended warranty option in their Proposal. The Township will, in its sole discretion, elect whether or not to purchase the extended warranty as a component of this RFP.

### **5. Evaluation Criteria**

As part of the evaluation process, the Township may contact one or more Respondents to clarify or obtain more information about their Proposal or substantiate any details contained therein. Discussions will only be held with Respondents who have submitted a Proposal deemed reasonably acceptable for award.

The Township of Ryerson may make their award(s) on the basis of the Proposals, without seeking additional information and/or clarification. Therefore, each initial Proposal should reflect the best efforts of the Respondent and include all required documentation as set out in the RFP.

The evaluation committee will make a recommendation to Council on the basis of the criteria identified below.

- a) Specification sheets and warranty
- b) Company background and references
- c) Costs and fees

## Schedule A: Form of Proposal

The Township of Ryerson is inviting proposals for one (1) tandem plow unit.

I/We, the Undersigned, having examined this Request for Proposal, do hereby offer to enter into an agreement with the Township of Ryerson to provide a municipal tandem plow unit.

Total Price (before HST)	_____
Less: Trade-in allowance	_____
Net price	_____
HST	_____
Total Tender Price	_____
Extended Warranty (provide information separately)	_____

I, We \_\_\_\_\_ (Name-Print) \_\_\_\_\_ (Position)

of \_\_\_\_\_ (Company Name)

Dated at \_\_\_\_\_ this \_\_\_\_\_ day of \_\_\_\_\_, 2021.

\_\_\_\_\_  
AUTHORIZED SIGNATURE(s)

\_\_\_\_\_  
STREET ADDRESS

\_\_\_\_\_  
CITY PROVINCE POSTAL CODE

\_\_\_\_\_  
TELEPHONE NO. FACSIMILE NO. E-MAIL ADDRESS

Receipt of any issued addenda shall be acknowledged by initialing in the space provided below.

Addendum No. 1 \_\_\_\_\_ Addendum No. 2 \_\_\_\_\_ Addendum No. 3 \_\_\_\_\_

Signature in the designated space, by an authorized officer of the Bidder's company affirms acceptance of the Request for Proposal requirements set forth in this document, the associated costs attributed to the business arrangement between the Bidder and the Township of Ryerson, and hereby certifies that the information supplied in this proposal to be true and complete in all respects.

Company Seal

## Schedule B: Truck Specifications

MAKE AND MODEL

Make: \_\_\_\_\_

Model: \_\_\_\_\_

Year: \_\_\_\_\_

Delivery Date: \_\_\_\_\_

Weight (tonne): \_\_\_\_\_

REQUIREMENT	YES	NO	NOTES
<i>Preferred Requirements</i>			
Full tow package			
Air lines to tow plate			
Primary receptacle for trailer wiring for lights			
Under mount exhaust			
Shock absorbers for all axles front and rear			
Air tank location perpendicular to the frame rail on passenger side			
Heated windshield and heated wipers			
Undercoat of truck and equipment			
Diesel Exhaust Fluid tank cover to be painted the same colour as truck			
80-gallon fuel tank			
Insulated fuel lines			
Bright finished heated mirrors with LED lights LH/RH remote			
<i>Engine</i>			
DD13 12.8L 470 HP min @ 1625 RPM - 1650 LB/FT @ 975RPM			
<i>Engine Equipment</i>			
Onboard diagnostics			
Jacobs engine compression brake			
Engine mounted oil check and fill			
Engine PTO – Front Mount (Piston Pump)			

REQUIREMENT	YES	NO	NOTES
Side of hood air intake with firewall mounted air cleaner and inside/outside snow door driver side			
Minimum 160 amp alternator			
19 CFM single cylinder air compressor with safety valve			
Electronic engine integral shutdown protection			
Automatic fan control			
Fuel/water separator with water-in fuel indicator			
1500 square inch radiator with drain valve			
1500 watt/115 volt block heater			
60 degree extended life heavy duty coolant			
Full flow oil filter			
Magnetic oil pan drain plug			
Minimum three (3) batteries mounted under cab not to interfere with winter equipment			
Main battery disconnect inside the cab			
<i>Transmission</i>			
Eaton Fuller RTLO-18918B 13 SPEED			
<i>Transmission Equipment</i>			
Magnetic drain plug			
Zerk fitting with extension hose at clutch release bearing			
Water to oil transmission cooler in radiator end tank			
High amp PDM to be provided/supplied			
Synthetic lubricant			
Torque limiting clutch brake			
Self-adjusting clutch			
<i>Front Axle and Equipment</i>			
Minimum 22,000-lb capacity must be set forward axle.			
Front brake dust shields			
Automatic slack adjusters			
Oil/Air power steering cooler			

