

REQUEST FOR TENDER (RFT) FOR ONE TANDEM PLOW TRUCK CONTRACT PW 2024-01

TENDERS RECEIVED BY: The Village of Merrickville-Wolford

Attention: Brad Cole Manager of Operations publicworks@merrickville-wolford.ca

PART "A" – INFORMATION TO BIDDERS

1. Tender Form

Sealed Tenders, clearly marked as to the contents, on the forms supplied by the Village of Merrickville-Wolford ("the Village"), will be received, by the undersigned or his/her designated representative, at the Municipal Office, 317 Brock Street West Merrickville K0G1No, Ontario, until **11:00 a.m. April 10th 2024**, local time, as determined by the clock located on the computer in the reception area of the Municipal Office, **for One (1) Tandem Plow Truck**.

Tenders received after closing time will not be considered. The Village of Merrickville-Wolford

317 Brock Street West P.O Box 340 Merrickville, Ontario K0G1N0

Attention: Brad Cole Manager of Operations

One copy of the **completed Form of Tender**, Part "D", on the forms provided, shall be submitted. All information shall be shown in the Tender in the spaces provided, including the signature of the Bidder with his/her address and telephone number.

Tender forms must be properly signed and witnessed, or signed, witnessed, and sealed if the bidder is a corporation. Tenders must be submitted, using the Tender Label – Form 5 (to be affixed on your Tender Envelope).

The Tender must be legible, written in ink or typewritten, where stipulated, with the unit price for every item and other entries clearly shown. Tenders which are incomplete, conditional, or obscure or which contain erasures or alterations not properly initialed, or irregularities of any kind, may be rejected. Submissions must not be restricted by a statement added to the Forms or by a covering letter, or by alterations to the form supplied, unless otherwise provided in Part "A" - Information to Bidders.

Tenders received by fax or email will be disqualified.

2. Clarification of Documents

Any clarification of the Village documents required by the Bidder, prior to submission, shall be requested through the Village of Merrickville-Wolford. Any such clarifications so given shall not, in any way, alter the Village documents and the Bidder and the Village agree that in no case shall oral arrangements be considered.

No officer, agent or employee of the Village is authorized to alter, orally, any portion of these documents. During the period prior to submissions, alterations will be issued to Bidders as written Addenda. In the submission, the Bidder shall list all Addenda.

PART "A" – INFORMATION TO BIDDERS

that were considered when the submission was prepared.

All questions shall be directed, in writing (by email) to Brad Cole Manager of Operations publicworks@merrickville-wolford.ca

All questions/discrepancies identified must be sent to the Village at least three (3) business days prior to the submission due date.

Copies of all questions and answers and any addenda will be provided to bid takers that have been documented on the bid taker list.

3. Contract Documents and Order of Precedence

The contract documents shall consist of all the pages of the Tender documents, issued by the Village, and the Company's submission. Do not remove any pages from The Village' Form.

These documents, and portions thereof, take precedence in the order in which they are named above, notwithstanding the chronological order in which they are issued or executed.

The intent of the Contract is that the Company shall supply equipment and materials, or services complete and suitable for the Villages intended use.

None of the conditions contained in the Bidders standard or general conditions of sale shall be of any effect unless explicitly agreed to by the Village and set forth or specifically referred to therein.

4. Addenda

Bidders may be advised by addenda, of required additions, deletions, or alterations in the requirements of the Tender documents. All such changes shall become an integral part of the Tender documents and shall be allowed for in arriving at the total submission price.

5. Harmonized Sales Tax

Harmonized Sales Tax (H.S.T.), or any other applicable taxes, will be paid **in addition** to the Tender price.

6. Health and Safety

The Bidder assumes full responsibility for conforming to all legislation regarding the safety of his/her employees and the public on this Contract and all notices required to comply with the legislation.

PART "A" – INFORMATION TO BIDDERS

Accordingly, the Bidder shall:

- (a) Demonstrate establishment and maintenance of a health and safety program with objectives and standards consistent with applicable legislation.
- (b) Provide a copy of the applicable WSIB Certificate of Clearance or equivalent (if the Bidder is from outside Ontario), to be submitted with the Tender.

Upon request, at any time, from the awarding to the completion of the Contract, submit proof of fulfillment of the above noted.

7. Accessibility

The Bidder shall provide a declaration with the Tender that they are compliant with the Accessibility for Ontarians with Disabilities Act and its Regulations. An example of a declaration is attached in Appendix "A".

8. Bidder's Checklist

To assist Bidders with completing a response to this Tender, a Tender Checklist is included in Part D.

9. Withdrawal

A Submission may be withdrawn at any time prior to the closing date and time at the Bidder's discretion. Withdrawal notification must be in written form, signed and must be submitted to the Clerk-Administrator. No fax, telephone calls or emails will be accepted. After the official closing date and time, all Submissions received shall be irrevocable.

10. Public Opening

Due to the COVID-19 Pandemic the Public Opening will be determined by the Public health guidelines at the date of the opening. All submissions will be opened at the Municipal Office, 317 Brock Street West Merrickville, Ontario, on the same day and time as the closing date. Results will be provided later online or over the phone.

11. Tender Results

The names of the Bidders and total bid prices will only be made available at the Tender Opening. After the Tender Opening, requests may be submitted to the Village for the results and only the names of the Bidders and total bid prices, as read out at the Tender Opening, will be given in the reply. Bid results will be provided

PART "A" – INFORMATION TO BIDDERS

12. Bid Acceptance

It shall be the policy of the Village that in any procurement of goods, services, facilities or construction invitations to submit a Tender to the Village, we reserve the right to reject an offer to supply goods and/or services or Tenders presented in response to the Village procurement processes where the Village determines, in its sole and unfettered discretion, that the entity making the offer has performed poorly on any Village contract during the previous five-year period.

Village Council may remove a Company's name from consideration for a contract under this Policy, for a period of up to five (5) years, on the basis of documented poor performance or non-performance on a Village Contract.

Unless otherwise specified in these Tender documents, this Tender constitutes an irrevocable offer to provide the goods and/or services described herein **for a period of ninety (90) calendar days** from the closing date of the receipt of Tenders.

The Bidder may be required to show, in terms of experience and facilities, evidence of its ability, as well as that of any proposed subcontractor, to perform the work by the specified delivery date.

The acceptance of any Submission is subject to appropriate funding acceptable to the Village.

The placing in the mail or delivery of a notice of award to the Company address, given in the Submission, shall constitute notice of acceptance of the Contract.

Bidders may submit multiple bids in the event that the Bidder is providing different options and specifications.

13. Insurance

The successful Company shall provide the following insurance:

Commercial General Liability Insurance

The General Liability policy shall be underwritten by an insurer licensed to conduct business in the Province of Ontario and include but not be limited to the following:

- a) Third party bodily injury, personal injury, and property damage, to an inclusive limit of not less than \$2,000,000 per occurrence.
- b) The Village shall be added as an additional insured.
- c) The policy shall contain a provision for cross liability and a severability of interest clause.
- d) The policy shall contain a provision for contractual liability oral and written.
- e) The policy shall provide the Village with 30 days' notice of cancellation or nonrenewal.

PART "A" – INFORMATION TO BIDDERS

- f) Non-owned Automobile Coverage for a limit of not less than \$2,000,000 including contractual non-owned coverage.
- g) Contingent Employer's Liability.
- h) Broad Form Property Damage.

Motor Truck Cargo Insurance

The Company, if delivering the vehicle by separate conveyance rather than driving it to the delivery destination, shall obtain and keep in force for the duration of this contract Motor Truck Cargo Insurance on an All Risks basis, in an amount sufficient to cover the full replacement cost of the equipment being provided under the contract while that equipment is being delivered to the Village, including during loading and unloading from the conveying vehicle(s).

Other Requirements

The Company acknowledges that he/she is an independent Contractor and shall, indemnify, protect and save harmless The Village of Merrickville-Wolford, its agents and employees from any and all damages, liabilities and claims of whatsoever nature arising out of the furnishing by the Company, its agents or employees of the materials and/or performing of the services covered by this Contract.

The Company remains responsible for maintaining the required insurance even if the certificates are never exchanged and/or requested.

The Contractor shall obtain and keep in force for the duration of this contract automobile insurance under a standard Automobile Policy with limits no less than \$2,000,000 in respect of each owned or leased vehicle to be used in connection with the performance of the contract once awarded.

14. Failure to Enter into an Agreement

In addition to all of the Villages' other remedies, if a selected Bidder fails to execute the accepted agreement or satisfy any other applicable conditions within ten (10) days of notice of selection, the Village may, in their sole and absolute discretion and without incurring any liability, approve an extension *(should agreement changes be requested),* rescind the selection of that Bidder and proceed with the selection of another Bidder.

15. Assignment

The Company shall not assign the Contract, or any portion thereof, without the prior consent of the Village.

If the Village agrees to the assignment of the Contract, all Assignment Agreements will be prepared, at the sole cost of the Company, and under no circumstances will the Village be responsible for these costs.

PART "A" – INFORMATION TO BIDDERS

16. Laws and Regulations

The Company shall comply with relevant, federal, provincial and municipal statutes, regulations and by-laws pertaining to the work and its performance. The Company shall be responsible for ensuring similar compliance by its suppliers and subcontractors.