REQUIREMENT	YES	NO	NOTES
Brake stroke indicators			
Power steering cooler			
Non-asbestos front brake linings			
Front hub caps with window center and side plugs -oil			
Synthetic front axle lube			
<i>Front Suspensions</i>			
Spring flat leaf; minimum 23,000-lb capacity			
Shock absorbers			
<i>Rear Axle and Equipment</i>			
Minimum 46,000-lbs capacity – Vocational Series RT-46-164			
Shock absorbers both axles			
4.30 rear axle ratio			
Iron rear axle carrier with heavy duty axle housing			
Extended lube main driveline with full round yokes			
Extended lube interaxle driveline with half round yokes			
Driver controlled traction differential – both rear axles with indicator light			
Driver controlled differential lock forward-rear axle valve and rear-rear axle valve with indicator light			
Magnetic drain plugs			
Non-asbestos brake lining			
Rear brake dust shields			
Longstroke 2 drive axle spring parking chambers			
Automatic slack adjusters			
Brake stroke indicators			
Synthetic axle lube			
<i>Rear Suspension</i>			
Hendrickson HaulMaxx or Tufftrack @ minimum 46,000-lb capacity			
54" axle spacing			
<i>Brake System</i>			
Air dryer frame mounted with integral air governor and heater			
Steel air brake reservoirs			

REQUIREMENT	YES	NO	NOTES
Reinforced nylon, fabric braid and wire braid chassis air lines			
Standard U.S. front brake valve			
Air connections to end of frame with glad hands for truck			
Dealer must ensure that air tanks are clear of future snowplow to be installed (discussion with equipment provider required)			
<i>Wheelbase and Frame</i>			
135 CA – Dealer is to confirm all dimensions with the equipment provider			
C-channel inner frame reinforcement - Double Frame Reinforced			
Snowplow steel C-channel back of cab midship #1 OEM cross member from factory			
Heavy duty suspension cross member			
Front frame reinforcement for snowplow			
24-inch integral front frame extension with insert			
7/16X3-9/16X11-1/8 inch steel frame 120 KSI			
¼ inch inner frame reinforcement full length			
Square end of frame			
MTO approved cross frame member behind truck cab			
<i>Fuel Tanks</i>			
Minimum 80 gallon			
25-inch diameter			
High temperature reinforced nylon fuel line			
Painted same colour as the truck with stainless steel bands			
Mounting must not interfere with equipment or spreader			
<i>Tires</i>			
Summer 2x of Front 425/65R22.5 20 ply radial XZY3 (mounted on aluminum rims)			

REQUIREMENT	YES	NO	NOTES
Winter 2x of Front 315/65R22.5 – XZY3 fully studded on Steel Rims 20 ply radial			
Rear 11R22.5 16 ply radial Michelin XDN2 (mounted)			
<i>Wheels</i>			
Front: 22.5 X 12.25 10-hub pilot 4.75 inset 10-hand aluminum disc			
Rear: 22.5X8.25 10-hub pilot 4.75 inset 2-hand HD steel disc			
<i>Cab Exterior</i>			
Front fender extensions (minimum 3 inch)			
Bug screen mounted behind grille			
Air cab mounts with check valve			
Fiberglass hood with access hatches			
LH and RH exterior grab handles			
Cab floor, toe board and firewall heat shield			
Dual polished aluminum air horns with shields			
Single electric horn			
LED marker lamps			
LH /RH door mounted heated mirrors			
LH/RH 8 inch convex mirrors mounted below primary mirrors			
LH/ RH 8 inch fender mounted convex mirrors with tripod bracket			
102 inch equipment width			
Side reflectors			
Exterior sun visor			
Tinted Front Windshield and Door Glass			
<i>Cab Interior</i>			
Air conditioner and heating			
Forward roof mounted console			
Dome light with 3-way switch activated by LH and RH doors			
2 12-volt power receptacles mounted in dash			