The Contract shall be governed and interpreted in accordance with the laws of the Province of Ontario.

17. Default by Company

If the Company commits any act of bankruptcy or if a receiver is appointed on account of its insolvency or in respect of any of its property or if the Company makes a general assignment for the benefit of its creditor, then, in any such case, the Village may, without notice; terminate the Contract.

If the Company fails to comply with any request, instruction or order of the Village or fails to pay its accounts or fails to comply with or persistently disregard statutes, regulations, by-laws or directives or relevant authorities relating to the work or fails to prosecute the work with skill and diligence or assigns or sublets the Contract without the Villages' written consent or refuses to correct defective work or is otherwise in default in carrying out its part of any of the terms, conditions and obligations of the Contract, then, in any such case, the Village may, upon expiration of ten (10) days from the date of written notice to the Company, terminate the Contract.

Any termination of the Contract by the Village, as aforesaid, shall be without prejudice to any other rights or remedies the Village may have.

If the Village terminates the Contract, it is entitled to:

- Take possession of all of the work in progress and finish the work by whatever means the Village may deem appropriate under the circumstances.
- Withhold any further payments to the Company until its liability to the Village can be ascertained.
- Recover from the Company loss, damage and expense incurred by the Village by reason of the Company's default (which may be deducted from any monies due or becoming due to the Company, any balance to be paid by the Company to the Village).

PART "A" – INFORMATION TO BIDDERS

18. Contract Cancellation

The Village shall have the right, which may be exercised from time to time, to cancel any uncompleted or unperformed portion of the work or part thereof. In the event of such cancellation, the Village and the Company shall negotiate a settlement.

The Village shall not be liable to the Company for loss of anticipated profit on the cancelled portions of the work.

19. Responsibility

The Village shall not be responsible for any liabilities, costs, expenses, loss or damage incurred, sustained or suffered by any Bidder prior to, subsequent to, or by reason of the acceptance or the non-acceptance of a Tender save as provided in the Contract. The Village reserves the right to reject any or all Tenders and to waive formalities as the interest of the Village may require without stating reasons, therefore, and the lowest or any Tender will not necessarily be accepted.

20. Liquidated Damages

Liquidated damages shall be paid by the contractor if the delivery called for in the Tender is not completed within the time set out in the Tender, or by an amended date approved by the Village. The Contractor agrees to pay the Village liquidated damages at a sum of \$500.00 per calendar day, for each day's delay in delivery.

21. Payments

The Company shall invoice the Village of Merrickville-Wolford, upon delivery. The Village shall pay said ninety percent (90%) of the invoice within thirty (30) days of receipt of the invoice (date of delivery).

Payment by the Village, of the ten (10%) percent holdback, shall be made ninety (90) days from the date of delivery.

The Village shall have the right to withhold, from any sum otherwise payable to the Company, such amount as may be sufficient to remedy any defect or deficiency in the work, pending correction of the same.

PART "A" – INFORMATION TO BIDDERS

22. Pre-Order Meeting

The successful bidder, and any applicable suppliers, and representatives from both Village shall meet prior to the placement of the equipment order. Changes to the below noted specifications shall be permissible and any changes to the equipment order shall be done via a change order. There shall be no limits to the allowable changes.

23. Municipal Freedom of Information and Protection of Privacy Act

Any personal information collected by or on behalf of the Village under this Tender is subject to the *Municipal Freedom of Information and Protection of Privacy Act*. The information provided to the Village may be used to confirm certain information provided in the submissions for this project. The person submitting this Tender consent to such collection and use of the information. The person submitting this Tender acknowledges the Tender is a public document and that the information contained in the Tender may become public and consents to the release of that information. By responding to this Request for Tender, respondents waive any challenge to the Village decision in this regard. Any questions regarding the collection, use, or disclosure of the information should be directed to the Clerk of the Village of Merrickville-Wolford.

PART "B" – GENERAL CONDITIONS

- 1. The unit shall be a new, 2023/2024 model year.
- The unit shall be delivered on or before October 31_{st}, 2024, at 317 Brock Street West Merrickville, Ontario. If the unit is not received on or before the date indicated by the bidder on the tender form, the Village reserves the right to initiate "Liquidated Damages – Clause 20 - Part "A" – Information to Bidders".
- 3. The following specifications are prepared with the intention of providing a basis for securing competitive bids. Notwithstanding certain detail, equipment of similar design and construction will receive consideration if, in the opinion of the Village, it is considered to be suitable for the intended application and generally conforms to performance requirements. All bids on equipment not fully meeting the specifications shall be accompanied by a statement fully outlining any departures from the specifications and fully describing the equipment offered.
- 4. Bidders must also provide the appropriate information where "Specify" is noted.
- 5. Village of Merrickville-Wolford meets the definition under the Broader Public Sector to access Ontario Government purchasing discounts and Vendors of Record; please price accordingly.
- 6. The total RFT price shall be for the supply of one tandem plow truck complete with all specified optional equipment. The trucks shall be f.o.b. the Dealership, and shall include freight, service and preparatory charges.

THE Village of Merrickville-Wolford TENDER FOR ONE TANDEM PLOW TRUCKS

PART "C" - SPECIAL CONDITIONS

- 1. This specification covers only the major details of the units. It is the supplier's responsibility to deliver fully equipped units with compatible components to provide dependable efficient service.
- 2. No wiring is to be cut or spliced without written approval from the Original Equipment Manufacturer (OEM) or the Village.
- 3. No frame or structure is to be cut, welded, or drilled without written approval from the OEM or the Village.
- 4. All wiring to be spliced must be soldered and covered with shrink tube.
- 5. All aftermarket installation, service, and operators' manuals as well as warranty certificates must be forwarded to the Village.
- 6. A copy of the owners, parts, service, operators (2 copies), shop manuals (including complete wiring diagrams) and CDs will be forwarded to the Village.
- 7. All warranty certificates and the vehicle line tickets must be forwarded to The Village of Merrickville-Wolford.
- 8. A complete list of all oils and filters must be forwarded to the Village.
- 9. Dealer will license the unit until December 31_{st}, 2024. Do not include in the Tender price, invoice separately.
- 10. Dealers will have the units MTO certified.
- 11. The successful bidder shall supply a fully executed manufacturer's warranty on the truck. As well as a one (1) year warranty on parts and labor starting from the delivery date.

PART "D" – FORM OF TENDER

1. I_____, of,_____,

DECLARE that no person, firm, or Corporation, other than the one whose signature or the signature of whose proper officers and seal is or are attached below, has any interest in this Tender or in the Contract proposed to be taken.

- 2. **I FURTHER DECLARE** that this Tender is made without any connections, knowledge, comparison of figures or arrangement with any other company, firm or person making a Tender for the same work and is in all respects fair and without collusion or fraud.
- 3. **I FURTHER DECLARE** that no member of the Village Council, or any Officer of the Village is or will become interested, directly or indirectly, as a contracting party or otherwise, in the performance of the Contract, or in the supplies, work or business to which it relates or any portion of the profits thereof, or any such supplies to be used therein or in any of the monies to be derived therefrom.
- 4. **I FURTHER DECLARE** that several matters stated in the said Tenders are in all respects true.
- 5. **I FURTHER DECLARE** that this offer is to continue open to acceptance until the formal contract is executed by the successful Company for the said Tender OR for a period of ninety (90) days after the closing date, whichever first occurs and that the Village may, at any time, within that period, without notice, accept this Submission whether any other Submission has been previously accepted.
- 6. **I FURTHER DECLARE** that the awarding of the contract based on this Tender by the Village shall be an acceptance of this Tender.
- 7. **I FURTHER DECLARE** that Addendum/Addenda No._____, inclusive, has/have been received, and that all changes specified in the Addendum/Addenda have been included in the prices submitted. I do hereby Tender and offer to enter into a Contract, to do all of the work and to furnish all necessary labour, machinery, tools, apparatus and other means of construction, and to provide, furnish, deliver, place and erect all materials mentioned and described or implied therein, to complete the work, herein described, in strict accordance with the plans, specifications and special provisions and to accept in full payment therefore, the sums calculated in accordance with the actual measured quantities, except where noted, at the unit prices set forth in the Tender therein as follows:

Witness

Signature

Date

Name of Company

E-mail Address

Address

Name of Signing Authority for Contract (Please print)

Telephone

Initials

PART "D" – FORM OF TENDER

SPECIFICATIONS AND CONFIRMATION FOR TANDEM TRUCK

MAKE: _____

MODEL:

YEAR: _____

PROPOSED UNITS MUST COMPLY WITH THE FOLLOWING SPECIFICATIONS IN ALL ASPECTS. ALTERNATIVE COMPONENTS, WHICH MEET THE REQUIREMENT OF THIS SPECIFICATION BUT ARE NOT IDENTIFIED IN THE SPECIFICATION, MUST BE APPROVED BY THE VILLAGE PRIOR TO TENDER CLOSING.