REQUIREMENT	YES	NO	NOTES
Premium high back heated air suspension driver's seat with lumbar support			
Cloth non suspension passenger seat			
Tilt steering column			
Driver and passenger interior sun visors			
18-inch steering wheel			
Floor mats			
3-point driver and passenger seat belt retractors			
Power passenger window			
Aluminum kickplate lower door			
Premium insulation			
Cup holder			
<i>Instruments and Controls</i>			
Fuel gauge			
Fuel filter restriction indicator			
Engine coolant temperature gauge			
Primary and secondary air pressure gauge			
Engine oil temperature gauge			
Engine oil pressure gauge			
KPH speedometer			
Tachometer			
Voltmeter gauge			
Dash mounted AM/FM radio with Bluetooth & Hands Free			
Outside air temperature gauge			
Cab marker light and headlight switch with separate switch and terminals for customer furnished snowplow lights and turn signals			
ODOMETER DISPLAY; kilometers, trip kilometers, engine hours, trip hours, fault code readout			
WARNING SYSTEM; low air pressure, low fuel, low oil pressure, high engine coolant temperature, and low battery voltage (visual and audible), backup alarm			

REQUIREMENT	YES	NO	NOTES
Air cleaner restriction gauge			
Must have additional four (4) switches in dash for bodybuilder use			
<i>General</i>			
Truck to be received with complete set of shop and parts manuals, on-line access of all electrical manuals			
Truck must have rust proofing applied before delivery			
Truck cab must be white and box and equipment must be yellow similar to existing fleet			

## Schedule C: Snowplow and Sanding Unit Specifications

REQUIREMENT	YES	NO	NOTES
<i>General Requirements</i>			
Viking model MG14 side tilt combination dump body / spreader Barn door, swing away style tailgate to be provided.			
Water level capacity will be 12.5 cu.yd., minimum			
Water level capacity with 10" sideboards will be 15.4 cu.yd., minimum.			
Inside length 14' minimum and outside length 15' minimum.			
Minimum heights to be as follows - 42" sides - 58" tailgate and 60" front panel			
Body floor, sides, front panel and tailgate will be constructed of 3/16" thick, Hardox 450, hi-tensile, 205,000 psi yield strength, abrasion resistant steel.			
Hoist shall be a front mount, three (3) stage telescopic with 5" bore – must be Mailhot model CS130-5.5-3 – alternate or inverted type hoists will not be acceptable.			
The main conveyor chain shall include the minimum specifications: <ul style="list-style-type: none"> <li>- 30,000 lbs. tensile strength</li> <li>- D667X self cleaning pintle chain</li> </ul> Utilizes ¼" x 1 ¼" crosses welded to every 4 <sup>th</sup> link (approx. 9" apart)			
The main conveyor shall be hydraulic direct drive via planetary drive mechanism providing a minimum of 38,000 lbs., torque capacity and 50,000 in/lbs peak.			
Conveyor chain tension to be regulated via an automatic chain tensioning system. This tensioning system will provide appropriate chain tension for the main conveyor chain at all times and under all normal operating conditions			
A self-feeding rubber main conveyor cover shall be provided.			

REQUIREMENT	YES	NO	NOTES
A single auger cross conveyor assembly shall be used to discharge material from main conveyor to the left (driver) side spinner.			NOT REQUIRED IF SIDE TILT SPREADER DISCHARGES MATERIAL FROM DRIVER SIDE
Polyurethane spinners shall be installed on the left and right sides of the dual auger cross conveyor assembly, and include a poly lined hinged extendible salt chutes.			
Cirrus Spreadsmart Rx electric/hydraulic automated type spreader controller shall be provided – to include 2 section valve assembly installed outside the cab – no hydraulic hoses to be mounted inside cab. Spreader controller shall be calibrated.			
Finish paint shall be Dupont Imron 5000 “ELITE” polyurethane enamel and colour matched to the truck cab – Dupont Imron 5000 Elite finish paint to be utilized –			
An air tarp shall be supplied with fabricated tarp arms dimensions of 1 ½” x 2 ½” rectangular aluminum tubing, and a 1/8” asphalt type mesh tarp. Tarp to be operated by twin air cylinders operated from inside the cab. Electric type tarp mechanisms, and air tarps utilizing air motors in lieu of cylinders, will not be acceptable.			
All box lights to be LED type and include the following:- - Grote Ultra Blue Seal rear stop, tail, directional and back-up lights - 2 x Grote blue and amber strobe lights in upper section of each rear corner post - spinner and cross conveyor lights			
Holland model PH410RA pintle hook with air cushion, installed on heavy duty pintle plate. Interior switch required for air cushion valve. Re-locate chassis glad hands and 7 pin electrical plug onto pintle plate.			
Round LED rear stop, tail and directional lights shall be recessed into pintle plate, on each side of pintle hook.			
Star 200B blue and 200A amber strobe beacon lights shall be installed on pedestal attached to top of oil reservoir behind cab. Beacon lights shall be visible 360° around vehicle.			