Specification Summary:

- 1- 470 HP MINIMUM
- 2- AUTOMATIC TRANSMISSION
- 3- REQUESTED GVWR 69,000. CLC. GVWR: 80,000
- 4- MINIMUM 23,000 LB FRONT AXLE
- 5- MINIMUM 46,000 LB REAR AXLE
- 6- RUBBER BLOCK TYPE REAR SUSPENSION
- 7- ENGINE RETARDER
- 8- CUMMINGS OR DETROIT ENGINE
- 9- BLOCK HEATER
- **10-AIR CONDITIONING**
- 11-AM/FM STEREO BLUETOOTH (HANDS FREE) COMPATIBLE
- 12-MUD GUARDS
- 13-EQUIPPED WITH PLOWS AS SPECIFIED IN TENDER
- 14-QUICK ATTACH HARNESS
- 15-HEAVY DUTY U-BODY DUMP BOX, EQUIPPED FOR SANDING (YELLOW IN COLOUR)
- 16-WIRED AND/OR EQUIPPED WITH LIGHTING TO MEET M.T.O. STANDARDS FOR SUMMER AND WINTER MAINTENANCE
- 17-SEE ATTACHED SPECIFICATIONS
- 18-CAB WHITE IN COLOUR

PART "D" – FORM OF TENDER

THESE PAGES MUST BE COMPLETED AND RETURNED WITH RFP

Tandem Truck Specifications

Genera 1.1	New – 2023 or 2024 model year, supplied with all standard equipment.		Mandatory	
1.2	Hard copy truck manual.		Mandatory	
1.3	Two (2) sets of keys cut and ready to use.		Mandatory	
Vehicle	e Weight			
1.4	GVW 68,000 lbs minimum. Allowable GVW shown on a metal or mylar tag.	Yes	No - Specify:	
1.5	Vehicle approx. weight (wet) 19,000 lbs.	Yes	No - Specify:	
Axles				
1.6	The spread on the tandem axles shall be 55 inches.		Mandatory	
1.7	Front axle – set back, Meritor, minimum 23,000 lbs capacity. Dana Spicer I-200 W or equivalent.	Yes	No - Specify: Make: Model: Capacity:	
1.8	Specify distance from front bumper to centreline of front axle.	Yes	No - Specify:	
1.9	RT-46-164, 46,000# R-SERIES tandem rear axle	Yes	No - Specify: Make: Model: Capacity:	
1.10	Rear axle, Meritor dual drive with interaxle differential and driver controlled interaxle differential lock out, and four- wheel lock-up, matched to engine and transmission to give adequate road power at 80 km/hr at approximately 1,200 rpm.	Yes	No - Specify:	
1.11	Axle ratio, 4.89	Yes	No - Specify:	

Brakes 1.12	Cable drain valves shall be supplied. Air tanks will have manual moisture drains with remote pull chains, easy to reach.		Mandatory	
1.13	Heated air dryer to automatically purge accumulated air moisture during the compressor duty cycle.		Mandatory	
1.14	Automatic slack adjustors with stroke indicators with greaseable clevis pins installed.		Mandatory	
1.15	Service brakes – full air brakes with Bendix ABS System.	Yes	No - Specify:	
1.16	Air compressor – 19 cfm capacity minimum, with dry type air cleaner on intake.	Yes	No - Specify:	
1.17	Front brake size 16 ½ x 6 inches "S" Cam Type	Yes	No - Specify:	
1.18	Rear brake size 16 ½ x 7 inches "S" Cam Type shall be supplied minimum.	Yes	No - Specify: Size: Type:	
Frame				
1.19	Single frame shall be of a standard manufacturer's design with reinforcement offered as "Standard Option" 7/16" x 3-9/16" x 11-1/8" 120 KSI Specify:	Yes	No – Specify:	
1.20	Reinforcing: at the engine ¼"	Yes	No – Specify:	
1.21	Moment: 2,900.000 RBM Minimum	Yes	No – Specify:	
1.22	Trucks with Trunion type moto mounting must have frame reinforcement. Mounting of snowplow cheek plates shall be possible.	Yes	No – Specify:	
1.23	Provision supplied to prevent diamond shaping of the frame. The frame bridged by a cross member installed within 10	Yes	No - Specify:	

	inches of the rear of the cab in order to transfer snowplow wing push to each frame rail. This cross member gusseted fore and aft.		
Susper	nsion		
1.24	Cab to axle distance, approximately 136 inches.	Yes	No - Specify:
1.25	Wheelbase length, 205 inches approximately.	Yes	No - Specify:
1.26	Front: 23,000 IBS Flat leaf front suspension.	Yes	No - Specify: Capacity:
1.27	Front: Shock absorbers.	Yes	No - Specify:
1.28	Rear: TUFTRAC 46,000 lbs rear spring suspension.	Yes	No - Specify: Capacity:
1.29	Transverse torque arms and shock absorbers.	Yes	No - Specify:
1.30	Mud flaps with a clearance of not more than 12 inches above the ground.	Yes	No - Specify:
Wheels	and Tires		
1.31	Dual rear wheels.		Mandatory
1.32	Steer axle-425-65R22.5 20 ply (front) Michelin XZY-3.	Yes	No – Specify:
1.33	Eight rear Michelin steel belted radial tubeless tires – XDS2 1100 R x 22.5 – 16 ply rating.	Yes	No – Specify:
1.34	Tread Design: Front – Standard Highway Tread.	Yes	No – Specify:
1.35	Tread Design: Rear – New traction tread – XDS.	Yes	No – Specify:
1.36	Wheel disc guards on front steering axle between hub and rim.	Yes	No - Specify:

1.37	Accuride aluminium extreme duty rims with hub pilot wheels and wheel nut torque indicators shall be supplied and installed, or approved equivalent.	Yes	No - Specify:	
1.38	Wheel disc guards on rear tandem axles between hub and rim and between rims.	Yes	No - Specify:	
Engine				
1.39	12.8L 450 HP @ 1625 RPM, 1900 GOV RPM, 1650 LB/FT @ 975 RPM with Jacobs brake.	Yes	No - Specify: HP: RPM:	
Transr	nission			
1.40	WTEC Calibration – 6 speeds with auto neutral RDS (Package 223 for snow plow).	Yes	No – Specify:	
1.41	Synthetic transmission fluid (TES-295 Compliant).	Yes	No – Specify:	
1.42	Vehicle interface blunt cut wiring with fuse panel wire mounted between driver & passenger seats.	Yes	No - Specify:	
1.43	Allison 4500 RDS Automatic transmission.	Yes	No - Specify:	
1.44	Water to oil transmission cooler, frame mounted.	Yes	No - Specify:	
1.45	Transmission oil check and fill with electronic oil level check.	Yes	No - Specify:	
Drive	Shaft			
1.46	Model MXL 18N / MXL17N Meritor or equivalent.	Yes	No - Specify:	
Hydraulic Pump				
1.47	Front mounted P.T.O. and pump assembly.		Mandatory	

Engine Equipment				
1.48	Master shut off switch for the batteries must be mounted in Cab.	Mandatory		

Mandatory		
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1.63	Floor mats – rubber.		Mandatory	
1.64	Mirrors – two outside, minimum 6 inches x 16 inches new style type mirrors with Convex c/w lights and heaters. Two fender mounted Convex mirrors on tri- pod stainless steel.		Mandatory	
1.65	Power side windows.		Mandatory	
1.66	AM-FM Radio Bluetooth hands free compatible.		Mandatory	
1.67	Auxiliary control cab access hole in cab on floor.	Yes	No - Specify:	
1.68	The driver's seat, adjustable fore and aft.	Yes	No - Specify:	
1.69	Windshield to be heated.	Yes	No - Specify:	
1.70	Tinted Safety glass doors and rear window.	Yes	No - Specify:	
1.71	Exterior Sun Visor with cab lights	Yes	No – Specify:	
1.72	Fender extensions on hood.	Yes	No - Specify:	
1.73	Heater – fresh air type, with dual forced draft defroster – heavy duty blower.	Yes	No - Specify:	
1.74	Tachometer.	Yes	No - Specify:	
1.75	An hour meter anti-vibration mount.	Yes	No - Specify:	
1.76	CB Radio ready.	Yes	No - Specify:	
1.77	2-way radio ready.	Yes	No - Specify:	
1.78	Dome light in Cab – light must radiate from cab roof.	Yes	No - Specify:	
1.79	Interior grab bar on each side of the cab to assist entry & exit.	Yes	No - Specify:	

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1.80	Exterior grab bar on driver's side door.	Yes	No - Specify:
1.81	Dual-air horn with snow shield.	Yes	No - Specify:
Fuel Ta	nks		
1.82	A minimum 80 US Gallon minimum step alloy tank mounted on the left side.	Yes	No - Specify: Size (US Gals):
Lights			
1.83	Factory switches on dash for auxiliary lighting for box and plow. (min. 5 switches). Lighting wiring to be connected and programmed by Truck Supplier.	Yes	No - Specify:
1.84	The following lights shall be supplied and any connections to be made into Original Equipment Manufacturers (OEM) wiring to be made with a junction box.	Mandatory	
1.85	All lights must have circuit breaker type protection.	Mandatory	
1.86	Two fender mounted amber front directional LED signal lights, 4 inches minimum.	Mandatory	
1.87	Body builders wiring at end of frame.		Mandatory
1.88	OEM auxiliary harness for front plow head lights.		Mandatory
1.89	All lights on truck to be LED and heated LED snow plow headlights/directionals		Mandatory
1.90	LED Stop Lights mounted at frame level.		Mandatory
1.97	LED five cab identification lights.		Mandatory
1.91	LED Back-up lights.		Mandatory
1.92	Two rear red directional LED signal lights such as Grote Hi Count LED Box Lamp or equivalent.	Yes	No - Specify:

PART "D" – FORM OF TENDER

1.93	One LED backup spot light shall be installed on each rear- top corner of the box. Lights stall be controlled on their own switch through the viking 16 switch light panel	Yes	No - Specify:	
Paint				
1.94	Paint shall be manufacturer's standard base coat clear coat. (WHITE)		Mandatory	
Spread	ler Controls			
1.95	Dicky John control point programmable automated spreader controller complete with 2 valve sections for spinner and conveyor functions. Viking backlit 16 switch box to be provided and installed on a cab pedestal stand.	Mandatory		
Miscel	aneous			
1.96	-45 degrees F. long life anti-freeze B123.	Yes	No - Specify:	
1.97	Groeneveld no equivalent single line parallel operating automatic greaser with a low level and dash light warning indicator. Interval grease timer can be adjusted manually without a device.	Yes	No – Specify:	
1.98	Pintle hook installed with extended glad hands. Pintle hitch to be 24 inches above ground. Pintle hook to include air cushion with in-cab switch		Mandatory	
1.99	Chassis hood to be equipped with butterflies/latches for quick and simple check of fluid levels	Mandatory		

Plow Equipment Specifications

PART "D" – FORM OF TENDER

These specifications describe an:
All Season Combination Dump Body and Sand/Salt Spreader. The dump box shall remain stationary on the chassis frame while spreading. Rear discharge shall be front hoist tilt action as per conventional dump bodies. The unit will be oval shaped to permit gravity flow unloading. The main conveyor will be centered and recessed along the length of the box. The cross conveyor will be chassis frame mounted with spreader discharge on the front, left side (driver's) of dump box.

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	Viking model Proline PL1415LW-11 or equ	ivalent a	pproved by the municipality
2.1	Specify: Make: Model:	-	
Dimer	nsions	-	
	To provide optimum combination of legal		
2.2	payload and capacity all dimensions below are maximum / minimum and will be exactly as specified.	Yes	No - Specify:
2.3	Body shall be oval shaped, permitting materials to unload by gravity flow onto spreading chain.	Yes	No - Specify:
2.4	Total weight of the complete body assembly in ready to work condition including hoist, tarp, tailgate, cross conveyor, main conveyor, and all other required components not to exceed 6,800lbs.	Yes	No - Specify:
2.5	Water level capacity will be 10.7 cu. yd.	Yes	No - Specify:
2.6	Water level capacity with 10" sideboards will be 13.8 cu.yd. – sideboards to be provided.	Yes	No - Specify:
2.7	Outside length 15ft.	Yes	No - Specify:
2.8	Inside length 14ft.	Yes	No - Specify:
2.9	Overall width outside 96"	Yes	No - Specify:
2.10	Overall width inside 86"	Yes	No - Specify:
2.11	Height of sides 45" from conveyor floor.	Yes	No - Specify:
2.12	Height of tailgate 53" from conveyor floor	Yes	No - Specify:
2.13	Height of front panel 60"	Yes	No - Specify:
Const	ruction		
2.14	Body to be constructed from one-piece head sheet and side panels.	Yes	No - Specify:
2.15	The front head of the body will be completely clean and clear of any type of recesses or protrusions into the body including hoist dog houses, bulkheads, etc.	Yes	No - Specify:
2.16	Body front panel will be sloped design, sloping rearward from top to the bottom.	Yes	No – Specify Degree:

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2.17	The front panel slope will be continuous and uninterrupted for the full length from top to bottom.	Yes	No - Specify:
2.18	Top rail of body will be 4" x 4" x ¼" square tubing	Yes	No - Specify:
2.19	All body welds will be 100% continuous inside and outside	Yes	No - Specify:
2.20	Body front head 3/16" thick Hardox 450 hi-tensile steel construction rated at a minimum 205,000 psi tensile strength	Yes	No - Specify:
2.21	Body sides 3/16" thick Hardox 450 hi- tensile steel construction rated at a minimum 205,000 psi tensile strength	Yes	No - Specify:
2.22	Rear vertical corner posts will be 10 ga. sheet steel, fabricated in such a way as to include provision for rear facing lighting requirements.	Yes	No - Specify:
2.23	Rear vertical corner-posts to be tied to radius side panels and horizontal top rails and welded 100 percent.	Yes	No - Specify:
2.24	Rear vertical corner-posts to be connected to main conveyor via a rear horizontal 3" x 8" x 3/8" wall HSS tube spanning the full body width.	Yes	No - Specify:
2.25	Body construction shall include integral side fenders fabricated from a minimum 10 GA Cor-ten A corrosion resistant material.	Yes	No - Specify:
2.26	Fenders shall be full length from front to rear of body.	Yes	No - Specify:
2.27	One fender right side and one fender left side shall be provided.	Yes	No - Specify:
2.28	Integral fenders to be sloped away from unit to prevent any excess material spilled during loading from building / piling up.	Yes	No - Specify:
2.29	Dump box access ladder shall be 15" wide, two-piece fold-up ladder located at the front driver's side of body.	Yes	No - Specify:
2.30	Access ladder will be manufactured from safety grip strut material.	Yes	No - Specify:
Hoist 2.31	Mailhot Nitrided top lift 3 stage telescopic hoist "C" series Model CS-130-5-3	Yes	No - Specify:
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	Hoist lift cylinder to be forward mounted		
2.32	three (3) stage top lift telescopic.	Yes	No - Specify:
2.33	Hoist capacity shall be 30 ton @ 2,000 P.S.I.	Yes	No - Specify:
2.34	Hoist cylinder will be rod sealed.	Yes	No - Specify:
2.35	Special Mailhot coating to provide protection to hoist seals in spreader position.	Yes	No - Specify:
2.36	Cylinder stroke shall be 130"	Yes	No - Specify:
2.37	Dump box dump angle shall be variable to 50 degrees from horizontal.	Yes	No - Specify:
2.38	There will be no hoist doghouse protruding into front head of body, hoist will be external mounted to provide flat body front head.	Yes	No - Specify:
2.39	Rear hinge diameter shall be 2 ½" minimum – no exception.	Yes	No - Specify:
2.40	Hoist control valve shall be air operated from inside cab.	Yes	No - Specify:
2.41	The body to be equipped with a positive locking support brace integral with rear dump hinge.	Yes	No - Specify:
2.42	Tailgate: Tailgate shall be double acting.	Yes	No - Specify:
2.43	Tailgate height shall be 53" from conveyor floor.	Yes	No - Specify:
2.44	Upper hinge plates to be offset design flame cut from 1" steel plate.	Yes	No - Specify:
2.45	Tailgate shall be rectangle shaped to allow use of asphalt or stone chip spreader.	Yes	No - Specify:
2.46	Body ftailgate 3/16" thick Hardox 450 hi- tensile steel construction rated at a minimum 205,000 psi tensile strength	Yes	No - Specify:
2.47	Exterior vertical side support tubes to be $3 \frac{1}{2}$ " x $3 \frac{1}{2}$ " x $\frac{1}{4}$ " wall HSS tubing.	Yes	No - Specify:
2.48	Latch mechanism for the tailgate shall be air trip using two air pot chambers actuated from inside cab – single air pot chamber design will not be acceptable.	Yes	No - Specify:
2.49	Brake chambers directly coupled to $\frac{1}{2}$ " thick flame cut latches.	Yes	No - Specify:

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2.50	Brake chambers one right side and one left side enclosed and protected by integral body fenders. Additional bolt-on steel cover plates shall provide further protection to brake chambers.	Yes	No - Specify:
2.51	Spreader chains and brackets shall be supplied on tailgate and rear apron. Chain shall be grade 70 coil proof 5/16" minimum.	Yes	No - Specify:
Main (2.52	Conveyor The main conveyor shall be centered and recessed along the length of dump box floor.	Yes	No - Specify:
2.53	Three-piece formed construction minimum 25" wide.	Yes	No - Specify:
2.54	Constructed of ¼" Cor-ten "A"	Yes	No - Specify:
2.55	Conveyor floor ¼" Hardox 450	Yes	No - Specify:
2.56	Permanent non-removable built in protective main conveyor chain link covers.	Yes	No - Specify:
2.57	The protective covers will run from the front to the rear of the body right and left side of the main conveyor.	Yes	No - Specify:
2.58	The protective non removable main conveyor link covers will cover and protect the main conveyor chain links from damage by impact at all times in all operation modes.	Yes	No - Specify:
2.59	In addition to the permanent non- removable main conveyor chain link covers a second quick removable conveyor chain cover will be supplied.	Yes	No - Specify:
2.60	The removable cover will protect the main conveyor floor and conveyor chain cross flights from damage by impact when installed.	Yes	No - Specify:
2.61	The removable main conveyor cover will be manufactured from 3/8" 2 ply high temperature rubber.	Yes	No - Specify:
2.62	The removable main conveyor cover will self-feed into place to allow fast and simple installation.	Yes	No - Specify:

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2.63	Self-feeding will be achieved by simply attaching the conveyor cover to a main conveyor chain cross flight at the tailgate (idler and), starting the main conveyor will	Yes	No - Specify:
	(idler end), starting the main conveyor will		

	hull the enverinte place under the		
	pull the cover into place under the		
	permanent non removable protective		
	steel chain link covers.		
	The removable rubber cover will be		
2.64	complete with attachment brackets to	Yes	No - Specify:
2.04	couple easily and directly to main	103	
	conveyor chain cross flights.		
	Removal of the rubber conveyor cover		
	from the body will be accomplished by		
2.65	starting the main conveyor, which will	Yes	No - Specify:
	then feed the cover out through the front		
	material discharge gate.		
	Installation and removable of the rubber		
0.00	main conveyor cover into or out of the	Vaa	No. Crosifi i
2.66	spreader body will be a one man	Yes	No - Specify:
	operation.		
	Conveyor chain to be self-cleaning D667		
o o .	pintle type with a minimum tensile		
2.67	strength of 21,700 PSI, spaced apart 21"	Yes	No - Specify:
	on center.		
	$3/8$ " x 1 $\frac{1}{2}$ " cross flights welded to every		
2.68	2nd link (approx. 4.5" spacing).	Yes	No - Specify:
<u> </u>	All conveyor flights shall be 100% fully		
2.69	welded to the chain links.	Yes	No - Specify:
2.70	Drive and idler shafts to be two (2) inches	Yes	No. Specifi <i>u</i>
2.70	diameter.	res	No - Specify:
	Drive and idler shafts manufactured from		
2.71	high-resistance stress proofed SAMSON	Yes	No - Specify:
	100.		
0.70	Drive and idler sprockets to be minimum	Vac	No. Specifi <i>i</i>
2.12	eight-tooth cast steel.	res	
0.70	All drive and idler sprockets to be	Vaa	No Specifi <i>i</i>
	minimum C1030 cast steel.		
2.74	Planetary drive for main conveyor.	Yes	No - Specify:
	Main conveyor drive shall be a single		
0 7E	25:1 high efficiency planetary drive with	Vaa	No Specifi
2.13	high torque low speed motor – standard	res	
	25 :1 gear boxes will not be acceptable.		
	The planetary drive shall deliver 50,000		
2.76	IN/LB torque intermittent with 34,960	Vaa	No. Specifi
	IN/LB constant.	res	
2.77	Planetary drive close coupled to main	V	No. Crossifin
	conveyor shaft.	Yes	No - Specify:
2.75	eight-tooth cast steel. All drive and idler sprockets to be minimum C1030 cast steel. Planetary drive for main conveyor. Main conveyor drive shall be a single 25:1 high efficiency planetary drive with high torque low speed motor – standard 25 :1 gear boxes will not be acceptable. The planetary drive shall deliver 50,000 IN/LB torque intermittent with 34,960 IN/LB constant.	Yes Yes Yes Yes	No - Specify: No - Specify: No - Specify: No - Specify: No - Specify:

	Specify make and model of planetary:		
2.78	MAKE: MODEL:		
2.79	Connection of the planetary drive shaft to the main conveyor shaft shall be accomplished via a split two piece rectangular shaped coupler assembly.	Yes	No - Specify:
2.80	The upper and lower half of the coupler assembly will be bolted together by (4) $5/8$ " x 4 $\frac{1}{2}$ " N.C. Grade 8 Hex Head bolts.	Yes	No - Specify:
2.81	Removal of the (4) coupling bolts will allow simple disassembly of the planetary drive shaft from the main conveyor shaft, for ease of maintenance.	Yes	No - Specify:
2.82	The two main conveyor drive shaft flange bearings will be bolted directly to the body long sill weldments.	Yes	No - Specify:
2.83	Each of the two body long sill weldment will be vertical slotted. Simply removing the drive shaft flange bearings and uncoupling the planetary and main conveyor drive shafts. The entire conveyor drive shaft assembly will drop out through the vertical long sill slots providing easy access and simple maintenance.	Yes	No - Specify:
2.84	Idler end of main conveyor will also be vertical slotted drop out design as described above.	Yes	No - Specify:
2.85	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 – threaded rod or grease ram type chain tensioners will not be acceptable.	Yes	No - Specify:
2.86	The fully automated chain tensioner will eliminate the requirement for any manual chain tension adjusting mechanisms such as conventional threaded rod and nut	Yes	No - Specify:

	tanajanara ar hydraulia graaga ram		
	tensioners or hydraulic grease ram		
	tensioners.		
2.87	Automated chain tensioning system to be centrally located between main conveyor	Yes	No - Specify:
2.07	drive and idle shafts.	100	
	Access to automated conveyor chain		
2.88	tensioning system shall be from the	Yes	No - Specify:
	side(s) of the body.		
	The flow control gate between main and		
2.89	cross conveyor shall be screw adjustable	Yes	No - Specify:
	by hand crank from driver's side of dump		
	body. The main conveyor flow control gate, will		
2.90	be flush and even with the front of the	Yes	No - Specify:
2.30	body, without any type of recess.	165	No - Opecity.
	Underside of main conveyor to be		
	complete with full length poly guard to		
2.91	prevent material spillage on to chassis	Yes	No - Specify:
	components and frame rails.		
Cross	Conveyor		
2.92	The cross conveyor shall be hydraulic	Yes	No - Specify:
	direct drive.		
	A cross conveyor assembly shall be used		
2.93	to discharge material from main conveyor	Yes	No - Specify:
	to the unit sides.		
2.04	Cross conveyor assembly to mount on chassis frame independent from and in	Vee	
2.94	front of main combination spreader unit.	Yes	No - Specify:
	Cross conveyor unit shall be removable		
2.95	design to reduce added weight in non-	Yes	No - Specify:
	spreading applications.		
	Cross conveyor weldment shall be		
2.96	fabricated from a minimum 3/16" Cor-ten	Yes	No - Specify:
	A corrosion resistant material.		
2.97	Cross conveyor chain to be fabricated	V	No. Onosifiu
	from two strands of D662 pintle chain	Yes	No - Specify:
2.98	spaced apart 10 inches on center. Cross flights 100% welded to chain links.	Yes	No - Specify:
2.30	The cross conveyor chain shall be a	103	
	pintle chain 3/16" x 1" crossers every 4"		
2.99	with a minimum tensile strength of 17,000	Yes	No - Specify:
	lbs.		

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2.100	Cross conveyor assembly to include replaceable polymer guards to prevent material from entering between chain links.	Yes	No - Specify:
2.101	Cross conveyor assembly to provide provisions for mounting of material sand/salt chutes and spinner units.	Yes	No - Specify:
Spinne			
2.102	A polyurethane spinner shall be installed on the left hand side (Driver side) to spread ahead of rear wheels.	Yes	No - Specify:
2.103	A 3.0 cubic inch hydraulic motor shall drive the spinner assembly.	Yes	No - Specify:
2.104	The spinner height shall be adjustable from 20 to 28 inches below the mounting surface of the body.	Yes	No - Specify:
2.105	The spinner height shall be capable of spreading evenly up to a 20FT radius with a main operating range of 0 to 15 FT radius.	Yes	No - Specify:
2.106	Spinner assembly capable of discharge rate from 100 lbs./lane mile to 2,500 lbs./lane mile.	Yes	No - Specify:
2.107	Spinner position adjustable fore and aft horizontal along chassis frame rail.	Yes	No - Specify:
2.108	Spinner assembly will be flip up style allowing the spinner to be carried in an on board stored raised position.	Yes	No - Specify:
2.109	Hydraulic hoses to be spinner motor are to be complete with quick disconnect automatic sealing breakaway couplers and are to be assembled so that the male end may plug into the female end on the spinner motor and the hoist frame when the spinner assembly is disconnected.		No - Specify:
2.110	Spinner anti-coning device to be provided	Yes	No - Specify:
Lightir	ng		
2.111	For improved rear visibility, provision for rear stop, tail and directional lights, as well as back up lights, to be mounted in rear corner posts within 3" of the outside of the tailgate shall be provided.	Yes	No - Specify:
2.112	Grote Ultra Blue Seal LED oval rear stop, tail and directional lights shall be provided	Yes	No - Specify:

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	in lower section of rear corner posts – 2 per side.		
2.113	Grote Ultra Blue Seal LED back-up lights shall be installed in mid-section of rear corner posts – 1 per side.	Yes	No - Specify:
2.114	Grote blue and amber LED strobe lights shall be installed in each upper rear corner post.	Yes	No - Specify:
2.115	Rear blue and amber warning heated LED lights installed below body.	Yes	No - Specify:
2.116	3 in a row light cluster shall be supplied with mounting plate integral with dump hinge.	Yes	No - Specify:
2.117	2" round red clearance lights shall be provided in lower rear side corner posts.	Yes	No - Specify:
2.118	4" heated LED spinner and cross conveyor lights shall be supplied.	Yes	No - Specify:
2.119	Star 200B blue and 200A amber strobe beacon lights to be installed on pedestal back of cab – separate in-cab switch for each beacon.	Yes	No - Specify:
Mud F	laps		
2.120	Mud flaps shall be provided fore and aft of rear wheels, frame mounted via full width steel flat bar.	Yes	No - Specify:
Paint 2.121	The dump body shall be shot blasted, and epoxy primed.	Yes	No - Specify:
2.122	Finish paint Dupont Imron Elite 5000	Yes	No - Specify:
2.123	Finish paint to be baked on – no exception.(YELLOW IN COLOR)		Mandatory
Load (Cover		
2.124	An air tarp shall be standard equipment with fabricated tarp arms dimensions of 1 $\frac{1}{2}$ " x 2 $\frac{1}{2}$ " aluminum tubing, 1/8" mesh tarp, powered by twin air cylinders operated from in the cab. Aluminum tarp arms with stainless steel body mounting brackets must be provided – no exception.	Yes	No - Specify:

Screer			
2.125	Body shall be equipped with heavy duty material screens, hinged from a center longitudinal tubular member of not less than 4" in diameter.	Yes	No - Specify:
2.126	Complete screens assembly, including centre tubular member, must be galvanized – no exception.	Yes	No - Specify:
2.127	Screen shall be woven mesh 0.375 " rod into frame of 2" x 0.25 " angle and securely to the central longitudinal member with pins of not less than 0.75 " diameter.	Yes	No - Specify:
2.128	Mesh shall have a maximum opening of 3".	Yes	No - Specify:
2.129	Screen shall not extend over the edge of the body and shall be pitched not less than 3.625" from center.	Yes	No - Specify:
Pintle		_	
2.130	A Holland model PH410RA pintle hook complete with air cushion shall be supplied. The pintle hook mounting plate shall be adequately reinforced. Chassis supplied glad hands and trailer plug shall be relocated onto pintle plate.	Yes	No - Specify:
2.131	Two (2) round LED rear stop, tail and directional lights shall be recessed into pintle plate, on either side of hook.	Yes	No - Specify:
Sande	r Controls		
2.132	Ace Ecobite II Pro automated spreader controller shall be provided, including 2 section valve assembly to operate spinner and conveyor functions. Ace Infobite GPS module shall be supplied and installed with spreader controller.		Mandatory
2.133	Viking model VCL36-11-45C steel full trip r moldboard tilt. SPECIFY: MAKE: Model:	eversible	e plow with hydraulic

Plow F	Equipment		
2.134	Viking model VCL36-11-45C steel full trip reversible snow or approved equivalent		Mandatory
2.135	The overall width shall be 11 feet	Yes	No - Specify:
2.136	The moldboard height shall be 36 inches maximum.	Yes	No - Specify:
2.137	The path cleared in the bulldozing position shall be 11 feet at a 35-degree angle and the path cleared shall be 9 feet.	Yes	No - Specify:
2.138	The two (2) moldboard tilt adjustment braces shall each be equipped with hydraulic cylinders to enable the operator to change the angle between the cutting edge and road surface through an in cab proportional air control. Manually adjustable type moldboards will not be acceptable.	Yes	No - Specify:
2.139	A hydraulically adjustable moldboard tilt brace system to be provided	Yes	No - Specify:
2.140	The moldboard tilt braces shall connect the back of the moldboard to the plow drive frame.	Yes	No - Specify:
2.141	The moldboard brace rod shall be hydraulically adjustable for plow angles of 45-degree, 50 degree and 55 degrees. A hydraulic cylinder shall be connected to the male and female sections of the adjustable brace rod, with in-cab joystick. control.	Yes	No - Specify:
2.142	The bottom of the moldboard is to be reinforced with a $\frac{1}{2}$ "x 6" x 4" backer angle.	Yes	No - Specify:
2.143	A second angle 3/8" x 3" x 2" shall be welded above for added strength and rigidity.	Yes	No - Specify:
2.144	The drive frame shall be of A frame and sector design.	Yes	No - Specify:

2.145	The A frame will be constructed of 3 ½"	Yes	No - Specify:
2.140	x 3 $\frac{1}{2}$ x 1/4" square tubing with two 3/4"	100	No opcony.
	thick pivot plates.		
	The sector frame is to be constructed of 4"		
2.146	x 4" x 3/8" square tube.	Yes	No - Specify:
0 4 4 7	The sector angle shall provide a 30 degree	Vaa	No. Crosifi
2.147	radius and be constructed of 1/2 "x 3 1/2 "	Yes	No - Specify:
	x 2 1/2 " steel.		
2.148	To prevent wear, the sector glide between	Yes	No - Specify:
	two low friction replaceable polymer		
	bearings bolted on the A frame.		
2.149	There shall be two 3" diameter x 14" stroke	Yes	No - Specify:
	double acting hydraulic cylinders to		
	reverse the plow to a maximum of 35		
	degrees left or right.		
2.150	The reversing cylinders must include hard	Yes	No - Specify:
	chrome induction rods.		
2.151	Set at a 50-degree attack angle, the	Yes	No. Specifi <i>i</i> :
2.151	overhang from the cutting edge to the	res	No - Specify:
	front of the moldboard shall be 20"		
	minimum with no exceptions.		
	Set at a 60-degree attack angle, the		
	overhang from the cutting edge to the		
2.152	front of the moldboard shall be 25"	Yes	No - Specify:
	minimum with no exceptions.		
	Set at a 50-degree attack angle, the		
	height from the ground to the front of the		
	moldboard shall be 24" maximum with no		
	exceptions.		
2.153	exceptions.	Yes	No. Specify:
2.100		162	No - Specify:
	The moldboard shall be fabricated from		
	10 ga. Steel.		
2.154		Yes	No - Specify:
	There shall be a minimum of 10 x 3/8"		
	thick reinforcing ribs 100% welded to the		
2.155	moldboard.	Yes	No - Specify:
	Specify number of ribs.		-) -
	The safety trip mechanism shall consist		
	of two compression coil springs		
2.156	incorporated into the drive frame. Upon	Yes	No - Specify:
2.100	encountering a road obstruction, the	163	rio - Opcony.
	moldboard will rise vertically through the		
	2 compression springs. Note that		

	reversible plows whereby the moldboard tilts forward through extension springs, will not be accepted by the Village.		
2.157	The two compression trip springs will be 5/8" wire, 5 1/4 "O.D. 14" free length with a total of 8 active coils.	Yes	No - Specify:

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2.158	Hight adjustable "Mushroom style" skid shoes shall be fitted onto the drive frame.	Yes	No - Specify:
2.159	These shoes shall carry the weight of the plow when the moldboard trips.	Yes	No - Specify:
2.160	The moldboard shall be fitted with 2 shoes and scuff shoes shall be supplied on each end.	Yes	No - Specify:
2.161	Three 3/8" lift chains shall be provided to lift the plow to the carrying position.	Yes	No - Specify:
2.162	These chains must be as widespread as possible in order to make the plow stable, and the plow must remain level when carried.	Yes	No - Specify:
2.163	It will be possible to perform the power angle function with the plow in both the lowered working position and the raised carrying position.	Yes	No - Specify:
2.164	Four hinge points are to be provided to connect the moldboard to the push frame, spanning a minimum distance of 80"	Yes	No - Specify:
2.165	To prevent damage to the reversing cylinders a cross- over relief valve shall be supplied.	Yes	No - Specify:
2.166	Drive frame shall be complete with a height adjustable parking stand.	Yes	No - Specify:
2.167	All steel shall be epoxy primed prior to application of finish paint. All paint finishes shall be top quality rust resistant black.	Yes	No - Specify:
2.168	Quick tack oscillating beam shall be provided and a carbide cutting edge shall be provided. The moldboard shall be fitted with a florescent marker on each end of the moldboard as well as a 3/8" x 12" rubber deflector shall be provided for the full length of the moldboard.	Yes	No - Specify:
2.169	A signed manufacturer's warranty shall be supplied, and a spare parts manual shall be provided.	Yes	No - Specify:
	model VCL500HD hydraulically detachab /ed equivalent	le front	plow harness or

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2.170	Male Coupler: The male hinged swing arm and its enclosed rigid mounting bracket shall form an integral assembly and is to be fitted to the side plate (cheek plate). The assembly remains permanently with the vehicle even after the female coupler has been detached.	Yes	No - Specify:
2.171	Side (Cheek) Plates: The side plates must be 5/8" thick and attached to the chassis side rails.	Yes	No - Specify:
2.172	Cheek plates will be specified to suite chassis frame rails and will extend back. along the chassis frame rails as far as possible.	Yes	No - Specify:

	Cheek plates flame cut from 44W steel plate.				
	Specify:				
2.173	Minimum Yield:	-			
	Minimum Tensile:	_			
2.174	Fasteners attaching cheek plates to the chassis frame rails will be minimum grade 8 N.C. hex head bolts	Yes	No - Specify:		
2.175	Swing Arm: The male swing arm to be rotated on a shaft, and the hub ends are to be guided by four anti-friction polymer discs in the mounting bracket.	Yes	No - Specify:		
2.176	A double acting hydraulic cylinder shall. be utilized to tilt and or detach the front harness.	Yes	No - Specify:		
2.177	The cylinder properties are as follows: Piston diameter 2 ½" Piston rod diameter 1-1/18" Stroke 6"	Yes	No - Specify:		
2.178	The rod is to be hard chrome plated and buffed.	Yes	No - Specify:		
2.179	Hydraulic tilt forward only - These cylinders shall permit the front harness to tilt forward by disengaging the top and engaging the bottom hydraulically operated lock pins. The truck hood (cab) can then be tilted forward for easy access to the engine without completely detaching the front harness from the truck.	Yes	No - Specify:		
2.180	Hydraulic detach function – by releasing both the upper and lower hydraulic locking pins, the front harness and wing post can hydraulically detach. from the chassis.	Yes	No - Specify:		