REQUIREMENT	YES	NO	NOTES
Viking model VCL120HSE9 steel one-way snow plow equipped with the following: - 26" high intake / 54" high discharge - 7/8" thick carbide cutting edge - 2 x 36" marker rods - rubber deflector - hydraulic moldboard tilt with in-cab control - quick tach swivel bar			
Viking model VCL500T hydraulic tilt front plow harness with quick tach packets and pins, and heated LED snow plow head-lights / directional			
<i>VCL350SCL Front Wing Post</i>			
Front post shall be a Viking Model VCL350SCL utilizing sheaves and cables to raise and lower the front of the wing – capable of high-winging or benching at a height of 60" from the ground to the bottom of the wing cutting edge			
The post shall be an 8" I beam @ 18.4 lbs/ft.			
Aeon 5000 lb. rubber block helper spring kit shall be installed to the R.H. front chassis springs			
12" Grote #12020 convex mirror on backside of front post on a extended 10" angle iron bracket to aid driver in winging mode			
The slide and hinge assembly shall be equipped with a TORSION SPRING which will allow the wing to trip over obstacles.			
A 4½" LED front post spot light, complete with separate in-cab switch.			
<i>CABLE TYPE VCL350SCL REAR WING POST – UTILISING CABLES OR SHEAVES</i>			
Rear wing post structure shall be a full height above chassis frame rails - Viking VCL350SCL rear wing tower			
Viking tube style crossmember shall be provided approximately 10" back of cab to assist in preventing diamond shaping of frame when winging.			
35 U.S. gallon integral rear wing assembly oil reservoir, installed on top of the frame rails back of cab, shall be supplied complete with oil filter, oil level sight / temperature gauge, breather type filler cap, drain plug and ball valve shut-offs			
6" rear wing light w/in-cab switch			

REQUIREMENT	YES	NO	NOTES
<i>VCL156WHD Steel Side Wing Moldboard</i>			
Overall length 13 feet			
Cutting edge length – 12 feet			
Inside intake height 29” minimum			
Outside discharge height 39” minimum			
Equipped with the following: - High Wear wing blade - 2 x 36" marker rods			
<i>Hydraulic System</i>			
The hydraulic pump supplied shall be a Dowty Model 2PL158/220 front mount Tandem Dry Mode pump with in-cab air shift.			
Hydraulic control valves will be stackable and sectional type HCD-6 with HCD6-L20 air shift.			
The control valve will include the following 7 sections: 1 single acting for body hoist 1 double acting for plow lift 1 double acting for front harness hydraulic tilt forward 1 double acting for hydraulic moldboard tilt 1 double acting section for front of wing lift 1 double acting section for rear of wing lift 1 double acting section for rear wing slide			
The hydraulic control valves will be operated by proportional featherable in cab air controls – model RMH866000.			
The in-cab aluminum control panel assembly shall be of a remote design pedestal mounted and adjustable.			
A Viking 9 switch box integrated into the in-cab pedestal stand shall be provided.			
Unit to be equipped with the following sensors, wired to the in-cab spreader controller – plow raise / lower and material discharge			

## Schedule D: Servicing Information

Nearest Service Facility: \_\_\_\_\_

Distance (km): \_\_\_\_\_

Servicing Fee (/hr): \_\_\_\_\_

Mileage: \_\_\_\_\_

Other Information (turnaround times, description of service, call process, etc.)

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