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2.181	Hydraulically locking the plow harness shall be achieved through two double acting, double ended hydraulic cylinders. – detachable type front harness' utilizing a single hydraulic locking pin will not be acceptable. The front harness must be able to either hydraulically tilt forward, or completely detach from the chassis – no exception.	Yes	No - Specify:
2.182	One cylinder shall provide the upper locking function and the other cylinder shall perform the lower locking function.	Yes	No - Specify:
2.183	The lock cylinder control valve shall be a double acting two spool mono block valve, installed directly on the front harness.	Yes	No - Specify:
2.184	The mono block valve shall be protected by a Poly Nema 13 waterproof enclosure – no exceptions.		Mandatory
2.185	For safety, the lock cylinder control valve shall be mounted in a position to allow the operator visibility of the hydraulic lock pins while performing the lock or unlock functions.	Yes	No - Specify:
2.186	Two pairs of drive ears 100% welded to the front plate spaced at standard 30 1/2" centers	Yes	No - Specify:
2.187	Three sets of plow drive bar connection holes located in drive ears - height to lower drive connections shall be 19" with plow mounted.	Yes	No - Specify:
2.188	Quick-tack hitch pockets bolted to drive ears	Yes	No - Specify:
2.189	Hydraulic plow lift cylinder, double acting 4" diameter with 10" stroke, cylinder rod hard induction chrome plated – nitride type cylinders will not be acceptable.	Yes	No - Specify:
2.190	Plow lift yoke 3/4" steel plate, braced with two 1/4" x 2" flat bar diagonal braces.	Yes	No - Specify:
2.191	Two mounting locations in lift yoke to provide location for mounting of plow hydraulic lift cylinder – one position for winter operations and the second position for stored summer position	Yes	No - Specify:

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2.192	Mounting plates for plow lift cylinder, lift yoke and lift yoke braces all 1/2" steel plate 100% welded to front plate.	Yes	No - Specify:
2.193	Two Grote heated LED plow lights with high and low beam and built in integral directional's with switch in cab.	Yes	No - Specify:
All Hyd	draulic - VCL275AHW Front Wing Post		
The	ese specifications describe an all hydraulic, s ess, with the ability to perform a high shelvin and / or retract the wing to increase or de	g opera	tion and hydraulic extend
2.195	The wing operation shall be fully hydraulic, without the use of any sheaves, pulleys or cables.	Yes	No - Specify:
2.196	With the wing raised to the high shelving position, the distance from the bottom of the cutting edge to ground level will be 24 to 30 inches.	Yes	No - Specify:
2.197	The wing post shall be made of 8" I- Beam, 18.4 lb/ft, minimum – no exception. Cross member shall be of heavy construction to sustain snow- plowing operation in severe conditions.	Yes	No - Specify:
2.198	The front post will be a minimum of 48" in height.	Yes	No - Specify:
2.199	To lift the front of the wing a 3" x 48" double acting hydraulic cylinder will be mounted in the rear inside of the front post.	Yes	No - Specify:
2.200	Guide bars will be provided for the slide assembly running, for the full height of the wing post.	Yes	No - Specify:
2.201	A safety stop, limited slide travel shall be supplied.	Yes	No - Specify:
2.202	The main supporting member for the front post shall be 4" OD x 2-3/4" ID x 5/8" wall tube crossmember running through both cheekplates, reinforced with a $\frac{1}{2}$ " steel plate between the cheekplate and front post.	Yes	No - Specify:
2.203	The auxiliary support shall be a 6" x 13 lb/ft channel running across the top of both cheekplates.	Yes	No - Specify:

Trip H	inge and Slide Assembly		
	Front slide to be provided with a safety		
2.204	trip hinge assembly, the wing will return to	Yes	No - Specify:
	the normal position after it has tripped.		
	The safety trip block will be vertically		
2.205	mounted on the trip hinge above the inner	Yes	No - Specify:
2.200	and outer trip blocks connected by a .75"	103	
	x 24.5" stud bolt.		
2.206	The hinge is designed to lift the wing as it	Yes	No - Specify:
2.200	trips through a trapezoidal design.	103	
	Trip block will be rubber type with a triple		
2.207	convolution and a 55 density rating	Yes	No - Specify:
	composition.		
2.208	Wing slide ³ / ₄ " thick steel plate, 72" overall	Vaa	
2.200	length by 6 $\frac{3}{4}$ wide.	Yes	No - Specify:
2 200	Slide travel 48" minimum with provision	Vaa	No. Specifi <i>u</i>
2.209	for 14" minimum float – no exception.	Yes	No - Specify:
2.240	4" heated wing light shall be provided	Vaa	No. Specifi <i>u</i>
2.210	with separate switch.	Yes	No - Specify:
Hydra	ulically Adjustable Single Wing Brace Ass	embly	
2.211	The rear harness will incorporate one	Yes	No - Specify:
	only single push arm assembly.		
2.212	The push arm will be of telescopic design,		
	outer tube 4" x 38 ½" extra heavy pipe,		
	inner tube 3 ½" O.D. x 2 ½" I.D. 38 ½"	Yes	No - Specify:
	tubing – these are mandatory minimum		
	requirements to ensure wing stability.		
2.213	The operator will be able to change the		
	cleared path instantly from inside the cab	Yes	No - Specify:
	from 8' to 11'.		
2.214	The push arm lift cylinder will be 3 ½" x	Vee	No. On a sife a
	26" double acting.	Yes	No - Specify:
2.215	The telescopic push arm and lift cylinder		
	shall quickly and easily disconnect from		
	the rear brace via a single quick	\/_	No. One-if-
	disconnect bracket. The quick disconnect	Yes	No - Specify:
	bracket shall be attached via a single 1" x		
	15.5" pin.		
2.216	When the wing is in the normal carrying	Yes	
-	position, the push arm extension cylinder		
	will be in the collapsed position. By		es No - Specify:
	extending the push arm cylinder, it will		
	adjust the wing forward and upwards,		
	allowing it to be carried in a position that		
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	will provide improved visibility from the right side chassis window.		
2.217	The push arm will incorporate a safety compression style trip spring, 5/8" wire, 3 ³ / ₄ " O.D. x 2 ¹ / ₂ " I.D., free length, to assist in absorbing shock.	Yes	No - Specify:
2.218	Safety chain shall be provided to secure the wing when in the travel position.	Yes	No - Specify:
2.219	Extension cylinder oscillation will be achieved through two $\frac{3}{4}$ " I.D. x 2 1/8" O.D. spherical bushings press fitted and welded to $\frac{1}{2}$ " steel plate mounting lugs.	Yes	No - Specify:
Rear V	Ving Tower		
2.220	The wing tower shall be of a heavy construction and bolted to the right side of the truck chassis.	Yes	No - Specify:
2.221	The rear harness, when installed, shall not use up any cab to axle space and will allow the dump/sander body to be mounted directly behind the chassis cab, with minimum clearance.	Yes	No - Specify:
2.222	A rigid load carrying enclosure shall be provided to support the single wing brace and hydraulic lift cylinder.	Yes	No - Specify:
2.223	The rear supporting structure shall extend across both chassis side rails and along the right side to provide a distribution of the wing load under heavy duty operation.	Yes	No - Specify:
2.224	The portion of the rear supporting structure that extends across the top of the chassis side rails will be 1" thick steel plate.	Yes	No - Specify:
2.225	Hydraulic hoses shall connect the rams of the tower with the valves in the control box. Hoses shall be two (2) ply braided steel, SAE 100R16 with swivels on both ends – Gates hydraulic hoses only – no exception.	Yes	No - Specify:
2.226	A safety chain shall be provided for securing wing when not in use.	Yes	No - Specify:

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	Viking tube style crossmember located approximately 10" behind cab, braced and gusseted fore and aft.		
2.227	4" heated LED rear wing light supplied and installed.	Yes	No - Specify:
2.228	All steel will be shot blasted, epoxy primed and top quality black finish paint electro statically applied.	Yes	No - Specify:
2.229	Parts manual shall be supplied with unit.		Mandatory
12' Wi	ng Moldboard		
	npletely enclosed and smooth paneled, the n de a superior cast over traditional wings. The attachment of one only single hyd	ere shall	be provision supplied for
2.230	Viking model VCL144AHW or approved equivalent: SPECIFY: MAKE: MODEL:	Yes	No - Specify:
2.231	Overall length 12 feet	Yes	No - Specify:
2.232	Inside intake height 28"	Yes	No - Specify:
2.233	Outside discharge height 34"	Yes	No - Specify:
2.234	Moldboard thickness 3/16" minimum	Yes	No - Specify:
2.235	The rear of the wing will be completely enclosed and smooth paneled – open style break-formed wing moldboards will not be acceptable - no exception.	Yes	No - Specify:

Image: 2.237Three discharge end caps shall be provided. The caps to be constructed of 3/16" plate and each to be welded 100% to the moldboard face, the rear upper moldboard top angle and the rear lower moldboard channel.YesNo - Specify:	2.236	Rear of wing enclosure shall be a two- piece assembly consisting of: moldboard channel 3/16" plate 12 5/8 X 143 5/16" top angle 3/16" plate 9 7/16" at intake end 18 1/16" at discharge end 143 5/16" overall length The operator will be able to change the clearing path from 5' to 8' hydraulically by featherable in-cab control on swivel pedestal between seats. The push arm lift cylinder will be 3 $\frac{1}{2}$ " x 26" hardened chromed double acting – nitrated type cylinders are not acceptable. The push arm cylinder will incorporate a safety compression style trip spring, 5/8" wire, 3 $\frac{3}{4}$ " O.D. x 2 $\frac{1}{2}$ " 1.D. free length – to assist in absorbing road shock. Safety chain shall be provided to secure the wing when in the travel position. Extension cylinder oscillation will be achieved through two $\frac{3}{4}$ " I.D. x 2 1/8" O.D. spherical bushings press fitted and welded to $\frac{1}{2}$ " steel plate mounting lugs.	Yes	No - Specify:
2.238 Lower backer angle 5/8" X 4" X 4" Yes No - Specify:		provided. The caps to be constructed of 3/16" plate and each to be welded 100% to the moldboard face, the rear upper moldboard top angle and the rear lower		No - Specify: No - Specify:

2.239	Backer angle reinforced with 4 gussets of 3/16" X 4" steel and 8 angle stiffeners ½" X 3" X 3"	Yes	No - Specify:
2.240	Moldboard will be reinforced without the use of vertical ribs, horizontal internal reinforcement to be supplied – no exception.		Mandatory
2.241	One set of drive ears t to be provided on back side of wing moldboard for connecting the single push arm	Yes	No - Specify:
2.242	The wing will be fitted with the following: High wear wing blade.	Yes	No - Specify:
2.243	Turn buckle assembly to be permanently mounted on the rear of the wing	Yes	No - Specify:
2.244	The turnbuckle will pivot out and attach to the single wing brace, in order to support the brace during the disconnecting and reconnecting of the wing assembly from the rear post. When removed from chassis, the turnbuckle will keep the wing and push arm in the upright position for ease of re- installation onto rear wing tower. All other methods of removing the wing/push arm including winch system will not be acceptable.		Mandatory
2.245	Adjustable needle valve in hydraulics back of cab to allow operator to be able to slow / speed mode functions of wing.	Yes	No - Specify:
2.246	Height adjustable WING PARKING STAND permanently attached to wing	Yes	No - Specify:
2.247	36" ORANGE fluorescent wing marker attached to rear of wing	Yes	No - Specify:

2.248	Conspicuity reflective on wing arm and on rear edge of wing	Yes	No - Specify:
2.249	All steel will be shot blasted, epoxy ZINC primed and finished in Medium Gloss BLACK finish	Yes	No - Specify:
Hydra	ulic System		
2.250	The hydraulic pump supplied shall be a Ultra Dowty tandem dry mode front mount crankshaft driven pump, complete with in cab switches for each pump section.	Yes	No - Specify:
2.251	The first stage shall produce 13 US G.P.M. at 1,000 R.P.M. and 23 US G.P.M. at 1,800 R.P.M. 23 US G.P.M. at 1,800 R.P.M	Yes	No - Specify:
2.252	The second stage shall produce 18 US G.P.M. at 1,000 R.P.M. and 32 US G.P.M. at 1,800 R.P.M	Yes	No - Specify:
2.253	One pump section shall be dedicated to the operation of the plow, wing and hoist only.	Yes	No - Specify:
2.254	The second pump section shall strictly operate the conveyor and spinner assembly to ensure uninterrupted flow of material.	Yes	No - Specify:
2.255	Pump mounting plate and splined drive shaft shall be supplied.	Yes	No - Specify:
2.256	The pump shall be driven from the crankshaft of the truck engine.	Yes	No - Specify:
2.257	The pump shall have a manufacturer's R.P.M. rating equivalent or higher than that of the truck engine at governed speed.	Yes	No - Specify:
2.258	Hydraulic hoses to connect pump shall be supplied. Their size shall be adequate for quick operation of all hydraulic operations and shall be Gates 2 ply braided steel SAE100RS, with swivels on both ends.	Yes	No - Specify:
2.259	Hydraulic hoses to be thoroughly protected by urethane hose wrap.	Yes	No - Specify:
2.260	The drive shaft shall be supplied with spline long enough to allow telescopic	Yes	No - Specify:

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	retraction of the shaft in order to change		
	fan belt without removing the pump.		
2.261	The hydraulic system must be set up, so all other hydraulic functions do not "rob" the sander equipment.	Yes	No - Specify:
2.262	Hydraulic control valves will be stackable and sectional type Walvoil model SDS-180 with air shift – no exceptions.	Yes	No - Specify:
2.263	The valves shall be open center type to operate with a hydraulic gear pump.	Yes	No - Specify:
2.264	To prevent corrosion the air shifters will have a bronze sleeve.	Yes	No - Specify:
2.265	The control valve will include the following 8 sections: 1 single acting for body hoist 1 double acting for plow lift 1 double acting section for plow reverse 1 double acting for hydraulic moldboard tilt 1 double acting section for front harness hydraulic tilt forward 1 double acting section for front of wing lift 1 double acting section for rear of wing lift 1 double acting section for hydraulically extendible lower wing brace	Yes	No - Specify:
2.266	The hydraulic control valves will be operated by proportional featherable in cab air controls – model RMH866000 – no exception.	Yes	No - Specify:
2.267	The aluminum control panel assembly shall be of a remote design pedestal mounted and adjustable.	Yes	No - Specify:
2.268	In-cab pedestal stand shall be supported by a stainless-steel cab floor stiffener plate.	Yes	No - Specify:
2.269	A Viking lighted 16 switch panel shall be integrated into the aluminum control panel.	Yes	No - Specify:
2.270	An oil reservoir of minimum 35 gallon capacity shall be supplied, complete with oil filter oil level sight gauge, breather type filler cap, drain plug and oil shut off valve.	Yes	No - Specify:
2.271	The oil reservoir will be installed on top of the chassis frame rails back of cab.	Yes	No - Specify:

2.272	Low hydraulic oil level in-cab light and alarm.	Yes	No - Specify:
2.273	The complete valve stack assembly will be installed well above the chassis frame rails on the left side back of cab in an easily accessible location, protected from the road debris. The valve mounting bracket must be manufactured from stainless steel. The junction boxes for the lights must also be installed at this location.	Yes	No - Specify:

PART "D" – FORM OF TENDER

List three municipalities in Ontario that have purchased a similar machine in the last 2 years:

1	
2.	
3.	

List location of Manufacturers Parts Warehouse:

PART "D" – FORM OF TENDER

I/We hereby agree to supply **One Tandem Plow Truck**. Complete in working condition in accordance with Parts "A", "B" and "C" of this Tender for the following price:

DESCRIPTION	PRICE Canadian \$ (LESS HST)
Supply Tandem Plow Truck	\$
TOTAL PRICE	\$

The specified Tandem Plow Trucks will be delivered to the following:

1-Unit to Village of Merrickville-Wolford Garage, 317 Brock Street West Merrickville, Ontario

Notes:

- i) HST will be paid in addition to the Tender price.
- ii) Prices must be rounded to two decimal places only.

PART "D" – FORM OF TENDER

CHECKLIST

Enclosed with submission:

1. Completed Part "D" enclosed.	_
2. 2020 Health and Safety Policy – Part "A" (#6)	_
3. WSIB Certificate of Clearance – Part "A" (#6)	_
	—
Documents upon Award of Contract:	

1. Certificate of Insurance – Part "A" (#13)

PART "D" – FORM OF TENDER

TENDER LABEL – FORM 5

To help identify your Tender, please **cut out the label below and affix this label to the outside of your Tender Envelope:**

THE VILLAGE OF MERRICKVILLE-WOLFORD TENDER FOR ONE TANDEM PLOW TRUCK The Village of Merrickville-Wolford 317 Brock Street West Merrickville, Ontario K0G1N0				
Attention:Brad Cole, Manager of OperationsTelephone:613-269-4791 ext. 236 publicworks@merrickville-wolford.ca				
CONTRACT NUMBER: PW2024-01	CLOSING DATE: 11:00AM April 10th, 2024			
YOUR COMPANY'S NAM	E AND ADDRESS:			

 \succ Use the above label for your envelope when you submit your Tender Document.

THE Village of Merrickville-Wolford TENDER FOR ONE TANDEM PLOW TRUCKS

APPENDIX "A" – ACCESSIBILITY DECLARATION

[COMPANY LETTERHEAD]

To: The Village of Merrickville-Wolford From: [Company Name] [DATE] [CONTRACT NUMBER, CONTRACT TITLE]

Re: Declaration of Compliance - Accessibility of Ontarians with Disabilities Act (AODA)

Please accept this letter as confirmation [COMPANY NAME] is in compliance with the Accessibility of Ontarians with Disabilities Act and its regulations

[SIGNATURE] [NAME] [POSITION] [CONTACT INFORMATION] [COMPANY]